3 Palmetto Drive

9870

DEMO

TOWN OF SEWALL'S POINT BUILDING DEPARTMENT
One S. Sewall's Point Road
Sewall's Point, Florida 34996
Tel 772-287-2455 Fax 772-220-4765

BUILDING PERMIT CARD

THIS CARD MUST BE POSTED IN A CONSPICUOUS PLACE IN PLAIN VIEW FROM THE STREET PRIOR TO BEGINNING ANY WORK
A FINAL INSPECTION IS REQUIRED FOR ALL PERMITS

PERMIT NUMBER:	9870	DATE ISSUED:	SEPTEMBER 2, 2011
SCOPE OF WORK:	DEMOLITION OF SFR		
CONDITIONS :			
CONTRACTOR:	ADAM SMITH BOBCAT SERVICE		
PARCEL CONTROL NUMBER:	013841010-000-001606	SUBDIVISION	PALMETTO PARK – L 16
CONSTRUCTION ADDRESS:	3 PALMETTO DR		
OWNER NAME:	TWOMEY / WHITNEY		
QUALIFIER:	ADAM SMITH	CONTACT PHONE NUMBER:	260-3715

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT. A CERTIFIED COPY OF THE RECORDED NOTICE OF COMMENCEMENT MUST BE SUBMITTED TO THE BUILDING DEPARTMENT PRIOR TO THE FIRST REQUESTED INSPECTION.

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN PUBLIC RECORDS OF THIS COUNTY, AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

24 HOUR NOTICE REQUIRED FOR INSPECTIONS – ALL CONSTRUCTION DOCUMENTS MUST BE AVAILABLE ON SITE
CALL 287-2455 - 8:00AM TO 4:00PM

REQUIRED INSPECTIONS

UNDERGROUND PLUMBING	_____	UNDERGROUND GAS	_____
UNDERGROUND MECHANICAL	_____	UNDERGROUND ELECTRICAL	_____
STEM-WALL FOOTING	_____	FOOTING	_____
SLAB	_____	TIE BEAM/COLUMNS	_____
ROOF SHEATHING	_____	WALL SHEATHING	_____
TIE DOWN /TRUSS ENG	_____	INSULATION	_____
WINDOW/DOOR BUCKS	_____	LATH	_____
ROOF DRY-IN/METAL	_____	ROOF TILE IN-PROGRESS	_____
PLUMBING ROUGH-IN	_____	ELECTRICAL ROUGH-IN	_____
MECHANICAL ROUGH-IN	_____	GAS ROUGH-IN	_____
FRAMING	_____	METER FINAL	_____
FINAL PLUMBING	_____	FINAL ELECTRICAL	_____
FINAL MECHANICAL	_____	FINAL GAS	_____
FINAL ROOF	_____	BUILDING FINAL	_____

ALL RE-INSPECTION FEES AND ADDITIONAL INSPECTION REQUESTS WILL BE CHARGED TO THE PERMIT HOLDER. THE CONTRACTOR OR OWNER /BUILDER MUST SCHEDULE A FINAL INSPECTION. FAILURE TO RECEIVE A SUCCESSFUL FINAL INSPECTION WILL RESULT IN PERMIT RENEWAL FEES, FINES, AND OR DENIAL OF FUTURE BUILDING PERMITS TO THE CONTRACTOR OR OWNER /BUILDER.

Town of Sewall's Point
BUILDING PERMIT APPLICATION

Date: 8-8-11 Permit Number: 9870

OWNER/TITLEHOLDER NAME: Michael + Gail Whitney Twomey Phone (Day) 8606084854 (Fax) 800-979-2901

Job Site Address: 3 Palmetto dr Sewells pt. FL City: Sewells Pt. State: FL Zip:

Legal Description Palmetto Park lot 16 Parcel Control Number: 01-38-41-010-000-00160-6

Owner Address (if different): 156 River Rd. City: Preston State: CT Zip: 06365

SCOPE OF WORK (PLEASE BE SPECIFIC): Complete demolition and removal of house + driveway

WILL OWNER BE THE CONTRACTOR?
(If yes, Owner Builder questionnaire must accompany application)
YES_____ NO X

Has a Zoning Variance ever been granted on this property?
YES_____ (YEAR)_____ NO X
(Must include a copy of all variance approvals with application)

COST AND VALUES: (Required on ALL permit applications)
Estimated Value of Improvements: $ 10200.00
(Notice of Commencement required when over $2500 prior to first inspection, $7,500 on HVAC change out)
Is subject property located in flood hazard area? VE10___ AE9___ AE8___ X___
FOR ADDITIONS, REMODELS AND RE-ROOF APPLICATIONS ONLY:
Estimated Fair Market Value prior to improvement: $_____
(Fair Market Value of the Primary Structure only, Minus the land value)
PRIVATE APPRAISALS MUST BE SUBMITTED WITH PERMIT APPLICATION

OR

Construction Company: Adam Smith Bobcat Svc. inc. Phone: 7722603715 Fax: 7722322191

Qualifiers name: Adam Smith Street: 661 N.E. Spencer St. City: Jensen Beach State: FL Zip: 34957

State License Number: CBC 125 1981 OR: Municipality: — License Number: —

LOCAL CONTACT: Adam Smith Phone Number: 772 260 3715

DESIGN PROFESSIONAL: — Fla. License# —

Street: _____ City: _____ State: _____ Zip: _____ Phone Number: _____

AREAS SQUARE FOOTAGE: Living: 1300 Garage: 300 Covered Patios/ Porches: 300 Enclosed Storage: _____

Carport: _____ Total under Roof 1900 Elevated Deck: _____ Enclosed area below BFE*: _____
* Enclosed non-habitable areas below the Base Flood Elevation greater than 300 sq. ft. require a Non-Conversion Covenant Agreement.

RECEIVED AUG 11 Sewall's Point Town Hall

CODE EDITIONS IN EFFECT THIS APPLICATION: Florida Building Code (Structural, Mechanical, Plumbing, Existing, Gas): 2007
National Electrical Code: 2005(2008 after 6/1/09)Florida Energy Code:2007, Florida Accessibility Code:2007, Florida Fire Prevention Code 2007

NOTICES TO OWNERS AND CONTRACTORS:

1. YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. WHEN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.
2. THERE ARE SOME PROPERTIES THAT MAY HAVE DEED RESTRICTIONS RECORDED UPON THEM. THESE RESTRICTIONS MAY LIMIT OR PROHIBIT THE WORK APPLIED FOR IN YOUR BUILDING PERMIT. IT IS YOUR RESPONSIBILITY TO DETERMINE IF YOUR PROPERTY IS ENCUMBERED BY ANY RESTRICTIONS. SOME RESTRICTIONS APPLICABLE TO THIS PROPERTY MAY BE FOUND IN THE PUBLIC RECORDS OF MARTIN COUNTY OR THE TOWN OF SEWALL'S POINT, THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.
3. BUILDING PERMITS FOR SINGLE FAMILY RESIDENCES AND SUBSTANTIAL IMPROVEMENTS TO SINGLE FAMILY RESIDENCES ARE VALID FOR A PERIOD OF 24 MONTHS. RENEWAL FEES WILL BE ASSESSED AFTER 24 MONTHS PER TOWN ORDINANCE 50-95.
4. THIS PERMIT WILL BECOME *NULL AND VOID* IF THE WORK AUTHORIZED BY THIS PERMIT IS NOT COMMENCED WITHIN 180 DAYS, OR IF WORK IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AT ANY TIME AFTER THE WORK IS COMMENCED. ADDITIONAL FEES WILL BE ASSESSED ON ANY PERMIT THAT BECOMES NULL AND VOID. REF. FBC 2007 SECT. 105.4.1. 105.4.1.1 - .5.

*******A FINAL INSPECTION IS REQUIRED ON ALL BUILDING PERMITS********

AFFIDAVIT: APPLICATION IS HEREBY MADE TO OBTAIN A PERMIT TO DO THE WORK AS SPECIFICALLY INDICATED ABOVE. I CERTIFY THAT NO WORK OR INSTALLATION HAS COMMENCED PRIOR TO THE ISSUANCE OF A PERMIT AND THAT THE INFORMATION I HAVE FURNISHED ON THIS APPLICATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. I AGREE TO COMPLY WITH ALL APPLICABLE CODES, LAWS, AND ORDINANCES OF THE TOWN OF SEWALL'S POINT DURING THE BUILDING PROCESS.

OWNER NOTORIZED SIGNATURE: (required per 713.135 F.S.)
OR OWNERS LEGAL AUTHORIZED AGENT (PROOF REQUIRED)

X Gail Whitney

State of Florida, County of: CT New London

On This the 9th day of August, 2011

by Gail Whitney & Mike Twomey who is personally known to me or produced CT identification As identification: Linda J. Slonski

LINDA J. SLONSKI
A Notary Public of Connecticut
My Commission Expires 06/30/2016

My Commission Expires: _____

CONTRACTOR NOTORIZED SIGNATURE: (required per 713.138 F.S.)

X _____

State of Florida, County of: Martin

On This the 22 day of Aug. 2011

by Adam L. Smith who is personally known to me or produced drivers license As identification: S530-012-71-[illegible]

NOTARY PUBLIC - STATE OF FLORIDA
Susan Kalbrah
Commission # DD 978748
My Commission Expires: JUNE 05, 2014

VALERIE MEYER
MY COMMISSION EXPIRES
May 14, 2014

SINGLE FAMILY PERMIT APPLICATIONS MUST BE ISSUED WITHIN 30 DAYS OF APPROVAL NOTIFICATION. APPLICATIONS WILL BE CONSIDERED ABANDONED AFTER 180 DAYS (FBC 105.3.2) – PLEASE PROVIDE PERMIT PROCESSING

Valerie Meyer

INSTR # 2294254 OR BK 02537 PG 2712 RECD 09/22/2011 02:22:00 PM
Pg 2712, (1pg)
MARSHA EWING MARTIN COUNTY DEPUTY CLERK C Oliveri

NOTICE OF COMMENCEMENT

TO BE COMPLETED WHEN CONSTRUCTION VALUE EXCEEDS $2,500.00

PERMIT #: 9870 TAX FOLIO #: 01-38-41-010-000-00160-6

STATE OF FLORIDA COUNTY OF MARTIN

THE UNDERSIGNED HEREBY GIVES NOTICE THAT IMPROVEMENT WILL BE MADE TO CERTAIN REAL PROPERTY, AND IN ACCORDANCE WITH CHAPTER 713, FLORIDA STATUTES, THE FOLLOWING INFORMATION IS PROVIDED IN THIS NOTICE OF COMMENCEMENT.

LEGAL DESCRIPTION OF PROPERTY (AND STREET ADDRESS IF AVAILABLE):
Palmetto Park lot 16 - 3 Palmetto dr Sewells Pt. FL

GENERAL DESCRIPTION OF IMPROVEMENT: Complete demolition and removal of house

OWNER NAME: Gail Whitney Michael ~~Whitney~~ TWOMEY
ADDRESS: 156 River rd. Preston CT. 06365
PHONE NUMBER: 860 608 4854 FAX NUMBER:

INTEREST IN PROPERTY:
NAME AND ADDRESS OF FEE SIMPLE TITLE HOLDER (IF OTHER THAN OWNER):

CONTRACTOR: Adam Smith
ADDRESS: 661 N.E. Spencer St. Jensen Beach FL 34957
PHONE NUMBER: 772 260 3713 FAX NUMBER: 772 232 2191

SURETY COMPANY (IF ANY):
ADDRESS:
PHONE NUMBER: FAX NUMBER:
BOND AMOUNT:

LENDER/MORTGAGE COMPANY:
ADDRESS:
PHONE NUMBER: FAX NUMBER:

STATE OF FLORIDA
MARTIN COUNTY

THIS IS TO CERTIFY THAT THE FOREGOING 1 PAGES IS A TRUE AND CORRECT COPY OF THE ORIGINAL
MARSHA EWING, CLERK
BY: D.C.
DATE: 09/22/11

CIRCUIT COURT MARTIN COUNTY, FLORIDA

PERSONS WITHIN THE STATE OF FLORIDA DESIGNATED BY OWNER UPON WHOM NOTICES OR OTHER DOCUMENTS MAY BE SERVED AS PROVIDED BY SECTION 713.13 (1) (a) 7., FLORIDA STATUTES:
NAME:
ADDRESS:
PHONE NUMBER: FAX NUMBER:

IN ADDITION TO HIMSELF OR HERSELF, OWNER DESIGNATES _____ OF _____ TO RECEIVE A COPY OF THE LIENOR'S NOTICE AS PROVIDED IN SECTION 713.13(1)(B), FLORIDA STATUES.
PHONE NUMBER: FAX NUMBER:

EXPIRATION DATE OF NOTICE OF COMMENCEMENT:
(EXPIRATION DATE IS ONE (1) YEAR FROM THE DATE OF RECORDING UNLESS A DIFFERENT DATE IS SPECIFIED).

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

A. Whitney Michael Twomey
SIGNATURE OF OWNER OR OWNER'S AUTHORIZED OFFICER/DIRECTOR/PARTNER/MANAGER

SIGNATORY'S TITLE/OFFICE

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS 9th DAY OF August 2011
BY: Linda J. Slonska (NAME OF PERSON) AS Notary Public (TYPE OF AUTHORITY) FOR Gail Whitney and Mike Twomey (NAME OF PARTY ON BEHALF OF WHOM INSTRUMENT WAS EXECUTED)

PERSONALLY KNOWN ____ OR PRODUCED IDENTIFICATION ✓
TYPE OF IDENTIFICATION PRODUCED CT Drivers License

Linda J. Slonska
NOTARY SIGNATURE/ SEAL

LINDA J. SLONSKI
A Notary Public of Connecticut
My Commission Expires 06/30/2016

UNDER PENALTIES OF PERJURY, I DECLARE THAT I HAVE READ THE FOREGOING AND THAT THE FACTS IN IT ARE TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF (SECTION 92.525, FLORIDA STATUTES).

A. Whitney Michael Twomey
(Signature of Natural Person Signing Above)

Martin County, Florida
Laurel Kelly, C.F.A
Summary

generated on 8/4/2011 11:47:18 AM EDT

Parcel ID	Account #	Unit Address	Market Total Value	Data as of
01-38-41-010-000-00160-6	17769	3 PALMETTO DR, SEWALL'S POINT	$186,310	7/30/2011

Owner Information

Owner(Current)	TWOMEY MICHAEL F WHITNEY GAIL L
Owner/Mail Address	156 RIVER RD PRESTON CT 06365
Sale Date	4/4/2011
Document Book/Page	2513 2895
Document No.	2270734
Sale Price	140000

Location/Description

Account #	17769	**Map Page No.**	SP-04
Tax District	2200	**Legal Description**	PALMETTO PARK LOT 16
Parcel Address	3 PALMETTO DR, SEWALL'S POINT		
Acres	.4640		

Parcel Type

Use Code	0100 Single Family
Neighborhood	120200 Heritage P, Palmtto Pk,Rdglnd,

Assessment Information

Market Land Value	$165,000
Market Improvement Value	$21,310
Market Total Value	$186,310

RECEIVED
SEP 07 2011

43-SS-1367907
PERMIT NO. 9-7-11
DATE PAID: 80.00
FEE PAID: 122247
RECEIPT #: AP 1046517

STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT

APPLICATION FOR:
[ ] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [X] Abandonment [ ] Temporary [ ] _____

APPLICANT: BETH SEINFELD

AGENT: JEFFREY K. NELSON SEPTIC TELEPHONE: 220-1240

MAILING ADDRESS: 1217 SE CASA AV STUART FL 34994

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

PROPERTY INFORMATION

LOT: 16 BLOCK: ____ SUBDIVISION: PALMETTO PARK PLATTED: 1960

PROPERTY ID #: 013S41010000001606 ZONING: ____ I/M OR EQUIVALENT: [Y / (N)]

PROPERTY SIZE: .464 ACRES WATER SUPPLY: [ ] PRIVATE PUBLIC [X] <=2000GPD [ ] >2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [Y / (N)] DISTANCE TO SEWER: — FT

PROPERTY ADDRESS: 3 PALMETTO DR STUART 34996

DIRECTIONS TO PROPERTY: EAST OCEAN EAST RIGHT ON SEWALLS PT. RD.

BUILDING INFORMATION [X] RESIDENTIAL [ ] COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	SIF	3	1200	
2				
3				
4				

[ ] Floor/Equipment Drains [ ] Other (Specify) _____

SIGNATURE: [signature] DATE: 6/9/11

DH 4015, 08/09 (Obsoletes previous editions which may not be used)
Incorporated 64E-6.001, FAC

OWNER'S COPY

Approved 09/12/2011 (JD)

STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM
CONSTRUCTION PERMIT

PERMIT #: 43-SS-1367907
APPLICATION #: AP1046517
DATE PAID:
FEE PAID:
RECEIPT #:
DOCUMENT #: PR853840

CONSTRUCTION PERMIT FOR: OSTDS Abandonment

APPLICANT: Beth Seinfeld

PROPERTY ADDRESS: 3 Palmetto Dr Stuart, FL 34996

LOT: 16 BLOCK: SUBDIVISION: PALMETTO PARK

PROPERTY ID #: 01-38-41-010-000-00160-6 [SECTION, TOWNSHIP, RANGE, PARCEL NUMBER] [OR TAX ID NUMBER]

SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS AND STANDARDS OF SECTION 381.0065, F.S., AND CHAPTER 64E-6, F.A.C. DEPARTMENT APPROVAL OF SYSTEM DOES NOT GUARANTEE SATISFACTORY PERFORMANCE FOR ANY SPECIFIC PERIOD OF TIME. ANY CHANGE IN MATERIAL FACTS, WHICH SERVED AS A BASIS FOR ISSUANCE OF THIS PERMIT, REQUIRE THE APPLICANT TO MODIFY THE PERMIT APPLICATION. SUCH MODIFICATIONS MAY RESULT IN THIS PERMIT BEING MADE NULL AND VOID. ISSUANCE OF THIS PERMIT DOES NOT EXEMPT THE APPLICANT FROM COMPLIANCE WITH OTHER FEDERAL, STATE, OR LOCAL PERMITTING REQUIRED FOR DEVELOPMENT OF THIS PROPERTY.

SYSTEM DESIGN AND SPECIFICATIONS

T [ ] GALLONS / GPD CAPACITY
A [ ] GALLONS / GPD CAPACITY
N [ ] GALLONS GREASE INTERCEPTOR CAPACITY [MAXIMUM CAPACITY SINGLE TANK:1250 GALLONS]
K [ ] GALLONS DOSING TANK CAPACITY [ ]GALLONS @[ ]DOSES PER 24 HRS #Pumps [ ]

D [ ] SQUARE FEET SYSTEM
R [ ] SQUARE FEET SYSTEM
A TYPE SYSTEM: [ ] STANDARD [ ] FILLED [ ] MOUND [ ]
I CONFIGURATION: [ ] TRENCH [ ] BED [ ]
N
F LOCATION OF BENCHMARK:
I ELEVATION OF PROPOSED SYSTEM SITE [ ][/][ABOVE/BELOW]BENCHMARK/REFERENCE POINT
E BOTTOM OF DRAINFIELD TO BE [ ][/][ABOVE/BELOW]BENCHMARK/REFERENCE POINT
L
D FILL REQUIRED: [0.00] INCHES EXCAVATION REQUIRED: [ ] INCHES

O T H E R

Have the tank abandoned in accordance with the following procedures:(a) The tank shall be pumped out.(b) The bottom of the tank shall be opened or ruptured, or the entire tank collapsed so as to prevent the tank from retaining water, and(c) The tank shall be filled with clean sand or other suitable material, and completely covered with soil.Have the system inspected by the health department after it has been pumped and ruptured but before it is filled with sand and covered. Submit pumpout certification prior to final approval.

SPECIFICATIONS BY: JEFFREY NELSON TITLE: Registered Septic Tank Contractor

APPROVED BY: Ray R Cross TITLE: Environmental Specialist 12/02/02 Martin CHD

DATE ISSUED: 09/08/2011 EXPIRATION DATE: 12/07/2011

DH 4016, 08/09 (Obsoletes all previous editions which may not be used)
Incorporated: 64E-6.003, FAC

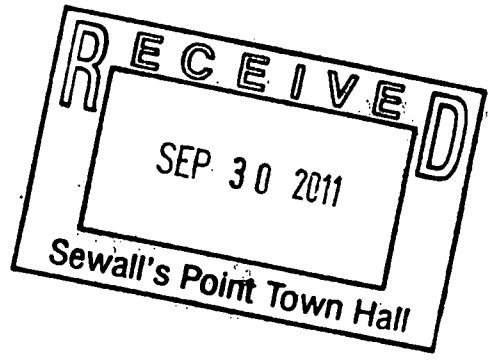
JEFFREY K. NELSON SEPTIC SERVICES INC.

1217 SE CASA AVENUE
STUART, FL 34994

Invoice

Date	Invoice #
8/18/2011	852

Bill To
Adam SmithBobcat Svc



P.O. No.	Terms	Project
3 Palmetto Rd		

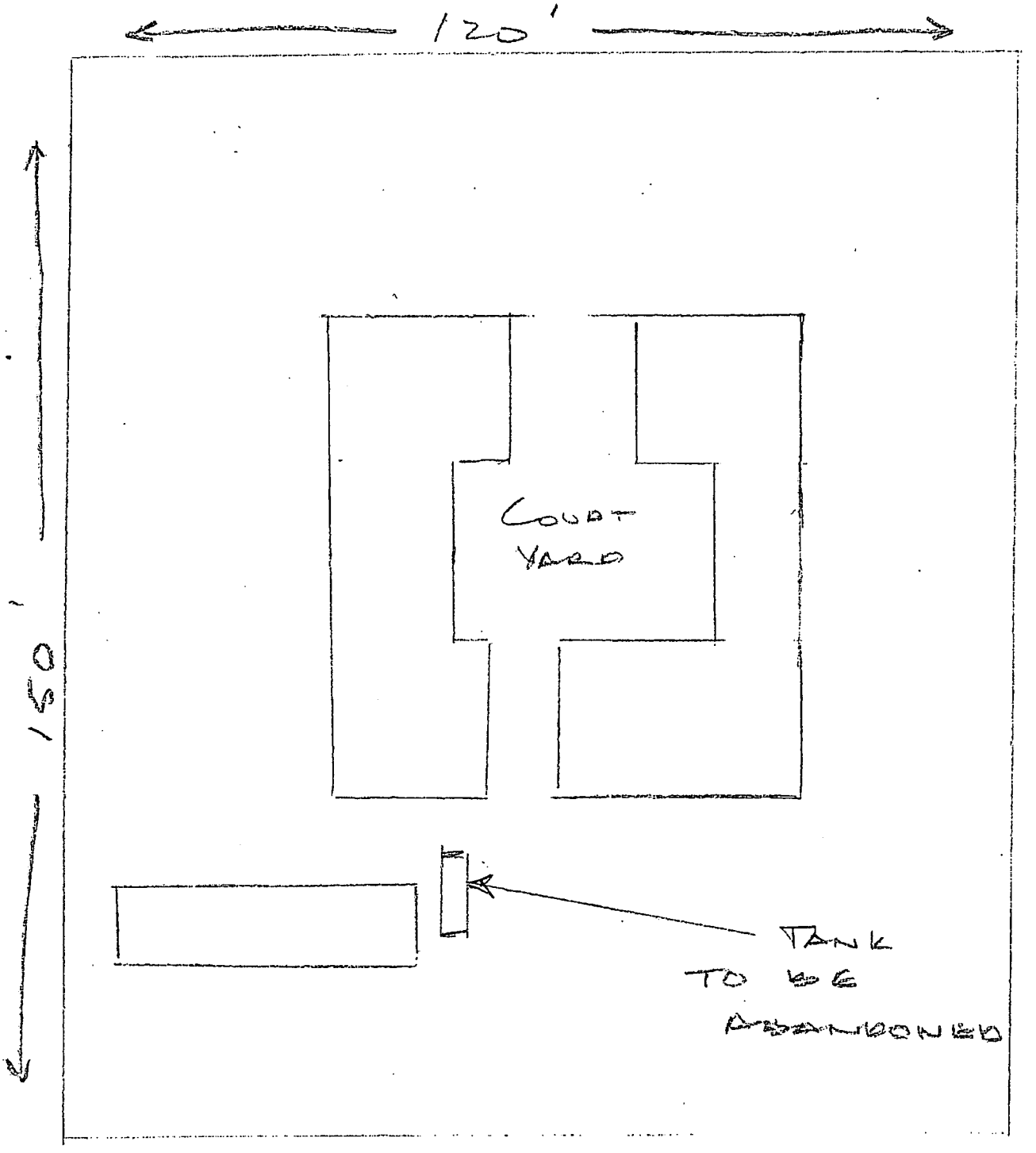
Quantity	Description	Rate	Amount
	Septic Abandonment permit Pump-out	485.00	485.00

7172
8/25

All returned checks are subject to a $30 fee.

Total $485.00

1" = 20'
APPROX



3 PALMETTO DR.

Marin County Health Department

THIS PLAN IS APPROVED FOR:

X Septic System: Approval # 4353 136 7905

___ Well Location: Approval # 43-_____

___ Other: _____ Approval # _____

By: _____ Date: _____

All Changes To The Plans Must Be Approved By the Health Dept.

Comments:

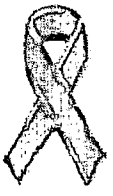
Valerie Meyer

From: SharedMailbox, TC-Inspections [TC_Inspections@fpl.com]
Sent: Thursday, August 18, 2011 3:50 PM
To: Valerie Meyer
Cc: GAIL_WHITNEY@SNET.NET
Subject: {Possible Spam?} 3 PALMETTO DR

Valerie,
This is to let you know the service was disconnected at the transformer and the meter was removed at 3 Palmetto Dr.
This job was completed on 8/17/11 @ 11:54am on work request#4248807. Thank you.

Melanie Wildrick
Florida Power & Light
Treasure Coast Distribution
1-800-343-7941

"Real Integrity is doing the right thing, knowing that nobody is going to know whether you did it or not."



TOWN OF SEWALL'S POINT
BUILDING DEPARTMENT
FILE COPY

RECEIVED
AUG 18 2011
Sewall's Point Town Hall

PATRICK exterminating

August 11, 2011

Adam Smith Bobcat Service, Inc.
661 NE Spencer Street
Jensen Beach, FL 34957

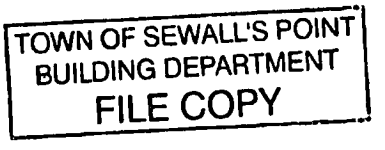
Re: 3 Palmetto Drive
Stuart, FL

To Whom It May Concern:

We certify that upon our inspection at the above listed address, we find that the home is free of any vermin or any other pest infestation. If we can be of any further service to you please do not hesitate to contact our office.

Sincerely,

Richard C. Patrick



3226 S.E. Gran Park Way, Stuart, FL 34997
Stuart/Palm City - (772) 286-6812 Hobe Sound - (772) 546-3722
Jupiter - (561) 744-2681 Pt. St. Lucie - (772) 335-7378 Vero Beach - (772) 562-3700
Fax (772) 223-2114

TOWN OF SEWALL'S POINT BUILDING DEPARTMENT
One S. Sewall's Point Road
Sewall's Point, Florida 34996
Tel 772-287-2455 Fax 772-2204765

CONTRACTOR, OWNER /BUILDER ASBESTOS NOTIFICATION STATEMENT

Date: 8-8-11 **Building Permit #**_____

Site Address: 3 Palmetto dr Sewells Pt.

FBC 104.1.10 Asbestos. The enforcing agency shall require each building permit for the demolition or renovation of an existing structure to contain an asbestos notification statement which indicates the owner's or operator's responsibility to comply with the provisions of s. 469.003 Florida Statutes and to notify the Department of Environmental Protection of her or his intentions to remove asbestos, when applicable, in accordance with state and federal law.
469.003 License required.--
(1) No person may conduct an asbestos survey, develop an operation and maintenance plan, or monitor and evaluate asbestos abatement unless trained and licensed as an asbestos consultant as required by this chapter.
(2)(a) No person may prepare asbestos abatement specifications unless trained and licensed as an asbestos consultant as required by this chapter.
(b) Any person engaged in the business of asbestos surveys prior to October 1, 1987, who has been certified by the Department of Labor and Employment Security as a certified asbestos surveyor, and who has complied with the training requirements of s. 469.013(1)(b), may provide survey services as described in s. 255.553(1), (2), and (3). The Department of Labor and Employment Security may, by rule, establish violations, disciplinary procedures, and penalties for certified asbestos surveyors.
(3) No person may conduct asbestos abatement work unless licensed by the department under this chapter as an asbestos contractor, except as otherwise provided in this chapter.

FBC 105.3.6 Asbestos removal. (Owner /Builder Exemption)
Moving, removal or disposal of asbestos-containing materials on a residential building where the owner occupies the building, the building is not for sale or lease, and the work is performed according to the owner-builder limitations provided in this paragraph. To qualify for exemption under this paragraph, an owner must personally appear and sign the building permit application. The permitting agency shall provide the person with a disclosure statement in substantially the following form: **Disclosure Statement**: State law requires asbestos abatement to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own asbestos abatement contractor even though you do not have a license. You must supervise the construction yourself. You may move, remove or dispose of asbestos-containing materials on a residential building where you occupy the building and the building is not for sale or lease, or the building is a farm outbuilding on your property. If you sell or lease such building within 1 year after the asbestos abatement is complete, the law will presume that you intended to sell or lease the property at the time the work was done, which is a violation of this exemption. You may not hire an unlicensed person as your contractor. Your work must be done according to all local, state and federal laws and regulations which apply to asbestos abatement projects. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances.

X **Contractor or** ___ **Owner/Builder Signature** Adam Smith

Subscribed and sworn to before me this 22 **day of** Aug. **, 20** 11 **, personally appeared** Adam L. Smith **who is personally known to me or produced** driver license **as identification, and who did/did not take an oath.**

Notary Public Signature Susan Kolifrath

Seal NOTARY PUBLIC-STATE OF FLORIDA
Susan Kolifrath
Commission # DD799905
Expires: JUNE 30, 2012
BONDED THRU ATLANTIC BONDING CO., INC.

TOWN OF SEWALLS POINT

BUILDING DEPARTMENT - INSPECTION LOG

Date of Inspection ☐ Mon ☐ Tue ☐ Wed ☐ Thur ☒ Fri 9-30-11 Page 1 of 1

PERMIT #	OWNER/ADDRESS/CONTRACTOR	INSPECTION TYPE	RESULTS	COMMENTS
9747	Schwartz	tie beam	Pass	
11-11.30	70 N Sewalls	roof sheathing	Pass	
	Driftwood	PARTIALS		INSPECTOR
PERMIT #	OWNER/ADDRESS/CONTRACTOR	INSPECTION TYPE	RESULTS	COMMENTS
9753	Bellingham	framing		
	2 Via de Christo	all trades	Pass	
	Masterpeece	PARTIAL		INSPECTOR
PERMIT #	OWNER/ADDRESS/CONTRACTOR	INSPECTION TYPE	RESULTS	COMMENTS
[redacted]	[redacted]	[redacted]	[redacted]	
	[redacted]	[redacted]	[redacted]	
	Adam Smith Bobcat			INSPECTOR
PERMIT #	OWNER/ADDRESS/CONTRACTOR	INSPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR
PERMIT #	OWNER/ADDRESS/CONTRACTOR	INSPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR
PERMIT #	OWNER/ADDRESS/CONTRACTOR	INSPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR
PERMIT #	OWNER/ADDRESS/CONTRACTOR	INSPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR

11089

LAND CLEARING & PAD FILL

TOWN OF SEWALL'S POINT BUILDING DEPARTMENT
One S. Sewall's Point Road
Sewall's Point, Florida 34996
Tel 772-287-2455 Fax 772-220-4765

BUILDING PERMIT CARD

THIS CARD MUST BE POSTED IN A CONSPICUOUS PLACE IN PLAIN VIEW FROM THE STREET PRIOR TO BEGINNING ANY WORK

A FINAL INSPECTION IS REQUIRED FOR ALL PERMITS

PERMIT NUMBER:	11089	DATE ISSUED:	November 17, 2014
SCOPE OF WORK:	Land Clearing and Pad Fill		
CONTRACTOR:	O/B		
PARCEL CONTROL NUMBER:	01-38-41-010-000-00160-6	SUBDIVISION:	Palmetto Park Lot 16
CONSTRUCTION ADDRESS:	3 Palmetto Drive		
OWNER NAME:	Batson		
QUALIFIER:	O/B	CONTACT PHONE NUMBER:	954-553-1778

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT. A CERTIFIED COPY OF THE RECORDED NOTICE OF COMMENCEMENT MUST BE SUBMITTED TO THE BUILDING DEPARTMENT PRIOR TO THE FIRST REQUESTED INSPECTION.

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN PUBLIC RECORDS OF THIS COUNTY, AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

24 HOUR NOTICE REQUIRED FOR INSPECTIONS – ALL CONSTRUCTION DOCUMENTS MUST BE AVAILABLE ON SITE
CALL 287-2455 - 8:00AM TO 4:00PM INSPECTIONS: 9:00AM TO 3:00PM – MONDAY THROUGH FRIDAY

INSPECTIONS

UNDERGROUND PLUMBING	_____	UNDERGROUND GAS	_____
UNDERGROUND MECHANICAL	_____	UNDERGROUND ELECTRICAL	_____
STEM-WALL FOOTING	_____	FOOTING	_____
SLAB	_____	TIE BEAM/COLUMNS	_____
ROOF SHEATHING	_____	WALL SHEATHING	_____
TIE DOWN /TRUSS ENG	_____	INSULATION	_____
WINDOW/DOOR BUCKS	_____	LATH	_____
ROOF DRY-IN/METAL	_____	ROOF TILE IN-PROGRESS	_____
PLUMBING ROUGH-IN	_____	ELECTRICAL ROUGH-IN	_____
MECHANICAL ROUGH-IN	_____	GAS ROUGH-IN	_____
FRAMING	_____	METER FINAL	_____
FINAL PLUMBING	_____	FINAL ELECTRICAL	_____
FINAL MECHANICAL	_____	FINAL GAS	_____
FINAL ROOF	_____	BUILDING FINAL	_____

ALL RE-INSPECTION FEES AND ADDITIONAL INSPECTION REQUESTS WILL BE CHARGED TO THE PERMIT HOLDER. THE CONTRACTOR OR OWNER /BUILDER MUST SCHEDULE A FINAL INSPECTION. FAILURE TO RECEIVE A SUCCESSFUL FINAL INSPECTION WILL RESULT IN PERMIT RENEWAL FEES, FINES, AND OR DENIAL OF FUTURE BUILDING PERMITS TO THE CONTRACTOR OR OWNER /BUILDER.

TOWN OF SEWALL'S POINT BUILDING DEPARTMENT
One S. Sewall's Point Road
Sewall's Point, Florida 34996
Tel 772-287-2455 Fax 772-220-4765

BUILDING PERMIT RECEIPT

PERMIT NUMBER:	**11089**		
ADDRESS:	**3 Palmetto Drive**		
DATE ISSUED:	**11/17/2014**	**SCOPE OF WORK:**	**Land Clearing and Pad Fill**

SINGLE FAMILY OR ADDITION /REMODEL		Declared Value	$	[redacted]

Plan Submittal Fee ($350.00 SFR, $175.00 Remodel < $200K)		$	[redacted]
(No plan submittal fee when value is less than $100,000)			
Total square feet air-conditioned spa @ $ 121.75 per sq. ft. s.f.	[redacted]	$	-
Total square feet non-conditioned space, or interior remodel:			
@ $ 59.81 per sq. ft. s.f.	[redacted]	$	-
Total square feet remodel with new trusses: $ 90.78 per sq. ft. s.f.	[redacted]	$	-
Total Construction Value:		$	$ -
Building fee: (2% of construction value SFR or >$200K)		$	n/a
Building fee: (1% of construction value < $200K + $100 per insp.)			$ -
Total number of inspections (Value < $200K) $ 100.00 per insp. # insp	[redacted]		n/a
Dept. of Comm. Affairs Fee: (1.5% of permit fee - $2.00 min)		$	n/a
DBPR Licensing Fee: (1.5% of permit fee - $2.00 min.)		$	n/a
Road impact assessment: (.04% of construction value - $5 min.)			n/a
Martin County Impact Fee:		$	
TOTAL BUILDING PERMIT FEE:		$	**$ -**

ACCESSORY PERMIT Declared Value:		$	[redacted]
Total number of inspections: @ $ 100.00 per insp. # insp	[redacted]		$ -
Dept. of Comm. Affairs Fee: (1.5% of permit fee - $2.00 min)		$	n/a
DBPR Licensing Fee: (1.5% of permit fee - $2.00 min.)		$	n/a
Road impact assessment: (.04% of construction value - $5 min.)			n/a

TOTAL ACCESSORY PERMIT FEE:	**$ 500.00**

TOWN OF SEWALL'S POINT BUILDING DEPARTMENT
One S. Sewall's Point Road
Sewall's Point, Florida 34996
Tel 772-287-2455 Fax 772-220-4765

OWNER/BUILDER QUESTIONNAIRE AND DISCLOSURE STATEMENT
MUST BE COMPLETED AND REVIEWED PRIOR TO PERMIT ISSUANCE

APPLICABLE ONLY TO OWNER-OCCUPIED SINGLE FAMILY RESIDENCES
AND COMMERCIAL IMPROVEMENTS LESS THAN $75,000 IN VALUE

NOTICE: FLORIDA STATUTE 489 REQUIRING CONSTRUCTION TO BE DONE ONLY BY LICENSED CONTRACTORS PROVIDES AN EXEMPTION FROM LICENSING FOR A PROPERTY OWNER WHO ACTS AS HIS/HER OWN CONTRACTOR UNDER SPECIFIC CONDITIONS. ANSWERS TO THE FOLLOWING QUESTIONS ARE ESSENTIAL TO DETERMINE IF THOSE STATE QUALIFICATIONS ARE SATISFIED BY AN OWNER/BUILDER APPLICANT.

ALL QUESTIONS MUST BE ANSWERED. IF A QUESTION DOES NOT APPLY, INDICATE BY WRITING "N/A"

Owner/Builder Applicant Name: Tod & Robyn Batson

Site address of the proposed building work: 3 Palmetto Drive

Name of legal title owner of the address above: SAME

Describe the scope of work for the proposed new construction: Land Clearing & Pad Fill

Name of Architect of Record: N/A Structural Engineer of Record: N/A

Who will supervise the trade work to meet the applicable code? Yes

What provisions have you made for Liability and Property Damage Insurance? N/A

What provisions exist for withholding Social Security and Federal Income Taxes, as required by Federal Law, from wages paid to people you hire who are not licensed? Hired licensed contractors only

What previous Owner/Builder improvements have you done in the State of Florida?

Location: N/A Scope of Work Done: _____ Year: _____

Location: N/A Scope of Work Done: _____ Year: _____

What code books do you have available for reference? Building: Florida Building Code

Electric: _____ Plumbing: _____ HVAC: _____

Other: _____

I have internet access and will view The Florida Building code at www.floridabuilding.org YES [✓] NO [ ]

Do you understand that as the permit holder you are liable for following all Local, County, State and Federal codes, laws and requirements, and you are also liable for anyone injured on the construction site? Yes (yes/no)

Have you consulted with your Homeowner's Insurance Agent? [ ] Lender? [ ] Attorney? [ ] N/A

In order to assure your success in this project, please signify your awareness that the function of the building department is to issue you a building permit and verify code compliance through plan review and the inspection process. I am aware that town staff is not obligated to offer supervision, design or instructional advice prior or during my project. TB (initials).

Martin County, Florida
Laurel Kelly, C.F.A
Summary

generated on 11/17/2014 11:55:47 AM EST

Parcel ID	Account #	Unit Address	Market Total Value	Website Updated
01-38-41-010-000-00160-6	17769	3 PALMETTO DR, SEWALL'S POINT	$160,000	11/15/2014

Owner Information

Owner(Current)	BATSON TOD & ROBYN
Owner/Mail Address	153 OCEAN BAY DR JENSEN BEACH FL 34957
Sale Date	9/29/2014
Document Book/Page	2742 2518
Document No.	2478018
Sale Price	220000

Location/Description

Account #	17769	**Map Page No.**	SP-04
Tax District	2200	**Legal Description**	PALMETTO PARK LOT 16
Parcel Address	3 PALMETTO DR, SEWALL'S POINT		
Acres	.4640		

Parcel Type

Use Code	0000 Vacant Residential
Neighborhood	120200 Heritage P, Palmtto Pk,Rdglnd,

Assessment Information

Market Land Value	$160,000
Market Improvement Value	
Market Total Value	$160,000

TOWN OF SEWALL'S POINT BUILDING DEPARTMENT
One S. Sewall's Point Road
Sewall's Point, Florida 34996
Tel 772-287-2455 Fax 772-220-4765

OWNER/BUILDER DISCLOSURE STATEMENT

NOTICE: STATE LAW REQUIRES THAT ALL PERMITTING AGENCIES PROVIDE INDIVIDUALS SUBMITTING APPLICATIONS FOR OWNER/BUILDER PERMITS THE FOLLOWING INFORMATION:

1. THE TOWN OF SEWALL'S POINT CODE OF LAWS AND ORDINANCES REQUIRES THAT ANY PERSON DESIRING TO ENGAGE IN BUSINESS AS A CONTRACTOR IN THE TOWN OF SEWALL'S POINT BE A HOLDER OF A CERTIFICATE OF COMPETENCY.

2. FLORIDA STATUTES 489.103 (7) ALLOWS YOU, AS A PROPERTY OWNER, AN EXEMPTION TO CONSTRUCT OR IMPROVE A SINGLE FAMILY DWELLING AND ACCESSORY-USE STRUCTURES ON SAID PROPERTY FOR YOUR OWN USE OR OCCUPANCY WITHOUT HAVING A CERTIFICATE OF COMPETENCY.

3. AS AN OWNER/BUILDER, YOU MUST PHYSICALLY PERFORM OR MATERIALLY SUPERVISE ALL CONSTRUCTION/IMPROVEMENTS SPECIFIED ON YOUR OWNER/BUILDER PERMIT AND YOU ARE TOTALLY RESPONSIBLE FOR ALL ACTIVITIES ASSOCIATED THEREWITH. OWNER/BUILDERS WHO WISH TO DO ELECTRICAL OR PLUMBING WORK MUST PASS A SHORT OPEN BOOK QUIZ ADMINISTERED BY THE BUILDING DEPARTMENT.

4. IF YOU DO NOT PHYSICALLY PERFORM A SPECIFIC PHASE OF SAID CONSTRUCTION/IMPROVEMENT, BUT CHOOSE TO SUB-CONTRACT IT, THEN SUCH CONSTRUCTION/IMPROVEMENT MUST BE SUB-CONTRACTED TO A LOCALLY LICENSED OR STATE CERTIFIED CONTRACTOR.

5. YOU MAY NOT HIRE AN UNLICENSED INDIVIDUAL WHO IN ANY MANNER ACTS IN THE CAPACITY OF A GENERAL CONTRACTOR, THAT IS, ONE WHO FULFILLS YOUR DUTIES UNDER PARAGRAPH (3) ABOVE.

6. UNDER AN OWNER/BUILDER PERMIT YOU MAY NOT CONSTRUCT A BUILDING WHICH YOU INTEND TO SELL OR LEASE. THE SALE OR LEASE, OR OFFERING FOR SALE OR LEASE, OF ANY SUCH STRUCTURE BY THE OWNER-BUILDER WITHIN 1 YEAR AFTER COMPLETION OF SAME CREATES A PRESUMPTION THAT THE CONSTRUCTION WAS UNDERTAKEN FOR PURPOSES OF SALE OR LEASE WHICH IS A VIOLATION OF THIS EXEMPTION.

7. THIS EXEMPTION SHALL NOT APPLY TO ANY PERSON WHO HAS LEASED, SOLD, OR OFFERED FOR SALE MORE THAN 1 STRUCTURE BUILT UNDER AN OWNER-BUILDER PERMIT IN ANY JURISDICTION WITHIN THE 5 YEARS IMMEDIATELY PRECEDING THE APPLICATION FOR A PERMIT.

8. THERE MUST BE A THIRTY-SIX (36) MONTH PERIOD BETWEEN THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR THE INITIAL DWELLING AND THE SUBMITTAL OF AN OWNER/BUILDER APPLICATION FOR A SUBSEQUENT DWELLING. NO OTHER BUILDING PERMIT FOR A HOME SHALL BE ISSUED TO THAT OWNER/BUILDER, THE OWNER/BUILDER'S SPOUSE OR ANY MEMBER OF THE OWNER/BUILDER'S IMMEDIATE FAMILY UNDER EIGHTEEN YEARS OF AGE UNTIL THREE YEARS AFTER THE HOME BUILT UNDER THE FIRST BUILDING PERMIT HAS RECEIVED A CERTIFICATE OF OCCUPANCY.

9. ALL CONSTRUCTION IMPROVEMENTS PERFORMED UNDER YOUR OWNER/BUILDER PERMIT MUST BE IN STRICT COMPLIANCE WITH FLORIDA STATE STATUTE SECTION 489, SEWALL'S POINTS CODE OF LAWS AND ORDINANCES, ALL BUILDING & ZONING CODES AND REGULATIONS PERTAINING TO SINGLE FAMILY DWELLINGS, ACCESSORY USE STRUCTURES AS APPLICABLE.

10. YOUR OWNER/BUILDER EXEMPTION DOES NOT WAIVE ANY PERMIT CONDITIONS OR REQUIREMENTS OR WAIVE ANY PORTION OR PORTIONS OF ANY APPLICABLE BUILDING OR SWIMMING POOL CODES OR TOWN ORDINANCES.

11. ALL CONSTRUCTION/IMPROVEMENTS PERFORMED UNDER YOUR OWNER/BUILDING PERMIT MUST ALSO BE IN STRICT COMPLIANCE WITH ALL APPLICABLE ZONING REGULATIONS (QUESTIONS REGARDING ZONING REGULATIONS SHOULD BE DIRECTED TO THE TOWN OF SEWALL'S POINT AT 772-287-2455.)

TOWN OF SEWALL'S POINT BUILDING DEPARTMENT
One S. Sewall's Point Road
Sewall's Point, Florida 34996
Tel 772-287-2455 Fax 772-220-4765

12. YOU MUST BE FAMILIAR WITH AND CALL FOR THE REQUIRED INSPECTIONS OF ALL CONSTRUCTION/IMPROVEMENTS PERFORMED UNDER YOUR OWNER/BUILDER PERMIT.

13. AS AN OWNER/BUILDER YOU MUST VERIFY THAT ALL INDIVIDUALS OR FIRMS ENGAGED IN CONSTRUCTION/IMPROVEMENTS ACTIVITIES UNDER YOUR OWNER/BUILDER PERMIT ARE PROPERLY LICENSED AS REQUIRED BY STATE LAW OR LOCAL ORDINANCE.

14. AS AN OWNER/BUILDER, YOU ARE LIABLE TO AND RESPONSIBLE FOR THOSE PEOPLE HIRED TO ASSIST YOU. SUCH LIABILITY AND RESPONSIBILITY MAY INCLUDE, BUT IS NOT LIMITED TO, COMPLIANCE WITH APPLICABLE LAWS RELATING TO LIENS, WORKERS' COMPENSATION, SOCIAL SECURITY, UNEMPLOYMENT, FEDERAL WITHHOLDING TAX, AND PUBLIC LIABILITY.

15. I, AS AN OWNER/BUILDER, IN CONSIDERATION OF A BUILDING PERMIT ISSUED BY SEWALL'S POINT, FLORIDA, AGREE TO INDEMNIFY AND HOLD HARMLESS SAID SEWALL'S POINT, FLORIDA, ITS OFFICERS AND AGENTS FROM ANY AND ALL CLAIMS, DAMAGES, OR EXPENSES THAT SEWALL'S POINT MAY BE LIABLE FOR WHICH ARISE FROM THE CONSTRUCTION/IMPROVEMENTS ACCOMPLISHED IN CONNECTION WITH SAID BUILDING PERMIT.

I HEREBY ACKNOWLEDGE THAT I HAVE THOROUGHLY READ AND COMPLETELY UNDERSTAND THE PRECEDING PAGE OF THE OWNER/BUILDER DISCLOSURE STATEMENT.

ON THIS 18 DAY OF November, 20 14.

PROPERTY ADDRESS 3 Palmetto Drive

CITY Sewall's Point STATE FL ZIP 34996

X _____

SIGNATURE OF OWNER/BUILDER

SWORN TO AND SUBSCRIBED BEFORE ME THIS 18 DAY OF November 20 14

BY Shari Canada

PERSONALLY KNOWN _____

OR PRODUCED ID FLDL

TYPE OF ID _____

Shari Canada

NOTARY SIGNATURE

SHARI CANADA
NOTARY PUBLIC
STATE OF FLORIDA
Comm# EE179386
Expires 3/14/2016

TSP 04/27/2007

11146

SFR

TOWN OF SEWALL'S POINT BUILDING DEPARTMENT
One S. Sewall's Point Road
Sewall's Point, Florida 34996
Tel 772-287-2455 Fax 772-220-4765

BUILDING PERMIT CARD

THIS CARD MUST BE POSTED IN A CONSPICUOUS PLACE IN PLAIN VIEW FROM THE STREET PRIOR TO BEGINNING ANY WORK

A FINAL INSPECTION IS REQUIRED FOR ALL PERMITS

PERMIT NUMBER:	11146	DATE ISSUED:	January 21, 2015
SCOPE OF WORK:	NEW SFR		
CONTRACTOR:	O/B		
PARCEL CONTROL NUMBER:	01-38-41-010-000-00160-6	SUBDIVISION:	Palmetto Park Lot 16
CONSTRUCTION ADDRESS:	3 Palmetto Drive		
OWNER NAME:	Batson		
QUALIFIER:	O/B	CONTACT PHONE NUMBER:	828-9855

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT. A CERTIFIED COPY OF THE RECORDED NOTICE OF COMMENCEMENT MUST BE SUBMITTED TO THE BUILDING DEPARTMENT PRIOR TO THE FIRST REQUESTED INSPECTION.

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN PUBLIC RECORDS OF THIS COUNTY, AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

24 HOUR NOTICE REQUIRED FOR INSPECTIONS – ALL CONSTRUCTION DOCUMENTS MUST BE AVAILABLE ON SITE
CALL 287-2455 - 8:00AM TO 4:00PM INSPECTIONS: 9:00AM TO 3:00PM – MONDAY THROUGH FRIDAY

INSPECTIONS

UNDERGROUND PLUMBING	_____	UNDERGROUND GAS	_____
UNDERGROUND MECHANICAL	_____	UNDERGROUND ELECTRICAL	_____
STEM-WALL FOOTING	_____	FOOTING	_____
SLAB	_____	TIE BEAM/COLUMNS	_____
ROOF SHEATHING	_____	WALL SHEATHING	_____
TIE DOWN /TRUSS ENG	_____	INSULATION	_____
WINDOW/DOOR BUCKS	_____	LATH	_____
ROOF DRY-IN/METAL	_____	ROOF TILE IN-PROGRESS	_____
PLUMBING ROUGH-IN	_____	ELECTRICAL ROUGH-IN	_____
MECHANICAL ROUGH-IN	_____	GAS ROUGH-IN	_____
FRAMING	_____	METER FINAL	_____
FINAL PLUMBING	_____	FINAL ELECTRICAL	_____
FINAL MECHANICAL	_____	FINAL GAS	_____
FINAL ROOF	_____	BUILDING FINAL	_____

ALL RE-INSPECTION FEES AND ADDITIONAL INSPECTION REQUESTS WILL BE CHARGED TO THE PERMIT HOLDER. THE CONTRACTOR OR OWNER /BUILDER MUST SCHEDULE A FINAL INSPECTION. FAILURE TO RECEIVE A SUCCESSFUL FINAL INSPECTION WILL RESULT IN PERMIT RENEWAL FEES, FINES, AND OR DENIAL OF FUTURE BUILDING PERMITS TO THE CONTRACTOR OR OWNER /BUILDER.

Town of Sewall's Point

Date: 1-12-2015 **BUILDING PERMIT APPLICATION** Permit Number: _____

OWNER/LESSEE NAME: Tod + Robyn Batson Phone (Day) 954-553-1778 (Fax) _____

Job Site Address: 3 Palmetto Dr City: Sewalls Point State: FL Zip: 34996

Legal Description Lot 16 Palmetto Park Parcel Control Number: 01-38-41-010-000-00160-6

Fee Simple Holder Name: Tod + Robyn Batson Address: 153 Ocean Bay Dr

City: Jensen Bch State: FL Zip: 34957 Telephone: 954-353-1778

*SCOPE OF WORK (PLEASE BE SPECIFIC): 500,517.60 GR

WILL OWNER BE THE CONTRACTOR?
(If yes, Owner Builder questionnaire must accompany application)
YES ✓ NO _____

Has a Zoning Variance ever been granted on this property?
YES _____ (YEAR) _____ NO ✓
(Must include a copy of all variance approvals with application)

COST AND VALUES: (Required on ALL permit applications)
Estimated Value of Improvements: $ 421,201.33 See ATTACHED
(Notice of Commencement required when over $2500 prior to first inspection, $7,500 on HVAC change out)
Is subject property located in flood hazard area? VE10___ AE9___ AE8___ X___
FOR ADDITIONS, REMODELS AND RE-ROOF APPLICATIONS ONLY:
Estimated Fair Market Value prior to improvement: $_____
(Fair Market Value of the Primary Structure only, Minus the land value)
PRIVATE APPRAISALS MUST BE SUBMITTED WITH PERMIT APPLICATION

Construction Company: N/A Phone: _____ Fax: _____

Qualifiers name: _____ Street: _____ City: _____ State: _____ Zip: _____

State License Number: _____ OR: Municipality: _____ License Number: _____

LOCAL CONTACT: Tod Batson Phone Number: 772-828-9855

DESIGN PROFESSIONAL: _____ Fla. License# _____

Street: _____ City: _____ State: _____ Zip: _____ Phone Number: _____

AREAS SQUARE FOOTAGE: Living: 3257 Garage: 674 Covered Patios/ Porches: 517 Enclosed Storage: _____

Carport: _____ Total under Roof: 4513 Elevated Deck: _____ Enclosed area below BFE*: _____

* Enclosed non-habitable areas below the Base Flood Elevation greater than 300 sq. ft. require a Non-Conversion Covenant Agreement.

CODE EDITIONS IN EFFECT THIS APPLICATION: Florida Building Code (Structural, Mechanical, Plumbing, Existing, Gas): 2010 National Electrical Code: 2008, Florida Energy Code: 2010, Florida Accessibility Code: 2010, Florida Fire Prevention Code: 2010

WARNINGS TO OWNERS AND CONTRACTORS:

1. YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. WHEN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION.
2. IT IS YOUR RESPONSIBILITY TO DETERMINE IF YOUR PROPERTY IS ENCUMBERED BY ANY DEED RESTRICTIONS. SOME RESTRICTIONS APPLICABLE TO THIS PROPERTY MAY BE FOUND IN THE PUBLIC RECORDS OF MARTIN COUNTY OR THE TOWN OF SEWALL'S POINT. THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.
3. BUILDING PERMITS FOR SINGLE FAMILY RESIDENCES AND SUBSTANTIAL IMPROVEMENTS TO SINGLE FAMILY RESIDENCES ARE VALID FOR A PERIOD OF 24 MONTHS. RENEWAL FEES WILL BE ASSESSED AFTER 24 MONTHS PER TOWN ORDINANCE 50-95.
4. THIS PERMIT WILL BECOME *NULL AND VOID* IF THE WORK AUTHORIZED BY THIS PERMIT IS NOT COMMENCED WITHIN 180 DAYS, OR IF WORK IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AT ANY TIME AFTER THE WORK IS COMMENCED. ADDITIONAL FEES WILL BE ASSESSED ON ANY PERMIT THAT BECOMES NULL AND VOID. REF. FBC 2007 SECT. 105.4.1, 105.4.1.1 - .5.

*******A FINAL INSPECTION IS REQUIRED ON ALL BUILDING PERMITS********

AFFIDAVIT: APPLICATION IS HEREBY MADE TO OBTAIN A PERMIT TO DO THE WORK AS SPECIFICALLY INDICATED ABOVE. I CERTIFY THAT NO WORK OR INSTALLATION HAS COMMENCED PRIOR TO THE ISSUANCE OF A PERMIT AND THAT THE INFORMATION I HAVE FURNISHED ON THIS APPLICATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. I AGREE TO COMPLY WITH ALL APPLICABLE CODES, LAWS, AND ORDINANCES OF THE TOWN OF SEWALL'S POINT DURING THE BUILDING PROCESS.

OWNER /AGENT/LESSEE - NOTARIZED SIGNATURE:

X _____

State of Florida, County of: Martin

On This the 12 day of January, 2015

by Tod Batson who is personally known to me or produced FL D.L. as identification.

Notary Public

My Commission Expires: 03/14/2016

JOAN CANADA NOTARY PUBLIC STATE OF FLORIDA Comm# EE179306 Expires 3/14/2016

CONTRACTOR/LICENSEE NOTARIZED SIGNATURE:

X N/A

State of Florida, County of: _____

On This the _____ day of _____ 20___

by _____ who is personally known to me or produced _____ as identification.

Notary Public

My Commission Expires: _____

SINGLE FAMILY PERMIT APPLICATIONS MUST BE ISSUED WITHIN 30 DAYS OF APPROVAL NOTIFICATION (FBC 105.3.4) ALL OTHER APPLICATIONS WILL BE CONSIDERED ABANDONED AFTER 180 DAYS (FBC 105.3.2) – PLEASE PICK UP YOUR PERMIT PROMPTLY!

TOWN OF SEWALL'S POINT BUILDING DEPARTMENT
One S. Sewall's Point Road
Sewall's Point, Florida 34996
Tel 772-287-2455 Fax 772-220-4765

BUILDING PERMIT RECEIPT

PERMIT NUMBER:	**0**		
ADDRESS:	**3 Palmetto Drive**		
DATE ISSUED:	**1/0/1900**	**SCOPE OF WORK:**	**0**

SINGLE FAMILY OR ADDITION /REMODEL		Declared Value	$	

Plan Submittal Fee ($350.00 SFR, $175.00 Remodel < $200K)		$	$ 350.00
(No plan submittal fee when value is less than $100,000)			
Total square feet air-conditioned spa @ $ 121.75 per sq. ft. s.f.			$ -
Total square feet non-conditioned space, or interior remodel: @ $ 59.81 per sq. ft. s.f.			$ -
Total square feet remodel with new trusses: $ 90.78 per sq. ft. s.f.			$ -
Total Construction Value:		$	$ -
Building fee: (2% of construction value SFR or >$200K)		$	n/a
Building fee: (1% of construction value < $200K + $100 per insp.)			$ -
Total number of inspections (Value < $200K) $ 100.00 per insp. # insp			n/a
Dept. of Comm. Affairs Fee: (1.5% of permit fee - $2.00 min)		$	n/a
DBPR Licensing Fee: (1.5% of permit fee - $2.00 min.)		$	n/a
Road impact assessment: (.04% of construction value - $5 min.)			n/a
Martin County Impact Fee:		$	
TOTAL BUILDING PERMIT FEE:		$	**$ 350.00**

ACCESSORY PERMIT Declared Value:		$	
Total number of inspections: @ $ 100.00 per insp. # insp			$ -
Dept. of Comm. Affairs Fee: (1.5% of permit fee - $2.00 min)		$	n/a
DBPR Licensing Fee: (1.5% of permit fee - $2.00 min.)		$	n/a
Road impact assessment: (.04% of construction value - $5 min.)			n/a

TOTAL ACCESSORY PERMIT FEE:	$ -

TOWN OF SEWALL'S POINT BUILDING DEPARTMENT
One S. Sewall's Point Road
Sewall's Point, Florida 34996
Tel 772-287-2455 Fax 772-220-4765

BUILDING PERMIT RECEIPT

PERMIT NUMBER:	**11146**		
ADDRESS:	**3 Palmetto Drive**		
DATE ISSUED:	**1/21/2015**	**SCOPE OF WORK:**	**NEW SFR**

SINGLE FAMILY OR ADDITION /REMODEL		Declared Value	$ 500,517.60

Plan Submittal Fee ($350.00 SFR, $175.00 Remodel < $200K)	$	$ 350.00
(No plan submittal fee when value is less than $100,000)		
Total square feet air-conditioned spa @ $ 121.75 per sq. ft. s.f.		$ -
Total square feet non-conditioned space, or interior remodel:		
@ $ 59.81 per sq. ft. s.f.		$ -
Total square feet remodel with new trusses: $ 90.78 per sq. ft. s.f.		$ -
Total Construction Value:	$	$ 500,517.60
Building fee: (2% of construction value SFR or >$200K)	$	$ 10,010.35
Building fee: (1% of construction value < $200K + $100 per insp.)		n/a
Total number of inspections (Value < $200K) $ 100.00 per insp. # insp		$ -
Dept. of Comm. Affairs Fee: (1.5% of permit fee - $2.00 min)	$	$ 150.16
DBPR Licensing Fee: (1.5% of permit fee - $2.00 min.)	$	$ 150.16
Road impact assessment: (.04% of construction value - $5 min.)		$ 200.21
Martin County Impact Fee:	$	
TOTAL BUILDING PERMIT FEE:	$	**$ 10,510.87**

ACCESSORY PERMIT	Declared Value:	$	
Total number of inspections:	@ $ 100.00 per insp. # insp		$ -
Dept. of Comm. Affairs Fee: (1.5% of permit fee - $2.00 min)		$	n/a
DBPR Licensing Fee: (1.5% of permit fee - $2.00 min.)		$	n/a
Road impact assessment: (.04% of construction value - $5 min.)			n/a

TOTAL ACCESSORY PERMIT FEE:	$ -

1.19.15

AE 8 FLOOD ZONE = 1.07 MULTIPLIER

MINIMUM CONST. VALUE

3257	×	121.75 ☆ A/C	396,539.75
1191	×	59.81 ☆ NON A/C	71,233.71
			467,773.46
		×	1.07
			500,517.60

TOWN OF SEWALL'S POINT BUILDING DEPARTMENT
One S. Sewall's Point Road
Sewall's Point, Florida 34996
Tel 772-287-2455 Fax 772-220-4765

OWNER/BUILDER QUESTIONNAIRE AND DISCLOSURE STATEMENT
MUST BE COMPLETED AND REVIEWED PRIOR TO PERMIT ISSUANCE

APPLICABLE ONLY TO OWNER-OCCUPIED SINGLE FAMILY RESIDENCES
AND COMMERCIAL IMPROVEMENTS LESS THAN $75,000 IN VALUE

NOTICE: FLORIDA STATUTE 489 REQUIRING CONSTRUCTION TO BE DONE ONLY BY LICENSED CONTRACTORS PROVIDES AN EXEMPTION FROM LICENSING FOR A PROPERTY OWNER WHO ACTS AS HIS/HER OWN CONTRACTOR UNDER SPECIFIC CONDITIONS. ANSWERS TO THE FOLLOWING QUESTIONS ARE ESSENTIAL TO DETERMINE IF THOSE STATE QUALIFICATIONS ARE SATISFIED BY AN OWNER/BUILDER APPLICANT.

ALL QUESTIONS MUST BE ANSWERED. IF A QUESTION DOES NOT APPLY, INDICATE BY WRITING "N/A"

Owner/Builder Applicant Name: Tod + Robyn Batson

Site address of the proposed building work: 3 Palmetto Dr. Sewalls Point, Fl.

Name of legal title owner of the address above: Same as above

Describe the scope of work for the proposed new construction: New Construction of A single Storey CBS Structure Complete with MEP's, Tile Roof, Impact windows and Doors, Stuccofinish, Paver Driveway

Name of Architect of Record: Scott Disher Structural Engineer of Record: Shawn M. Stambaugh

Who will supervise the trade work to meet the applicable code? Tod Batson

What provisions have you made for Liability and Property Damage Insurance? Builders Risk Policy

What provisions exist for withholding Social Security and Federal Income Taxes, as required by Federal Law, from wages paid to people you hire who are not licensed? No unlicensed Contractors will be utilized on This Project

What previous Owner/Builder improvements have you done in the State of Florida?

Location: Dade, Broward, Palm Beach Counties Scope of Work Done: New Home Const. Year: 20+ years

Location: _____ Scope of Work Done: _____ Year: _____

What code books do you have available for reference? Building: Florida Bldg Code

Electric: _____ Plumbing: _____ HVAC: _____

Other: _____

I have internet access and will view The Florida Building code at www.floridabuilding.org YES ✓ NO ___

Do you understand that as the permit holder you are liable for following all Local, County, State and Federal codes, laws and requirements, and you are also liable for anyone injured on the construction site? Yes (yes/no)

Have you consulted with your Homeowner's Insurance Agent? _____ Lender? N/A Attorney? _____

In order to assure your success in this project, please signify your awareness that the function of the building department is to issue you a building permit and verify code compliance through plan review and the inspection process. I am aware that town staff is not obligated to offer supervision, design or instructional advice prior or during my project. B (initials).

TOWN OF SEWALL'S POINT BUILDING DEPARTMENT
One S. Sewall's Point Road
Sewall's Point, Florida 34996
Tel 772-287-2455 Fax 772-220-4765

OWNER/BUILDER DISCLOSURE STATEMENT

NOTICE: STATE LAW REQUIRES THAT ALL PERMITTING AGENCIES PROVIDE INDIVIDUALS SUBMITTING APPLICATIONS FOR OWNER/BUILDER PERMITS THE FOLLOWING INFORMATION:

1. THE TOWN OF SEWALL'S POINT CODE OF LAWS AND ORDINANCES REQUIRES THAT ANY PERSON DESIRING TO ENGAGE IN BUSINESS AS A CONTRACTOR IN THE TOWN OF SEWALL'S POINT BE A HOLDER OF A CERTIFICATE OF COMPETENCY.

2. FLORIDA STATUTES 489.103 (7) ALLOWS YOU, AS A PROPERTY OWNER, AN EXEMPTION TO CONSTRUCT OR IMPROVE A SINGLE FAMILY DWELLING AND ACCESSORY-USE STRUCTURES ON SAID PROPERTY FOR YOUR OWN USE OR OCCUPANCY WITHOUT HAVING A CERTIFICATE OF COMPETENCY.

3. AS AN OWNER/BUILDER, YOU MUST PHYSICALLY PERFORM OR MATERIALLY SUPERVISE ALL CONSTRUCTION/IMPROVEMENTS SPECIFIED ON YOUR OWNER/BUILDER PERMIT AND YOU ARE TOTALLY RESPONSIBLE FOR ALL ACTIVITIES ASSOCIATED THEREWITH. OWNER/BUILDERS WHO WISH TO DO ELECTRICAL OR PLUMBING WORK MUST PASS A SHORT OPEN BOOK QUIZ ADMINISTERED BY THE BUILDING DEPARTMENT.

4. IF YOU DO NOT PHYSICALLY PERFORM A SPECIFIC PHASE OF SAID CONSTRUCTION/IMPROVEMENT, BUT CHOOSE TO SUB-CONTRACT IT, THEN SUCH CONSTRUCTION/IMPROVEMENT MUST BE SUB-CONTRACTED TO A LOCALLY LICENSED OR STATE CERTIFIED CONTRACTOR.

5. YOU MAY NOT HIRE AN UNLICENSED INDIVIDUAL WHO IN ANY MANNER ACTS IN THE CAPACITY OF A GENERAL CONTRACTOR, THAT IS, ONE WHO FULFILLS YOUR DUTIES UNDER PARAGRAPH (3) ABOVE.

6. UNDER AN OWNER/BUILDER PERMIT YOU MAY NOT CONSTRUCT A BUILDING WHICH YOU INTEND TO SELL OR LEASE. THE SALE OR LEASE, OR OFFERING FOR SALE OR LEASE, OF ANY SUCH STRUCTURE BY THE OWNER-BUILDER WITHIN 1 YEAR AFTER COMPLETION OF SAME CREATES A PRESUMPTION THAT THE CONSTRUCTION WAS UNDERTAKEN FOR PURPOSES OF SALE OR LEASE WHICH IS A VIOLATION OF THIS EXEMPTION.

7. THIS EXEMPTION SHALL NOT APPLY TO ANY PERSON WHO HAS LEASED, SOLD, OR OFFERED FOR SALE MORE THAN 1 STRUCTURE BUILT UNDER AN OWNER-BUILDER PERMIT IN ANY JURISDICTION WITHIN THE 5 YEARS IMMEDIATELY PRECEDING THE APPLICATION FOR A PERMIT.

8. THERE MUST BE A THIRTY-SIX (36) MONTH PERIOD BETWEEN THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR THE INITIAL DWELLING AND THE SUBMITTAL OF AN OWNER/BUILDER APPLICATION FOR A SUBSEQUENT DWELLING. NO OTHER BUILDING PERMIT FOR A HOME SHALL BE ISSUED TO THAT OWNER/BUILDER, THE OWNER/BUILDER'S SPOUSE OR ANY MEMBER OF THE OWNER/BUILDER'S IMMEDIATE FAMILY UNDER EIGHTEEN YEARS OF AGE UNTIL THREE YEARS AFTER THE HOME BUILT UNDER THE FIRST BUILDING PERMIT HAS RECEIVED A CERTIFICATE OF OCCUPANCY.

9. ALL CONSTRUCTION IMPROVEMENTS PERFORMED UNDER YOUR OWNER/BUILDER PERMIT MUST BE IN STRICT COMPLIANCE WITH FLORIDA STATE STATUTE SECTION 489, SEWALL'S POINTS CODE OF LAWS AND ORDINANCES, ALL BUILDING & ZONING CODES AND REGULATIONS PERTAINING TO SINGLE FAMILY DWELLINGS, ACCESSORY USE STRUCTURES AS APPLICABLE.

10. YOUR OWNER/BUILDER EXEMPTION DOES NOT WAIVE ANY PERMIT CONDITIONS OR REQUIREMENTS OR WAIVE ANY PORTION OR PORTIONS OF ANY APPLICABLE BUILDING OR SWIMMING POOL CODES OR TOWN ORDINANCES.

11. ALL CONSTRUCTION/IMPROVEMENTS PERFORMED UNDER YOUR OWNER/BUILDING PERMIT MUST ALSO BE IN STRICT COMPLIANCE WITH ALL APPLICABLE ZONING REGULATIONS (QUESTIONS REGARDING ZONING REGULATIONS SHOULD BE DIRECTED TO THE TOWN OF SEWALL'S POINT AT 772-287-2455.)

TOWN OF SEWALL'S POINT BUILDING DEPARTMENT
One S. Sewall's Point Road
Sewall's Point, Florida 34996
Tel 772-287-2455 Fax 772-220-4765

12. YOU MUST BE FAMILIAR WITH AND CALL FOR THE REQUIRED INSPECTIONS OF ALL CONSTRUCTION/IMPROVEMENTS PERFORMED UNDER YOUR OWNER/BUILDER PERMIT.

13. AS AN OWNER/BUILDER YOU MUST VERIFY THAT ALL INDIVIDUALS OR FIRMS ENGAGED IN CONSTRUCTION/IMPROVEMENTS ACTIVITIES UNDER YOUR OWNER/BUILDER PERMIT ARE PROPERLY LICENSED AS REQUIRED BY STATE LAW OR LOCAL ORDINANCE.

14. AS AN OWNER/BUILDER, YOU ARE LIABLE TO AND RESPONSIBLE FOR THOSE PEOPLE HIRED TO ASSIST YOU. SUCH LIABILITY AND RESPONSIBILITY MAY INCLUDE, BUT IS NOT LIMITED TO, COMPLIANCE WITH APPLICABLE LAWS RELATING TO LIENS, WORKERS' COMPENSATION, SOCIAL SECURITY, UNEMPLOYMENT, FEDERAL WITHHOLDING TAX, AND PUBLIC LIABILITY.

15. I, AS AN OWNER/BUILDER, IN CONSIDERATION OF A BUILDING PERMIT ISSUED BY SEWALL'S POINT, FLORIDA, AGREE TO INDEMNIFY AND HOLD HARMLESS SAID SEWALL'S POINT, FLORIDA, ITS OFFICERS AND AGENTS FROM ANY AND ALL CLAIMS, DAMAGES, OR EXPENSES THAT SEWALL'S POINT MAY BE LIABLE FOR WHICH ARISE FROM THE CONSTRUCTION/IMPROVEMENTS ACCOMPLISHED IN CONNECTION WITH SAID BUILDING PERMIT.

I HEREBY ACKNOWLEDGE THAT I HAVE THOROUGHLY READ AND COMPLETELY UNDERSTAND THE PRECEDING PAGE OF THE OWNER/BUILDER DISCLOSURE STATEMENT.

ON THIS 12 DAY OF Jan, 2015.

PROPERTY ADDRESS 3 Palmetto Drive

CITY Sewall's Point STATE FL ZIP 34996

SIGNATURE OF OWNER/BUILDER

SWORN TO AND SUBSCRIBED BEFORE ME THIS 12 DAY OF January 20 15

BY Tod Batson

PERSONALLY KNOWN _____

OR PRODUCED ID FL DL

TYPE OF ID _____

NOTARY SIGNATURE

SHARI CANADA
NOTARY PUBLIC
STATE OF FLORIDA
Comm# EE179386
Expires 3/14/2016

TSP 04/27/2007

TOWN OF SEWALL'S POINT BUILDING DEPARTMENT
One S. Sewall's Point Road
Sewall's Point, Florida 34996
Tel 772-287-2455 Fax 772-220-4765

PRODUCT APPROVAL CHECKLIST

Permit Type: RESIDENTIAL **Permit Number:** _____ **Date** 01/07/15

Owner's Name: BATSON **Job Site Location:** 3 PALMETTO DRIVE

Design Professional Name A/E: SCOTT DISHER

Rule 9 B-72 requires the following information as promulgated by the Florida Building Commission. In the event that information required for product approval has been incorporated in to the plans, specifications or general notes; simply indicate page number on the affidavit.

Product	Model Number	Manufacturer	Evaluation Agency	Expiration Date
Windows	SH 500	PGT INDUSTRIES	FENESTRATION TESTING LAB	JAN 08 2019
Exit Doors	PENDING	PENDING	PENDING	PENDING
Garage Doors	16'x0"	CLOPAY	INTERTEK TESING	JULY 07 2015
Ridge Vents	N/A	EAST COAST METALS	EXT. RESEARCH & DESIGN LLC	N/A
Soffits	N/A	N/A	N/A	N/A
Skylights	N/A	N/A	N/A	N/A
Shutters	N/A	N/A	N/A	N/A
Roofing Materials	"S" OR FLAT	ENTEGRA ROOF TILE, INC.	EXT. RESEARCH & DESIGN LLC	N/A
Panel Walls	N/A	N/A	N/A	N/A
Structural Components and Cladding	STUCCO	STUCCO	STUCCO	N/A
New/Alternative Materials	N/A	N/A	N/A	N/A

In accordance with the Florida Architects and Engineers product approval system, this affidavit certifies that I have performed the building envelope evaluation as required by the Florida Building Code.

1/6/15

Architect/Engineer Signature & Seal

FL Certification/Registration Number

TOWN OF SEWALL'S POINT BUILDING DEPARTMENT
One S. Sewall's Point Road
Sewall's Point, Florida 34996
Tel 772-287-2455 Fax 772-2204765

SUBCONTRACTORS LIST
RESIDENTIAL, ADDITIONS, COMMERCIAL

APPLICANT'S NAME Tod + Robyn Batson BLDG. PERMIT #_____

MAILING ADDRESS 153 Ocean Bay Drive Jensen Beach, Fl. 34957

PLEASE PROVIDE A PRELIMINARY SUBCONTRACTORS LIST FOR VERIFICATION. THIS LIST WILL BE RETURNED TO YOU WHEN THE BUILDING PERMIT IS ISSUED TO ENABLE YOU TO COMPLETE AND RETURN TO THE BUILDING DEPARTMENT. **WE REQUIRE, PRIOR TO STARTING WORK, UPDATES, CHANGES AND ADDITIONS THROUGHOUT CONSTRUCTION.** USING UNLICENSED CONTRACTORS OR SUBCONTRACTORS MAY PREVENT YOU FROM BEING ELIGIBLE FOR INSPECTIONS AND OR A CERTIFICATE OF OCCUPANCY. FOR INFORMATION CONTACT THE CONTRACTOR'S LICENSING OFFICE AT (772) 288-5482 OR (772) 288-5917. PLEASE INCLUDE ALL MUNICIPAL COMPETENCY CARD NUMBERS OR STATE CERTIFICATION NUMBERS. ***(NOT OCCUPATIONAL LICENSE NUMBERS)***

	TYPE	COMPANY NAME	LICENSE NUMBER
CFO CFI	CONCRETE - FORM - FINISH	SEA GATE Builders Inc	CGC 047306
BM	BLOCK MASON	SAME AS Above	
CB	COLUMS & BEAMS	Same As Above	
CA	CARPENTRY ROUGH	Same As Above	
GD	GARAGE DOOR	D+D Garage Doors	CBC-1258205
DH DF	DRYWALL - HANG - FINISH		
IN	INSULATION		
LA	LATHING		
FI	FIREPLACE	N/A	
PAV	PAVERS		
AL	ALUMINUM		
LP	LP GAS	Martin County Propane	CGF 19118
PAV	PAINTING		
PL	PLASTER & STUCCO	R+S Plastering	CRC 032277
ST	STAIRS & RAILS	N/A	
RO	ROOFING	OnShore Roofing	CCC1328994
TM	TILE & MARBLE	Biasi Tile + Marble	MCTM 5169
WD	WINDOWS & DOORS	Monogram Windows + Doors	FLGC 1519706
PLU	* PLUMBING	Aqua Dimensions Plumbing	CFC 057526
AC	* HARV	D+S Air Conditioning Inc	CAC 058715
EL	* ELECTRICAL	Comet Elec.	EC 13002784

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AL	* LOW VOLTAGE BURGLAR ALARM	Comet Electric	EC 13002784
VS	VACUUM SOUND		
IR	* IRRIGATION		
SH	SHUTTERS	N/A	

* REQUIRES SEPARATE VERIFICATION FORMS.

I CERTIFY THAT THE INFORMATION STATED ON THE SUBCONTRACTORS' LIST IS ACCURATE AND THAT ALL WORK WILL BE PERFORMED BY MUNICIPAL OR STATE LICENSED CONTRACTORS. I UNDERSTAND THAT A COMPLETE NOTARIZED SUBCONTRACTORS LIST IS REQUIRED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

SIGNATURE OF CONTRACTOR
(OR OWNER BUILDER IF APPLICABLE)

STATE OF _____ **COUNTY OF** _____

SWORN TO AND SUBSCRIBED before me this _____ **day of** _____, **20** _____

_____
NOTARY PUBLIC

MY COMMISSION EXPIRES: _____

TOWN OF SEWALL'S POINT BUILDING DEPARTMENT
One S. Sewall's Point Road
Sewall's Point, Florida 34996
Tel 772-287-2455 Fax 772-220-4765

VERIFICATION OF CONTRACTOR

BUILDING PERMIT NUMBER: 11146

***IF NOT PERFORMED IN CONJUNCTION WITH A MAIN BUILDING PERMIT NUMBER, THEN THE VERIFICATION OF PARCEL CONTROL NUMBER BELOW MUST BE COMPLETED.

OWNERS NAME: Tod Batson

CONSTRUCTION ADDRESS: 3 Palmetto Drive

PERMIT TYPE: ☑ RESIDENTIAL ☐ COMMERCIAL

☑ ELECTRIC
☐ PLUMBING
☐ HVAC
☐ IRRIGATION
☐ FUEL GAS

TYPE OF SERVICE: ☑ NEW SERVICE ☐ EXISTING SERVICE ☐ OTHER

SCOPE OF WORK: HV Electrics per plan

VALUE OF CONSTRUCTION $ 15,733

☑ LOW VOLTAGE

TYPE OF EQUIPMENT: ☑ SECURITY ☐ VACUUM ☐ SOUND SYSTEM ☐ LANDSCAPE ☐ OTHER

SCOPE OF WORK: Security and Structured Wiring VALUE 2100

IN CONSIDERATION TO THE GRANTING OF THE ABOVE REQUESTED PERMIT, I DO HEREBY AGREE THAT I WILL, IN ALL RESPECTS, PERFORM THE WORK IN ACCORDANCE WITH THE APPROVED PLANS AND ALL APPLICABLE CODES.

M. Wolf — 197 65th Terrace N West Palm Beach, FL 33413

SIGNATURE OF LICENSED CONTRACTOR — ADDRESS OF CONTRACTOR

COMPANY OR QUALIFIER'S NAME: Comet Electric & Equipment, LLC

PLEASE PRINT

TELEPHONE NO: 561-689-4400 FAX NO:

MUNICIPALITY OR STATE OF FLORIDA CONTRACTOR'S LICENSE NUMBER: EC13002784

** WORK CAN NOT BEGIN UNTIL THIS VERIFICATION IS COMPLETED AND SUBMITTED TO THE BUILDING DEPARTMENT. A PENALTY FEE WILL BE ASSESSED IF WORK IS STARTED PRIOR TO OBTAINING THIS PERMIT.

****

VERIFICATION OF PARCEL CONTROL NUMBER

OWNER'S FULL NAME AS STATED ON DEED:

PARCEL CONTROL #:

SUBDIVISION: LOT: BLK: PHASE:

SITE ADDRESS:

SEND OR FAX TO: TOWN OF SEWALL'S POINT BUILDING DEPARTMENT

COMEELE-01 VSCHIAVO

ACORD

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 1/30/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Lori B. Gleason
Collinsworth, Alter, Lambert, LLC 23 Eganfuskee Street Suite 102 Jupiter, FL 33477	PHONE (A/C, No, Ext): (561) 776-9001 FAX (A/C, No): (561) 427-6730 E-MAIL ADDRESS: lgleason@callllc.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Amerisure Insurance Co	19488
INSURER B : Amerisure Partners Insurance Company	11050
INSURER C : Amerisure Mutual Ins Co	23396
INSURER D :	
INSURER E :	
INSURER F :	

INSURED

Comet Electric and Equipment, LLC
197 65th Terrace North
West Palm Beach, FL 33413

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR X XCU & Contractual X Broad Form Prop. Dam GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT LOC OTHER:			GL209953150001	01/01/2015	01/01/2016	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 100,000 $ 5,000 $ 1,000,000 $ 2,000,000 $ 2,000,000
B	AUTOMOBILE LIABILITY X ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS X HIRED AUTOS X NON-OWNED AUTOS			CA20809610305	01/01/2015	01/01/2016	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) PIP Coverage	$ 1,000,000 $ $ $ $ 10,000
C	UMBRELLA LIAB X OCCUR X EXCESS LIAB CLAIMS-MADE DED X RETENTION $ 0			CU20942940102	01/01/2015	01/01/2016	EACH OCCURRENCE AGGREGATE	$ 2,000,000 $ 2,000,000
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N N/A If yes, describe under DESCRIPTION OF OPERATIONS below			WC208096303	01/01/2015	01/01/2016	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 1,000,000 $ 1,000,000 $ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Certificate holder is named as additional insured including products and completed operations for general liability per CG7048, auto liability, and excess liability coverages when required by written contract. General Liability and Auto Liability are primary and non contributory for the additional insureds when required by written contract. Waiver of subrogation applies to general liability, auto liability, excess liability, and workers' compensation for the additional insureds when required by written contract. Excess Liability extends over the general liability policy. Should any of the above described policies be cancelled, notice will be delivered in accordance with the policy provisions.

CERTIFICATE HOLDER

Sewall's Point Town Hall
One South Sewall's Point Road
Sewalls Point, FL 34996

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

ELECTRICAL CONTRACTORS LICENSING BOARD (850) 487-1395
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783

LURTZ, MARK K
COMET ELECTRIC AND EQUIPMENT L L C
197 65TH TERRACE NORTH
WEST PALM BCH FL 33413

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbeque restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto **www.myfloridalicense.com**. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
EC13002784 ISSUED 08/27/2014
CERTIFIED ELECTRICAL CONTRACTOR
LURTZ, MARK K
COMET ELECTRIC AND EQUIPMENT L L C
IS CERTIFIED under the provisions of Ch 489 FS
Expiration date AUG 31, 2016
L1408270004286

DETACH HERE

RICK SCOTT, GOVERNOR KEN LAWSON, SECRETARY

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
ELECTRICAL CONTRACTORS LICENSING BOARD

LICENSE NUMBER	
EC13002784	ADDITIONAL BUSINESS QUALIFICATION

The ELECTRICAL CONTRACTOR
Named below IS CERTIFIED
Under the provisions of Chapter 489 FS
Expiration date: AUG 31, 2016

LURTZ, MARK K
COMET ELECTRIC AND EQUIPMENT L L C
197 65 TERRACE NORTH
WEST PALM BEACH FL 33413

ISSUED: 08/27/2014 DISPLAY AS REQUIRED BY LAW SEQ # L1408270004286

ANNE M. GANNON
CONSTITUTIONAL TAX COLLECTOR
Serving Palm Beach County
Serving *you.*

P.O. Box 3353, West Palm Beach, FL 33402-3353
www.pbctax.com Tel: (561) 355-2264

LOCATED AT:
197 65TH TERRACE NORTH
WEST PALM BEACH, FL 33413

TYPE OF BUSINESS	OWNER	CERTIFICATION #	RECEIPT #/DATE PAID	AMT PAID	BILL #
23-0169 ELECTRICAL CONTRACTOR	LURTZ MARK	EC13002784	U14.753651 - 09/22/14	$99.00	B40123333

This document is valid only when receipted by the Tax Collector's Office.

COMET ELECTRIC AND EQUIPMENT LLC
COMET ELECTRIC AND EQUIPMENT LLC
197 65TH TER N
WEST PALM BEACH, FL 33413-1715

STATE OF FLORIDA
PALM BEACH COUNTY
2014/2015 LOCAL BUSINESS TAX RECEIPT

LBTR Number: 200519357
EXPIRES: SEPTEMBER 30, 2015

This receipt grants the privilege of engaging in or managing any business profession or occupation within its jurisdiction and MUST be conspicuously displayed at the place of business and in such a manner as to be open to the view of the public.

TOWN OF SEWALL'S POINT BUILDING DEPARTMENT
One S. Sewall's Point Road
Sewall's Point, Florida 34996
Tel 772-287-2455 Fax 772-220-4765

VERIFICATION OF CONTRACTOR

BUILDING PERMIT NUMBER: 11146

***IF NOT PERFORMED IN CONJUNCTION WITH A MAIN BUILDING PERMIT NUMBER, THEN THE VERIFICATION OF PARCEL CONTROL NUMBER BELOW MUST BE COMPLETED.

OWNERS NAME: Tod Batson

CONSTRUCTION ADDRESS: 3 Palmetto Dr., Stuart, FL 34996

PERMIT TYPE: ☑ RESIDENTIAL ☐ COMMERCIAL

☐ ELECTRIC
☐ PLUMBING
☐ HVAC
☐ IRRIGATION
☐ FUEL GAS

TYPE OF SERVICE: ☑ NEW SERVICE ☐ EXISTING SERVICE ☐ OTHER

SCOPE OF WORK: New Cement Tile Roof System

VALUE OF CONSTRUCTION $ 29,985.00

☐ LOW VOLTAGE

TYPE OF EQUIPMENT: ☐ SECURITY ☐ VACUUM ☐ SOUND SYSTEM ☐ LANDSCAPE ☐ OTHER

SCOPE OF WORK: _____ VALUE _____

IN CONSIDERATION TO THE GRANTING OF THE ABOVE REQUESTED PERMIT, I DO HEREBY AGREE THAT I WILL, IN ALL RESPECTS, PERFORM THE WORK IN ACCORDANCE WITH THE APPROVED PLANS AND ALL APPLICABLE CODES.

_____ 4401 SE Commerce Ave., Stuart, FL 34997
SIGNATURE OF LICENSED CONTRACTOR ADDRESS OF CONTRACTOR

COMPANY OR QUALIFIER'S NAME: Joseph Kolinoski

PLEASE PRINT

TELEPHONE NO: 772-283-1505 FAX NO: 772-283-1557

MUNICIPALITY OR STATE OF FLORIDA CONTRACTOR'S LICENSE NUMBER: CCC 1328994

** WORK CAN NOT BEGIN UNTIL THIS VERIFICATION IS COMPLETED AND SUBMITTED TO THE BUILDING DEPARTMENT. A PENALTY FEE WILL BE ASSESSED IF WORK IS STARTED PRIOR TO OBTAINING THIS PERMIT.

****

VERIFICATION OF PARCEL CONTROL NUMBER

OWNER'S FULL NAME AS STATED ON DEED: Batson Tod & Robyn

PARCEL CONTROL #: 01-38-41-010-000-00160-6

SUBDIVISION: Sewall's Point LOT: _____ BLK: _____ PHASE: _____

SITE ADDRESS: 3 Palmetto Drive

SEND OR FAX TO: TOWN OF SEWALL'S POINT BUILDING DEPARTMENT

5954 NW Enterprise Drive • Port St. Lucie, Florida 34986 (772) 924-3575 • (772) 924-3580 (fax)

RECEIVED
MAR - 2 2015
Sewall's Point Town Hall

FWP

IN PLACE DENSITY AND WATER CONTENT OF SOIL AND SOIL AGGREGATE BY NUCLEAR METHODS (SHALLOW DEPTH) - ASTM 6938

Permit # 11146

Project: 3 Palmetto Drive — Project ID: 14-3040.00
Address: 3 Palmetto Drive, Sewall's Point, FL — Report ID: D-0003
Client: Todd Batson — Date: 2/16/2015
Permit No: — Field Tech: Ken Thomas — Test Mode: Direct Transmission
Area Tested: Foundation pad
Soil Description: Brown fine sand some silt
Proctor / LBR ID: P-2 Max Density (PCF): 120.1 Opt Moisture (%): 10.6% Test Standard: D 1557
Compaction Required (%): 95.0%

	Location	Probe Depth (in)	Elev	Wet Density (PCF)	Dry Density (PCF)	Moist. (%)	Compaction %	Compaction Results
1	West area	12	0 - 1	120.9	116.2	4.0%	96.8%	Pass
2	West area (*HCP=60+, > 95 % Compaction, PASS)	12	1 - 2					
3	West area (*HCP=60+, > 95 % Compaction, PASS)	12	2 - 3					
4	West area (*HCP=60+, > 95 % Compaction, PASS)	12	3 - 4					
5	West area (*HCP=60+, > 95 % Compaction, PASS)	12	4 - 5					
6								
7								
8								
9								
10								
11	*HCP tests are empirically correlated to the relative density of the soil.							
12								

TOWN OF SEWALL'S POINT
BUILDING DEPARTMENT
FILE COPY

Testing Gauge Information: Manufacturer: Troxler Model: 3430 S/N: 22260
Density Standard (DS): 2001 Moisture Standard (MS): 679

Remarks: Testing completed - above stripped surface

Legend for Elevation:

PR = Proofroll	1, 2, 3 = 1st, 2nd, 3rd Lift
SL = Springline	FL = Final Lift
SG = Subgrade	BG = Below Grade
BC = Basecourse	BOF = Bottom of Footing
TOP = Top of Pipe	FG = Finished Grade

Respectfully Submitted:
GFA International, Inc.
FBPE CA # 4930

DONALD W. MOLER * STATE OF FLORIDA * PROFESSIONAL ENGINEER

2/20/2015
Donald W. Moler, P.E.
Professional Engineer # 60675
State of Florida

STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM
CONSTRUCTION PERMIT

PERMIT #: 43-SS-1561564
APPLICATION #: AP1160687
DATE PAID:
FEE PAID:
RECEIPT #:
DOCUMENT #: PR951975

CONSTRUCTION PERMIT FOR: OSTDS New

APPLICANT: Tod Batson

PROPERTY ADDRESS: 3 Palmetto Dr Stuart, FL 34997

LOT: 16 BLOCK: SUBDIVISION: PALMETTO PARK

PROPERTY ID #: 01-38-41-010-000-00160-6 [SECTION, TOWNSHIP, RANGE, PARCEL NUMBER] [OR TAX ID NUMBER]

SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS AND STANDARDS OF SECTION 381.0065, F.S., AND CHAPTER 64E-6, F.A.C. DEPARTMENT APPROVAL OF SYSTEM DOES NOT GUARANTEE SATISFACTORY PERFORMANCE FOR ANY SPECIFIC PERIOD OF TIME. ANY CHANGE IN MATERIAL FACTS, WHICH SERVED AS A BASIS FOR ISSUANCE OF THIS PERMIT, REQUIRE THE APPLICANT TO MODIFY THE PERMIT APPLICATION. SUCH MODIFICATIONS MAY RESULT IN THIS PERMIT BEING MADE NULL AND VOID. ISSUANCE OF THIS PERMIT DOES NOT EXEMPT THE APPLICANT FROM COMPLIANCE WITH OTHER FEDERAL, STATE, OR LOCAL PERMITTING REQUIRED FOR DEVELOPMENT OF THIS PROPERTY.

SYSTEM DESIGN AND SPECIFICATIONS

TANK [1,050] GALLONS / GPD Septic Tank CAPACITY
ANK [ ] GALLONS / GPD N/A CAPACITY
N [ ] GALLONS GREASE INTERCEPTOR CAPACITY [MAXIMUM CAPACITY SINGLE TANK:1250 GALLONS]
K [ ] GALLONS DOSING TANK CAPACITY [ ]GALLONS @[ ]DOSES PER 24 HRS #Pumps [ ]

D [500] SQUARE FEET Installed in trenches SYSTEM
R [ ] SQUARE FEET N/A SYSTEM
A TYPE SYSTEM: [x] STANDARD [ ] FILLED [ ] MOUND [ ]
I CONFIGURATION: [x] TRENCH [ ] BED [ ]
N
F LOCATION OF BENCHMARK: MAG NAIL & DISC., 6.16FT NGVD
I ELEVATION OF PROPOSED SYSTEM SITE [5.00] [INCHES/FT] [ABOVE/BELOW] BENCHMARK/REFERENCE POINT
E BOTTOM OF DRAINFIELD TO BE [7.00] [INCHES/FT] [ABOVE/BELOW] BENCHMARK/REFERENCE POINT
L
D FILL REQUIRED: [6.00] INCHES EXCAVATION REQUIRED: [ ] INCHES

OTHER

NOTE; The contractor has an option of installing a 667 sqft or larger d.f. bed.
The system is sized for 4 bedrooms with a maximum occupancy of 8 persons (2 per bedroom), for a total estimated flow of 400 gpd. The licensed contractor installing the system is responsible for installing the minimum category of tank and drainfield in accordance with s. 64E-6, FAC.

See attached general and special conditions lists.

TOWN OF SEWALL'S POINT
BUILDING DEPARTMENT
FILE COPY

SPECIFICATIONS BY: Nicholas L Clifton TITLE: Environmental Specialist II

APPROVED BY: R Cross / RC Ray R Cross TITLE: Environmental Specialist 15 Oct Martin CHD

DATE ISSUED: 10/02/2014 EXPIRATION DATE: 04/02/2016

DH 4016, 08/09 (Obsoletes all previous editions which may not be used)
Incorporated: 64E-6.003, FAC

v 1.1.4 AP1160687 SE939786

COASTAL TESTING LABORATORY, LLC
Post Office Box 2023
Palm City, FL 34991-2023
772.220.6688

11146

3 Palmetto Dr

COMPACTION TEST REPORT

ASTM D 6938-10

DATE:	June 19, 2015
JOB NUMBER:	15-0651
PERMIT NUMBER:	B15-000060
CLIENT:	A & G Pools
CONTRACTOR:	A & G Pools
JOB LEGAL:	N/A
JOB ADDRESS:	3 Palmetto Drive Sewalls Point, FL

SOIL CLASSIFICATION & REMARKS: A4 Fine tan sandy soil

TEST SAMPLE LOCATION: 10' IS LR Corner - Center of Pad - 10' IS RF Corner

	In-Place Dry Density	Maximum Dry Density	%Compaction
1)	102.6	104.8	97.9
2)	103.6	104.8	98.8
3)	103.4	104.8	98.6

Respectfully Submitted,

Ernesto Velasco

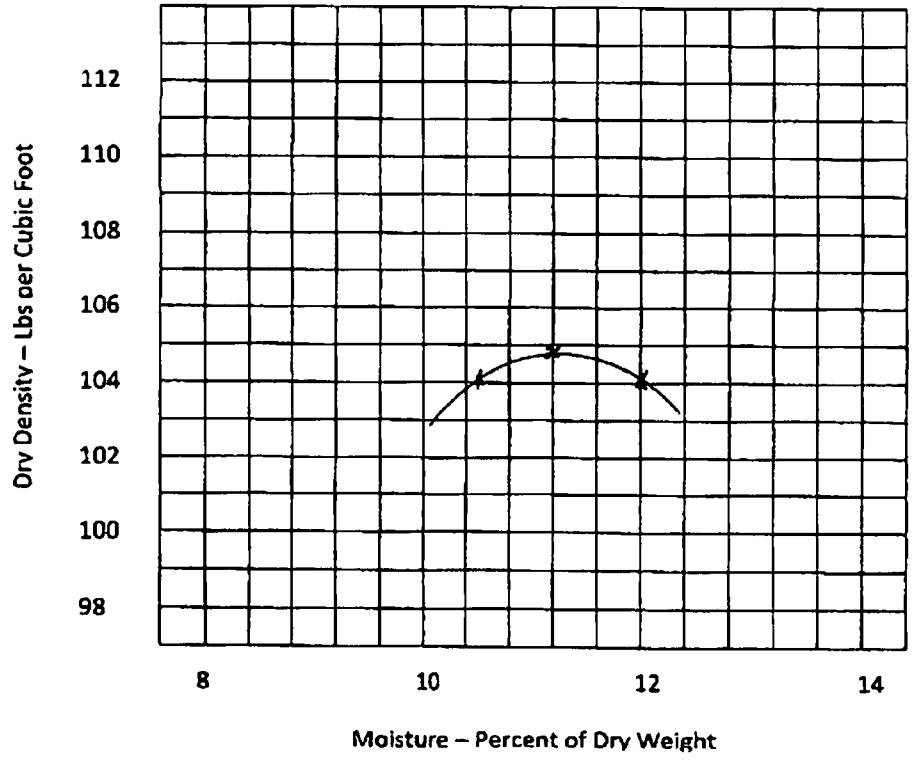
Ernesto Velasco, P.E.

COASTAL TESTING LABORATORY, LLC
Post Office Box 2023
Palm City, FL 34991-2023
772.220.6688

MOISTURE DENSITY RELATIONSHIP

ASTM D 1557-12

DATE: June 19, 2015
CONTRACTOR: A & G Pools
JOB NUMBER: 15-0651
PERMIT NUMBER: B15-000060



COASTAL TESTING LABORATORY
P.O. BOX 2023
PALM CITY, FL 34991-2023
OFFICE 772 220-6688
FAX 772 287-1591

FAX COVER SHEET

SEND TO **CITY OF SEWALLS POINT**	*From*
Attention **BUILDING DEPT.**	*Date*
Office location	*Office location*
Fax number **772 220-4765**	*Phone number*

☐ *Urgent* ☐ *Reply ASAP* ☐ *Please comment* ☐ *Please review* ☐ *For your information*

Total pages, including cover: _____

COMMENTS

772 - 286 7669 FAX

287 2455 OFC.

SEPTIC SYSTEM GENERAL CONDITIONS LIST

PERMIT 43-SS- 1561564

- If the minimum finished floor foundation elevation (F.F.F.E.) is below the drainfield filled elevation of — inches (above original grade ✓), please contact this office to determine possible setback changes from the drainfield (setback is calculated by adding 4:1 slope, 4-foot shoulder and possible berm). Additionally, if the driveway or sidewalk is proposed to be lower than the drainfield filled elevation, please contact the department to determine possible setback changes. **Note: Local building authority determines minimum F.F.F.E. and stub out requirements. Health Department recommendations are used for drainfield fill and setback requirements only.**
- For single-family homes, if the roof drip line is within 5 feet of the drainfield, shoulder or slope and the roof drains toward the septic system, gutters are required.
- Septic system must be installed in unobstructed area as shown on the approved site plan. Alteration of the information or conditions of this permit found to be in non-compliance will be sufficient cause for revocation of this permit. If any information on a permit changes, an amended application and $50 review fee must be submitted to our office immediately.
- Future ponds or surface water created onsite must be greater than 75' from septic system.
- The mound area must be sodded prior to a request for final grade inspection.
- Non-potable irrigation lines must be separated from the drainfield by two feet unless an approved backflow prevention device is properly installed.
- A $75.00 re-inspection fee is required if violations are found during the septic system inspection.
- If an inspector does not witness the work conducted during a septic abandonment, the contractor must submit a statement that the work was completed.
- If a professional engineer designs the septic system, the engineer must certify that the installed system complies with the design and installation requirements.
- For commercial operations, occupational approval will not be given until all requirements for an onsite public water system, food operation or institutional establishment are met.

ADDITIONAL CONDITIONS LIST

Special conditions marked "X" are in effect

✓ 1. Driveway and sidewalk elevation must be at least 6" higher than the top of the drainfield elevation. The driveway cannot be constructed within 4 feet of the system's available area.

_____ 2. Prior to final construction approval, the property owner must apply for an operating permit and pay the $_____ Annual Permit Fee (For ___Indust./Manuf. ____ Aerobic System ____ Commercial System ____ Performance-Based).

Excavation requirements: (Note: Excavation refers to removal of natural or existing soils, not pad fill)

_____ 1. Excavate one foot beyond drainfield area to a depth of _____ inches below natural/ existing grade elevation of _____ feet N.G.V.D. / Assumed. In addition to item #1, 33% of unsuitable soils at depths greater than _____ inches below #1 elevat above must be removed to a depth of slightly limited soils.

_____ 2. If the proposed drainfield is to be installed within 10 feet of a building foundation or swimming pool structure, the four-foot drainfield shoulder must be filled with suitable soils prior to building construction.

_____ 3. If a mound or filled drainfield is proposed, see following sketch. An engineer's design is required if a retaining wall is propose within the drainfield slope areas of a mound system. No boulders or trees are allowed within the drainfield or drainfield should area. Applicant is responsible for replacing excavated soils with a good grade of soil suitable for drainfield installation.

RCRVS, PE — 10/2/2014

Completed By — **Date**

See Reverse Side for Mound or Filled Drainfield Requiremen

SEPTIC SYSTEM SPECIAL CONDITIONS FOR PERMIT 43-SS-156 1564

The licensed contractor installing the system is responsible for installing the minimum category of tank in accordance with s. 64E-6.013(3)(f), FAC.

___ CONDUCT SOIL BORINGS DURING INSPECTION TO VERIFY SOIL TYPE AND WATER TABLE FROM OTHERS.

_✓_ FILL REQUIRED NOTED ABOVE MUST BE OF SLIGHTLY LIMITED QUALITY IN THE INSTALLATION AREA WITH A MINIMUM OF 4 FOOT SHOULDER BEYOND THE DRAINFIELD SIDE WALL (ANY UNSUITABLE PAD FILL IN THE SHOULDER AND UNDER THE DRAINFIELD MUST BE REMOVED AND REPLACED WITH SUITABLE SOIL).

___ DRAINFIELD MUST BE A MINIMUM OF TEN FEET FROM BUILDING FOUNDATION.

___ MAINTENANCE SERVICE AGREEMENT REQUIRED.

___ ANNUAL OPERATING PERMIT FROM MARTIN CO. HEALTH DEPARTMENT IS REQUIRED.

___ MAINTAIN A MINIMUM OF ___ FEET FROM SURFACE WATER.

_✓_ THE DRAINFIELD MUST BE AT LEAST 15 FEET FROM ✓ PROPERTY LINES ✓ BUILDING FOUNDATION __ OTHER _____. (**NOTE: For Mounded Drainfields Setback, Use four foot shoulder and 4:1 slope plus 1.5 foot Swale/ Berm Unless Applies to Repairs Using Shoulder Setback Reductions From Table V.)**

_✓_ INSTALL AN APPROVED OUTLET FILTER DEVICE IN THE SEPTIC TANK.

_✓_ A MINIMUM OF 6 INCHES AND MAXIMUM OF 18 INCHES OF MODERATLEY OR SLIGHTLY LIMITED SOIL CAP IS ALLOWED OVER DRAINFIELD.

___ STATE CODE REQUIRES A MINIMUM DRAINFIELD SIZE OF _____ SQUARE FEET.

___ THE DRAINFIELD MUST BE PROPERLY GRADED AND STABLIZED PRIOR TO FINAL APPROVAL.

_✓_ POTABLE WATER LINES WITHIN 10 FEET OF THE SYSTEM MUST BE SLEEVED AND SEALED UNLESS THE WATER LINES THEMSELVES CONSIST OF SCHEDULE 40 PVC OR STRONGER MATERIAL AND NEVER LESS THAN 24 INCHES FROM THE SYSTEM.

✓

___ POTABLE WATER LINES WITHIN 5 FEET OF A DRAINFIELD SHALL NOT BE LOWER THAN THE DRAINFIELD ELVEVATION.

___ POTABLE WATER LINES MUST BE INSTALLED AND EXPOSED AT THE TIME OF THE INITIAL INSTALLATION INSPECTION.

___ REPAIRED MOUND AND FILLED DRAINFIELDS MUST BE PROPERLY GRADED AND SODDED/ STABLIZED WITHIN 14 DAYS OF SYSTEM CONSTRUCTION APPROVAL.

____ RECOMMEND DRAINAGE FEATURE PREVENT RUNOFF INTO FOUNDATIONS.

____ P.E. SYSTEM DESIGN REQUIRED.

____ MAXIMUM DOSE CYCLE = 6 TIMES PER DAY. __ PUMP(S) REQUIRED. DOSE ENTIRE DRAINFIELD EACH CYCLE. PUMP(S) MUST BE CERTIFIED AS SUITABLE FOR DISTRIBUTION OF SEWAGE EFFLUENT.

____ AN OPERATIONAL TEST OF THE PUMPS AND HIGH WATER ALARM (AUDIBLE AND VISUAL) IS REQUIRED PRIOR TO FINAL CONSTRUCTION APPROVAL.

____ EFFLUENT TRANSMISSION LINES MUST BE 5 FEET AWAY FROM POTABLE WATER LINES UNLESS THE TRANSMISSION IS SCHEDULE 40 PVC OR STRONGER AND IT IS AT LEAST 12 INCHES LOWER THAN THE POTABLE WATER LINE.

____ SEPTIC TANK MUST BE PUMPED PRIOR TO INSTALLION OF THE DRAINFIELD.

____ AGGREGATE, SOIL, AND OTHER COMPONENTS OF SPOIL MATERIALS FROM DRAINFIELD REPAIRS CANNOT BE USED IN SYSTEM REPAIR IN ANY MANNER. CONTRACTORS MUST PROPERLY DISPOSE OF SPOILS MATERIAL BEFORE FINAL INSPECTION AND NEVER CREATE A SANITARY NUISANCE WITH STORAGE OF SPOILS (SEE HSES MEMO 06-010).

____ SYSTEM REPAIRS MUST INSTALLATION MUST BE COMPLETED WITHIN 30 DAYS OF SYSTEM PERMITTING OR CONTRACT DATE UNLESS OTHERWISE EXTENDED BY THE APPLICANT.

____ LANDSCAPE FEATURES SUCH AS BOULDERS OR TREES ARE NOT ALLOWED ON FILLED OR MOUNDED DRAINFIELDS OR SHOULDERS.

____ VEGETATION COVER ON DRAINFIELDS OTHER THAN SOD MUST BE APPROVED BY THE STATE HEALTH OFFICE.

____ PUMP SEPTIC TANK (DONE BY CERTIFED COMPANY), CRUSH OR RUPTURE TANK BOTTOM, SUBMIT TANK PUMPOUT RECEIPT, CONTACT DEPARTMENT FOR INSPECTION.

____ ADDITIONAL FEES MAY APPLY. ____ $ 50 2ND INSPECTION FEE.

✓ ALL ATTACHED GENERAL AND SPECIAL CONDITIONS MUST BE COMPLETED PRIOR TO FINAL INSPECTION AND APPROVAL.

____ OTHER:

NAME: R. Cross, RS DATE: 10/2/2014

NOTICE OF RIGHTS

A party whose substantial interest is affected by this order may petition for an administrative hearing pursuant to sections 120.569 and 120.57, Florida Statutes. Such proceedings are governed by Rule 28-106, Florida Administrative Code. A petition for administrative hearing must be in writing and must be received by the Agency Clerk for the Department, within twenty-one (21) days from the receipt of this order. The address of the Agency Clerk is 4052 Bald Cypress Way, BIN # A02, Tallahassee, Florida 32399-1703. The Agency Clerk's facsimile number is 850-410-1448.

Mediation is not available as an alternative remedy.

Your failure to submit a petition for hearing within 21 days from receipt of this order will constitute a waiver of your right to an administrative hearing, and this order shall become a 'final order'.

Should this order become a final order, a party who is adversely affected by it is entitled to judicial review pursuant to Section 120.68, Florida Statutes. Review proceedings are governed by the Florida Rules of Appellate Procedure. Such proceedings may be commenced by filing one copy of a Notice of Appeal with the Agency Clerk of the Department of Health and a second copy, accompanied by the filing fees required by law, with the Court of Appeal in the appropriate District Court. The notice must be filed within 30 days of rendition of the final order.

26740154 3

9-29-14

43-55-1561564

PERMIT #.

STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM
SITE EVALUATION AND SYSTEM SPECIFICATIONS

APPLICANT: Batson AGENT: SJB

LOT: 16 BLOCK: _____ SUBDIVISION: Palmetto Park

PROPERTY ID #: 01-38-41-010-000-00160-6 [Section/Township/Parcel No. or Tax ID Number]

TO BE COMPLETED BY ENGINEER, HEALTH DEPARTMENT EMPLOYEE, OR OTHER QUALIFIED PERSON. ENGINEERS MUST PROVIDE LICENSE NUMBER AND SIGN AND SEAL EACH PAGE OF SUBMITTAL. COMPLETE ALL ITEMS.

PROPERTY SIZE CONFORMS TO SITE PLAN: [X] YES [ ] NO NET USABLE AREA AVAILABLE: .464 ACRES
TOTAL ESTIMATED SEWAGE FLOW: 400 GALLONS PER DAY [RESIDENCES-TABLE 1/OTHER-TABLE2]
AUTHORIZED SEWAGE FLOW: 1160 GALLONS PER DAY [1500 GPD/ACRE OR (2500) GPD/ACRE]
UNOBSTRUCTED AREA AVAILABLE: 1200 SQFT UNOBSTRUCTED AREA REQUIRED: 1000 SQFT

BENCHMARK/REFERENCE POINT LOCATION: Mag Nail & Disk @ 6.16 = 62"
ELEVATION OF PROPOSED SYSTEM SITE IS 5 [INCHES/FT] [ABOVE/BELOW] BENCHMARK/REFERENCE POINT

THE MINIMUM SETBACK WHICH CAN BE MAINTAINED FROM THE PROPOSED SYSTEM TO THE FOLLOWING FEATURES
SURFACE WATER: — FT DITCHES/SWALES: — FT NORMALLY WET? [ ] YES [X] NO
WELLS: PUBLIC: — FT LIMITED USE: — FT PRIVATE: — FT NON-POTABLE: — FT
BUILDING FOUNDATIONS: 5 FT PROPERTY LINES: 5 FT POTABLE WATER LINES: 10 FT

SITE SUBJECT TO FREQUENT FLOODING: [ ] YES [ ] NO 10 YEAR FLOODING? [ ] YES [ ] NO
10 YEAR FLOOD ELEVATION FOR SITE: _____ FT MSL/NGVD SITE ELEVATION: 6.58 FT MSL/NGVD

SOIL PROFILE INFORMATION SITE 1 = 55½ = 6.5" Above BM

MUNSELL #/COLOR	TEXTURE	DEPTH
10YR 7/1 Lt Gray	FS	0 TO 10
7/2 Lt Gray	S 5/6 Redox @ 36	10 TO 36
5/6 Yell Brn	S H2O @ 42	36 TO 48
6/6 Brn Yell	Sand	48 TO 72
		TO
		TO
		TO
		TO
		TO
USDA SOIL SERIES: #41 Jonathan Paola Grenston		

SOIL PROFILE INFORMATION SITE 2 = 57" = 5" Above BM

MUNSELL #/COLOR	TEXTURE	DEPTH
10YR 6/1 Gray	FS	0 TO 10
8/1 White	FS 5/6 Redox @ 36	10 TO 48
5/6 Yell Brn	S	48 TO 72
		TO
	H2O @ 42	TO
		TO
		TO
		TO
		TO
USDA SOIL SERIES: #41 Jonathan		

OBSERVED WATER TABLE: 42 INCHES [ABOVE / BELOW] EXISTING GRADE. TYPE: [PERCHED / APPARENT]
ESTIMATED WET SEASON WATER TABLE ELEVATION: 36 INCHES [ABOVE / BELOW] EXISTING GRADE
HIGH WATER TABLE VEGETATION: [ ] YES [X] NO MOTTLING: [X] YES [ ] NO DEPTH: 36 INCHES

SOIL TEXTURE/LOADING RATE FOR SYSTEM SIZING: FS 0.6/0.8 DEPTH OF EXCAVATION: — INCHES
DRAINFIELD CONFIGURATION: [✓] TRENCH or [✓] BED [ ] OTHER (SPECIFY)
REMARKS/ADDITIONAL CRITERIA: BM = 62", Site 1 = 55½, Site 2 = 57". SHWT estimated @ Site 2 due to common S/6 Redox features in a 8/1 Matrix @ 36" Below grade.

SITE EVALUATED BY: N. Mr Clifton 73-1800 13-040 RAG-CROSS 12S DATE: 9/29/14

RECEIVED
SEP 23 2014
MARTIN COUNTY HEALTH DEPT

43-SS-1521564
PERMIT NO.
DATE PAID: 9-23-14
FEE PAID: 450.00
RECEIPT #: 25-29872
#0160687

STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT

APPLICATION FOR:
[X] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ] _____

APPLICANT: TOD BATSON

AGENT: STEPHEN J. BROWN, INC. TELEPHONE: 772-288-7176

MAILING ADDRESS: 619 S.E. 5TH STREET, STUART, FLA 34994

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

PROPERTY INFORMATION

LOT: 1-6 BLOCK: N/A SUBDIVISION: PALMETTO PARK PLATTED: 6/11/57

PROPERTY ID #: 01-38-41-010-000-00160-6 ZONING: RES I/M OR EQUIVALENT: [Y / (N)

PROPERTY SIZE: 0.464 ACRES WATER SUPPLY: [ ] PRIVATE PUBLIC [ ]<=2000GPD [X]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [Y / (N) DISTANCE TO SEWER: 10000 FT

PROPERTY ADDRESS: 3 PALMETTO DRIVE

DIRECTIONS TO PROPERTY: EAST ON EAST OCEAN BLVD., SOUTH SEWALLS POINT ROAD, WEST PALMETTO DRIVE

BUILDING INFORMATION [X] RESIDENTIAL [ ] COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	SINGLE FAMILY A	3	2575 S/F	400 G.P.D.
2				
3				
4				

[ ] Floor/Equipment Drains [ ] Other (Specify) _____

SIGNATURE: STEPHEN J. BROWN DATE: 9/20/14

Soil Map—Martin County, Florida

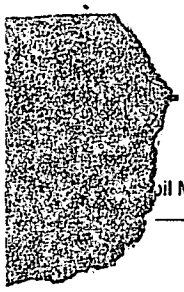
Map Scale: 1:3,700 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 150 300 600 900

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84



Map Unit Legend

Martin County, Florida (FL086)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
6	Paola and St. Lucie sands, 0 to 8 percent slopes	25.6	43.6%
35	Salerno sand	5.2	8.9%
41	Jonathan sand, 0 to 5 percent slopes	22.3	38.0%
99	Water	5.5	9.5%
Totals for Area of Interest		**58.6**	**100.0%**

APPLICANT'S NAME: TOD BATSON

LEGAL DESCRIPTION: LOT 16, PALMETTO PARK

PROPOSED SEPTIC SYSTEM SITE INFORMATION

I certify that there are no potable private wells within 75 feet of the available area for the proposed septic system, that there are no non-potable wells within 50 feet of the available are for the proposed septic system, that there are no wells within 25 feet of a pesticide-treated building foundation, that there are no public wells that serve less than 25 people or less than 1 homes or businesses within 100 feet of the proposed septic system, that there are no public wells that serve more than 25 people or more than 15 homes or businesses within 200 feet of the proposed septic system, that the water line from the water meter or well to the structure is at least 10 feet from the available area for the proposed septic system unless the plans show the line to be double sleeved, that there is not a gravity sewer line, low pressure sewer line or vacuum sewage line in a public easement or right-of-way that abuts the property, that there are no lakes, streams, wetlands, or surface water within 75 feet of the available area for the proposed septic system unless the property was created prior to 1972, that the septic system is proposed on the side of the lot farthest from surface water, that all private wells, septic systems and surface water on adjacent or contiguous land within 75 feet of the applicant's lot are shown on the site plan, that all public wells within 200 feet of the applicant's lot are shown on the site plan, and that the location of building or residences, swimming pools, recorded easements, paved areas or driveways, sidewalks, the general slope of the property, filled areas, drainage features, and surface waters such as lakes, ponds, streams, canals, or wetlands are shown on the applicants lot.

The natural grade elevation in the area of the proposed septic system and the benchmark must be shown on the site plan. Please locate the benchmark within 200 feet of the proposed septic system.

NOTE: MUST BE CERTIFIED BY A FLORIDA REGISTERED SURVEYOR OR ENGINEER

CERTIFIED BY: STEPHEN J. BROWN

FLORIDA PROFESSIONAL NO.: 4049

DATE: 8/20/14 JOB NO.: 3275-956-01

a:\page2.form03

FORM 405-10

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	BATSON RESIDENCE	Builder Name:	
Street:	3 PALMETTO DRIVE	Permit Office:	
City, State, Zip:	SEWALLS POINT , FL ,	Permit Number:	
Owner:		Jurisdiction:	
Design Location:	FL, West Palm Beach		

1. New construction or existing	New (From Plans)	9. Wall Types (2770.0 sqft.)	Insulation	Area
2. Single family or multiple family	Single-family	a. Concrete Block - Ext Insul, Exterior	R=4.1	2570.00 ft²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=11.0	200.00 ft²
4. Number of Bedrooms	4	c. N/A	R=	ft²
5. Is this a worst case?	No	d. N/A	R=	ft²
6. Conditioned floor area above grade (ft²)	3257	10. Ceiling Types (3257.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft²)	0	a. Under Attic (Vented)	R=38.0	3257.00 ft²
7. Windows(606.0 sqft.) Description	Area	b. N/A	R=	ft²
a. U-Factor: Sgl, U=1.07	606.00 ft²	c. N/A	R=	ft²
SHGC: SHGC=0.50		11. Ducts		R ft²
b. U-Factor: N/A	ft²	a. Sup: Attic, Ret: Attic, AH: MAIN		6 250
SHGC:		b. Sup: Attic, Ret: Attic, AH: MAIN		6 150
c. U-Factor: N/A	ft²			
SHGC:		12. Cooling systems	kBtu/hr	Efficiency
d. U-Factor: N/A	ft²	a. Central Unit	59.0	SEER:16.00
SHGC:		b. Central Unit	18.0	SEER:16.00
Area Weighted Average Overhang Depth:	2.000 ft.			
Area Weighted Average SHGC:	0.500	13. Heating systems	kBtu/hr	Efficiency
8. Floor Types (3257.0 sqft.)	Insulation Area	a. Electric Strip Heat	34.0	COP:1.00
a. Slab-On-Grade Edge Insulation	R=0.0 3257.00 ft²	b. Electric Strip Heat	17.0	COP:1.00
b. N/A	R= ft²			
c. N/A	R= ft²	14. Hot water systems		
		a. Electric		Cap: 40 gallons
		b. Conservation features		EF: 0.920
		None		
		15. Credits		Pstat

TOWN OF SEWALL'S POINT
BUILDING DEPARTMENT
FILE COPY

Glass/Floor Area: 0.186

Total Proposed Modified Loads: 64.03

Total Standard Reference Loads: 80.80

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: [signature]

DATE: 12-10-14

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

GREAT SEAL OF THE STATE OF FLORIDA · IN GOD WE TRUST

BUILDING OFFICIAL: [signature]

DATE: 1-19-15

PROJECT

Title:	BATSON RESIDENCE	Bedrooms:	4	Address Type:	Street Address
Building Type:	User	Conditioned Area:	3257	Lot #	
Owner:		Total Stories:	1	Block/SubDivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:		Rotate Angle:	0	Street:	3 PALMETTO DRIVE
Permit Office:		Cross Ventilation:	No	County:	MARTIN
Jurisdiction:		Whole House Fan:	Yes	City, State, Zip:	SEWALLS POINT , FL ,
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

√	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, West Palm Beach	FL_WEST_PALM_BEAC	2	44	90	70	75	316	60	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	2490	24900
2	Block2	767	7670

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	MAIN	2490	24900	Yes	4	3	1	Yes	Yes	Yes
2	MASTER	767	7670	No	2	1	1	Yes	Yes	Yes

FLOORS

√	#	Floor Type	Space	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	MAIN	141 ft	0	2490 ft²	—	0	0	1
_____	2	Slab-On-Grade Edge Insulatio	MASTER	106 ft	0	767 ft²	—	0	0	1

ROOF

√	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Barrel tile	3528 ft²	0 ft²	Medium	0.96	No	0.9	No	0	22.6

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	3257 ft²	N	N

CEILING

√	#	Ceiling Type	Space	R-Value	Area	Framing Frac	Truss Type
	1	Under Attic (Vented)	MAIN	38	2490 ft²	0.11	Wood
	2	Under Attic (Vented)	MASTER	38	767 ft²	0.11	Wood

WALLS

√	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
	1	N	Exterior	Concrete Block - Ext Insul	MAIN	4.1	52		10		520.0 ft²	0	0	0.75	0
	2	E	Exterior	Concrete Block - Ext Insul	MAIN	4.0999	26		10		260.0 ft²	0	0	0.75	0
	3	S	Exterior	Concrete Block - Ext Insul	MAIN	4.0999	38	0	10		380.0 ft²	0	0	0.75	0
	4	W	Exterior	Concrete Block - Ext Insul	MAIN	4.0999	35		10		350.0 ft²	0	0	0.75	0
	5	N	Exterior	Concrete Block - Ext Insu	MASTER	4.0999	31		10		310.0 ft²	0	0	0.75	0
	6	E	Exterior	Concrete Block - Ext Insu	MASTER	4.0999	41		10		410.0 ft²	0	0	0.75	0
	7	S	Exterior	Concrete Block - Ext Insu	MASTER	4.0999	24		10		240.0 ft²	0	0	0.75	0
	8	W	Exterior	Concrete Block - Ext Insu	MASTER	4.0999	10		10		100.0 ft²	0	0	0.75	0
	9	W	Garage	Frame - Wood	MAIN	11	20		10		200.0 ft²	0	0	0.75	0

DOORS

√	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
	1	S	Insulated	MAIN	None	.4	3		8		24 ft²
	2	S	Insulated	MAIN	None	.4	3		8		24 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

√	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
	1	S	3	Metal	Single (Clear)	Yes	1.07	0.5	72.0 ft²	2 ft 0 in	6 ft 0 in	None	None
	2	S	3	Metal	Single (Clear)	Yes	1.07	0.5	30.0 ft²	2 ft 0 in	6 ft 0 in	None	None
	3	S	3	Metal	Single (Clear)	Yes	1.07	0.5	8.0 ft²	2 ft 0 in	6 ft 0 in	None	None
	4	S	3	Metal	Single (Clear)	Yes	1.07	0.5	36.0 ft²	2 ft 0 in	6 ft 0 in	None	None
	5	E	2	Metal	Single (Clear)	Yes	1.07	0.5	12.0 ft²	2 ft 0 in	6 ft 0 in	None	None
	6	E	2	Metal	Single (Clear)	Yes	1.07	0.5	24.0 ft²	2 ft 0 in	6 ft 0 in	None	None
	7	E	2	Metal	Single (Clear)	Yes	1.07	0.5	54.0 ft²	2 ft 0 in	6 ft 0 in	None	None
	8	N	1	Metal	Single (Clear)	Yes	1.07	0.5	20.0 ft²	2 ft 0 in	6 ft 0 in	None	None
	9	N	1	Metal	Single (Clear)	Yes	1.07	0.5	96.0 ft²	2 ft 0 in	6 ft 0 in	None	None
	10	N	1	Metal	Single (Clear)	Yes	1.07	0.5	80.0 ft²	2 ft 0 in	6 ft 0 in	None	None
	11	N	1	Metal	Single (Clear)	Yes	1.07	0.5	12.0 ft²	2 ft 0 in	6 ft 0 in	None	None
	12	W	4	Metal	Single (Clear)	Yes	1.07	0.5	12.0 ft²	2 ft 0 in	6 ft 0 in	None	None
	13	W	4	Metal	Single (Clear)	Yes	1.07	0.5	30.0 ft²	2 ft 0 in	6 ft 0 in	None	None
	14	N	5	Metal	Single (Clear)	Yes	1.07	0.5	48.0 ft²	2 ft 0 in	6 ft 0 in	None	None
	15	N	5	Metal	Single (Clear)	Yes	1.07	0.5	18.0 ft²	2 ft 0 in	6 ft 0 in	None	None
	16	N	5	Metal	Single (Clear)	Yes	1.07	0.5	20.0 ft²	2 ft 0 in	6 ft 0 in	None	None
	17	N	5	Metal	Single (Clear)	Yes	1.07	0.5	6.0 ft²	2 ft 0 in	6 ft 0 in	None	None
	18	E	6	Metal	Single (Clear)	Yes	1.07	0.5	20.0 ft²	2 ft 0 in	6 ft 0 in	None	None
	19	S	7	Metal	Single (Clear)	Yes	1.07	0.5	8.0 ft²	2 ft 0 in	6 ft 0 in	None	None

GARAGE

√	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
____	1	682 ft²	682 ft²	20 ft	10 ft	11

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Best Guess	.0005	4271.6	234.5	441.02	.345	7.869

HEATING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
____	1	Electric Strip Heat	None	COP: 1	34 kBtu/hr	1	sys#1
____	2	Electric Strip Heat	None	COP: 1	17 kBtu/hr	2	sys#2

COOLING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
____	1	Central Unit	None	SEER: 16	59 kBtu/hr	1770 cfm	0.75	1	sys#1
____	2	Central Unit	None	SEER: 16	18 kBtu/hr	540 cfm	0.75	2	sys#2

HOT WATER SYSTEM

√	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
____	1	Electric	None	Garage	0.92	40 gal	70 gal	120 deg	None

SOLAR HOT WATER SYSTEM

√	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
____	None	None			ft²		

DUCTS

√	#	— Supply — Location	R-Value	Area	— Return — Location	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	HVAC # Cool
____	1	Attic	6	250 ft²	Attic	25 ft²	Default Leakage	MAIN	(Default)	(Default)			1	1
____	2	Attic	6	150 ft²	Attic	15 ft²	Default Leakage	MAIN	(Default)	(Default)			2	2

TEMPERATURES

Programable Thermostat: Y Ceiling Fans:

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cooling	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]	[X]	[X]	[ ]	[ ]	[ ]
Heating	[X]	[X]	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]
Venting	[ ]	[ ]	[X]	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]	[ ]

Thermostat Schedule: HERS 2006 Reference

Schedule Type		Hours 1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

FORM 405-10

Florida Code Compliance Checklist

Florida Department of Business and Professional Regulations
Residential Whole Building Performance Method

ADDRESS: 3 PALMETTO DRIVE
SEWALLS POINT, FL,

PERMIT #:

MANDATORY REQUIREMENTS SUMMARY - See individual code sections for full details.

COMPONENT	SECTION	SUMMARY OF REQUIREMENT(S)	CHECK
Air leakage	402.4	To be caulked, gasketed, weatherstripped or otherwise sealed. Recessed lighting IC-rated as meeting ASTM E 283. Windows and doors = 0.30 cfm/sq.ft. Testing or visual inspection required. Fireplaces: gasketed doors & outdoor combustion air. Must complete envelope leakage report or visually verify Table 402.4.2.	
Thermostat & controls	403.1	At least one thermostat shall be provided for each separate heating and cooling system. Where forced-air furnace is primary system, programmable thermostat is required. Heat pumps with supplemental electric heat must prevent supplemental heat when compressor can meet the load.	
Ducts	403.2.2 403.3.3	All ducts, air handlers, filter boxes and building cavities which form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed In accordance with Section 503.2.7.2 of this code. Building framing cavities shall not be used as supply ducts.	
Water heaters	403.4	Heat trap required for vertical pipe risers. Comply with efficiencies in Table 403.4.3.2. Provide switch or clearly marked circuit breaker (electric) or shutoff (gas). Circulating system pipes insulated to = R-2 + accessible manual OFF switch.	
Mechanical ventilation	403.5	Homes designed to operate at positive pressure or with mechanical ventilation systems shall not exceed the minimum ASHRAE 62 level. No make-up air from attics, crawlspaces, garages or outdoors adjacent to pools or spas.	
Swimming Pools & Spas	403.9	Pool pumps and pool pump motors with a total horsepower (HP) of = 1 HP shall have the capability of operating at two or more speeds. Spas and heated pools must have vapor-retardant covers or a liquid cover or other means proven to reduce heat loss except if 70% of heat from site-recovered energy. Off/timer switch required. Gas heaters minimum thermal efficiency=78% (82% after 4/16/13). Heat pump pool heaters minimum COP= 4.0.	
Cooling/heating equipment	403.6	Sizing calculation performed & attached. Minimum efficiencies per Tables 503.2.3. Equipment efficiency verification required. Special occasion cooling or heating capacity requires separate system or variable capacity system. Electric heat >10kW must be divided into two or more stages.	
Ceilings/knee walls	405.2.1	R-19 space permitting.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 79

The lower the EnergyPerformance Index, the more efficient the home.

3 PALMETTO DRIVE, SEWALLS POINT, FL,

1. New construction or existing		New (From Plans)	
2. Single family or multiple family		Single-family	
3. Number of units, if multiple family		1	
4. Number of Bedrooms		4	
5. Is this a worst case?		No	
6. Conditioned floor area (ft²)		3257	
7. Windows**	Description		Area
a. U-Factor:	Sgl, U=1.07		606.00 ft²
SHGC:	SHGC=0.50		
b. U-Factor:	N/A		ft²
SHGC:			
c. U-Factor:	N/A		ft²
SHGC:			
d. U-Factor:	N/A		ft²
SHGC:			
Area Weighted Average Overhang Depth:			2.000 ft.
Area Weighted Average SHGC:			0.500
8. Floor Types		Insulation	Area
a. Slab-On-Grade Edge Insulation		R=0.0	3257.00 ft²
b. N/A		R=	ft²
c. N/A		R=	ft²

9. Wall Types	Insulation	Area
a. Concrete Block - Ext Insul, Exterior	R=4.1	2570.00 ft²
b. Frame - Wood, Adjacent	R=11.0	200.00 ft²
c. N/A	R=	ft²
d. N/A	R=	ft²
10. Ceiling Types	Insulation	Area
a. Under Attic (Vented)	R=38.0	3257.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²
11. Ducts		R ft²
a. Sup: Attic, Ret: Attic, AH: MAIN		6 250
b. Sup: Attic, Ret: Attic, AH: MAIN		6 150
12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	59.0	SEER:16.00
b. Central Unit	18.0	SEER:16.00
13. Heating systems	kBtu/hr	Efficiency
a. Electric Strip Heat	34.0	COP:1.00
b. Electric Strip Heat	17.0	COP:1.00
14. Hot water systems		
a. Electric		Cap: 40 gallons
		EF: 0.92
b. Conservation features		
None		
15. Credits		Pstat

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____

*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida EnergyGauge Rating. Contact the EnergyGauge Hotline at (321) 638-1492 or see the EnergyGauge web site at energygauge.com for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section 303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

TOWN OF SEWALL'S POINT
VERIFICATION OF CONTRACTOR

BUILDING PERMIT NUMBER: [redacted]

***IF NOT PERFORMED IN CONJUNCTION WITH A MAIN BUILDING PERMIT NUMBER, THEN THE VERIFICATION OF PARCEL CONTROL NUMBER BELOW MUST BE COMPLETED.

OWNERS NAME: Tod & Robyn Batson

CONSTRUCTION ADDRESS: 3 Palmetto Drive

PERMIT TYPE: X RESIDENTIAL ____ COMMERCIAL

____ ELECTRIC
X PLUMBING
____ HVAC
____ IRRIGATION
____ FUEL GAS

TYPE OF SERVICE: X NEW SERVICE ____ EXISTING SERVICE ____ OTHER

SCOPE OF WORK: Rough-Top-Out-Final

VALUE OF CONSTRUCTION $: _____

____ LOW VOLTAGE

TYPE OF EQUIPMENT: ____ SECURITY ____ VACUUM ____ SOUND SYSTEM ____ LANDSCAPE ____ OTHER

SCOPE OF WORK: _____ VALUE _____

IN CONSIDERATION TO THE GRANTING OF THE ABOVE REQUESTED PERMIT, I DO HEREBY AGREE THAT I WILL, IN ALL RESPECTS, PERFORM THE WORK IN ACCORDANCE WITH THE APPROVED PLANS AND ALL APPLICABLE CODES.

SIGNATURE OF LICENSED CONTRACTOR _____ ADDRESS OF CONTRACTOR _____

COMPANY OR QUALIFIER'S NAME: Robert Ludlum
PLEASE PRINT

TELEPHONE NO: 772 344 8433 FAX NO: 772-3437418

MARTIN COUNTY OR STATE OF FLORIDA CONTRACTOR'S LICENSE NUMBER: _____

** WORK CAN NOT BEGIN UNTIL THIS VERIFICATION IS COMPLETED AND SUBMITTED TO THE BUILDING DEPARTMENT. A PENALTY FEE WILL BE ASSESSED IF WORK IS STARTED PRIOR TO OBTAINING THIS PERMIT.

***VERIFICATION OF PARCEL CONTROL NUMBER

OWNER'S FULL NAME AS STATED ON DEED: Tod & Robyn BATSON

PARCEL CONTROL #: 01-38-41-010-000-00160-6

SUBDIVISION: Palmetto Park LOT: 16 BLK: _____ PHASE: _____

SITE ADDRESS: 3 Palmetto Drive

Send or Fax to:
Town of Sewall's Building Department
1 S. Sewall's Point Road
Sewall's Point, FL 34996
FAX # (772) 220-4766

4765

NOTICE OF COMMENCEMENT

TO BE COMPLETED WHEN CONSTRUCTION VALUE EXCEEDS $2,500.00 ($7,500 Mechanical)

PERMIT #: _____ TAX FOLIO #: 01-38-41-010-000-00160-6

STATE OF FLORIDA

COUNTY OF MARTIN

THE UNDERSIGNED HEREBY GIVES NOTICE THAT IMPROVEMENT WILL BE MADE TO CERTAIN REAL PROPERTY, AND IN ACCORDANCE WITH CHAPTER 713, FLORIDA STATUTES, THE FOLLOWING INFORMATION IS PROVIDED IN THIS NOTICE OF COMMENCEMENT.

LEGAL DESCRIPTION OF PROPERTY (AND STREET ADDRESS IF AVAILABLE): Palmetto Park Lot 16, 3 Palmetto Drive

GENERAL DESCRIPTION OF IMPROVEMENT: New Single Family Residence

OWNER NAME OR LESSEE INFORMATION, IF LESSEE CONTRACTED FOR THE IMPROVEMENT

NAME: Todd + Robin Ratson

ADDRESS: 153 Ocean Bay Drive Jensen Beach Fl. 34957

PHONE NUMBER: 772-249-4723 FAX NUMBER: _____

INTEREST IN PROPERTY: Owner

NAME AND ADDRESS OF FEE SIMPLE TITLE HOLDER (IF OTHER THAN OWNER): Same

CONTRACTOR: Same As Above

ADDRESS: _____

PHONE NUMBER: _____ FAX NUMBER: _____

SURETY COMPANY (IF APPLICABLE, A COPY OF THE PAYMENT BOND IS ATTACHED) _____

ADDRESS: _____

PHONE NUMBER: _____ FAX NUMBER: _____

BOND AMOUNT: _____

LENDER/MORTGAGE COMPANY: _____

ADDRESS: _____

PHONE NUMBER: _____ FAX NUMBER: _____

PERSONS WITHIN THE STATE OF FLORIDA DESIGNATED BY OWNER UPON WHOM NOTICES OR OTHER DOCUMENTS MAY BE SERVED AS PROVIDED BY SECTION 713.13 (1) (b), FLORIDA STATUTES:

NAME: _____

ADDRESS: _____

PHONE NUMBER: _____ FAX NUMBER: _____

IN ADDITION TO HIMSELF OR HERSELF, OWNER DESIGNATES _____ OF _____ TO RECEIVE A COPY OF THE LIENOR'S NOTICE AS PROVIDED IN SECTION 713.13(1)(B), FLORIDA STATUES:

PHONE NUMBER: _____ FAX NUMBER: _____ EXPIRATION DATE OF NOTICE OF COMMENCEMENT: FEB 20, 2016

EXPIRATION DATE MAY NOT BE BEFORE THE COMPLETION OF CONSTRUCTION AND FINAL PAYMENT TO CONTRACTOR BUT WILL BE ONE (1) YEAR FROM THE DATE OF RECORDING UNLESS A DIFFERENT DATE IS SPECIFIED

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

UNDER PENALTIES OF PERJURY, I DECLARE THAT I HAVE READ THE FOREGOING AND THAT THE FACTS IN IT ARE TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF (SECTION 92.525, FLORIDA STATUTES).

_____

SIGNATURE OF OWNER OR LESSEE OR OWNER'S AUTHORIZED OFFICER/DIRECTOR/PARTNER/MANAGER/ATTORNEY-IN-FACT

SIGNATORY'S TITLE/OFFICE Owner

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS 17 DAY OF FEB, 2015

BY: Todd G. Ratson AS Owner FOR Owner

NAME OF PERSON — TYPE OF AUTHORITY — PARTY ON BEHALF OF WHOM INSTRUMENT WAS EXECUTED

PERSONALLY KNOWN ____ OR PRODUCED IDENTIFICATION X TYPE OF IDENTIFICATION PRODUCED FL DRIVER'S LIC

NOTARY SIGNATURE/ SEAL

JOSEPHINE L. BURSON
MY COMMISSION # FF 005503
EXPIRES: May 9, 2017
Bonded Thru Notary Public Underwriters

JOSEPHINE L BURSON
MY COMMISSION # FF 005503
EXPIRES: May 9, 2017
Bonded Thru Notary Public Underwriters

STATE OF FLORIDA
MARTIN COUNTY

THIS IS TO CERTIFY THAT THE FOREGOING 1 PAGE(S) IS A TRUE AND CORRECT COPY OF THE ORIGINAL DOCUMENT AS FILED IN THIS OFFICE

CAROLYN TIMMANN, CLERK

BY _____ D.C

DATE 2-17-15

MARTIN COUNTY FLORIDA CIRCUIT COURT

INSTR # 2499717
OR BK 2767 PG 73
(1 Pgs)
RECORDED 02/17/2015 02:13:27 PM
CAROLYN TIMMANN
MARTIN COUNTY CLERK

TOWN OF SEWALL'S POINT BUILDING DEPARTMENT
One S. Sewall's Point Road
Sewall's Point, Florida 34996
Tel 772-287-2455 Fax 772-2204765

REVISIONS – CORRECTIONS REQUEST FORM
MUST BE SUBMITTED FOR ALL CORRECTIONS AND REVISIONS

DATE: 2-23-2015 PERMIT NUMBER: [redacted]

JOB ADDRESS: 3 Palmetto Drive

PLEASE CHECK ONE OF THE FOLLOWING:

- ☐ CONDITION OF INSPECTION APPROVAL (Needed for an inspection)
- ☐ CONDITION OF PERMIT APPROVAL: (Corrections/Permit not issued, in review process)
- ☑ REVISIONS (Changes to an issued permit)

******ALL PLAN REVISIONS MUST BE HIGHLIGHTED OR CLOUDED ON DRAWING******

ALL REVISED PAGES ARE REQUIRED TO BE INSERTED IN FIELD PERMIT SET

DESCRIPTION OF REVISION(S): Addition of interior footers, load bearing walls and a steel column to support approved truss design.

DOES REVISION(S) CHANGE THE VALUE OF CONSTRUCTION? YES ☑ NO ☐ VALUE $ 2500.00
*****INCREASED CONSTRUCTION VALUE WILL INCREASE PERMIT FEES AND MUST BE PAID AT TIME OF APPROVAL*****

CONTACT NAME: Tod Batson SIGNATURE: [signature]

PHONE NUMBER: 772-828-9855 FAX NUMBER: _____

FOR OFFICE USE ONLY: 3-12-15

Reviewed by: [signature] [signature] **Date:** 2-26-15 **Approve** ☑ **Deny** ☑

Additional conditioned space _____ **sq. ft. @ $104.65 per sq. ft.** _____ **x 2% =** _____

Additional non-conditioned space _____ **sq. ft. @ $ 48.90 per sq. ft.** _____ **x 2% =** _____

Other declared value increase (must be based on value not cost) 2500 **x 2% =** 50.00

Other additional fees: _____ **Revision review fee:** 6 **Pages @ $25.00/Page** 150.00

Radon Fee — **Professional Regulation Fee** — **Road impact assessment** _____

TOTAL ADDITIONAL BUILDING PERMIT FEE $ 200.00

Applicant notified by: _____ **Date:** _____

ADDED FOOTING DETAILS MISSING [signature]

TOWN OF SEWALL'S POINT BUILDING DEPARTMENT
One S. Sewall's Point Road
Sewall's Point, Florida 34996
Tel 772-287-2455 Fax 772-2204765

REVISIONS – CORRECTIONS REQUEST FORM
MUST BE SUBMITTED FOR ALL CORRECTIONS AND REVISIONS

DATE: 5-1-2015 **PERMIT NUMBER:** 11146

JOB ADDRESS: 3 Palmetto Drive

PLEASE CHECK ONE OF THE FOLLOWING:

- ☐ CONDITION OF INSPECTION APPROVAL (Needed for an inspection)
- ☐ CONDITION OF PERMIT APPROVAL: (Corrections/Permit not issued, in review process)
- ☑ REVISIONS (Changes to an issued permit)

******ALL PLAN REVISIONS MUST BE HIGHLIGHTED OR CLOUDED ON DRAWING******

ALL REVISED PAGES ARE REQUIRED TO BE INSERTED IN FIELD PERMIT SET

DESCRIPTION OF REVISION(S): Modifications to Roof Truss AO4G, required to accommodate HVAC Duct Work.

DOES REVISION(S) CHANGE THE VALUE OF CONSTRUCTION? YES ☑ **NO** ☐ **VALUE $** 500.
*****INCREASED CONSTRUCTION VALUE WILL INCREASE PERMIT FEES AND MUST BE PAID AT TIME OF APPROVAL*****

CONTACT NAME: Tod Batson SIGNATURE: _____

PHONE NUMBER: 772-828-9855 FAX NUMBER: _____

FOR OFFICE USE ONLY:

Reviewed by: _____ **Date:** 5-4-15 **Approve** ☑ **Deny** ☐

Additional conditioned space _____ **sq. ft. @ $104.65 per sq. ft.** _____ **x 2% =** _____

Additional non-conditioned space _____ **sq. ft. @ $ 48.90 per sq. ft.** _____ **x 2% =** _____

Other declared value increase (must be based on value not cost) _____ **x 2% =** _____

Other additional fees: _____ **Revision review fee:** _____ **Pages @ $25.00/Page** _____

Radon Fee _____ **Professional Regulation Fee** _____ **Road impact assessment** _____

TOTAL ADDITIONAL BUILDING PERMIT FEE $ N/C

Applicant notified by: _____ **Date:** _____

TOWN OF SEWALL'S POINT BUILDING DEPARTMENT
One S. Sewall's Point Road
Sewall's Point, Florida 34996
Tel 772-287-2455 Fax 772-2204765

REVISIONS – CORRECTIONS REQUEST FORM
MUST BE SUBMITTED FOR ALL CORRECTIONS AND REVISIONS

DATE: 5-1-2015 **PERMIT NUMBER:** 11146

JOB ADDRESS: 3 Palmetto Drive

PLEASE CHECK ONE OF THE FOLLOWING:

- [x] CONDITION OF INSPECTION APPROVAL (Needed for an inspection)
- [ ] CONDITION OF PERMIT APPROVAL: (Corrections/Permit not issued, in review process)
- [ ] REVISIONS (Changes to an issued permit)

******ALL PLAN REVISIONS MUST BE HIGHLIGHTED OR CLOUDED ON DRAWING******

ALL REVISED PAGES ARE REQUIRED TO BE INSERTED IN FIELD PERMIT SET

DESCRIPTION OF REVISION(S): Front Door Product Approval reviewed and approved by the Architect of Record.

DOES REVISION(S) CHANGE THE VALUE OF CONSTRUCTION? YES [ ] **NO** [x] **VALUE $**_____
*****INCREASED CONSTRUCTION VALUE WILL INCREASE PERMIT FEES AND MUST BE PAID AT TIME OF APPROVAL*****

CONTACT NAME: Tod Batson SIGNATURE: _____

PHONE NUMBER: 772-828-9855 FAX NUMBER: _____

FOR OFFICE USE ONLY:

Reviewed by: _____ **Date:** 5-4-15 **Approve** [x] **Deny** [ ]

Additional conditioned space _____ **sq. ft. @ $104.65 per sq. ft.** _____ **x 2% =** _____

Additional non-conditioned space _____ **sq. ft. @ $ 48.90 per sq. ft.** _____ **x 2% =** _____

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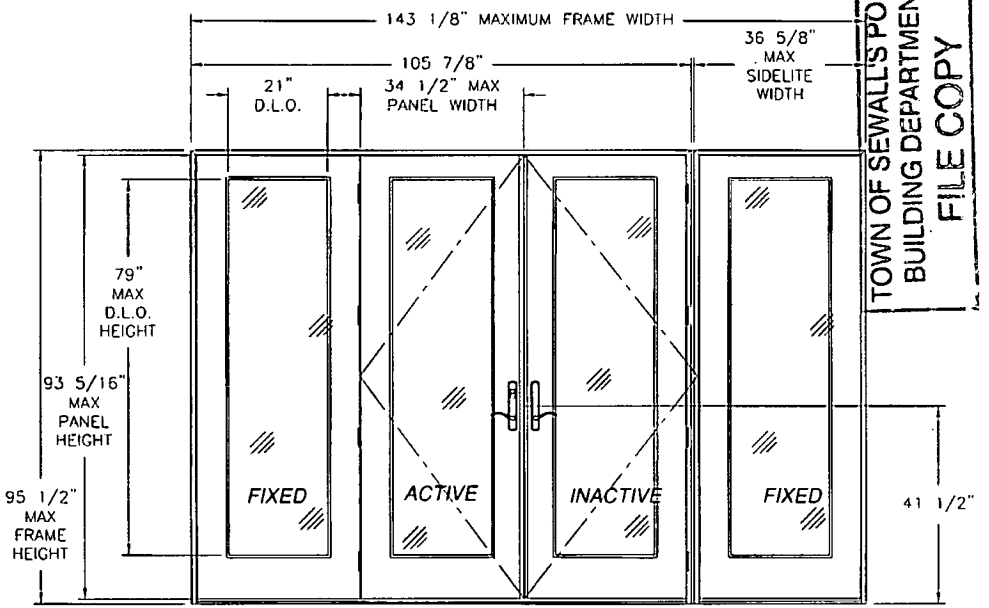
Other additional fees: _____ **Revision review fee:** _____ **Pages @ $25.00/Page** _____

Radon Fee _____ **Professional Regulation Fee** _____ **Road impact assessment** _____

TOTAL ADDITIONAL BUILDING PERMIT FEE $ N/C

Applicant notified by: _____ **Date:** _____



TOWN OF SEWALL'S POINT
BUILDING DEPARTMENT
FILE COPY

Full

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

NOTES:
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. UNITS MUST BE GLAZED PER ASTM E1300-04, SEE SHEET 5 FOR GLASS OPTIONS.
5. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
6. FRAME JAMB AND HEAD MATERIAL: CO-EXTRUDED PVC FOAM 1 1/2" THICK.
7. FRAME SILL MATERIAL: CO-EXTRUDED PVC FOAM 2" THICK WITH ALUMINUM CLADDING .063" THICK.
8. DOOR PANEL AND SIDELITE MATERIAL: .075" THICK FIBERGLASS SKIN WITH PVC FOAM TOP AND BOTTOM RAILS, AND PVC FOAM VERTICAL STILES WITH PINE REINFORCEMENTS AND POLYURETHANE FOAM CORE.
9. APPROVED CONFIGURATIONS: O, X, OX, XO, XX, OXO, XXO, OXX AND OXXO. SEE SHEET 2.
10. HINGES LOCATED AT 8", 33 1/2", 59" AND 84 1/2" FROM BOTTOM OF PANEL

SERIES SLPS 8'0 HEIGHT OUT-SWING PATIO DOOR W/ SIDELITES
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4

REVIEWED AND APPROVED!

Architectural Studio, Inc.

Signature _____ Date 4/27/15

SIGNED: 07/11/2013

TABLE OF CONTENTS

SHEET NO.	DESCRIPTION
1, 2	ELEVATION AND NOTES
3, 4	ANCHORING LAYOUTS
5 - 9	INSTALLATION DETAILS

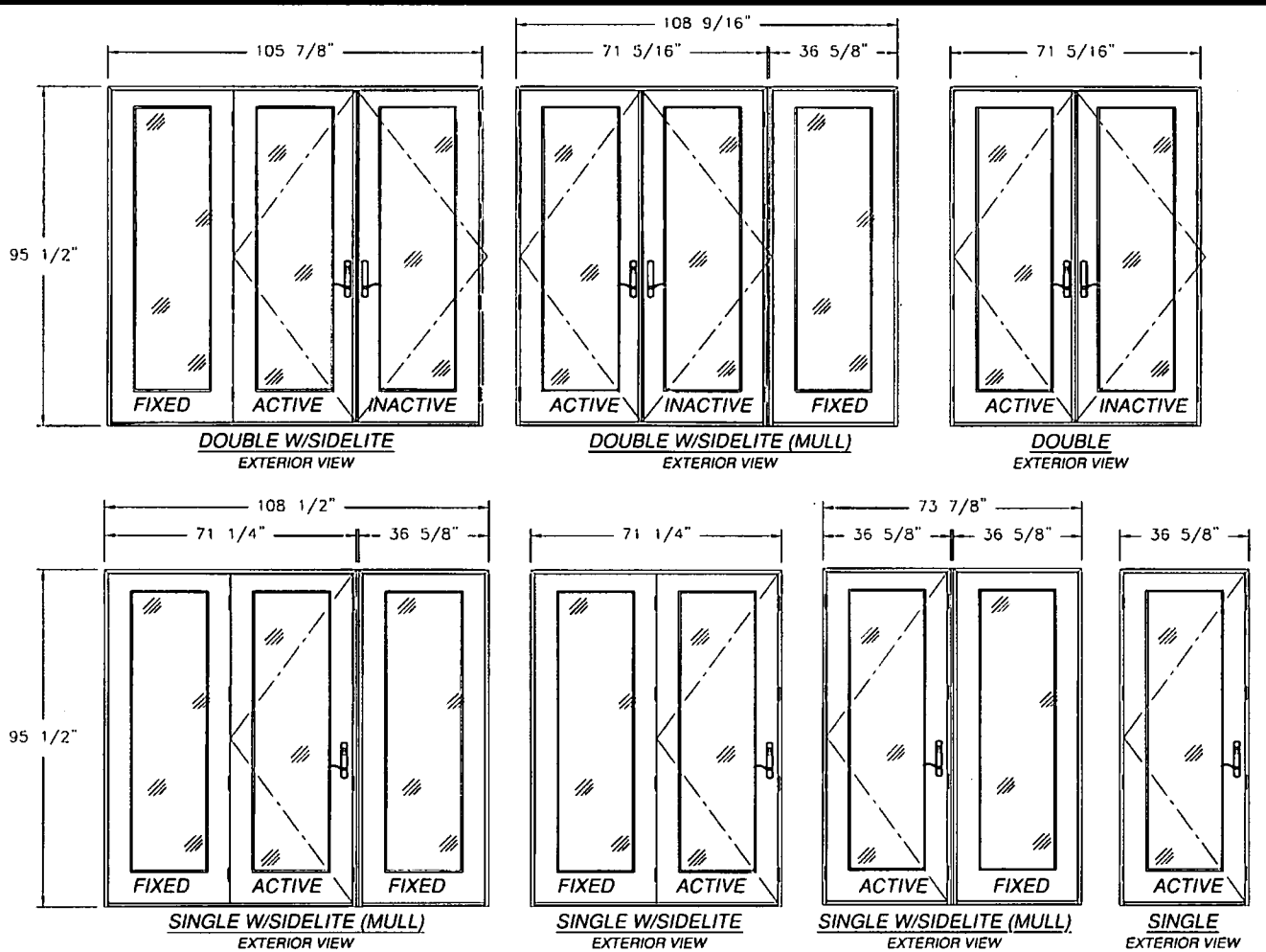
NAN YA PLASTICS CORP. USA
8989 NORTH LOOP EAST
HOUSTON, TX 77029

SERIES SLPS 8'0" HEIGHT OS PATIO DOOR
FIBERGLASS SIDE HINGED DOOR W/ SIDELITES
ELEVATION AND NOTES

DRAWN:	DWG NO.	REV
V.L.	08-02135	-
SCALE NTS	DATE 07/11/13	SHEET 1 OF 9

LUIS R. LOMAS
LICENSE
No. 62514
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



NOTE:
ALL APPROVED CONFIGURATIONS ARE SHOWN AS LEFT HAND ACTIVE. RIGHT HAND ACTIVE IS ALSO APPROVED.

NAN YA PLASTICS CORP. USA
8989 NORTH LOOP EAST
HOUSTON, TX 77029

SERIES SLPS 8'0" HEIGHT OS PATIO DOOR
FIBERGLASS SIDE HINGED DOOR W/ SIDELITES
APPROVED ELEVATIONS

DRAWN:	DWG NO.	REV
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SCALE NTS	DATE 07/11/13	SHEET 2 OF 9

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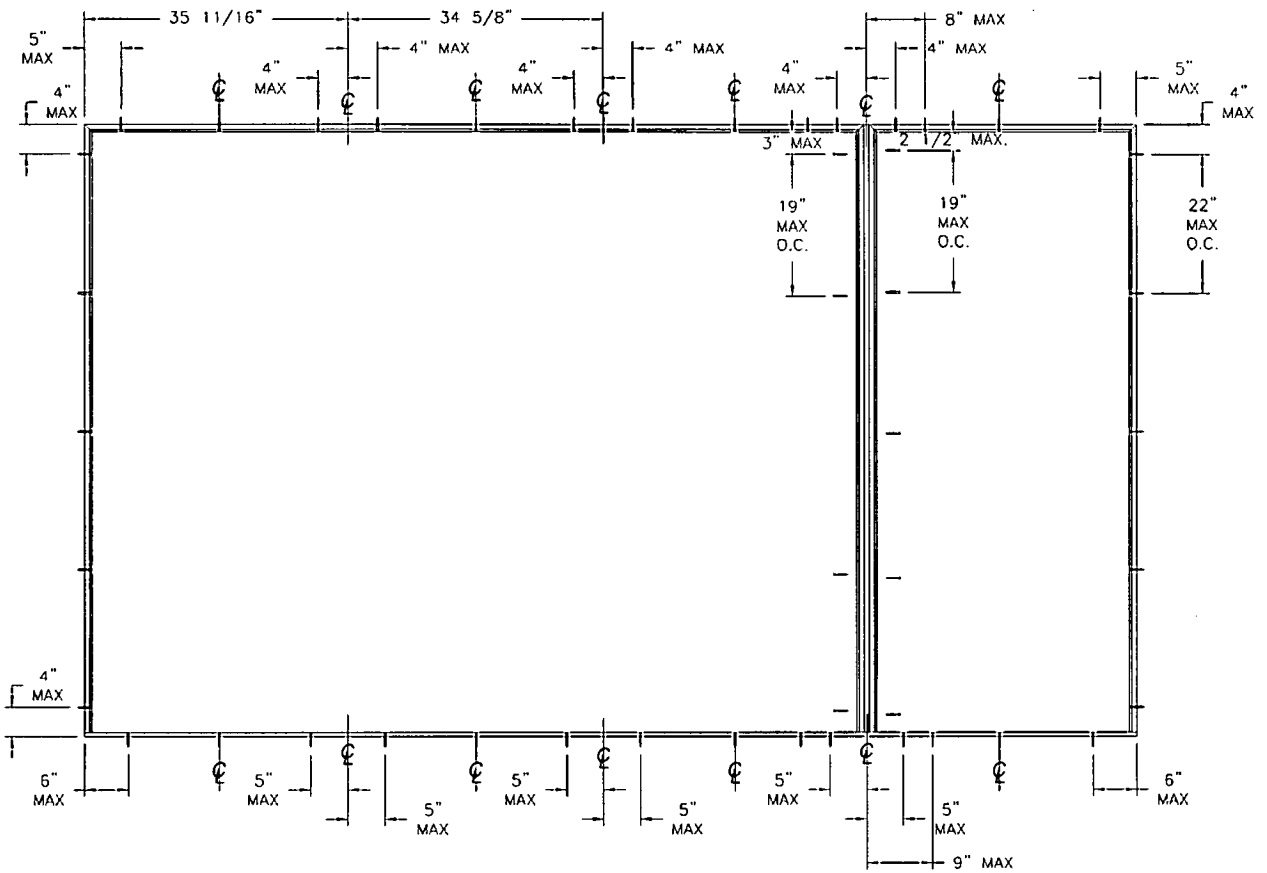

ANCHORING LAYOUT

ANCHORING NOTES:

1) SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
2) FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16" TAPCON OF SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ANCHORING LAYOUT AND INSTALLATION DETAILS.
3) FOR ANCHORING INTO 2X BUCK OR WOOD FRAMING USE #10 WOOD SCREW OF SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ANCHORING LAYOUT AND INSTALLATION DETAILS.
4) ALL FASTENERS TO BE CORROSION RESISTANT.
5) INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
   A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
   B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,200 PSI.
   C. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).

NAN YA PLASTICS CORP. USA
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SERIES SLPS 8'0" HEIGHT OS PATIO DOOR
FIBERGLASS SIDE HINGED DOOR W/ SIDELITES
ANCHORING LAYOUT

DRAWN:	DWG NO.	REV
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LUIS R. LOMAS
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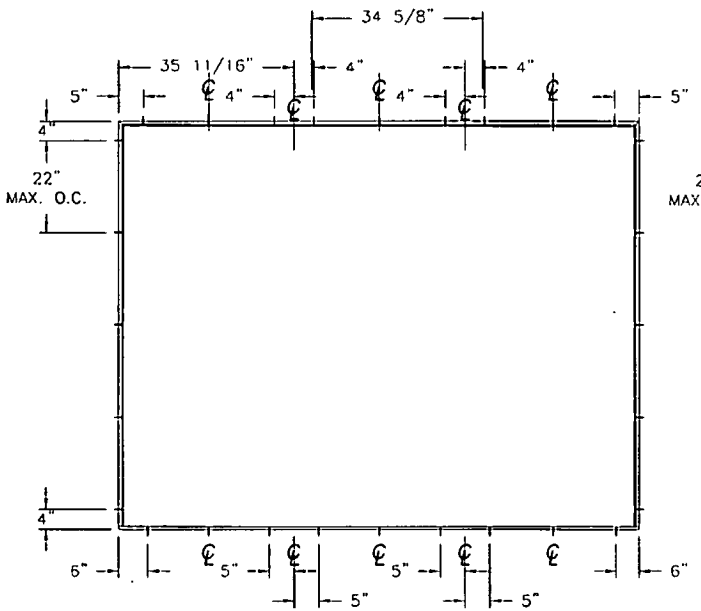
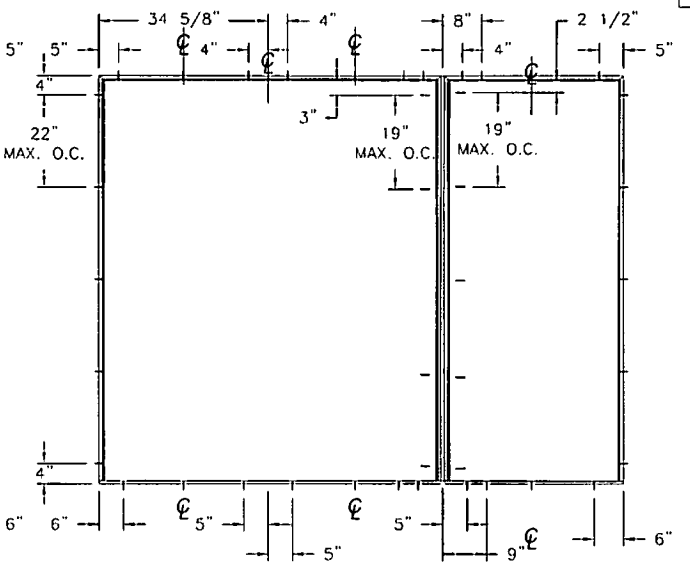
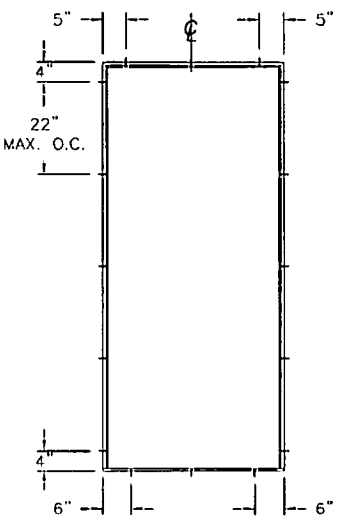
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



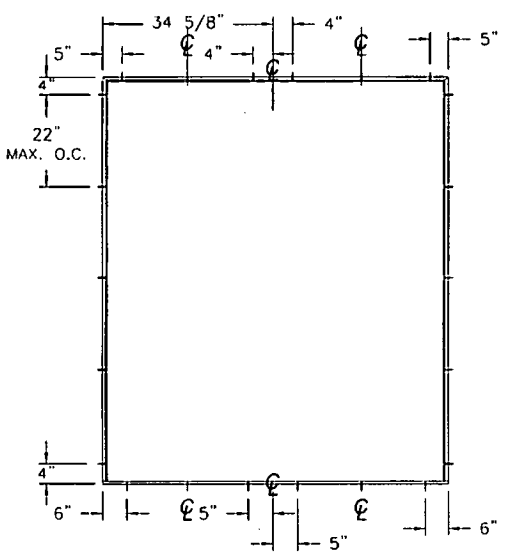
ANCHORING LAYOUT FOR OXO, XXO AND OXX



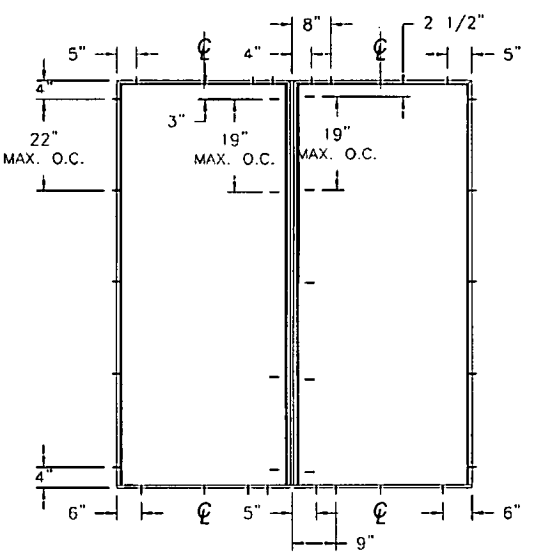
ANCHORING LAYOUT FOR OXO, XXO AND OXX (MULL)



ANCHORING LAYOUT FOR X



ANCHORING LAYOUT FOR XX, OX AND XO



ANCHORING LAYOUT FOR OX AND XO (MULL)

NAN YA PLASTICS CORP. USA
8989 NORTH LOOP EAST
HOUSTON, TX 77029

SERIES SLPS 8'0" HEIGHT OS PATIO DOOR
FIBERGLASS SIDE HINGED DOOR W/ SIDELITES
ANCHORING LAYOUTS

DRAWN:	DWG NO.	REV
V.L.	08-02135	–
SCALE NTS	DATE 07/11/13	SHEET 4 OF 9

LUIS R. LOMAS
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STATE OF
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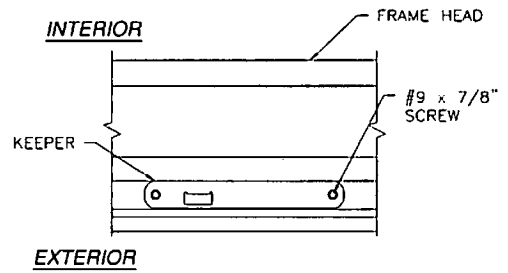
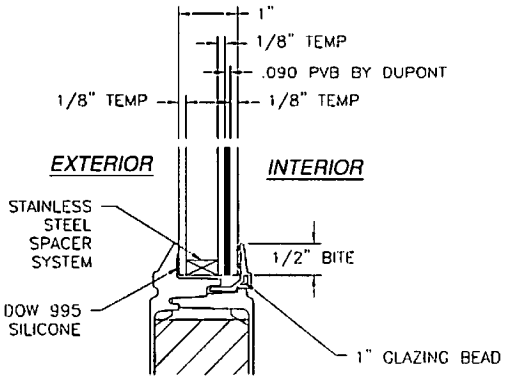
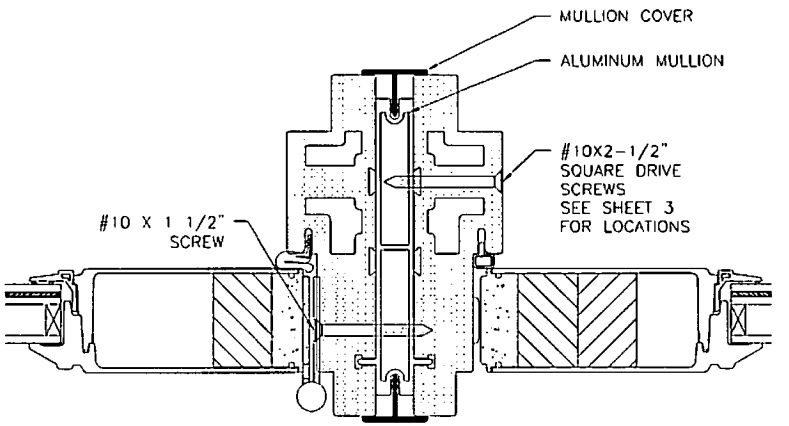
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



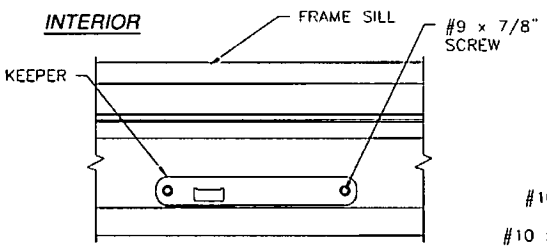
HEAD KEEPER DETAIL



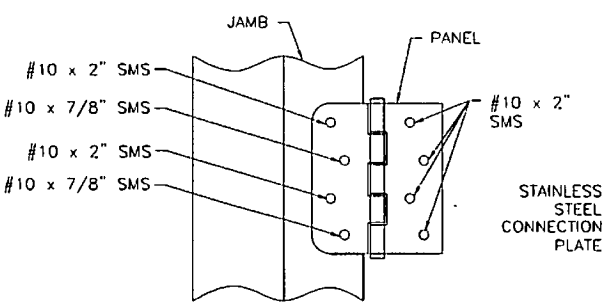
GLAZING DETAIL



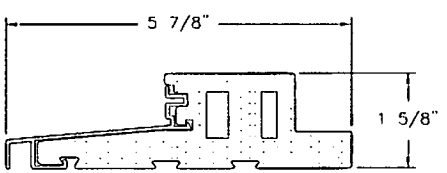
MULLION DETAIL



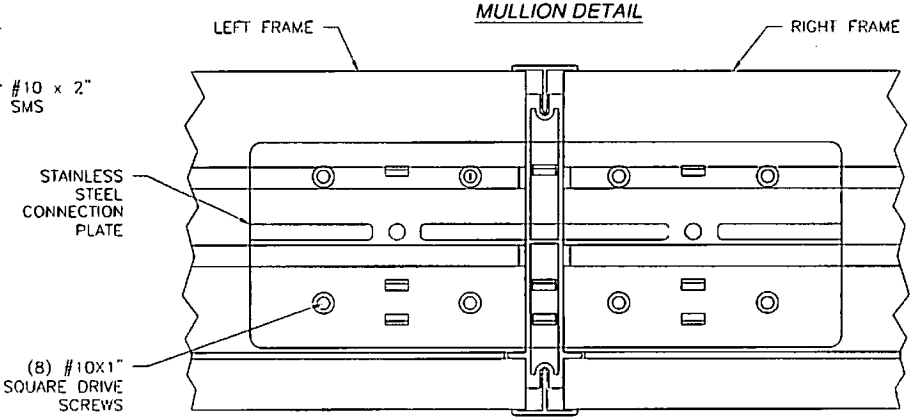
SILL KEEPER DETAIL



HINGE INSTALLATION DETAIL



OUTSWING DOOR SILL DETAIL



FRAME CONNECTION DETAIL

HARDWARE SCHEDULE
A. (3) 4" BUTT HINGE
B. 2 POINT LOCK SYSTEM
C. RIGID PVC ASTRAGAL WITH ALUMINUM REINFORCEMENT

NAN YA PLASTICS CORP. USA
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SERIES SLPS 8'0" HEIGHT OS PATIO DOOR
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INSTALLATION DETAILS

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SCALE NTS	DATE 07/11/13	SHEET 5 OF 9

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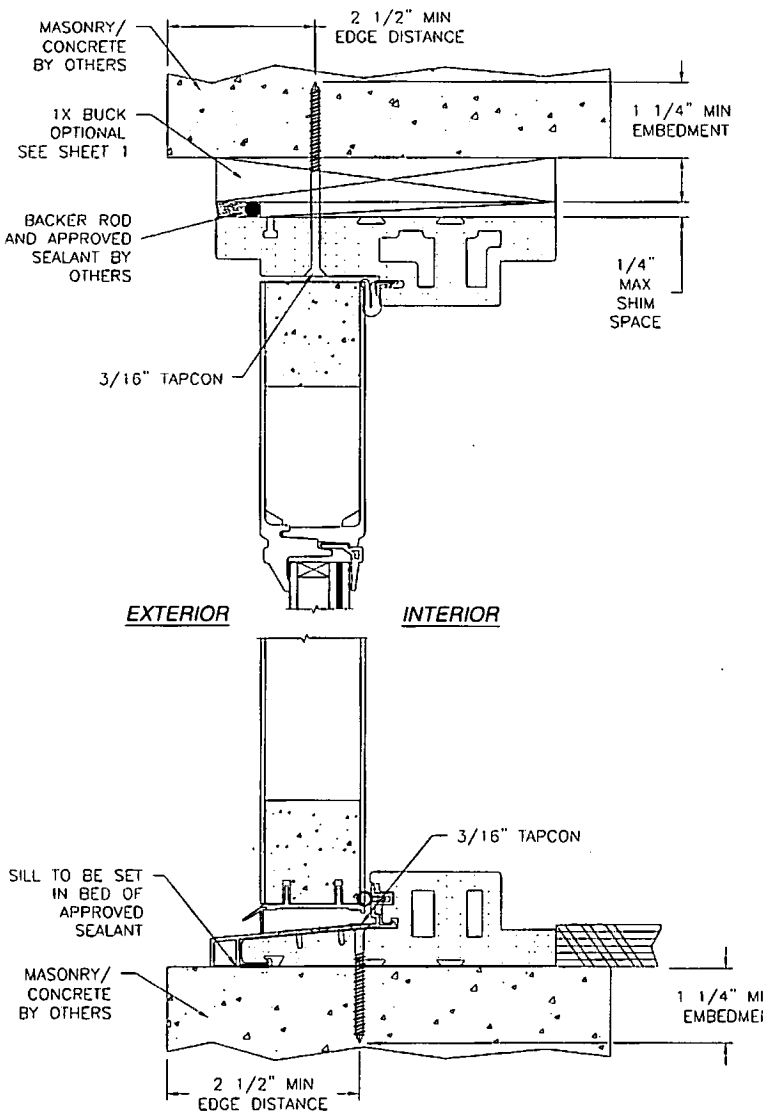
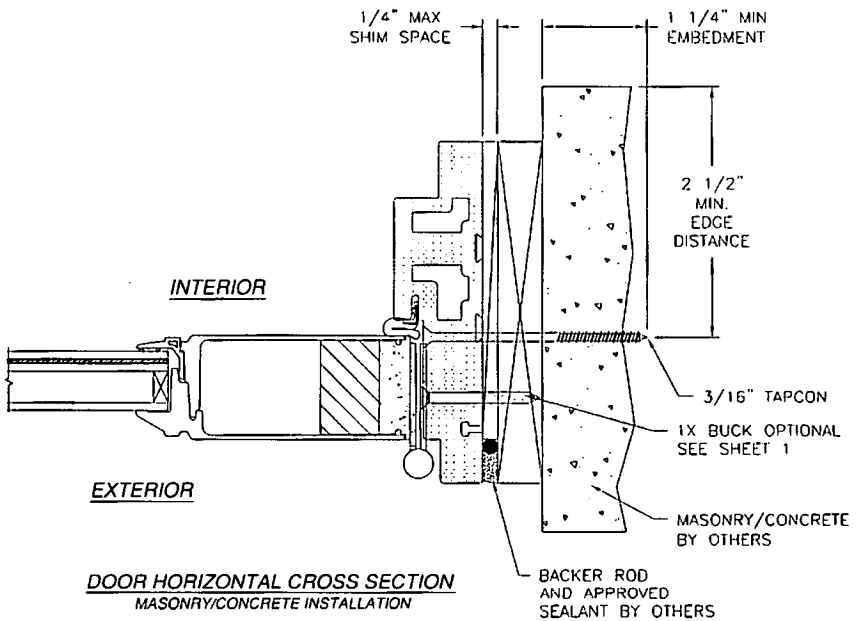


DOOR VERTICAL CROSS SECTION
MASONRY/CONCRETE INSTALLATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



DOOR HORIZONTAL CROSS SECTION
MASONRY/CONCRETE INSTALLATION

NOTE:
INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
ANCHORS MAY BE INSTALLED INSIDE OR OUTSIDE FRAME

NAN YA PLASTICS CORP. USA
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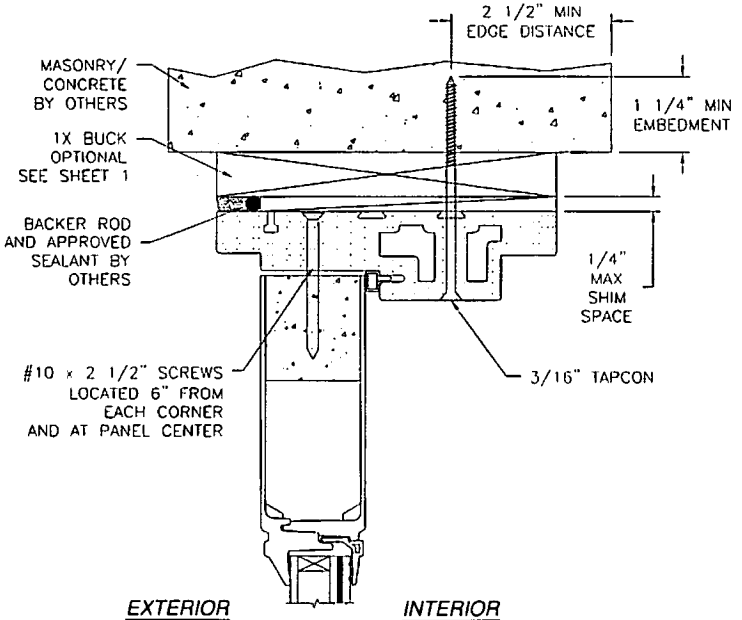

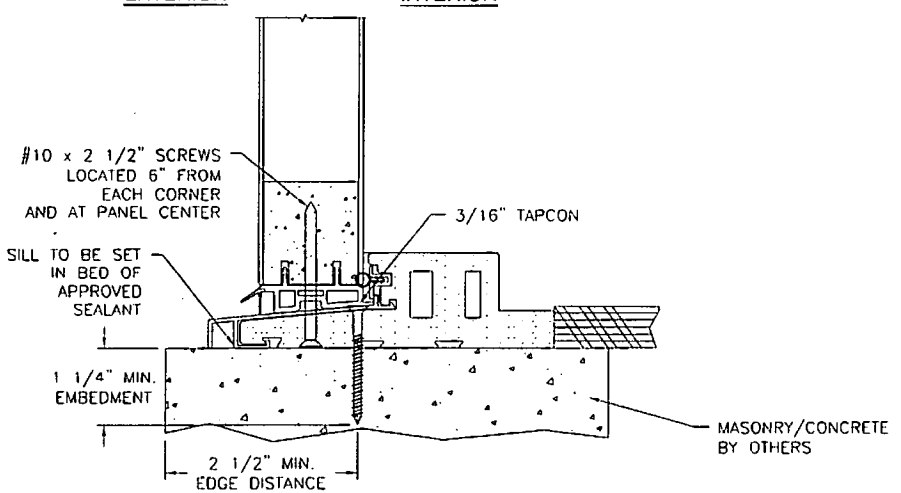

SIDELITE VERTICAL CROSS SECTION
MASONRY/CONCRETE INSTALLATION

REVISIONS			
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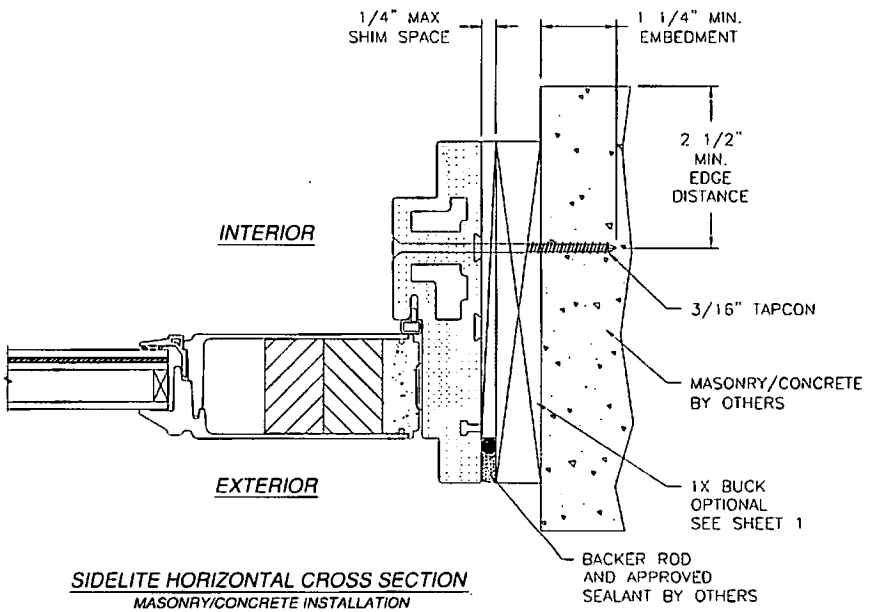

SIDELITE HORIZONTAL CROSS SECTION
MASONRY/CONCRETE INSTALLATION

NOTE:
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INSTALLATION DETAILS

DRAWN:	DWG NO.	REV
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SCALE NTS	DATE 07/11/13	SHEET 7 OF 9

LUIS R. LOMAS
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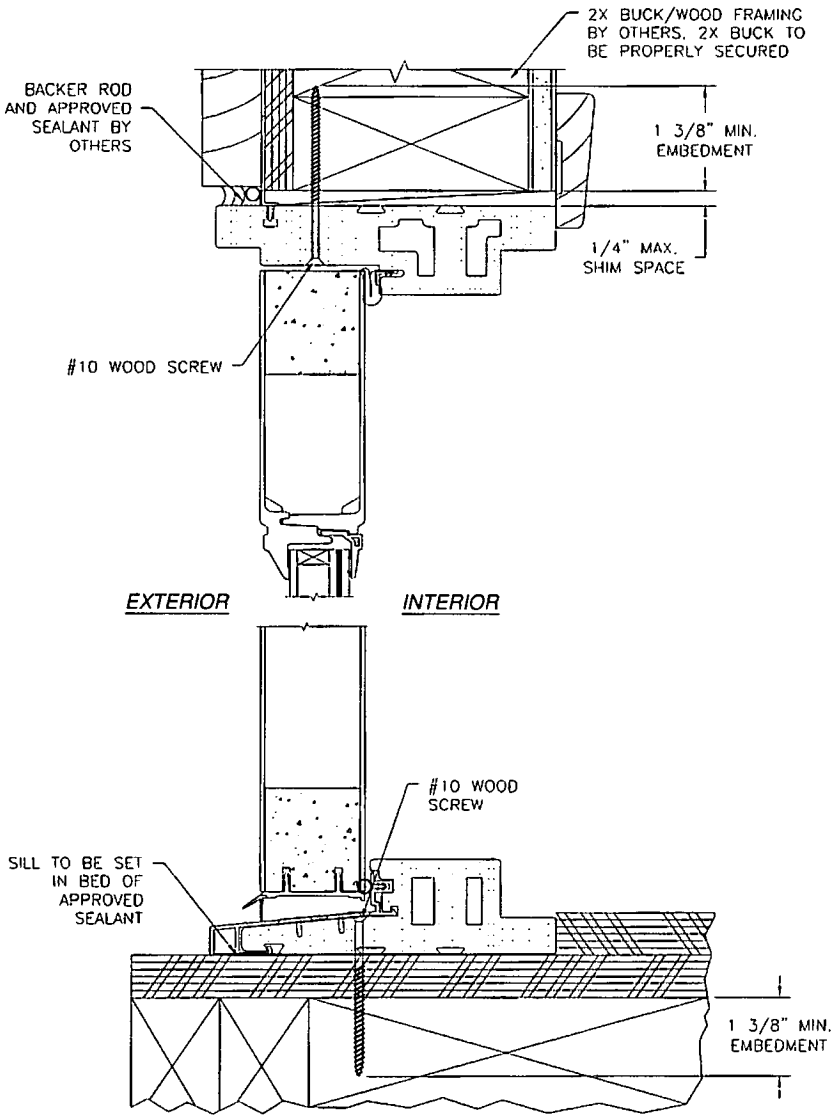
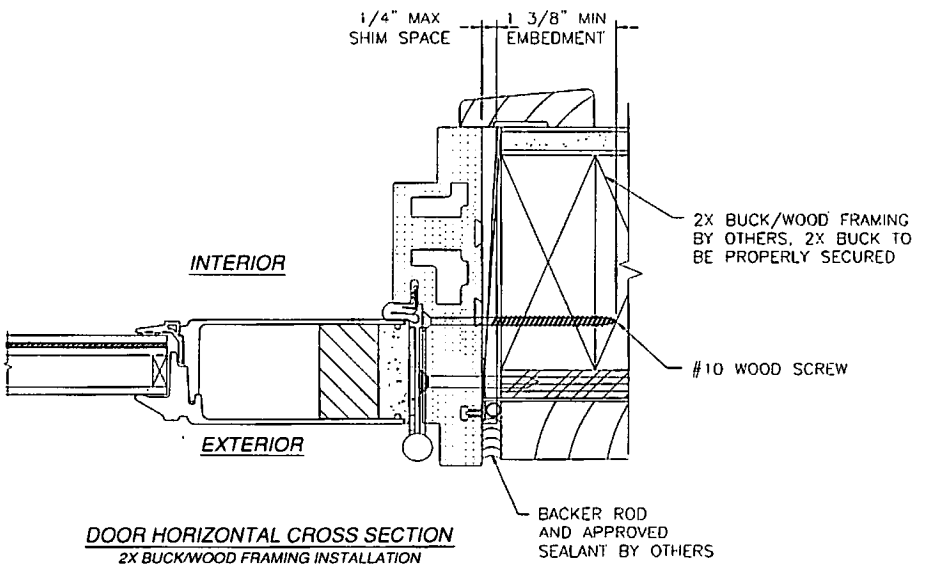


DOOR VERTICAL CROSS SECTION
2X BUCK/WOOD FRAMING INSTALLATION



DOOR HORIZONTAL CROSS SECTION
2X BUCK/WOOD FRAMING INSTALLATION

NOTE:
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ANCHORS MAY BE INSTALLED INSIDE OR OUTSIDE FRAME

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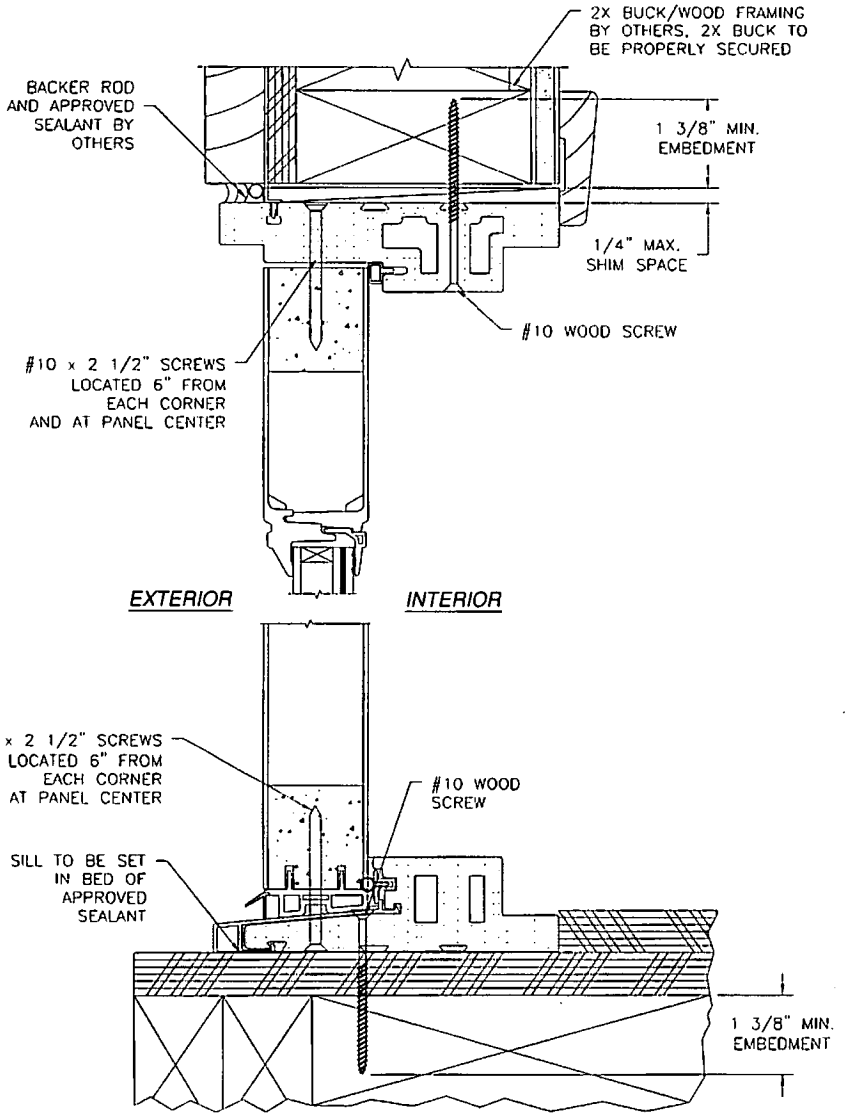
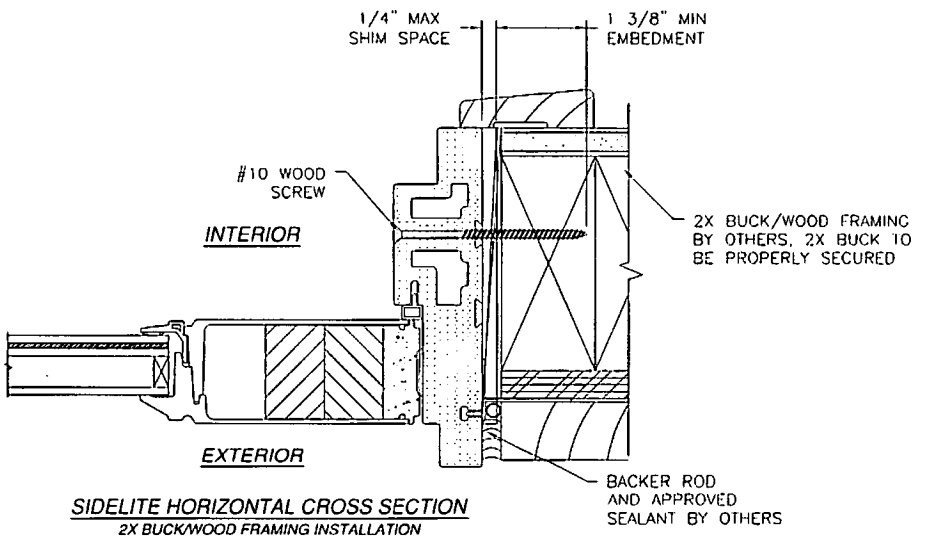


SIDELITE VERTICAL CROSS SECTION
2X BUCK/WOOD FRAMING INSTALLATION



SIDELITE HORIZONTAL CROSS SECTION
2X BUCK/WOOD FRAMING INSTALLATION

NAN YA PLASTICS CORP. USA
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INSTALLATION DETAILS

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SCALE NTS	DATE 07/11/13	SHEET 9 OF 9

LUIS R. LOMAS
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PROFESSIONAL ENGINEER

TOWN OF SEWALL'S POINT BUILDING DEPARTMENT
One S. Sewall's Point Road
Sewall's Point, Florida 34996
Tel 772-287-2455 Fax 772-2204765

REVISIONS – CORRECTIONS REQUEST FORM
MUST BE SUBMITTED FOR ALL CORRECTIONS AND REVISIONS

DATE: 5-4-2015 **PERMIT NUMBER:** 11146

JOB ADDRESS: 3 Palmetto Drive

PLEASE CHECK ONE OF THE FOLLOWING:

- ☐ CONDITION OF INSPECTION APPROVAL (Needed for an inspection)
- ☐ CONDITION OF PERMIT APPROVAL: (Corrections/Permit not issued, in review process)
- ☑ REVISIONS (Changes to an issued permit)

******ALL PLAN REVISIONS MUST BE HIGHLIGHTED OR CLOUDED ON DRAWING******

ALL REVISED PAGES ARE REQUIRED TO BE INSERTED IN FIELD PERMIT SET

DESCRIPTION OF REVISION(S): Liquid Propane underground Tank and supply to House and Pool Heater

DOES REVISION(S) CHANGE THE VALUE OF CONSTRUCTION? YES ☑ **NO** ☐ **VALUE $** 4655.00
*****INCREASED CONSTRUCTION VALUE WILL INCREASE PERMIT FEES AND MUST BE PAID AT TIME OF APPROVAL*****

CONTACT NAME: Tod Batson SIGNATURE: [signature]

PHONE NUMBER: 772-828-9855 FAX NUMBER: _____

FOR OFFICE USE ONLY:

Reviewed by: [signature] **Date:** 5.6.15 **Approve** ☑ **Deny** ☐

Additional conditioned space _____ **sq. ft. @ $104.65 per sq. ft.** _____ **x 2% =** _____

Additional non-conditioned space _____ **sq. ft. @ $ 48.90 per sq. ft.** _____ **x 2% =** _____

Other declared value increase (must be based on value not cost) 4655 x 2% = 93.10

Other additional fees: _____ **Revision review fee:** 2 **Pages @** ~~$25.00~~ 50.00 **/Page** 100.00

Radon Fee _____ **Professional Regulation Fee** _____ **Road impact assessment** _____

TOTAL ADDITIONAL BUILDING PERMIT FEE $ 193.10

Applicant notified by: _____ **Date:** _____

TOWN OF SEWALL'S POINT BUILDING DEPARTMENT
One S. Sewall's Point Road
Sewall's Point, Florida 34996
Tel 772-287-2455 Fax 772-2204765

GAS CHECKLIST
COMPLIANT TO 2010 FBC FUEL GAS CODE & NFPA 54 & 58

USE:
RESIDENTIAL: [✓] COMMERCIAL: [ ]

HOOK UP:
TANK [✓] METERED UTILITY GAS: [ ] OTHER: _____

TANK SPECS:
SIZE: 500 GALS ABOVE GROUND: [1] UNDERGROUND: [✓]
TANK TYPE: D.O.T. [ ] ASME: [✓] OTHER: _____

TANK DISTANCE: (MINIMUM)
SOURCE OF IGNITION: 10 FT. BUILDING OPENINGS: 10 FT. BUILDING: 10 FT.
PROPOSED SETBACKS FROM LOT LINE:
FRONT: 10 FT. SIDE 1: 10 FT. SIDE 2: 40 FT. REAR: 60 FT.

GAS SPECS: (SEE FBC/FUEL GAS TABLES 402)
NATURAL: [ ] LP: [X] OTHER: _____
GAS PRESSURE OF 10 psi AND PRESSURE DROP OF 1.0
BASED ON A 1.50 SPECIFIC GRAVITY GAS

TOWN OF SEWALL'S POINT
BUILDING DEPARTMENT
FIELD COPY

PIPE/TUBING SPECS: (CHECK ALL THAT APPLY)
IRON [ ] SCH. 40 [✓] SEMI-RIGID [ ] CSST [✓] COPPER [ ]
POLYETHYLENE PLASTIC [✓] S. S.: [ ] OTHER: [ ]

COMBUSTION AIR:
REQUIRED: YES: [ ] NO: [✓]
METHOD FOR SUPPLYING COMBUSTION AIR: _____
WHO PROVIDED THE COMBUSTION AIR CALCS?
ARCHITECT/ENGINEER OF RECORD: [ ] GAS COMPANY: [ ]
OTHER: _____

GAS APPLIANCE SPECS: (LIST APPLIANCE TYPE AND BTU)
APPLIANCE #1: HWH Pool 40,000 BTU 3/4 *DIA. PIPE 50 FT.-LENGTH
APPLIANCE #2: Range 60,000 BTU 1/2 *DIA. PIPE 45 FT.-LENGTH
APPLIANCE #3: BBQ 50,000 BTU 1/2 *DIA. PIPE 45 FT.-LENGTH
APPLIANCE #4: _____ _____ BTU _____ *DIA. PIPE _____ FT.-LENGTH
APPLIANCE #5: _____ _____ BTU _____ *DIA. PIPE _____ FT.-LENGTH
APPLIANCE #6: _____ _____ BTU _____ *DIA. PIPE _____ FT.-LENGTH
(LENGTH BASED ON THE TOTAL PIPE LENGTH FROM THE GAS SOURCE TO THE APPLIANCE)
***THE ABOVE PIPE SIZES WERE TAKEN FROM 2010 FBC FUEL GAS TABLE NO.** 6.2

Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.

RE: 27951 - Batson Res

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:
Customer Info: Batson, Todd Project Name: Batson Residence Model:
Lot/Block: Subdivision:
Address: 3 Palmetto Drive
City: Stuart State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: License #:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2010/TPI2007 Design Program: MiTek 20/20 7.5
Wind Code: ASCE 7-10 [All Height] *Wind Speed: 170 mph*
Roof Load: 55.0 psf Floor Load: N/A psf

This package includes 1 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T6982953	A04G	4/9/015

TOWN OF SEWALL'S POINT
BUILDING DEPARTMENT
FILE COPY

FWP

The truss drawing(s) referenced above have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by East Coast Truss.

Truss Design Engineer's Name: Magid, Michael
My license renewal date for the state of Florida is February 28, 2017.

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

MICHAEL S. MAGID LICENSE No 53681 STATE OF FLORIDA PROFESSIONAL ENGINEER

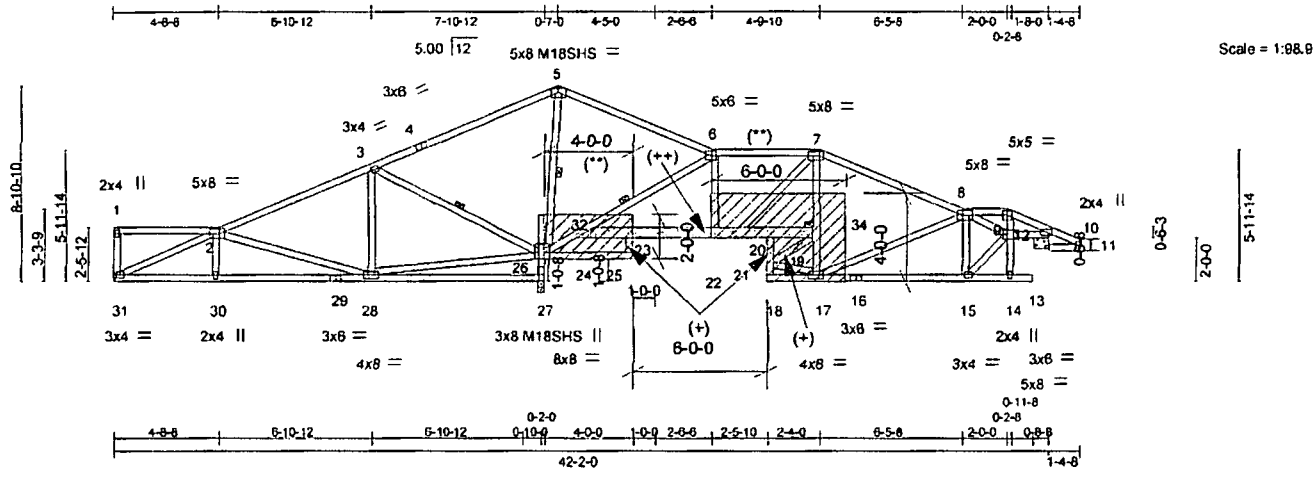
FL Cert. 6634

April 9,2015

Job	Truss	Truss Type	Qty	Ply	Batson Res	
27951	A04G	ROOF SPECIAL GIRDER	1	1	Job Reference (optional)	Units: 1 Eng: DR T6982953

East Coast Truss, Fort Pierce, FL, 34946 — 7.530 e Jul 11 2014 MiTek Industries, Inc. Thu Apr 09 16:14:31 2015 Page 1

ID:I2RtNvtxGjBrgoY8EKUoyjy8ka8-dQ3zZ0O4s82YvqWDITUtdT_uqIA_OgaJymzeHrzSPjM



SEE PAGE 2 FOR REPAIR DETAILS AND NOTES.

Plate Offsets (X,Y)-- [2:0-5-4,0-2-8], [6:0-2-4,0-2-8], [7:0-5-12,0-2-8], [8:0-5-4,0-2-8], [9:0-2-8,0-2-7], [12:0-2-8,0-2-8], [26:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plates Increase	1.33	TC	0.91	Vert(LL)	-0.12	18	>999	240	MT20	244/190
TCDL	15.0	Lumber Increase	1.33	BC	0.59	Vert(TL)	-0.26	27-28	>889	180	M18SHS	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.79	Horz(TL)	0.07	10	n/a	n/a		
BCDL	10.0	Code FBC2010/TPI2007		(Matrix-M)							Weight: 286 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
4-5,5-6: 2x4 SP No.1, 2-4: 2x4 SP 2850F 1.8E
BOT CHORD 2x4 SP No.2 *Except*
27-32,9-14: 2x4 SP No.3, 19-24: 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-4-5 oc purlins, except end verticals. [PSA]
BOT CHORD Rigid ceiling directly applied or 2-9-8 oc bracing. Except:
6-0-0 oc bracing: 12-14
WEBS 1 Row at midpt 3-26, 5-26, 6-26
JOINTS 1 Brace at Jt(s): 19

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 31=539/Mechanical, 27=3258/0-4-0, 10=923/0-8-0
Max Horz 31=-382(LC 6)
Max Uplift 31=-302(LC 8), 27=-1366(LC 8), 10=-625(LC 8)
Max Grav 31=799(LC 17), 27=3258(LC 1), 10=932(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-679/738, 3-4=-357/1393, 4-5=-325/1607, 5-6=-274/1417, 6-7=-198/366, 7-8=-655/469, 8-9=-1036/645, 9-10=-1245/741
BOT CHORD 30-31=-357/1205, 29-30=-359/1199, 28-29=-359/1199, 26-27=-3186/1388, 16-17=-432/824, 15-16=-432/824, 9-12=-317/484, 10-12=-555/1088, 20-21=-195/514, 19-20=-195/515
WEBS 2-28=-751/370, 3-28=-66/508, 26-28=-651/490, 3-26=-1532/810, 5-26=-1741/639, 24-26=-1425/762, 6-24=-1509/808, 6-22=-198/740, 7-21=-555/211, 17-19=-35/276, 8-17=-362/267, 8-15=-661/429, 17-34=-185/485, 12-15=-536/1061, 2-31=-1284/441, 8-12=-148/269, 20-34=-176/453, 19-34=-577/221

NOTES- Continued on page 2

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=170mph (3-second gust) Vasd=132mph; TCDL=9.0psf; BCDL=3.0psf; h=10ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp D; End., GCpi=0.18; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) Plates checked for a plus or minus 0 degree rotation about its center.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 302 lb uplift at joint 31, 1366 lb uplift at joint 27 and 625 lb uplift at joint 10.
10) Semi-rigid pitchbreaks including heels. Member end fixity model was used in the analysis and design of this truss.

MICHAEL S. MAGID LICENSE No 53681 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL Cert. 6634

April 9,2015

MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Batson Res
27951	A04G	ROOF SPECIAL GIRDER	1	1	T6982953

Job Reference (optional)

East Coast Truss, Fort Pierce, FL, 34946 — 7.530 e Jul 11 2014 MiTek Industries, Inc. Thu Apr 09 16:14:32 2015 Page 2

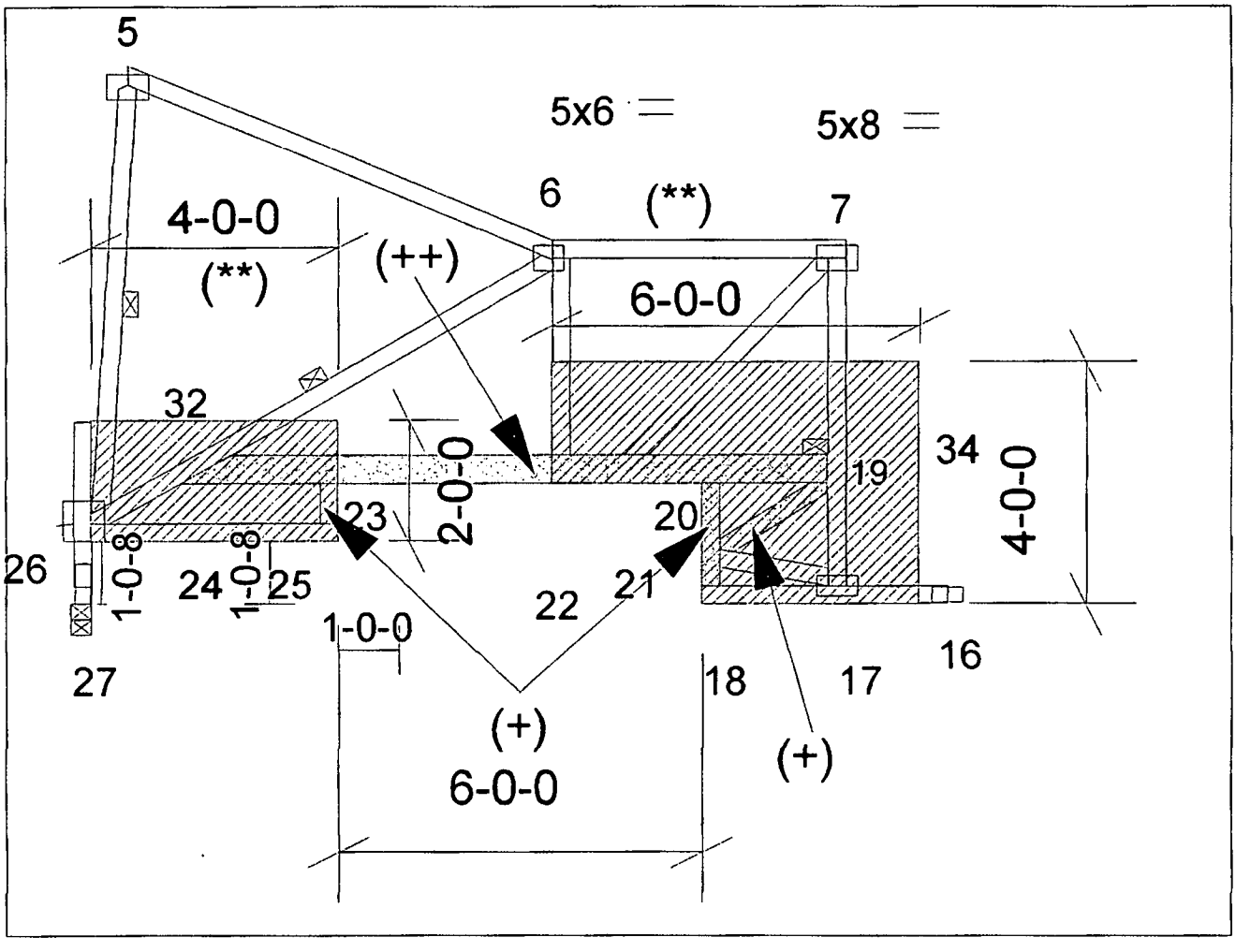
ID:I2RtNvtxGjBrgoY8EKUoyjy8ka8-5cdLnMOidRAPW_5PJB?69hW2aiWD77qSBQjCpHzSPjL

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 97 lb up at 40-3-8 on top chord, and 141 lb up at 40-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: 1-2=-90, 2-5=-90, 5-6=-90, 6-7=-90, 7-8=-90, 8-9=-90, 9-11=-90, 27-31=-20, 25-26=-20, 14-18=-20, 13-14=-20, 12-35=-20, 20-23=-20
   Concentrated Loads (lb)
   Vert: 9=-12(B) 14=59(B)



Repair: Need to modify the bottom chord profile as shown.

(+) Install 2x4 SP No.2 member(s), cut to fit tight.

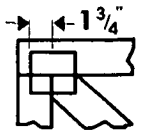
(++) Install 2x6 SP No.2 member(s), cut to fit tight.

(**) - Attach 1/2" plywood or OSB gusset (15/32" Rated Sheathing 24/16 Exp 1) to EACH face of truss with (0.131" x 2.5" min.) nails per the following nail schedule: 2 x 3's - 2 rows, 2 x 4's - 3 rows, 2 x 6's and larger - 4 rows: spaced @ 4" o.c. Nails to be driven from both faces. Stagger spacing from front to back face for a net 2" o.c. spacing in the truss. Use 2" member end distance.

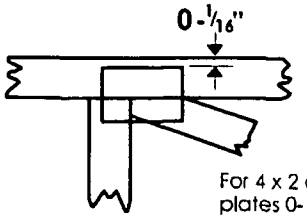
- Lumber and connector plates (shown dashed) to be cut cleanly and accurately and the remaining plate(s) must be fully embedded and undisturbed.

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0-1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

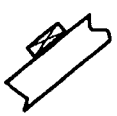
***Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

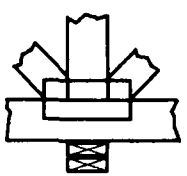
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

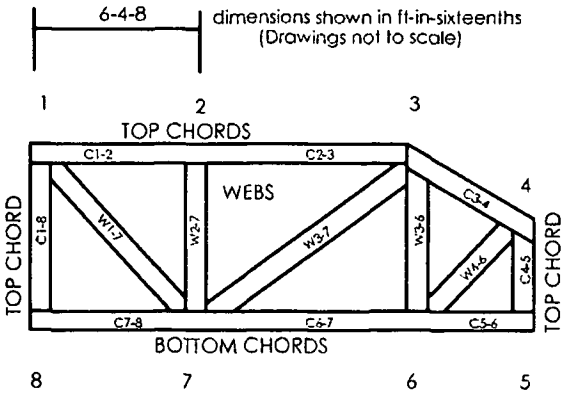


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

MiTek

⚠ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T or I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

TRINITY | ERD

EXTERIOR RESEARCH & DESIGN, LLC.
Certificate of Authorization #9503
353 CHRISTIAN STREET, UNIT #13
OXFORD, CT 06478
PHONE: (203) 262-9245
FAX: (203) 262-9243

EVALUATION REPORT

East Coast Metals, Inc.
2301 West 8 Lane
Hialeah, FL 33010

Evaluation Report E10240.08.08-R3
FL5374-R3
Date of Issuance: 09/03/2008
Revision 3: 04/25/2012

SCOPE:
This Evaluation Report is issued under Rule 9N-3 and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code and Florida Building Code, Residential Volume. The products described herein have been designed to comply with the 2010 Florida Building Code.

DESCRIPTION: East Coast Metals Channel Metals

LABELING: Each unit shall bear labeling in accordance with the requirements the Accredited Quality Assurance Agency noted herein.

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. if the product changes or the referenced Quality Assurance documentation changes. Trinity|ERD requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Evaluation Report number preceded by the words "Trinity|ERD Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 7.

Prepared by:

The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 04/25/2012 This does not serve as an electronically signed document. Signed, sealed hardcopies have been transmitted to the Product Approval Administrator and to the named client

Robert J.M. Nieminen, P.E.
Florida Registration No. 59166, Florida DCA ANE1983

CERTIFICATION OF INDEPENDENCE:
1. Trinity|ERD does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. Trinity|ERD is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

REVIEWED AND APPROVED!

Architectural Studio, Inc.

Signature _____ Date 12/23/14

ROOFING COMPONENT EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Roofing Accessories that are an Integral Part of the Roofing System
Compliance Statement: East Coast Metals Channel Metals, as produced by East Coast Metals, have demonstrated compliance with the following sections of the Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

Section	Property	Standard	Year
1523.6.5.2.2	Static Uplift Resistance	TAS 101	1995

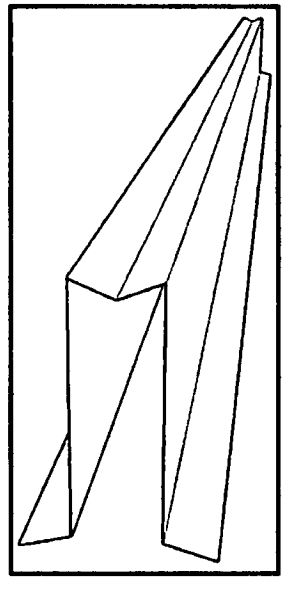
3. REFERENCES:

Entity	Examination	Reference	Date
Florida TEC (TST7393)	TAS 101	S10-628R	10/27/2010
PRI (TST5878)	TAS 101	ECM-001-02-01	09/21/2001
PRI (TST5878)	TAS 101	ECM-003-02-01	06/13/2008
PRI (TST5878)	TAS 101	ECM-004-02-01	06/13/2008
PRI (TST5878)	TAS 101	ECM-005-02-01	06/13/2008
PRI (TST5878)	TAS 101	ECM-006-02-01	06/13/2008
PRI (TST5878)	TAS 101	ECM-007-02-01	06/13/2008
PRI (TST5878)	TAS 101	ECM-008-02-01	06/13/2008
Florida Building Code	Attachment Requirements	FRSA/TRI 07320/8-05	08/2005
Florida Building Code - HVHZ	Attachment Requirements	RAS 118, 119 and 120	1995
East Coast Metals	Metal Quality	Mill Certifications	Various
Architectural Testing (QUA1844)	Quality Control	Participation Letter	Exp. 12/31/2014

4. PRODUCT DESCRIPTION:

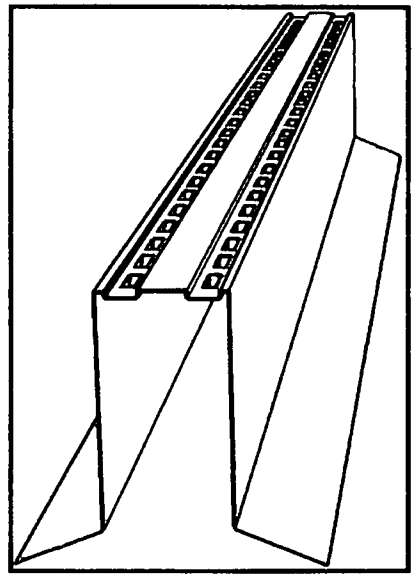
4.1 **Hip & Ridge Channel Metal:** Pre-formed metal channel designed for use as a hip and ridge base to which roof tiles are bonded in FBC Approved roof tile adhesive.

Hip & Ridge Channel Metal is available in 119-3/8-inch (± 3/8-inch) length by 2.5, 3, 3.5, 4, 5, 6 or 7-inch (± 3/8-inch) heights with 1.5-inch (± 1/16-inch) deck-flanges.



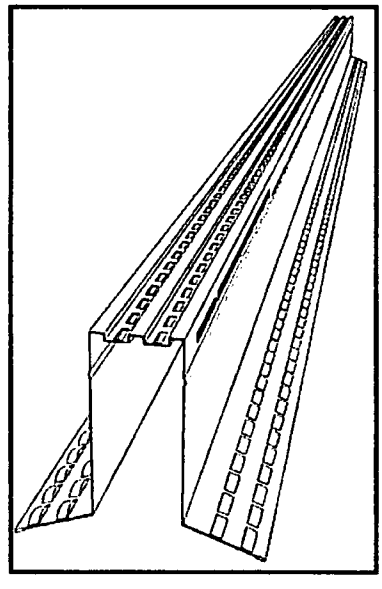
4.2 **Trim Lock Channel Metal:** Pre-formed metal channel designed for use as a hip and ridge base to which roof tiles are bonded in FBC Approved roof tile adhesive. Trim Lock Channel Metal is characterized by its profiled and perforated upper horizontal flange designed to receive and allow for interlock with the overlying tile adhesive.

Trim Lock Channel Metal is available in 119-3/8-inch (± 3/8") length by 3, 3.5, 4, 5 or 6-inch (± 3/8-inch) heights with 1.5-inch (± 1/16-inch) deck-flanges.



4.2 **Trim Lock Plus Channel Metal:** Pre-formed metal channel designed for use as a hip and ridge base to which roof tiles are bonded in FBC Approved roof tile adhesive. Trim Lock Plus Channel Metal is characterized by its profiled and perforated upper horizontal flange designed to receive and allow for interlock with the overlying tile adhesive and its perforated deck flanges, designed for installation atop the roof underlayment via placement in Polyset AH160 adhesive, which flows-through and interlocks with the underlying adhesive.

Trim Lock Plus Channel Metal is available in 119-3/8-inch (± 3/8") length by 3, 3.5, 4, 5 or 6-inch (± 3/8-inch) heights with 1.5-inch (± 1/16-inch) deck-flanges.



4.4 East Coast Metals Channel Metals are fabricated of the following metals:

- Galvanized Steel: Min. 0.019 ± 0.002-inch, ASTM A653 (G-90), min. 33 KSI.
- Galvalume Steel: Min. 0.019 ± 0.002-inch, ASTM A792, AZ55, min. 35 KSI.
- Aluminum: Min. 0.032 ± 0.002-inch, ASTM B209, 3003-H14, min. 21 KSI.
- Stainless Steel: Min. 0.019 ± 0.002-inch, ASTM A240/A480, T304, min. 35 KSI.

5. LIMITATIONS:

5.1 FOR HVHZ JURISDICTIONS:

5.1.1 For Hip & Ridge Channel Metal or Trim Lock Channel Metal, refer to FBC RAS 118, Drawing 13, Detail 3; RAS 119, Drawing 12, Detail 3; or RAS 120, Drawing 15, Detail 3. For Trim Lock Plus Channel Metal, refer to the installation instructions herein.

5.1.2 For HVHZ jurisdictions, installations are limited to projects having a required moment resistance (M_r) or uplift resistance (F_r)[1] not greater than the following values.

- "Interdependent" paddy placement means each individual tile is bonded to the Channel Metal in a foam paddy, and a second foam paddy bonds the tile head lap, or two tiles are bonded to the Channel Metal using a single foam paddy.
- "Independent" paddy placement means each individual tile is bonded to the Trim Lock in its own, single foam paddy; tile head laps are not bonded.

Table 1A: Performance Limitations - HVHZ: Interdependent Foam-Paddy Placement

Channel Type	Tile Type	Foam Adhesive	Foam Paddy Information			Moment Based M_f (ft-lbf)	Uplift Based F' (lbf)
			Approx. Size (inch)	Approx. Wt (grams)	Placement		
Trim Lock Channel Metal	Concrete	PolyPro AH160	2 x 4	9.7	Tile-to-metal, 3" from tile head	73	104
			4 x 2	9.7	Tile-to-tile at 3" tile headlap		
		Polyset ONE	2 x 4	6.0	Tile-to-metal, 3" from tile head	71	101
			4 x 1	4.7	Tile-to-tile at 3" tile headlap		
	Clay	PolyPro AH160	2 x 4	9.7	Tile-to-metal, 3" from tile head	88	116
			4 x 2	9.7	Tile-to-tile at 3" tile headlap		
		Polyset ONE	2 x 4	6.0	Tile-to-metal, 3" from tile head	66	88
			4 x 1	4.7	Tile-to-tile at 3" tile headlap		

Table 1B: Performance Limitations - HVHZ: Independent Paddy Placement

Channel Type	Tile Type	Foam Adhesive	Foam Paddy Information			Moment Based M_f (ft-lbf)	Uplift Based F' (lbf)
			Approx. Size (inch)	Approx. Wt (grams)	Placement		
Hip & Ridge Channel Metal	Concrete	PolyPro AH160	2 x 8	Min. 30	Tile-to-metal, shared paddy starting 4-inch below the head of the 1st course and ending 4-inch beyond the tail of the overlapping tile	127	169
Trim Lock Channel Metal	Concrete	PolyPro AH160	2 x 7	Min. 38	Tile-to-metal, centered along tile length	140	199
			Two at Min 2 x 7	Min. 15 each	One 2x7 paddy or continuous 2-inch wide bead to metal, one 2x7 paddy to tile underside, centered along tile length sandwiched together	138	148
	Clay	PolyPro AH160	2 x 7	Min. 38	Tile-to-metal, centered along tile length	230	307
			Two at Min 2 x 7	Min. 15 each	One 2x7 paddy or continuous 2-inch wide bead to metal, one 2x7 paddy to tile underside, centered along tile length sandwiched together	159	181
Trim Lock Plus Channel Metal	Concrete	PolyPro AH160	Two at Min 2 x 7	Min. 15 each	One 2x7 paddy or continuous 2-inch wide bead to metal, one 2x7 paddy to tile underside, centered along tile length sandwiched together	138	148
	Clay	PolyPro AH160	Two at Min 2 x 7	Min. 15 each	One 2x7 paddy or continuous 2-inch wide bead to metal, one 2x7 paddy to tile underside, centered along tile length sandwiched together	159	181

[1] *Determined in accordance with RAS 127 or ASCE 7-10 per FBC 1609.5.3 and 1609.1.5 for Zones 2 and 3.*

5.2 FOR NON-HVHZ JURISDICTIONS:

5.2.1 For Hip & Ridge Channel Metal or Trim Lock Channel Metal, refer to "Instructions for Hip and Ridge Attachment" sections of the FRSA/TRI 07320/8-05. For Trim Lock Plus Channel Metal, refer to the installation instructions herein

5.2.2 For non-HVHZ, installations are limited to projects having hip/ridge design pressure requirements[2] not greater than the following values. Refer to the tile adhesive manufacturer's published installation instructions for Adhesive Paddy Placement details.

- "Interdependent" paddy placement means each individual tile is bonded to the Channel Metal in a foam paddy, and a second foam paddy bonds the tile head lap, or two tiles are bonded to the Channel Metal using a single foam paddy.
- "Independent" paddy placement means each individual tile is bonded to the Channel Metal in its own, single foam paddy; tile head laps are not bonded.

Table 2A: Performance Limitations – non-HVHZ - Maximum Design Pressure – (psf)
Interdependent Foam-Paddy Placement

Channel Type	Tile Type	Foam Adhesive	Foam Paddy Information			MDP (psf)
			Approx. Size (inch)	Approx. Wt (grams)	Placement	
Trim Lock Channel Metal	Concrete	PolyPro AH160	2 x 4	9.7	Tile-to-metal, 3" from tile head	103
			4 x 2	9.7	Tile-to-tile at 3" tile headlap	
		Polyset ONE	2 x 4	6.0	Tile-to-metal, 3" from tile head	100
			4 x 1	4.7	Tile-to-tile at 3" tile headlap	
	Clay	PolyPro AH160	2 x 4	9.7	Tile-to-metal, 3" from tile head	140
			4 x 2	9.7	Tile-to-tile at 3" tile headlap	
		Polyset ONE	2 x 4	6.0	Tile-to-metal, 3" from tile head	105
			4 x 1	4.7	Tile-to-tile at 3" tile headlap	

Table 2B: Performance Limitations – non-HVHZ - Maximum Design Pressure – (psf)
Independent Paddy Placement

Channel Type	Tile Type	Foam Adhesive	Foam Paddy Information			MDP (psf)
			Approx. Size (inch)	Approx. Wt (grams)	Placement	
Hip & Ridge Channel Metal	Concrete	PolyPro AH160	2 x 8	Min. 30	Tile-to-metal, shared paddy starting 4-inch below the head of the 1st course and ending 4-inch beyond the tail of the overlapping tile	169
Trim Lock Channel Metal	Concrete	PolyPro AH160	2 x 7	Min. 38	Tile-to-metal, centered along tile length	197
			Two at Min 2 x 7	Min. 15 each	One 2x7 paddy or continuous 2-inch wide bead to metal, one 2x7 paddy to tile underside, centered along tile length sandwiched together	140
	Clay	PolyPro AH160	2 x 7	Min. 38	Tile-to-metal, centered along tile length	368
			Two at Min 2 x 7	Min. 15 each	One 2x7 paddy or continuous 2-inch wide bead to metal, one 2x7 paddy to tile underside, centered along tile length sandwiched together	181
Trim Lock Plus Channel Metal	Concrete	PolyPro AH160	Two at Min 2 x 7	Min. 15 each	One 2x7 paddy or continuous 2-inch wide bead to metal, one 2x7 paddy to tile underside, centered along tile length sandwiched together	140
	Clay	PolyPro AH160	Two at Min 2 x 7	Min. 15 each	One 2x7 paddy or continuous 2-inch wide bead to metal, one 2x7 paddy to tile underside, centered along tile length sandwiched together	181

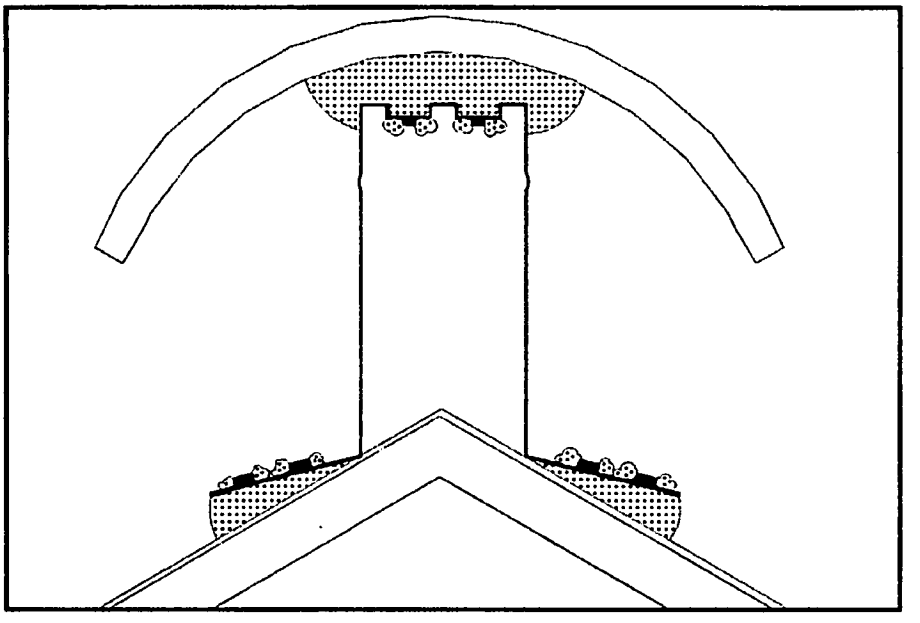
[2] *Determined in accordance with FBC 1609.1.5.*

6. INSTALLATION:

6.1 The roof deck shall be minimum 15/32-inch plywood (non-HVHZ) or minimum 19/32-inch plywood (HVHZ) attached in accordance with FBC Chapter 23 to the satisfaction of the AHJ.

6.2 Hip & Ridge Channel Metal and Trim Lock Channel Metal shall be installed using min. 11 ga. x 1¼-inch long x 3/8-inch head diameter galvanized annular ring shank nails spaced 6-inch o.c. along both deck-flanges. Fasteners shall be positioned ¾-inch from the outside edge of each deck-flange, set in a bed plastic roof cement. For FBC HVHZ, refer to FBC RAS 118, Drawing 13, Detail 3; RAS 119, Drawing 12, Detail 3; or RAS 120, Drawing 15, Detail 3.

6.3 Trim Lock Plus Channel Metal shall be installed atop the Approved roof underlayment in continuous 2-inch wide ribbons of Polyset AH160 centered beneath each 1.5-inch wide deck flange, approximately 16 grams/ft. Place the Trim Lock Plus Channel Metal into the wet adhesive and allow to set prior to installation of roof tiles.

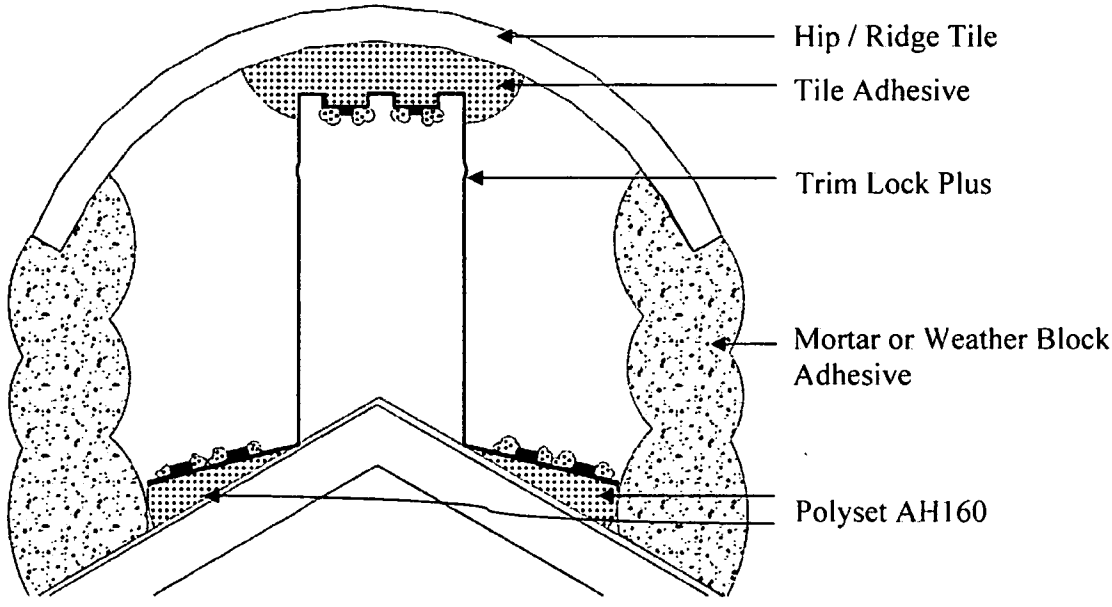


View of Polyset AH160 Placement for Trim Lock Plus Channel Metal Installation

6.3.1 It is critical that the bond between the Trim Lock Plus Channel Metal, the Polyset AH160 and the underlayment is not disturbed prior to or during placement of the ridge tiles.

6.3.2 Approved underlayments are the codified '30/90' system or other FBC Approved roof underlayments listing approved use of Polyset AH160.

6.4 Tile shall be installed atop the Channel Metal in accordance with the tile adhesive manufacturer's Approved, published installation instructions, subject to the limitations outlined in Section 5 herein. When using Polyfoam Products' tile adhesive, the hip/ridge tile installation shall result in minimum 30 square inches of contact area on the underside of the tile, as measured 3-inch down from the head of the tile to the tile overlap. The exposed edges shall be packed and pointed with Approved mortar or weather blocking adhesive in accordance with FRSA/TRI 07320/8-05 or RAS 118, RAS 119, RAS 120 requirements.



View of Trim Lock Plus Channel Metal Installation after Weather Blocked

6.4.1 Channel Metal shall be free of dust, debris, oils or other bond-breaking substance prior to placement of adhesive.

7. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction in order to properly evaluate the installation of this product.

8. MANUFACTURING PLANTS:

Contact the named QA entity for manufacturing facilities covered by F.A.C. Rule 9N-3 QA requirements.

9. QUALITY ASSURANCE ENTITY:

Architectural Testing, Inc. – QUA1844
(717) 764-7700

- END OF EVALUATION REPORT -

TRINITY | ERD

EXTERIOR RESEARCH & DESIGN, LLC.
Certificate of Authorization #9503
353 CHRISTIAN STREET, UNIT #13
OXFORD, CT 06478
PHONE: (203) 262-9245
FAX: (203) 262-9243

EVALUATION REPORT

Polyglass USA, Inc.
150 Lyon Drive
Fernley, NV 98408

Evaluation Report P12060.02.09-R13
FL5259-R18
Date of Issuance: 02/24/2009
Revision 13: 04/26/2013

SCOPE:
This Evaluation Report is issued under Rule 9N-3 and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code and Florida Building Code, Residential Volume. The products described herein have been designed to comply with the 2010 Florida Building Code sections noted herein.

DESCRIPTION: Polyglass Roof Underlayments

LABELING: Each unit shall bear labeling in accordance with the requirements the Accredited Quality Assurance Agency noted herein.

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. if the product changes or the referenced Quality Assurance documentation changes. Trinity|ERD requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Evaluation Report number preceded by the words "Trinity|ERD Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 10.

Prepared by:

Robert J.M. Nieminen, P.E.
Florida Registration No. 59166, Florida DCA ANE1983

The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 04/26/2013
This does not serve as an electronically signed document. Signed, sealed hardcopies have been transmitted to the Product Approval Administrator and to the named client

CERTIFICATION OF INDEPENDENCE:
1. Trinity|ERD does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. Trinity|ERD is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

REVIEWED AND APPROVED!

Architectural Studio, Inc.

Signature _____ Date 12/23/14

ROOFING COMPONENT EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Underlayment
Compliance Statement: Roof Underlayments, as produced by Polyglass USA, Inc., have demonstrated compliance with the following sections of the Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

Section	Property	Standard	Year
1507.2.3, 1507.3.3, 1507.5.3, 1507.7.3, 1507.8.3, 1507.9.3	Physical Properties	ASTM D226	2006
1507.2.4, 1507.2.9.2, 1507.3.3, 1507.5.3	Physical Properties	ASTM D1970	2001
1507.11.2	Physical Properties	ASTM D6164	2005
1507.11.2	Physical Properties	ASTM D6222	2002
1504.6	Accelerated Weathering	ASTM G154	2005
1504.6	Accelerated Weathering	ASTM G155	2005
1504.3.1	Wind Uplift	FM 4474	2004
1507.3.3	Installation Practice	FRSA/TRI 07320	2005
1523.6.5.2.1	Physical Properties	TAS 103	1995

3. REFERENCES:

Entity	Examination	Reference	Date
FM Approvals (TST 1867)	Wind Uplift	3004091	01/12/2000
PRI (TST 5878)	Physical Properties	PRI01111	04/08/2002
PRI (TST 5878)	Physical Properties	PUSA-005-02-01	01/31/2002
PRI (TST 5878)	Physical Properties	PUSA-013-02-01	12/23/2002
PRI (TST 5878)	Physical Properties	PUSA-013-02-02	12/23/2002
PRI (TST 5878)	Physical Properties	PUSA-013-02-03	12/23/2002
PRI (TST 5878)	Physical Properties	PUSA-018-02-01	07/14/2003
PRI (TST 5878)	Physical Properties	PUSA-028-02-01	07/13/2005
PRI (TST 5878)	Physical Properties	PUSA-033-02-01	01/12/2006
PRI (TST 5878)	Physical Properties	PUSA-035-02-01	09/29/2006
PRI (TST 5878)	Physical Properties	PUSA-055-02-02	12/10/2007
PRI (TST 5878)	Physical Properties	PUSA-061-02-02	01/28/2008
PRI (TST 5878)	Physical Properties	PUSA-076-02-01	02/22/2008
PRI (TST 5878)	Physical Properties	PUSA-083-02-01	04/14/2008
PRI (TST 5878)	Physical Properties	PUSA-088-02-01	07/29/2009
MTI (TST 2508)	Physical Properties	JX20H7A	04/01/2008
MTI (TST 2508)	Physical Properties	RX14E8A	01/29/2009
ERD (TST 6049)	Physical Properties	11752.09.99-1	02/08/2000
ERD (TST 6049)	Wind Uplift	11776.06.02	01/16/2003
ERD (TST 6049)	Physical Properties	02200.07.03	07/14/2003
ERD (TST 6049)	Wind Uplift	P1740.01.07	01/04/2007
ERD (TST 6049)	Physical Properties	P5110.04.07-1	04/11/2007
ERD (TST 6049)	Wind Uplift	P9260.03.08	03/21/2008
ERD (TST 6049)	Physical Properties	P13450.08.09	08/13/2009
ERD (TST 6049)	Wind Uplift	P30540.11.09-R1	11/30/2009
ERD (TST 6049)	Physical Properties	P11030.11.09-1	11/30/2009
ERD (TST 6049)	Wind Uplift	P11030.11.09-2	11/30/2009
ERD (TST 6049)	Physical Properties	P11030.11.09-3	11/30/2009
ERD (TST 6049)	Physical Properties	P33360.06.10	06/25/2010
ERD (TST 6049)	Physical Properties	P33370.03.11	03/02/2011
ERD (TST 6049)	Physical Properties	P33370.04.11	04/26/2011
ERD (TST 6049)	Physical Properties	P37300.10.11	10/19/2011
ERD (TST 6049)	Physical Properties	P40390.08.12-1	08/06/2012
ERD (TST 6049)	Physical Properties	P40390.08.12-2	08/07/2012
ERD (TST 6049)	Physical Properties	C41420.09.12-3	09/11/2012
ERD (TST 6049)	Physical Properties	P45370.04.13	04/26/2013
ICC-ES (EVL 2396)	IBC Compliance	ESR-1697	09/01/2012
Miami-Dade (CER 1592)	HVHZ Compliance	NOA 12-0713.02	02/14/2013
Polyglass USA	Manufacturing Affidavit	Products Current	02/18/2009
Polyglass USA	P/L Affidavit	Mule-Hide Cross Ltg	03/01/2008

4. PRODUCT DESCRIPTION:

4.1 **Mechanically Fastened Underlayments:**

4.1.1 Elastobase is a fiberglass reinforced, SBS modified bitumen base sheet.

4.1.2 Elastobase P is a polyester-reinforced, SBS modified bitumen base sheet.

4.2 **Self-Adhering Underlayments:**

4.2.1 Polystick MTS is a nominal 60-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, surfaced with polyolefinic film surface; meets ASTM D1970 and TAS 103.

4.2.2 Polystick IR-Xe is a nominal 60-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, with an aggregate surface; meets ASTM D1970.

4.2.3 Polystick TU is a nominal 100-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, with a granular surface; meets ASTM D1970 and TAS 103.

4.2.4 Polystick TU Plus is a nominal 80-mil thick rubberized asphalt waterproofing membrane, glass fiber reinforced, with a polyester fabric surface; meets ASTM D1970 and TAS 103.

4.2.5 Polystick TU P is a nominal 130-mil thick rubberized asphalt waterproofing membrane, glass-fiber/polyester reinforced, with a granular surface; meets ASTM D1970 and TAS 103.

4.2.6 Polystick TU Max is a nominal 60-mil thick rubberized asphalt waterproofing membrane with a 170 g/m^2 polyester fabric surface; meets TAS 103.

4.2.7 Polyflex SAP, PolyFlex SAP FR, Mule-Hide SA-APP Cap Sheet and Mule-Hide SA-APP Cap Sheet (FR) are a polyester reinforced, APP modified bitumen cap sheets.

4.2.8 Dual Pro™ is a nominal 60-mil thick dual-layer rubberized asphalt waterproofing membrane, fiberglass reinforced, with a polyester fabric surface.

4.2.9 Tile Pro™ is a nominal 60-mil thick dual-layer rubberized asphalt waterproofing membrane, fiberglass reinforced, with a polyester fabric surface.

4.3 **Mechanically Fastened and/or Bonded Underlayments:**

4.3.1 Elastoflex S6 G and Elastoflex S6 G FR are polyester reinforced, SBS modified bitumen cap sheets.

4.3.2 Polyflex G and Polyflex G FR are polyester reinforced, APP modified bitumen cap sheets.

5. LIMITATIONS:

5.1 This Evaluation Report is not for use in the HVHZ.

5.2 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory for fire ratings of this product.

5.3 Polyglass Roof Underlayments may be used with any prepared roof cover where the product is specifically referenced within FBC approval documents. If not listed, a request may be made to the AHJ for approval based on this evaluation combined with supporting data for the prepared roof covering.

5.4 Allowable roof covers applied atop the underlayments are as follows:

Table 1: Roof Cover Options						
Underlayment	**Asphalt Shingles**	**Nail-On Tile**	**Foam-On Tile**	**Metal**	**Wood Shakes & Shingles**	**Slate**
Elastobase	Yes	Yes	No	Yes	Yes	Yes
Elastobase P	Yes	Yes	No	Yes	Yes	Yes
Polystick MTS	Yes	Yes	No	Yes	Yes	Yes
Polystick IR-Xe	Yes	No	No	No	Yes	Yes
Polystick TU	Yes	Yes	Yes See 5.4.1	No	Yes	Yes
Polystick TU P	Yes	Yes	Yes See 5.4.1	No	Yes	Yes
Polystick TU Plus	Yes	Yes	Yes See 5.4.1	Yes	Yes	Yes
Polystick TU Max	No	Yes	Yes See 5.4.1	No	No	No
Dual Pro	Yes	Yes	No	Yes	Yes	Yes
Tile Pro	Yes	Yes	Yes See 5.4.1	Yes	Yes	Yes
Elastoflex S6 G	Yes	Yes	Yes See 5.4.1	No	Yes	Yes
Elastoflex S6 G FR	Yes	Yes	No	No	Yes	Yes
Polyflex G	Yes	Yes	Yes See 5.4.1	No	Yes	Yes
Polyflex G FR	Yes	Yes	No	No	Yes	Yes
Polyflex SAP or SAP FR	Yes	Yes	Yes See 5.4.1	No	Yes	Yes
Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR)	Yes	Yes	Yes See 5.4.1	No	Yes	Yes

5.4.1 "Foam-On Tile" is limited to use of the following Approved tile adhesives unless tensile adhesion / long term aging data from an accredited testing laboratory is provided.

- **Polyfoam PolyPro AH160:** Polystick TU, Polystick TU P, Polystick TU Plus, Elastoflex S6 G, Polyflex G, Polyflex SAP, Polyflex SA Cap FR, Mule-Hide SA-APP Cap Sheet or Mule-Hide SA-APP Cap Sheet (FR) or Tile Pro.
- **3M™ 2-Component Roof Tile Adhesive AH-160:** Polystick TU Max
- **Dow TileBond:** Polystick TU P, Polystick TU Plus, Polyflex SAP or Tile Pro
- **Convenience Products' Touch 'n Seal StormBond Roof Tile Adhesive:** Polystick TU Plus, Polystick TU Max

5.4.2 For nail-on tile systems over Polystick MTS, battens are required for loading / staging of the tile.

5.4.3 A 2-ply underlayment system, consisting of Polystick MTS followed by Polystick MTS, TU, TU P, TU Plus or TU Max, or Polyflex SAP is allowable for use under mechanically attached prepared roof systems. This is not a requirement, but is allowable if a 2-ply underlayment system is desired.

5.5 Allowable substrates are noted below:

5.5.1 Direct-Bond to Deck:

Polystick (all variations), Dual Pro, Tile Pro, Polyflex SAP or SAP FR, Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR) self-adhered to:

- New untreated plywood;
- ASTM D41 primed new untreated plywood;
- Existing plywood;
- ASTM D41 primed existing plywood;
- New or existing, unprimed OSB;
- ASTM D41 primed OSB;
- Southern Yellow Pine;
- ASTM D41 primed Southern Yellow Pine;
- ASTM D41 primed structural concrete;
- Huber Engineered Woods "ZIP System" Panels (designed and installed to meet wind loads for project).

Note: Polyglass does not require priming of new or existing plywood or OSB sheathing. New or existing plywood or OSB sheathing should be cleaned of all dirt and debris prior to application of Polystick membranes.

Elastoflex S6 G or S6 G FR in hot asphalt to:

- ASTM D41 primed structural concrete.

Polyflex G or G FR torch-applied to:

- ASTM D41 primed structural concrete.

5.5.2 Wind Resistance for Underlayment Systems in Foam-On Tile Applications: FRSA/TRI 07320 does not address wind uplift resistance of all underlayment systems beneath foam-on tile systems, where the underlayment forms part of the load-path. The following wind uplift limitations apply to underlayment systems that are not addressed in FRSA/TRI 07320 and are used in foam-on tile applications. Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609.1.5 for determination of design wind pressures.

5.5.2.1 Maximum Design Pressure = -622.5 psf.

Deck:	Structural concrete to meet project requirements to satisfaction of AHJ.
Primer:	ASTM D41
Underlayment:	Elastoflex S6 G, applied in full mopping of hot asphalt or Polyflex G, torch-applied.

5.5.2.2 Maximum Design Pressure = -315 psf.

Deck:	Structural concrete to meet project requirements to satisfaction of AHJ.
Primer:	ASTM D41
Underlayment:	Polystick TU, Polystick TU P, Polystick TU Plus, Polystick TU Max, Tile Pro, Polyflex SAP, PolyFlex SAP FR, Mule-Hide SA-APP Cap Sheet and Mule-Hide SA-APP Cap Sheet (FR).

5.5.2.3 Maximum Design Pressure = -135 psf.

Deck:	Min. 15/32-inch plywood to meet project requirements to satisfaction of AHJ.
Primer:	(Optional) ASTM D41
Joints:	Min. 4-inch wide strips of Elastoflex SA-V over all plywood joints.
Underlayment:	Polystick TU, Polystick TU P, Polystick TU Plus, Polyflex SAP, PolyFlex SAP FR, Mule-Hide SA-APP Cap Sheet and Mule-Hide SA-APP Cap Sheet (FR)

5.5.2.4 Maximum Design Pressure = -90 psf.

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of AHJ.

Primer: (Optional) ASTM D41

Underlayment: Polystick TU, Polystick TU P, Polystick TU Plus, Polyflex SAP, PolyFlex SAP FR, Mule-Hide SA-APP Cap Sheet and Mule-Hide SA-APP Cap Sheet (FR)

5.5.2.5 All other direct-deck, adhered Polyglass underlayment systems beneath foam-on tile systems carry a Maximum Design Pressure of -45 psf.

5.5.3 Bond-to-Insulation:

- Polystick, Polyflex SAP or SAP FR, Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR) self-adhered to: ASTM C1289, Type II, Class 1 polyisocyanurate or Type V polyisocyanurate-composite insulation; DensDeck DuraGuard; DensDeck Prime; or SECUROCK Gypsum-Fiber Roof Board.
- Elastoflex S6 G or S6 G FR in hot asphalt to: DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board.
- Polyflex G or G FR torch-applied to: ASTM D41 primed structural concrete; DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board.

For installation under mechanically attached prepared roof coverings, insulation shall be attached per minimum requirements of the prepared roof covering manufacturer's Product Approval. For installations under foam-on tile systems, insulation attachment shall be designed by a qualified design professional and installed based on testing of the insulation/underlayment system in accordance with FM 4470, Appendix K or TAS 114, Appendix J.

5.5.4 Bond to Mechanically Attached Base Layer:

- Polystick, Polyflex SAP or SAP FR, Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR) Dual Pro or Tile Pro self-adhered to: ASTM D226, Type I or II felt; Elastobase; Elastobase P or Mule-Hide Nail Base.
- Elastoflex S6 G or S6 G FR in hot asphalt to: ASTM D226, Type I or II felt; Elastobase; Elastobase P or Mule-Hide Nail Base.
- Polyflex G or G FR torch-applied to: Elastobase; Elastobase P or Mule-Hide Nail Base.

For installations under mechanically attached prepared roof coverings, base layer shall be attached per minimum codified requirements. For installations under foam-on tile systems, base layer shall be attached per minimum requirements of FRSA/TRI 07320/8-05 or RAS 120.

5.6 Exposure Limitations:

5.6.1 Elastobase, Elastobase P, shall not be left exposed for longer than 30-days after installation.

5.6.2 Polystick IR-Xe, Polystick TU Max, Dual Pro or Tile Pro shall not be left exposed for longer than 90-days after installation.

5.6.3 Polystick MTS, TU, TU P or TU Plus shall not be left exposed for longer than 180-days after installation.

5.6.4 Polyflex SAP or SAP FR, or Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR) does not have an exposure limitation, unless the prepared roof covering is to be adhesive-set tile, in which case the maximum exposure is 30 days.

5.6.5 Elastoflex S6 G or S6 G FR or Polyflex G or G FR does not have an exposure limitation, unless the prepared roof covering is to be adhesive-set tile (Elastoflex S6 G or Polyflex G), in which case the maximum exposure is 180 days.

5.7 For tile roof installations governed by the FRSA/TRI 07320/8-05 Installation Manual, Fourth Edition, use is limited to the following. Reference is made to the FRSA/TRI Technical Brief titled "Florida High Wind Roof Tile Self-Adhered Underlayment Requirements as of 02/14/2011" for limitations for self-adhering underlayments used beneath tile roof systems.

Table 2: Tile System Options per FRSA/TRI 07320/8-05

System	Underlay Option	Section	Reference	Product(s)
System One: Mechanically Fastened Tile, Unsealed or Sealed Underlayment System	1	3.02A Batten only	Modified Cap Sheet	Elastoflex S6 G or Elastoflex S6 G FR; Polyflex G or G FR
	2	3.02B	No. 30 / Modified Cap Sheet	Base Layer: Elastobase; Elastobase P Top Layer: Elastoflex S6 G or Elastoflex S6 G FR; Polyflex G or G FR
	4	3.02D	No. 30	Elastobase; Elastobase P
	5	3.02E	Self-Adhered Underlayment	Polystick MTS; TU; TU P; TU Plus; TU Max; Polyflex SAP or SAP FR; Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR); Dual Pro; Tile Pro
	6	3.02F	No. 30 / Self-Adhered Underlayment	Base Layer: ASTM D226, Type II; Elastobase; Elastobase P; Mule-Hide Nail Base Top Layer: Polystick MTS; TU; TU P; TU Plus; TU Max; Polyflex SAP or SAP FR, Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR); Dual Pro; Tile Pro
System Two: Mechanically Fastened Tile, Sealed Underlayment System	1	3.02A Batten only	Modified Cap Sheet	Elastoflex S6 G or Elastoflex S6 G FR; Polyflex G or G FR
	2	3.02B	No. 30 / Modified Cap Sheet	Base Layer: Elastobase; Elastobase P Top Layer: Elastoflex S6 G or Elastoflex S6 G FR; Polyflex G or G FR
	4	3.02D	Self-Adhered Underlayment	Polystick TU; TU P; TU Plus; TU Max; Polyflex SAP or SAP FR; Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR); Dual Pro; Tile Pro
	5	3.02E	No. 30 / Self-Adhered Underlayment	Base Layer: ASTM D226, Type II; Elastobase; Elastobase P; Mule-Hide Nail Base Top Layer: Polystick TU; TU P; TU Plus; TU Max; Polyflex SAP or SAP FR, Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR) Dual Pro; Tile Pro
System Four "A": Adhesive-Set Tile, Unsealed or Sealed Underlayment System	1	3.02A	Modified Cap Sheet	Elastoflex S6 G or Polyflex G
	2	3.02B	No. 30 / Modified Cap Sheet	Base Layer: Elastobase; Elastobase P Top Layer: Elastoflex S6 G or Polyflex G
	4	3.02D	Self-Adhered Underlayment	Polystick TU; TU P; TU Plus; TU Max; Polyflex SAP or SAP FR; Tile Pro; Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR)
	5	3.02E	No. 30 / Self-Adhered Underlayment	Base Layer: ASTM D226, Type II; Elastobase; Elastobase P; Mule-Hide Nail Base Top Layer: Polystick TU; TU P; TU Plus; TU Max; Polyflex SAP or SAP FR; Tile Pro; Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR)
System Four "B": Adhesive-Set Tile, Sealed Underlayment System	1	3.02A	No. 30 / Modified Cap Sheet	Base Layer: ASTM D226, Type II; Elastobase; Elastobase P Top Layer: Elastoflex S6 G or Polyflex G
	3	3.02C	Self-Adhered Underlayment	Polystick TU; TU P; TU Plus; TU Max; Polyflex SAP or SAP FR; Tile Pro; Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR)
	4	3.02D	No. 30 / Self-Adhered Underlayment	Base Layer: ASTM D226, Type II; Elastobase; Elastobase P; Mule-Hide Nail Base Top Layer: Polystick TU; TU P; TU Plus; TU Max; Polyflex SAP or SAP FR; Tile Pro; Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR)

6. INSTALLATION:

6.1 Polyglass Roof Underlayments shall be installed in accordance with Polyglass published installation requirements subject to the Limitations set forth in Section 5 herein and the specifics noted below.

6.2 Re-fasten any loose decking panels, and check for protruding nail heads. Sweep the substrate thoroughly to remove any dust and debris prior to application, and prime the substrate (if applicable).

6.3 Elastobase, Elastobase P or Mule-Hide Nail Base:

6.3.1 Shall be installed in compliance with the codified requirements for ASTM D226, Type II underlayment in FBC Sections 1507 for the type of prepared roof covering to be installed.

6.3.2 For use in non-tile applications:

6.3.2.1 Reference is made to the current edition of the NRCA Steep-slope Roofing Manual and ARMA recommendations for installing shingle underlayments and flashings

6.3.2.2 Elastobase, Elastobase P or Mule-Hide Nail Base may be covered with a layer of Polystick, Polyflex SAP or SAP FR, Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR), Dual Pro or Tile Pro, self-adhered, Elastoflex S6 G or S6 G FR in hot asphalt or Polyflex G or G FR, torch applied.

6.3.3 For use in tile applications, reference is made to Polyglass published installation instructions in conjunction with FRSA/TRI 07320/8-05 Installation Manual, Fourth Edition, and Table 2 herein.

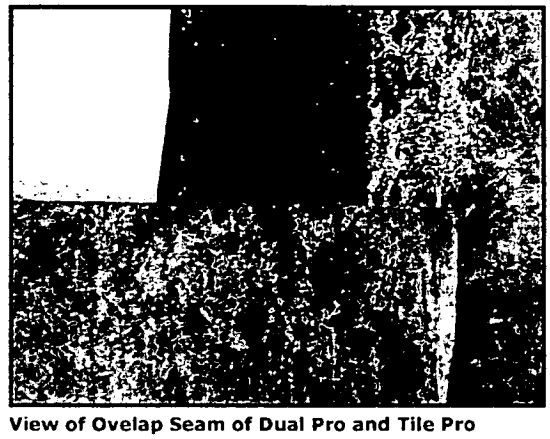
6.4 Polystick MTS, IR-Xe, TU, TU P, TU Plus, TU Max Polyflex SAP or SAP FR, Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR), Dual Pro or Tile Pro:

6.4.1 Shall be installed in compliance with the codified requirements for ASTM D1970 underlayment in FBC Sections 1507 for the type of prepared roof covering to be installed.

6.4.2 For non-tile applications:

6.4.2.1 All self-adhering materials, with the exception of Polystick TU Plus, Polyflex SAP or SAP FR and Mule-Hide SA-APP Cap Sheet or SA-APP Cap Sheet (FR) should be back-nailed in selvage edge seam in accordance with Polyglass / Mule-Hide Back Nailing Guide. Nails shall be corrosion resistant, 11 gauge ring-shank type with a minimum 1-inch diameter metal disk or Simplex-type metal cap nail, at a minimum rate of 12" o.c. Polystick TU Plus should be back-nailed using the above noted fasteners and spacing, in area marked "nail area, area para clavar" on the face of membrane. The head lap membrane is to cover the area being back-nailed

6.4.2.2 All seal-lap seams (selvage laps) must be firmly rolled with a minimum 28 lb. hand roller to ensure full contact and adhesion. For Dual Pro and Tile Pro, align the edge of the top sheet to the end of the glue pattern (the sheet will overlap the fabric).



View of Ovelap Seam of Dual Pro and Tile Pro

6.4.2.3 All over-fabric and over-granule end-laps shall have a 6-inch wide, uniform layer of Polyglass Polyplus 55 Premium Modified Flashing Cement, Polyglass Polyplus 50 Premium MB Flashing Cement, Polyglass PG500 MB Flashing Cement, Polystick TU Plus Tile Underlayment Flashing Cement, Mule-Hide 241 Premium Modified Flashing Cement, Mule-Hide 251 Premium Wet/Dry Electrometric Flashing Cement, or Mule-Hide 421 Mod Bit Flashing Adhesive Trowel Grade mastic, applied in between the application of the lap.

6.4.2.4 Polystick TU Plus, Dual Pro and Tile Pro may not be used in any exposed application such as crickets, exposed valleys, or exposed roof to wall details

6.4.2.5 Repair of Polystick membranes is to be accomplished by applying Polyglass Polyplus 55 Premium Modified Flashing Cement, Polyglass Polyplus 50 Premium MB Flashing Cement, Polyglass PG500 MB Flashing Cement, Polystick TU Plus Tile Underlayment Flashing Cement, Mule-Hide 241 Premium Modified Flashing Cement, Mule-Hide 251 Premium Wet/Dry Elastomeric Flashing Cement, or Mule-Hide 421 Mod Bit Flashing Adhesive Trowel Grade mastic to the area in need of repair, followed by a minimum 6 x 6 inch patch of the Polystick material of like kind, set and hand rolled in place over the repair area. Patch laps, if needed, shall be installed in a water shedding manner.

6.4.2.6 All Polystick membranes shall be installed to ensure full contact with approved substrates. Polyglass requires a minimum of 40-lb weighted-roller or, on steep slopes, use of a stiff broom with approximately 40-lbs of load applied for the field membrane. Hand rollers are acceptable for rolling of patches, laps (min. 28 lb roller) or small areas of the roof that are not accessible to a large roller or broom.

6.4.3 For tile applications *(not allowed for Polystick IR-Xe)*:

6.4.3.1 Reference is made to Section 6.4.2 herein in conjunction with FRSA/TRI 07320/8-05 Installation Manual, Fourth Edition, and Table 2 herein, using the instructions noted above as a guideline.

6.4.3.2 For nail-on tile systems over Polystick MTS, battens are required for loading / staging of the tile.

6.5 Elastoflex S6 G or S6 G FR:

6.5.1 Elastoflex S6 G or S6 G FR shall be installed in compliance with current Polyglass published installation requirements. For use in tile applications, reference is made to FRSA/TRI 07320/8-05 Installation Manual, Fourth Edition, and Table 2 herein.

6.5.2 Elastoflex S6 G or S6 G FR shall be fully asphalt-applied to the substrates noted in Section 5.5. Side laps shall be minimum 3-inch and end-laps minimum 6-inch wide, and off set end-laps minimum 3 feet from course to course. Side and end laps shall be fully adhered in a complete mopping of hot asphalt with asphalt extending approximately 3/8-inch beyond the lap edge.

6.6 Polyflex G or G FR:

6.6.1 Polyflex G or G FR shall be installed in compliance with current Polyglass published installation requirements. For use in tile applications, reference is made FRSA/TRI 07320/8-05 Installation Manual, Fourth Edition, and Table 2 herein.

6.6.2 Polyflex G or G FR shall be fully torch-applied to the substrates noted in Section 5.5. Side laps shall be minimum 3-inch and end-laps minimum 6-inch wide, and off set end-laps minimum 3 feet from course to course. Side and end laps shall be fully heat-welded and inspected to ensure minimum 3/8-inch flow of modified compound beyond the lap edge.

6.7 Tile Staging:

6.7.1 Tile shall be loaded and staged in a manner that prevents tile slippage and/or damage to the underlayment. Refer to Polyglass published requirements for tile staging.

6.7.2 Battens and/or Counter-battens, as required by the tile manufacturer and FRSA/TRI 07320/8-05 must be used on all roof slopes greater than 7:12. Precautions should be taken as needed, such as the use of battens or nail-boards, to prevent tile sliding and/or damage to the underlayment during the loading process.

6.7.3 For nail-on tile systems over Polystick MTS, battens are required for loading / staging of the tile.

6.7.4 The minimum cure time after installation of self-adhering membranes and before loading of roofing tiles is forty-eight (48) hours.

7. LABELING:

Each unit shall bear a permanent label with the manufacturer's name, logo, city, state and logo of the Accredited Quality Assurance Agency noted herein.

8. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction in order to properly evaluate the installation of this product.

9. MANUFACTURING PLANTS:

Contact the noted QA agency for information on product locations covered for F.A.C. Rule 9N-3 QA requirements.

10. QUALITY ASSURANCE ENTITY:

UL, LLC – QUA9625; (314) 578-3406; k.chancellor@us.ul.com

- END OF EVALUATION REPORT -

TRINITY | ERD

EXTERIOR RESEARCH & DESIGN, LLC.
Certificate of Authorization #9503
353 CHRISTIAN STREET, UNIT #13
OXFORD, CT 06478
PHONE: (203) 262-9245
FAX: (203) 262-9243

EVALUATION REPORT

Entegra Roof Tile, Inc.
1289 NE 9th Avenue
Okeechobee, FL 34972

Evaluation Report E39310.11.11-2-R1
FL7804-R7
Date of Issuance: 11/02/2011
Revision 1: 06/22/2012

SCOPE:
This Evaluation Report is issued under Rule 9N-3 and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code and Florida Building Code, Residential Volume. The products described herein have been designed to comply with the 2010 Florida Building Code (non-HVHZ) sections noted herein.

DESCRIPTION: Entegra Concrete Roof Tiles (non-HVHZ jurisdictions)

LABELING: Each unit shall bear labeling in accordance with the requirements the Accredited Quality Assurance Agency noted herein.

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. if the product changes or the referenced Quality Assurance documentation changes. Trinity|ERD requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Evaluation Report number preceded by the words "Trinity|ERD Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 4.

Prepared by:

Robert J.M. Nieminen, P.E.
Florida Registration No. 59166, Florida DCA ANE1983

The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 06/22/2012
This does not serve as an electronically signed document. Signed, sealed hardcopies have been transmitted to the Product Approval Administrator and to the named client

CERTIFICATION OF INDEPENDENCE:
1. Trinity|ERD does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. Trinity|ERD is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

REVIEWED AND APPROVED!

Architectural Studio, Inc.

Signature _____ Date 12/23/14

TRINITY ERD

ROOFING SYSTEM EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Roofing Tiles
Compliance Statement: Entegra Concrete Roof Tiles, as produced by Entegra Roof Tile, Inc., have demonstrated compliance with the following sections of the Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

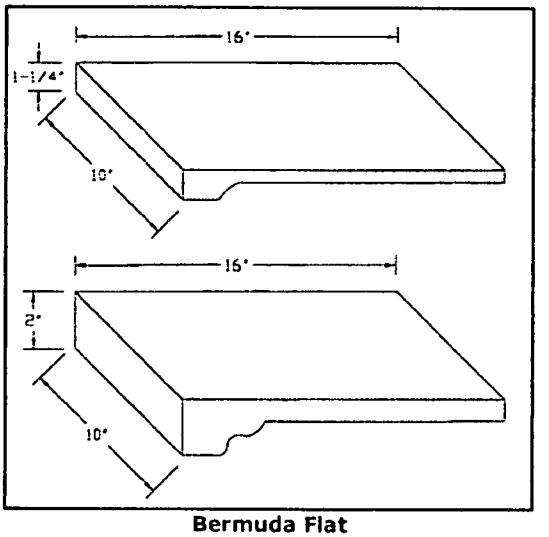
Code	Section	Property	Standard	Year
2007 & 2010	1507.3.5	Physical Properties	ASTM C1492	2003
2007 & 2010	1507.3.7	Attachment Requirements	FRSA/TRI 07320/8	2005
2007	1715.2.1	Overturning Moment	SSTD 11	1997
2010	1716.2.1	Overturning Moment	SSTD 11	1997

3. REFERENCES:

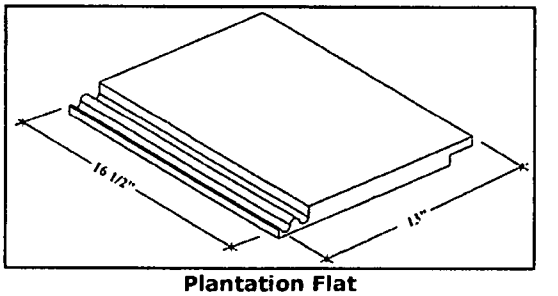
Entity	Examination	Reference	Date
PRI (TST5878)	ASTM C1492	ESI-001-02-01	11/06/2006
PRI (TST5878)	ASTM C1492	ESI-002-02-01	11/06/2006
PRI (TST5878)	ASTM C1492	ESI-003-02-01	11/06/2006
PRI (TST5878)	ASTM C1492	ESI-004-02-01	11/06/2006
PRI (TST5878)	ASTM C1492	ESI-005-02-01	12/12/2006
ATL (TST3782)	ASTM C1492	RT0615.01-11	06/28/2011
ATL (TST3782)	ASTM C1492	RT0615.02-11	06/28/2011
ATL (TST3782)	ASTM C1492	RT0615.03-11	06/28/2011
ATL (TST3782)	ASTM C1492	RT0615.04-11	06/28/2011
ATL (TST3782)	ASTM C1492	RT0615.05-11	06/28/2011
Tile Roof Institute	SSTD 11	Membership Confirmation	Current
PRI (QUA9110)	Quality Assurance	Service Confirmation	11/02/2011

4. PRODUCT DESCRIPTION:

4.1 **BERMUDA FLAT** and **PLANTATION FLAT** are ASTM C1492, Type III (low-profile) concrete roof tiles.

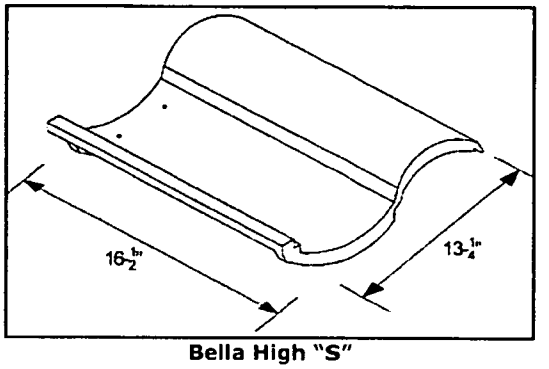


Bermuda Flat

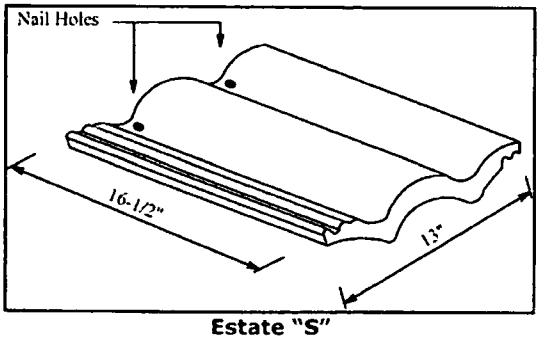


Plantation Flat

4.2 **BELLA HIGH "S"** and **ESTATE "S"** are ASTM D1492, Type II (medium-profile) concrete roof tiles.

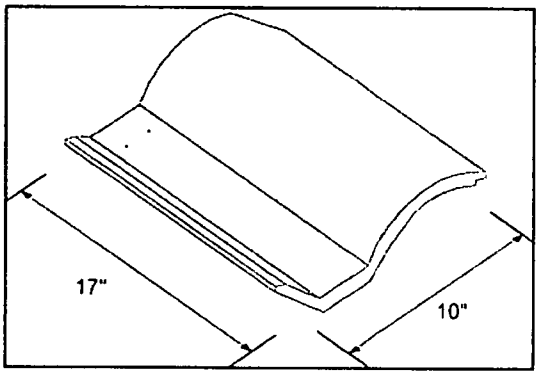


Bella High "S"



Estate "S"

4.3 **GALENA SPANISH "S"** are ASTM C1492, Type I (high-profile) concrete roof tiles.



5. LIMITATIONS:

5.1 This Evaluation Report is not for use in the HVHZ.

5.2 Fire classification is not part of this evaluation; refer to FBC Section 1505 and current Approved Roofing Materials Directory for fire rating of this product.

5.3 Installation shall comply with manufacturer's current published instructions, but not less than the requirements of FBC Section 1507.3 and the FRSA/TRI 07320.

5.4 For mechanically attached tiles, attachment for wind load resistance shall be in accordance with FRSA/TRI 07320/8-05.

5.5 For mortar-set or adhesive-set tiles, attachment for wind load resistance shall be in accordance with FBC Section 1609.5.3 and the mortar or adhesive manufacturer's Product Approval.

5.6 All products in the roof assembly shall have quality assurance audit in accordance with the Florida Building Code and F.A.C. Rule 9N-3.

6. INSTALLATION:

6.1 Entegra Concrete Roof Tiles may be mechanically fastened, mortar-set or adhesive-set. Installation shall comply with manufacturer's current published instructions, but not less than the requirements of FBC Section 1507.3, the FRSA/TRI 07320 and, for mortar-set or adhesive-set applications, the mortar or adhesive manufacturer's Product Approval.

7. LABELING:

7.1 Each unit shall bear the imprint or identifiable marking of the manufacturer's name or logo. Tile lots shall be labeled in accordance with the requirements of the Accredited Quality Assurance Agency noted herein.

8. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction in order to properly evaluate the installation of this product.

9. MANUFACTURING PLANTS:

Contact the noted QA agency for information on product locations covered for F.A.C. Rule 9N-3 QA requirements.

10. QUALITY ASSURANCE ENTITY:

PRI Construction Materials Technologies, LLC. – QUA9110; (813) 621-5777

- END OF EVALUATION REPORT -

MIAMI-DADE COUNTY
DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera

NOTICE OF ACCEPTANCE (NOA)

3M Company
3M Center Building 0220-05-E-06
St. Paul, MN. 55144-1000

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: 3M™ 2-Component Foam Roof Tile Adhesive AH-160

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This renews and revises NOA# 11-0124.04 and consists of pages 1 through 7.
The submitted documentation was reviewed by Alex Tigera.

REVIEWED AND APPROVED!
Architectural Studio, Inc.

MIAMI-DADE COUNTY APPROVED

NOA No.: 12-0228.18
Expiration Date: 05/10/17
Approval Date: 05/10/12
Signature _____ Date 12/23/14

ROOFING COMPONENT APPROVAL:

Category: Roofing
Sub Category: Roof tile adhesive
Materials: Polyurethane

SCOPE:

This approves **3M™ 2-Component Foam Roof Tile Adhesive AH-160** as manufactured by **3M Company** as described in Section 2 of this Notice of Acceptance. For the locations where the design pressure requirements, as determined by applicable building code, does not exceed the design pressure values obtained by calculations in compliance with Roofing Application Standard RAS 127, for use with approved flat, low, and high profile roof tiles system using 2-Component Foam Roof Tile Adhesive AH-160. Where the attachment calculations are done as a moment based system for single patty placement, and as an uplift based system for double patty systems

PRODUCTS MANUFACTURED BY APPLICANT:

Product	Dimensions	Test Specifications	Product Description
3M™ 2-Component Foam Roof Tile Adhesive AH-160	N/A	TAS 101	Two component polyurethane foam adhesive
Foam Dispenser RTF1000	N/A		Dispensing Equipment
ProPack® 30 & 100	N/A		Dispensing Equipment

PRODUCTS MANUFACTURED BY OTHERS:

Any Miami-Dade County Product Control Accepted Roof Tile Assembly having a current NOA which list moment resistance values with the use of 2-Component Foam Roof Tile Adhesive AH-160 roof tile adhesive.

MANUFACTURING LOCATION:

1. Tomball, TX.

PHYSICAL PROPERTIES:

Property	Test	Results
Density	ASTM D 1622	1.6 lbs./ft.^{3}
Compressive Strength	ASTM D 1621	18 PSI Parallel to rise 12 PSI Perpendicular to rise
Tensile Strength	ASTM D 1623	28 PSI Parallel to rise
Water Absorption	ASTM D 2127	0.08 Lbs./Ft^2
Moisture Vapor Transmission	ASTM E 96	3.1 Perm / Inch
Dimensional Stability	ASTM D 2126	+0.07% Volume Change @ -40° F., 2 weeks +6.0% Volume Change @158°F., 100% Humidity, 2 weeks
Closed Cell Content	ASTM D 2856	86%

INSTALLATION:

1. 3M™ 2-Component Foam Roof Tile Adhesive AH-160 may be used with any roof tile assembly having a current NOA that lists uplift resistance values with the use of 3M™ 2-Component Foam Roof Tile Adhesive AH-160.
2. 3M™ 2-Component Foam Roof Tile Adhesive AH-160 shall be applied in compliance with the Component Application section and the corresponding Placement Details noted herein. The roof tile assembly's adhesive attachment with the use of 3M™ 2-Component Foam Roof Tile Adhesive AH-160 shall provide sufficient attachment resistance, expressed as an uplift based system, to meet or exceed the uplift resistance determined in compliance with Miami-Dade County Roofing Application Standards RAS 127. The adhesive attachment data is noted in the roof tile assembly NOA.
3. 3M™ 2-Component Foam Roof Tile Adhesive AH-160 and its components shall be installed in accordance with Roofing Application Standard RAS 120, and 3M Company's 3M™ 2-Component Foam Roof Tile Adhesive AH-160 Operating Instruction and Maintenance Booklet.
4. Installation must be by a Factory Trained 'Qualified Applicator' approved and licensed by 3M Company. 3M Company shall supply a list of approved applicators to the authority having jurisdiction.
5. Calibration of the Foam Dispenser RTF1000 dispensing equipment is required before application of any adhesive. The mix ratio between the "A" component and the "B" component shall be maintained between 1.0-1.15 (A): 1.0 (B). The dispense timer shall be set to deliver 0.0175 to 0.15 pounds per tile as determined at calibration. No other settings shall be approved.
6. 3M™ 2-Component Foam Roof Tile Adhesive AH-160 shall be applied with Foam Dispenser RTF1000 or ProPack® 30 & 100 dispensing equipment only.
7. 3M™ 2-Component Foam Roof Tile Adhesive AH-160 shall not be exposed permanently to sunlight.
8. Tiles must be adhered in freshly applied adhesive. Tile must be set within 2 to 3 minutes after 3M™ 2-Component Foam Roof Tile Adhesive AH-160 has been dispensed.
9. 3M™ 2-Component Foam Roof Tile Adhesive AH-160 placement and minimum patty weight shall be in accordance with the 'Placement Details' herein. Each generic tile profile requires the specific placement noted herein.

Table 1: Adhesive Placement For Each Generic Tile Profile

Tile Profile	Placement Detail	Single Paddy Weight Min. (grams)	Two Paddy Weight per paddy Min. (grams)
Flat, Low, High Profiles	#1	35	N/A
High Profile (2 Piece Barrel)	#1	17/side on cap and 34/pan	N/A
Flat, Low, High Profiles	#2	24	N/A
Flat, Low, High Profiles	#3		8

Note: The physical properties listed above are presented as typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation.

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Test Name/Report	Date
Center for Applied Engineering	#94-060	TAS 101	04/08/94
	257818-1PA	TAS 101	12/16/96
	25-7438-3	SSTD 11-93	10/25/95
	25-7438-4		
	25-7438-7	SSTD 11-93	11/02/95
	25-7492	SSTD 11-93	12/12/95
Miles Laboratories Polymers Division	NB-589-631	ASTM D 1623	02/01/94
Ramtech Laboratories, Inc.	9637-92	ASTM E 108	04/30/93
Southwest Research Institute	01-6743-011	ASTM E 108	11/16/94
	01-6739-062b[1]	ASTM E 84	01/16/95
Trinity Engineering	7050.02.96-1	TAS 114	03/14/96
Celotex Corp. Testing Services	528454-2-1	TAS 101	10/23/98
	528454-9-1		
	528454-10-1		
	520109-1	TAS 101	12/28/98
	520109-2		
	520109-3		
	520109-6		
	520109-7		
	520191-1	TAS 101	03/02/99
	520109-2-1		

LIMITATIONS:

1. Fire classification is not part of this acceptance. Refer to the Prepared Roof Tile Assembly for fire rating.
2. 3M™ 2-Component Foam Roof Tile Adhesive AH-160 shall solely be used with flat, low, & high tile profiles.
3. Minimum underlayment shall be in compliance with the Roofing Application Standard RAS 120.
4. Roof Tile manufactures acquiring acceptance for the use of 3M™ 2-Component Foam Roof Tile Adhesive AH-160 roof tile adhesive with their tile assemblies shall test in accordance with TAS 101.
5. Roof Tile manufactures acquiring acceptance for the use of HANDI-STICK roof tile adhesive with their tile assemblies shall test in accordance with TAS 101 with section 10.4 as modified herein.

$$F' = \frac{\left(\frac{\overline{F}}{2}\right) - W}{MS}$$

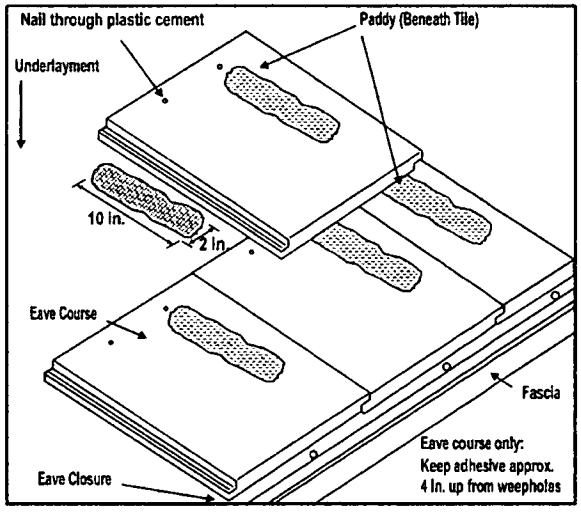
LABELING:

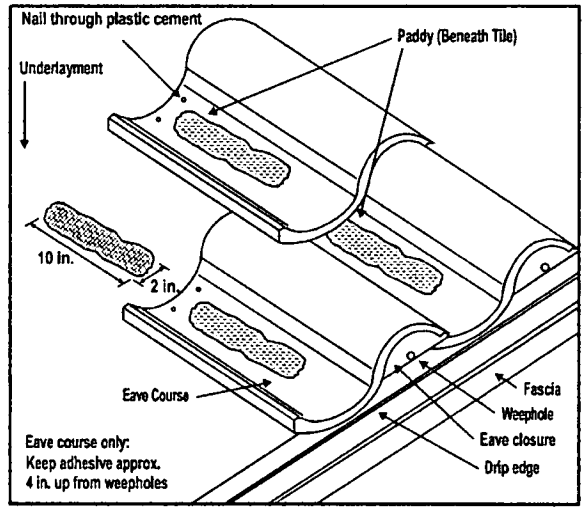
All 3M™ 2-Component Foam Roof Tile Adhesive AH-160 containers shall comply with the Standard Conditions listed herein.

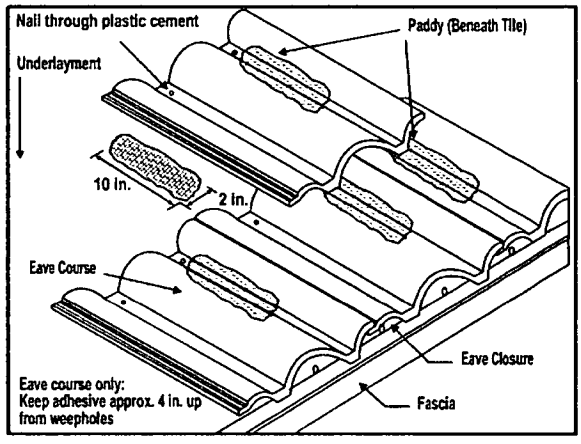
BUILDING PERMIT REQUIREMENTS:

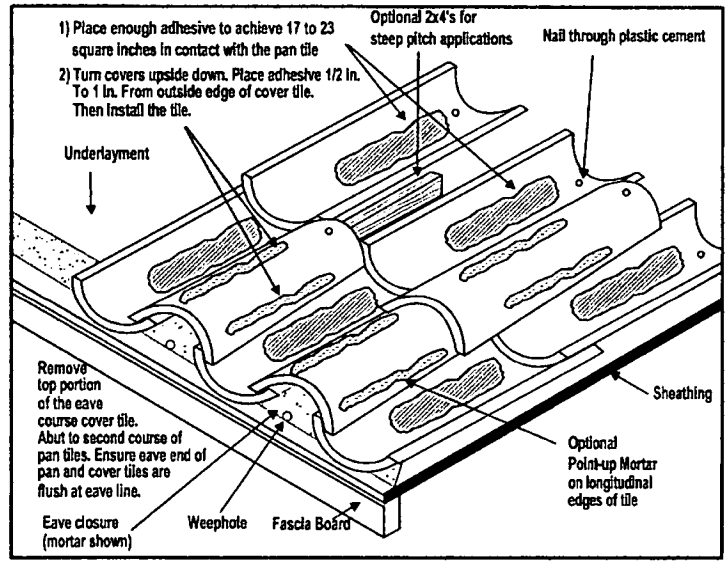
As required by the Building Official or applicable building code in order to properly evaluate the installation of this system.

ADHESIVE PLACEMENT DETAIL 1
SINGLE PATTY









MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

PGT Industries, Inc.
1070 Technology Drive
North Venice, Fl. 34275

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "PGT" Clipped Extruded Aluminum Tube Mullion – L.M.I.

APPROVAL DOCUMENT: Drawing No. **6300JR**, titled "Impact-Resistant Aluminum Tube Mullions", sheets 01 through 22 of 22, prepared by manufacturer, dated 08/29/11, revision "A", signed, sealed and dated 10/15/13 by Anthony Lynn Miller, P. E., bearing the Miami-Dade County Product Control Revision Section stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA No. 11-0922.01** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**

MIAMI-DADE COUNTY APPROVED

J. GASCON 10/21/13

REVIEWED AND APPROVED!

Architectural Studio, Inc.

Signature _____ Date 12/23/14

NOA No. 13-0815.05
Expiration Date: May 26, 2016
Approval Date: October 31, 2013
Page 1

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under previous NOA No. 10– 0819.05)
2. Drawing No. **6300JR**, titled "Impact–Resistant Aluminum Tube Mullions", sheets 01 through 22 of 22, prepared by manufacturer, dated 08/29/11, revision "A", signed, sealed and dated 10/15/13 by Anthony Lynn Miller, P. E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94
   6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94

   along with marked–up drawings and installation diagram of clipped aluminum mullions, prepared by Fenestration Testing Lab, Inc., Test Report No. **FTL 6443** (samples A–1 thru E–1), dated 02/28/11, and addendum letter dated 05/05/11, all signed and sealed by Marlin D. Brinson, P. E.
   (Submitted under previous NOA No. 10–0819.05)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC–2010**, prepared by manufacturer, dated 09/20/11, signed and sealed by Anthony Lynn Miller, P. E.
   (Submitted under previous NOA No. 11–0922.01)

D. QUALITY ASSURANCE

1. Miami–Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of no financial interest, conformance and complying with the **FBC–2010**, dated 06/06/11, signed and sealed by Anthony Lynn Miller, P. E.
2. Laboratory addendum letter for Test Report No. **FTL 6443**, issued by Fenestration Testing Lab, Inc., dated 05/05/11, signed and sealed by Marlin D. Brinson, P. E.
   (Submitted under previous NOA No. 11–0922.01)

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 13–0815.05
Expiration Date: May 26, 2016
Approval Date: October 31, 2013

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (CONTINUED)

3. Laboratory compliance letter for Test Report No. **FTL 6443**, issued by Fenestration Testing Lab, Inc., dated 02/28/11, signed and sealed by Marlin D. Brinson, P. E. ***(Submitted under previous NOA No. 11–0922.01)***
4. Proposal No. **10–1070–R** issued by BNC to PGT Industries, Inc., dated 01/07/11, signed by Ishaq I. Chanda, P. E., Product Control Examiner. ***(Submitted under previous NOA No. 11–0922.01)***

G. OTHERS

1. Notice of Acceptance No. **11–0922.01**, issued to PGT Industries, Inc. for their "**PGT Series Aluminum Clipped Mullion – L.M.I.**", approved on 12/08/11 and expiring on 05/26/16.

Jaime D. Gascón, P. E.
Product Control Section Supervisor
NOA No. 13–0815.05
Expiration Date: May 26, 2016
Approval Date: October 31, 2013

wrightsoft

Project Summary
MAIN
QUICK CALCS, INC.

Job:
Date: Dec 15, 2014
By:

317 ST. LUCIE LN., FORT PIERCE, FL 34946 Phone: 7724666799 Fax: 7724666796 Email: QUICKCALCS@AOL.COM

Project Information

For: BATSON RESIDENCE
3 PALMETTO DRIVE, SEWALLS POINT, FL

Notes:

TOWN OF SEWALL'S POINT
BUILDING DEPARTMENT
FILE COPY

Design Information

Weather: W Palm Beach, FL, US

Winter Design Conditions

Outside db	***45*** °F
Inside db	70 °F
Design TD	25 °F

Summer Design Conditions

Outside db	***91*** °F
Inside db	75 °F
Design TD	16 °F
Daily range	L
Relative humidity	50 %
Moisture difference	57 gr/lb

Heating Summary

Structure	30371 Btuh
Ducts	10105 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	40475 Btuh

Sensible Cooling Equipment Load Sizing

Structure	27559 Btuh
Ducts	16552 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.96
Equipment sensible load	42347 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	***2490***	***2490***
Volume (ft³)	26829	26829
Air changes/hour	0.24	0.13
Equiv. AVF (cfm)	107	57

Latent Cooling Equipment Load Sizing

Structure	4921 Btuh
Ducts	4257 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	9179 Btuh
Equipment total load	51526 Btuh
Req. total capacity at 0.70 SHR	5.0 ton

Heating Equipment Summary

Make	
Trade	
Model	
AHRI ref	
Efficiency	100 EFF
Heating input	11.5 kW
Heating output	39265 Btuh
Temperature rise	18 °F
Actual air flow	1967 cfm
Air flow factor	0.049 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	

Cooling Equipment Summary

Make	Carrier
Trade	COMFORT 17 PURON AC
Cond	24ACB760A**31
Coil	CNPV*6124A**+59*P5A120E24**22
AHRI ref	5632163
Efficiency	12.5 EER, 16 SEER
Sensible cooling	41300 Btuh
Latent cooling	17700 Btuh
Total cooling	59000 Btuh
Actual air flow	1967 cfm
Air flow factor	0.045 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0.83

Bold/italic values have been manually overridden

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

wrightsoft

Project Summary
MASTER
QUICK CALCS, INC.

Job:
Date: Dec 15, 2014
By:

317 ST. LUCIE LN., FORT PIERCE, FL 34946 Phone: 7724666799 Fax: 7724666796 Email: QUICKCALCS@AOL.COM

Project Information

For: BATSON RESIDENCE
3 PALMETTO DRIVE, SEWALLS POINT, FL

Notes:

Design Information

Weather: W Palm Beach, FL, US

Winter Design Conditions

Outside db	***45*** °F
Inside db	70 °F
Design TD	25 °F

Summer Design Conditions

Outside db	***91*** °F
Inside db	75 °F
Design TD	16 °F
Daily range	L
Relative humidity	50 %
Moisture difference	57 gr/lb

Heating Summary

Structure	11937 Btuh
Ducts	2384 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	14321 Btuh

Sensible Cooling Equipment Load Sizing

Structure	9330 Btuh
Ducts	4018 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.96
Equipment sensible load	12813 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft^2)	***767***	***767***
Volume (ft^3)	7938	7938
Air changes/hour	0.42	0.22
Equiv. AVF (cfm)	56	30

Latent Cooling Equipment Load Sizing

Structure	1857 Btuh
Ducts	999 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	2856 Btuh
Equipment total load	15669 Btuh
Req. total capacity at 0.70 SHR	1.5 ton

Heating Equipment Summary

Make	
Trade	
Model	
AHRI ref	
Efficiency	100 EFF
Heating input	4.1 kW
Heating output	13899 Btuh
Temperature rise	21 °F
Actual air flow	600 cfm
Air flow factor	0.042 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	

Cooling Equipment Summary

Make	Carrier
Trade	COMFORT 16 PURON AC
Cond	24ABC618A**31
Coil	FV4CNF002
AHRI ref	3631816
Efficiency	13.0 EER, 16 SEER
Sensible cooling	12600 Btuh
Latent cooling	5400 Btuh
Total cooling	18000 Btuh
Actual air flow	600 cfm
Air flow factor	0.045 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0.82

Bold/italic values have been manually overridden

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

wrightsoft

Right-J® Worksheet
MAIN
QUICK CALCS, INC.

Job:
Date: Dec 15, 2014
By:

317 ST. LUCIE LN., FORT PIERCE, FL 34946 Phone: 7724666799 Fax: 7724666796 Email: QUICKCALCS@AOL.COM

							MAIN				CABANA BATH			
1	Room name													
2	Exposed wall						185.2 ft				16.0 ft			
3	Room height						10.8 ft		d		10.0 ft		heat/cool	
4	Room dimensions										10.0 x 6.0 ft			
5	Room area						2489.5 ft²				60.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.83	522	310	1109	878	100	100	358	283
	G	10A-m	1.670	n	41.75	21.10	23	0	974	492	0	0	0	0
	G	1A-c1om	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
11	G	1A-c1omd	1.270	n	31.75	25.95	176	0	5588	4567	0	0	0	0
	G	1B-c1fm	1.130	n	28.25	26.93	13	0	353	337	0	0	0	0
	W	13A-4ocs	0.143	ne	3.58	2.83	42	20	71	56	0	0	0	0
	G	1A-c1om	1.270	ne	0.00	0.00	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	ne	28.25	50.54	23	0	636	1137	0	0	0	0
	W	13A-4ocs	0.143	e	3.58	2.83	324	256	915	725	0	0	0	0
	G	1A-c1om	1.270	e	31.75	49.58	56	15	1778	2776	0	0	0	0
	G	1B-c1fm	1.130	e	28.25	54.24	12	3	339	651	0	0	0	0
	G	1B-c1fm	1.130	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.83	681	488	1744	1381	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	8	8	243	199	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	29	29	926	757	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	72	72	2286	1868	0	0	0	0
	G	1B-c1fm	1.130	s	28.25	26.93	37	37	1031	983	0	0	0	0
	D	11D0	0.390	s	9.75	12.09	48	48	468	580	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.83	452	411	1468	1163	60	54	193	153
	G	1A-c1om	1.270	w	31.75	40.54	12	7	373	476	6	3	191	243
	G	1A-c1om	1.270	w	31.75	47.77	30	10	939	1413	0	0	0	0
	W	13A-4ocs	0.143	nw	0.00	0.00	0	0	0	0	0	0	0	0
	G	10A-m	1.670	nw	0.00	0.00	0	0	0	0	0	0	0	0
	C	16D-38td	0.026	-	0.65	0.90	2490	2490	1618	2233	60	60	39	54
	F	22A-tpl	0.989	-	24.73	0.00	2490	185	4578	0	60	16	396	0
6	c) AED excursion									0				162
	Envelope loss/gain								27439	22674			1176	895
12	a) Infiltration								2932	1005			232	80
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					6			1380	0			0
		Appliances/other								2500				0
	Subtotal (lines 6 to 13)								30371	27559			1408	975
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								30371	27559			1408	975
15	Duct loads						33%	60%	10105	16552	33%	60%	468	585
	Total room load								40475	44112			1876	1560
	Air required (cfm)								1967	1967			91	70

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

wrightsoft

Right-J® Worksheet
MAIN
QUICK CALCS, INC.

Job:
Date: Dec 15, 2014
By:

317 ST. LUCIE LN., FORT PIERCE, FL 34946 Phone: 7724666799 Fax: 7724666796 Email: QUICKCALCS@AOL.COM

							HALL 4.0 ft 10.0 ft heat/cool 4.0 x 6.0 ft 24.0 ft²				BEDROOM 4 11.0 ft 10.0 ft heat/cool 14.0 x 11.0 ft 154.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.83	40	17	60	47	0	0	0	0
.	G	10A-m	1.670	n	41.75	21.10	23	0	974	492	0	0	0	0
.	G	1A-c1om	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
.	G	1A-c1om	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
11	G	1A-c1omd	1.270	n	31.75	25.95	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	n	28.25	26.93	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	ne	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	ne	0.00	0.00	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	ne	28.25	50.54	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	e	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	e	31.75	49.58	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	e	28.25	54.24	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	s	28.25	26.93	0	0	0	0	0	0	0	0
	D	11D0	0.390	s	9.75	12.09	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.83	0	0	0	0	110	95	340	269
	G	1A-c1om	1.270	w	31.75	40.54	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	w	31.75	47.77	0	0	0	0	15	5	476	717
	W	13A-4ocs	0.143	nw	0.00	0.00	0	0	0	0	0	0	0	0
	G	10A-m	1.670	nw	0.00	0.00	0	0	0	0	0	0	0	0
	C	16D-38td	0.026	-	0.65	0.90	24	24	16	22	154	154	100	138
	F	22A-tpl	0.989	-	24.73	0.00	24	4	99	0	154	11	272	0
6	c) AED excursion									-27				404
	Envelope loss/gain								1148	534			1188	1527
12	a) Infiltration								58	20			160	55
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					0			0	0			0
		Appliances/other								0				0
	Subtotal (lines 6 to 13)								1206	554			1347	1582
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								1206	554			1347	1582
15	Duct loads						33%	60%	401	332	33%	60%	448	950
	Total room load								1608	886			1796	2532
	Air required (cfm)								78	40			87	113

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

wrightsoft

Right-J® Worksheet
MAIN
QUICK CALCS, INC.

Job:
Date: Dec 15, 2014
By:

317 ST. LUCIE LN., FORT PIERCE, FL 34946 Phone: 7724666799 Fax: 7724666796 Email: QUICKCALCS@AOL.COM

							CLST 4 2.0 ft 10.0 ft heat/cool 7.0 x 2.0 ft 14.0 ft²				CLST 3 0 ft 10.0 ft heat/cool 7.0 x 2.0 ft 14.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
1	Room name													
2	Exposed wall													
3	Room height													
4	Room dimensions													
5	Room area													
6	W	13A-4ocs	0.143	n	3.58	2.83	0	0	0	0	0	0	0	0
.	G	10A-m	1.670	n	41.75	21.10	0	0	0	0	0	0	0	0
.	G	1A-c1om	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
.	G	1A-c1om	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
11	G	1A-c1omd	1.270	n	31.75	25.95	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	n	28.25	26.93	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	ne	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	ne	0.00	0.00	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	ne	28.25	50.54	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	e	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	e	31.75	49.58	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	e	28.25	54.24	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	s	28.25	26.93	0	0	0	0	0	0	0	0
	D	11D0	0.390	s	9.75	12.09	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.83	20	20	72	57	0	0	0	0
	G	1A-c1om	1.270	w	31.75	40.54	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	w	31.75	47.77	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	nw	0.00	0.00	0	0	0	0	0	0	0	0
	G	10A-m	1.670	nw	0.00	0.00	0	0	0	0	0	0	0	0
	C	16D-38td	0.026	-	0.65	0.90	14	14	9	13	14	14	9	13
	F	22A-tpl	0.989	-	24.73	0.00	14	2	49	0	14	0	0	0
6	c) AED excursion									-4				-1
	Envelope loss/gain								130	65			9	12
12	a) Infiltration								29	10			0	0
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					0			0	0			0
		Appliances/other								0				0
	Subtotal (lines 6 to 13)								159	75			9	12
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								159	75			9	12
15	Duct loads						33%	60%	53	45	33%	60%	3	7
	Total room load								212	121			12	19
	Air required (cfm)								10	5			1	1

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

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MAIN
QUICK CALCS, INC.

Job:
Date: Dec 15, 2014
By:

317 ST. LUCIE LN., FORT PIERCE, FL 34946 Phone: 7724666799 Fax: 7724666796 Email: QUICKCALCS@AOL.COM

							SUITE 3 11.0 ft 10.0 ft heat/cool 1.0 x 162.0 ft 162.0 ft²				BATH 3 5.0 ft 10.0 ft heat/cool 10.0 x 5.0 ft 50.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.83	0	0	0	0	0	0	0	0
.	G	10A-m	1.670	n	41.75	21.10	0	0	0	0	0	0	0	0
.	G	1A-c1om	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
.	G	1A-c1om	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
11	G	1A-c1omd	1.270	n	31.75	25.95	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	n	28.25	26.93	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	ne	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	ne	0.00	0.00	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	ne	28.25	50.54	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	e	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	e	31.75	49.58	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	e	28.25	54.24	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	s	28.25	26.93	0	0	0	0	0	0	0	0
	D	11D0	0.390	s	9.75	12.09	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.83	110	95	341	270	50	44	158	125
	G	1A-c1om	1.270	w	31.75	40.54	0	0	0	0	6	3	183	233
	G	1A-c1om	1.270	w	31.75	47.77	15	5	463	697	0	0	0	0
	W	13A-4ocs	0.143	nw	0.00	0.00	0	0	0	0	0	0	0	0
	G	10A-m	1.670	nw	0.00	0.00	0	0	0	0	0	0	0	0
	C	16D-38td	0.026	-	0.65	0.90	162	162	105	145	50	50	33	45
	F	22A-tpl	0.989	-	24.73	0.00	162	11	272	0	50	5	124	0
6	c) AED excursion									370				172
	Envelope loss/gain								1181	1482			497	575
12	a) Infiltration								160	55			73	25
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					2			460	0			0
		Appliances/other								0				0
	Subtotal (lines 6 to 13)								1341	1997			569	600
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								1341	1997			569	600
15	Duct loads						33%	60%	446	1199	33%	60%	189	360
	Total room load								1787	3196			759	960
	Air required (cfm)								87	142			37	43

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

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MAIN
QUICK CALCS, INC.

Job:
Date: Dec 15, 2014
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317 ST. LUCIE LN., FORT PIERCE, FL 34946 Phone: 7724666799 Fax: 7724666796 Email: QUICKCALCS@AOL.COM

							TOILET				HALLWAY			
1	Room name							1.0 ft				0 ft		
2	Exposed wall						10.0 ft		heat/cool		11.0 ft		heat/cool	
3	Room height							10.0 x 4.0 ft				1.0 x 156.0 ft		
4	Room dimensions						40.0 ft²				156.0 ft²			
5	Room area													
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.83	0	0	0	0	0	0	0	0
.	G	10A-m	1.670	n	41.75	21.10	0	0	0	0	0	0	0	0
.	G	1A-c1om	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
.	G	1A-c1om	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
11	G	1A-c1omd	1.270	n	31.75	25.95	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	n	28.25	26.93	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	ne	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	ne	0.00	0.00	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	ne	28.25	50.54	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	e	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	e	31.75	49.58	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	e	28.25	54.24	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	s	28.25	26.93	0	0	0	0	0	0	0	0
	D	11D0	0.390	s	9.75	12.09	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.83	10	10	36	28	0	0	0	0
	G	1A-c1om	1.270	w	31.75	40.54	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	w	31.75	47.77	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	nw	0.00	0.00	0	0	0	0	0	0	0	0
	G	10A-m	1.670	nw	0.00	0.00	0	0	0	0	0	0	0	0
	C	16D-38td	0.026	-	0.65	0.90	40	40	26	36	156	156	101	140
	F	22A-tpl	0.989	-	24.73	0.00	40	1	25	0	156	0	0	0
6	c) AED excursion									-3				-7
	Envelope loss/gain								86	61			101	133
12	a) Infiltration								15	5			0	0
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					0			0	0			0
		Appliances/other								0				0
	Subtotal (lines 6 to 13)								101	66			101	133
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								101	66			101	133
15	Duct loads						33%	60%	34	40	33%	60%	34	80
	Total room load								135	105			135	213
	Air required (cfm)								7	5			7	10

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

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QUICK CALCS, INC.

Job:
Date: Dec 15, 2014
By:

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							SUITE 2 14.0 ft 10.0 ft heat/cool 14.0 x 13.0 ft 182.0 ft²				WIC 2 8.0 ft 10.0 ft heat/cool 1.0 x 40.0 ft 40.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.83	0	0	0	0	0	0	0	0
.	G	10A-m	1.670	n	41.75	21.10	0	0	0	0	0	0	0	0
.	G	1A-c1om	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
.	G	1A-c1om	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
11	G	1A-c1omd	1.270	n	31.75	25.95	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	n	28.25	26.93	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	ne	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	ne	0.00	0.00	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	ne	28.25	50.54	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	e	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	e	31.75	49.58	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	e	28.25	54.24	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.83	140	111	396	314	60	60	215	170
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	29	29	926	757	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	s	28.25	26.93	0	0	0	0	0	0	0	0
	D	11D0	0.390	s	9.75	12.09	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.83	0	0	0	0	20	20	72	57
	G	1A-c1om	1.270	w	31.75	40.54	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	w	31.75	47.77	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	nw	0.00	0.00	0	0	0	0	0	0	0	0
	G	10A-m	1.670	nw	0.00	0.00	0	0	0	0	0	0	0	0
	C	16D-38td	0.026	-	0.65	0.90	182	182	118	163	40	40	26	36
	F	22A-tpl	0.989	-	24.73	0.00	182	14	346	0	40	8	198	0
6	c) AED excursion									-61				-14
	Envelope loss/gain								1787	1173			510	248
12	a) Infiltration								203	70			116	40
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					0			0	0			0
		Appliances/other								0				0
	Subtotal (lines 6 to 13)								1990	1242			626	288
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								1990	1242			626	288
15	Duct loads						33%	60%	662	746	33%	60%	208	173
	Total room load								2652	1988			834	461
	Air required (cfm)								129	89			41	21

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

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QUICK CALCS, INC.

Job:
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317 ST. LUCIE LN., FORT PIERCE, FL 34946 Phone: 7724666799 Fax: 7724666796 Email: QUICKCALCS@AOL.COM

							LAUNDRY ROOM				BATH 2			
1	Room name													
2	Exposed wall						9.0 ft				0 ft			
3	Room height						10.0 ft		heat/cool		10.0 ft		heat/cool	
4	Room dimensions						7.0 x 20.0 ft				6.0 x 7.0 ft			
5	Room area						140.0 ft²				42.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.83	0	0	0	0	0	0	0	0
.	G	10A-m	1.670	n	41.75	21.10	0	0	0	0	0	0	0	0
.	G	1A-c1om	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
.	G	1A-c1om	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
11	G	1A-c1omd	1.270	n	31.75	25.95	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	n	28.25	26.93	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	ne	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	ne	0.00	0.00	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	ne	28.25	50.54	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	e	3.58	2.83	20	20	72	57	0	0	0	0
	G	1A-c1om	1.270	e	31.75	49.58	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	e	28.25	54.24	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.83	70	62	223	176	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	8	8	243	199	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	s	28.25	26.93	0	0	0	0	0	0	0	0
	D	11D0	0.390	s	9.75	12.09	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	w	31.75	40.54	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	w	31.75	47.77	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	nw	0.00	0.00	0	0	0	0	0	0	0	0
	G	10A-m	1.670	nw	0.00	0.00	0	0	0	0	0	0	0	0
	C	16D-38td	0.026	-	0.65	0.90	140	140	91	126	42	42	27	38
	F	22A-tpl	0.989	-	24.73	0.00	140	9	223	0	42	0	0	0
6	c) AED excursion									-52				-2
	Envelope loss/gain								851	506			27	36
12	a) Infiltration								131	45			0	0
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					0			0	0			0
		Appliances/other								500				0
	Subtotal (lines 6 to 13)								982	1050			27	36
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								982	1050			27	36
15	Duct loads						33%	60%	327	631	33%	60%	9	22
	Total room load								1308	1681			36	57
	Air required (cfm)								64	75			2	3

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

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MAIN
QUICK CALCS, INC.

Job:
Date: Dec 15, 2014
By:

317 ST. LUCIE LN., FORT PIERCE, FL 34946 Phone: 7724666799 Fax: 7724666796 Email: QUICKCALCS@AOL.COM

							SINK 0 ft 10.0 ft heat/cool 6.0 x 5.0 ft 30.0 ft²				DINING ROOM 17.0 ft 13.0 ft heat/cool 1.0 x 192.0 ft 192.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.83	0	0	0	0	0	0	0	0
	G	10A-m	1.670	n	41.75	21.10	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
11	G	1A-c1omd	1.270	n	31.75	25.95	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	n	28.25	26.93	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	ne	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	ne	0.00	0.00	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	ne	28.25	50.54	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	e	3.58	2.83	0	0	0	0	78	78	279	221
	G	1A-c1om	1.270	e	31.75	49.58	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	e	28.25	54.24	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.83	0	0	0	0	143	95	341	270
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	36	36	1127	921
	G	1B-c1fm	1.130	s	28.25	26.93	0	0	0	0	12	12	344	328
	D	11D0	0.390	s	9.75	12.09	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	w	31.75	40.54	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	w	31.75	47.77	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	nw	0.00	0.00	0	0	0	0	0	0	0	0
	G	10A-m	1.670	nw	0.00	0.00	0	0	0	0	0	0	0	0
	C	16D-38td	0.026	-	0.65	0.90	30	30	20	27	192	192	125	172
	F	22A-tpl	0.989	-	24.73	0.00	30	0	0	0	192	17	420	0
6	c) AED excursion									-1				-95
	Envelope loss/gain								20	26			2636	1817
12	a) Infiltration								0	0			321	110
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					0			0	0			0
		Appliances/other								0				0
	Subtotal (lines 6 to 13)								20	26			2956	1927
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								20	26			2956	1927
15	Duct loads						33%	60%	6	15	33%	60%	984	1157
	Total room load								26	41			3940	3084
	Air required (cfm)								1	2			191	137

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

wrightsoft

Right-J® Worksheet
MAIN
QUICK CALCS, INC.

Job:
Date: Dec 15, 2014
By:

317 ST. LUCIE LN., FORT PIERCE, FL 34946 Phone: 7724666799 Fax: 7724666796 Email: QUICKCALCS@AOL.COM

							FOYER				DEN			
1	Room name													
2	Exposed wall						9.0 ft				18.0 ft			
3	Room height						13.8 ft		heat/cool		12.0 ft		heat/cool	
4	Room dimensions						9.0 x 8.0 ft				12.0 x 14.0 ft			
5	Room area						72.0 ft²				168.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.83	0	0	0	0	0	0	0	0
.	G	10A-m	1.670	n	41.75	21.10	0	0	0	0	0	0	0	0
.	G	1A-c1om	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
.	G	1A-c1om	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
11	G	1A-c1omd	1.270	n	31.75	25.95	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	n	28.25	26.93	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	ne	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	ne	0.00	0.00	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	ne	28.25	50.54	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	e	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	e	31.75	49.58	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	e	28.25	54.24	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.83	124	64	230	182	144	95	340	269
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	37	37	1159	947
	G	1B-c1fm	1.130	s	28.25	26.93	12	12	339	323	12	12	348	332
	D	11D0	0.390	s	9.75	12.09	48	48	468	580	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.83	0	0	0	0	72	72	257	204
	G	1A-c1om	1.270	w	31.75	40.54	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	w	31.75	47.77	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	nw	0.00	0.00	0	0	0	0	0	0	0	0
	G	10A-m	1.670	nw	0.00	0.00	0	0	0	0	0	0	0	0
	C	16D-38td	0.026	-	0.65	0.90	72	72	47	65	168	168	109	151
	F	22A-tpl	0.989	-	24.73	0.00	72	9	223	0	168	18	445	0
6	c) AED excursion									-57				-95
	Envelope loss/gain								1306	1093			2659	1809
12	a) Infiltration								180	62			313	107
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					0			0	0			0
		Appliances/other								0				0
	Subtotal (lines 6 to 13)								1486	1155			2972	1916
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								1486	1155			2972	1916
15	Duct loads						33%	60%	494	693	33%	60%	989	1151
	Total room load								1980	1848			3961	3067
	Air required (cfm)								96	82			192	137

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

wrightsoft

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MAIN
QUICK CALCS, INC.

Job:
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317 ST. LUCIE LN., FORT PIERCE, FL 34946 Phone: 7724666799 Fax: 7724666796 Email: QUICKCALCS@AOL.COM

							KITCHEN				BREAKFAST			
1	Room name							0 ft				12.2 ft		
2	Exposed wall						10.0 ft		heat/cool		10.0 ft		heat/cool	
3	Room height							1.0 x 305.0 ft				1.0 x 52.5 ft		
4	Room dimensions						305.0 ft²				52.5 ft²			
5	Room area													
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.83	0	0	0	0	30	18	63	50
.	G	10A-m	1.670	n	41.75	21.10	0	0	0	0	0	0	0	0
.	G	1A-c1om	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
.	G	1A-c1om	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
11	G	1A-c1omd	1.270	n	31.75	25.95	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	n	28.25	26.93	0	0	0	0	13	0	353	337
	W	13A-4ocs	0.143	ne	3.58	2.83	0	0	0	0	42	20	71	56
	G	1A-c1om	1.270	ne	0.00	0.00	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	ne	28.25	50.54	0	0	0	0	23	0	636	1137
	W	13A-4ocs	0.143	e	3.58	2.83	0	0	0	0	50	38	136	108
	G	1A-c1om	1.270	e	31.75	49.58	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	e	28.25	54.24	0	0	0	0	12	3	339	651
	G	1B-c1fm	1.130	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	s	28.25	26.93	0	0	0	0	0	0	0	0
	D	11D0	0.390	s	9.75	12.09	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	w	31.75	40.54	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	w	31.75	47.77	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	nw	0.00	0.00	0	0	0	0	0	0	0	0
	G	10A-m	1.670	nw	0.00	0.00	0	0	0	0	0	0	0	0
	C	16D-38td	0.026	-	0.65	0.90	305	305	198	274	53	53	34	47
	F	22A-tpl	0.989	-	24.73	0.00	305	0	0	0	53	12	301	0
6	c) AED excursion									-129				-115
	Envelope loss/gain								198	145			1932	2270
12	a) Infiltration								0	0			178	61
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					2			460	0			0
		Appliances/other								2000				0
	Subtotal (lines 6 to 13)								198	2605			2110	2331
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								198	2605			2110	2331
15	Duct loads						33%	60%	66	1564	33%	60%	702	1400
	Total room load								264	4169			2812	3731
	Air required (cfm)								13	186			137	166

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

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MAIN
QUICK CALCS, INC.

Job:
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							LIVING ROOM 16.0 ft 11.0 ft heat/cool 1.0 x 336.0 ft 336.0 ft²				FAMILY ROOM 32.0 ft 11.0 ft heat/cool 16.0 x 16.0 ft 256.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.83	176	96	343	272	176	80	286	227
	G	10A-m	1.670	n	41.75	21.10	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
11	G	1A-c1omd	1.270	n	31.75	25.95	80	0	2540	2076	96	0	3048	2491
	G	1B-c1fm	1.130	n	28.25	26.93	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	ne	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	ne	0.00	0.00	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	ne	28.25	50.54	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	e	3.58	2.83	0	0	0	0	176	120	429	340
	G	1A-c1om	1.270	e	31.75	49.58	0	0	0	0	56	15	1778	2776
	G	1B-c1fm	1.130	e	28.25	54.24	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	e	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	s	28.25	26.93	0	0	0	0	0	0	0	0
	D	11D0	0.390	s	9.75	12.09	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	w	31.75	40.54	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	w	31.75	47.77	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	nw	0.00	0.00	0	0	0	0	0	0	0	0
	G	10A-m	1.670	nw	0.00	0.00	0	0	0	0	0	0	0	0
	C	16D-38td	0.026	-	0.65	0.90	336	336	218	301	256	256	166	230
	F	22A-tpl	0.989	-	24.73	0.00	336	16	396	0	256	32	791	0

6	c) AED excursion									-151				-294
	Envelope loss/gain								3497	2499			6499	5770
12	a) Infiltration								255	88			510	175
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @	230				2			460	0			0
		Appliances/other								0				0
	Subtotal (lines 6 to 13)								3752	3046			7009	5945
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								3752	3046			7009	5945
15	Duct loads						33%	60%	1248	1830	33%	60%	2332	3570
	Total room load								5001	4876			9341	9515
	Air required (cfm)								243	217			454	424

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

wrightsoft

Right-J® Worksheet
MASTER
QUICK CALCS, INC.

Job:
Date: Dec 15, 2014
By:

317 ST. LUCIE LN., FORT PIERCE, FL 34946 Phone: 7724666799 Fax: 7724666796 Email: QUICKCALCS@AOL.COM

							MASTER 101.2 ft				MASTER SUITE 40.2 ft			
1	Room name													
2	Exposed wall						10.4 ft		d		11.0 ft		heat/cool	
3	Room height											1.0 x 312.5 ft		
4	Room dimensions						762.5 ft²				312.5 ft²			
5	Room area													
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.83	240	184	657	520	110	62	222	176
.	—G	10A-m	1.670	n	0.00	0.00	0	0	0	0	0	0	0	0
.	—G	1A-c1om	1.270	n	31.75	25.95	8	0	265	216	0	0	0	0
.	—G	1A-c1om	1.270	n	31.75	25.95	48	0	1524	1246	48	0	1524	1246
11	—G	1A-c1omd	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
	—G	1B-c1fm	1.130	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	ne	3.58	2.83	55	38	136	108	55	38	136	108
	—G	1A-c1om	1.270	ne	31.75	46.38	17	0	540	788	17	0	540	788
	—G	1B-c1fm	1.130	ne	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	e	3.58	2.83	406	386	1380	1093	176	176	629	498
	—G	1A-c1om	1.270	e	0.00	0.00	0	0	0	0	0	0	0	0
	—G	1B-c1fm	1.130	e	0.00	0.00	0	0	0	0	0	0	0	0
	—G	1B-c1fm	1.130	e	28.25	46.93	20	7	565	939	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.83	230	222	794	629	0	0	0	0
	—G	1A-c1om	1.270	s	31.75	25.95	8	8	254	208	0	0	0	0
	—G	1A-c1om	1.270	s	0.00	0.00	0	0	0	0	0	0	0	0
	—G	1A-c1om	1.270	s	0.00	0.00	0	0	0	0	0	0	0	0
	—G	1B-c1fm	1.130	s	0.00	0.00	0	0	0	0	0	0	0	0
	—D	11D0	0.390	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.83	75	75	268	212	55	55	197	156
	—G	1A-c1om	1.270	w	0.00	0.00	0	0	0	0	0	0	0	0
	—G	1A-c1om	1.270	w	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	nw	3.58	2.83	47	24	86	68	47	24	86	68
	—G	10A-m	1.670	nw	41.75	32.48	23	0	946	736	23	0	946	736
	C	16D-38td	0.026	-	0.65	0.90	763	763	496	684	313	313	203	280
	F	22A-tpl	0.989	-	24.73	0.00	763	101	2501	0	313	40	993	0
6	c) AED excursion									0				-51
	Envelope loss/gain								10411	7446			5475	4005
12	a) Infiltration								1527	523			642	220
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					2			460	2			460
		Appliances/other								900				0
	Subtotal (lines 6 to 13)								11937	9330			6117	4685
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								11937	9330			6117	4685
15	Duct loads						20%	43%	2384	4018	20%	43%	1222	2017
	Total room load								14321	13347			7339	6702
	Air required (cfm)								600	600			307	301

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

wrightsoft

Right-J® Worksheet
MASTER
QUICK CALCS, INC.

Job:
Date: Dec 15, 2014
By:

317 ST. LUCIE LN., FORT PIERCE, FL 34946 Phone: 7724666799 Fax: 7724666796 Email: QUICKCALCS@AOL.COM

							M. WIC 1 6.0 ft 10.0 ft heat/cool 6.0 x 11.0 ft 66.0 ft²				M. TOILET 5.0 ft 10.0 ft heat/cool 1.0 x 23.0 ft 23.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.83	0	0	0	0	50	42	149	118
	G	10A-m	1.670	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	n	31.75	25.95	0	0	0	0	8	0	265	216
	G	1A-c1om	1.270	n	31.75	25.95	0	0	0	0	0	0	0	0
11	G	1A-c1omd	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	ne	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	ne	31.75	46.38	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	ne	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	e	3.58	2.83	60	60	215	170	0	0	0	0
	G	1A-c1om	1.270	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	e	0.00	0.00	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	e	28.25	46.93	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	s	0.00	0.00	0	0	0	0	0	0	0	0
	G	1B-c1fm	1.130	s	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.83	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	w	0.00	0.00	0	0	0	0	0	0	0	0
	G	1A-c1om	1.270	w	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	nw	3.58	2.83	0	0	0	0	0	0	0	0
	G	10A-m	1.670	nw	41.75	32.48	0	0	0	0	0	0	0	0
	C	16D-38td	0.026	-	0.65	0.90	66	66	43	59	23	23	15	21
	F	22A-tpl	0.989	-	24.73	0.00	66	6	148	0	23	5	124	0
6	c) AED excursion									-3				-4
	Envelope loss/gain								406	226			552	351
12	a) Infiltration								87	30			73	25
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					0			0	0			0
		Appliances/other								0				0
	Subtotal (lines 6 to 13)								493	256			625	376
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								493	256			625	376
15	Duct loads						20%	43%	98	110	20%	43%	125	162
	Total room load								591	366			749	537
	Air required (cfm)								25	16			31	24

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

wrightsoft

Right-J® Worksheet
MASTER
QUICK CALCS, INC.

Job:
Date: Dec 15, 2014
By:

317 ST. LUCIE LN., FORT PIERCE, FL 34946 Phone: 7724666799 Fax: 7724666796 Email: QUICKCALCS@AOL.COM

							MASTER BATH 36.0 ft 10.0 ft heat/cool 1.0 x 156.0 ft 156.0 ft²				MASTER HALLWAY 0 ft 10.0 ft heat/cool 1.0 x 125.0 ft 125.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.83	80	80	286	227	0	0	0	0
.	—G	10A-m	1.670	n	0.00	0.00	0	0	0	0	0	0	0	0
.	—G	1A-c1om	1.270	n	31.75	25.95	0	0	0	0	0	0	0	0
.	—G	1A-c1om	1.270	n	31.75	25.95	0	0	0	0	0	0	0	0
11	—G	1A-c1omd	1.270	n	0.00	0.00	0	0	0	0	0	0	0	0
	—G	1B-c1fm	1.130	n	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	ne	3.58	2.83	0	0	0	0	0	0	0	0
	—G	1A-c1om	1.270	ne	31.75	46.38	0	0	0	0	0	0	0	0
	—G	1B-c1fm	1.130	ne	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	e	3.58	2.83	150	130	465	368	0	0	0	0
	—G	1A-c1om	1.270	e	0.00	0.00	0	0	0	0	0	0	0	0
	—G	1B-c1fm	1.130	e	0.00	0.00	0	0	0	0	0	0	0	0
	—G	1B-c1fm	1.130	e	28.25	46.93	20	7	565	939	0	0	0	0
	W	13A-4ocs	0.143	s	3.58	2.83	130	130	465	368	0	0	0	0
	—G	1A-c1om	1.270	s	31.75	25.95	0	0	0	0	0	0	0	0
	—G	1A-c1om	1.270	s	0.00	0.00	0	0	0	0	0	0	0	0
	—G	1A-c1om	1.270	s	0.00	0.00	0	0	0	0	0	0	0	0
	—G	1B-c1fm	1.130	s	0.00	0.00	0	0	0	0	0	0	0	0
	—D	11D0	0.390	s	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	w	3.58	2.83	0	0	0	0	0	0	0	0
	—G	1A-c1om	1.270	w	0.00	0.00	0	0	0	0	0	0	0	0
	—G	1A-c1om	1.270	w	0.00	0.00	0	0	0	0	0	0	0	0
	W	13A-4ocs	0.143	nw	3.58	2.83	0	0	0	0	0	0	0	0
	—G	10A-m	1.670	nw	41.75	32.48	0	0	0	0	0	0	0	0
	C	16D-38td	0.026	-	0.65	0.90	156	156	101	140	125	125	81	112
	F	22A-tpl	0.989	-	24.73	0.00	156	36	890	0	125	0	0	0
6	c) AED excursion									67				-1
	Envelope loss/gain								2772	2108			81	111
12	a) Infiltration								522	179			0	0
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 230					0			0	0			0
		Appliances/other								900				0
	Subtotal (lines 6 to 13)								3294	3187			81	111
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								3294	3187			81	111
15	Duct loads						20%	43%	658	1373	20%	43%	16	48
	Total room load								3952	4560			97	159
	Air required (cfm)								166	205			4	7

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

wrightsoft

Right-J® Worksheet
MASTER
QUICK CALCS, INC.

Job:
Date: Dec 15, 2014
By:

317 ST. LUCIE LN., FORT PIERCE, FL 34946 Phone: 7724666799 Fax: 7724666796 Email: QUICKCALCS@AOL.COM

1	Room name	M. WIC 2
2	Exposed wall	14.0 ft
3	Room height	10.0 ft heat/cool
4	Room dimensions	10.0 x 8.0 ft
5	Room area	80.0 ft²

	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area or perimeter		Load	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	13A-4ocs	0.143	n	3.58	2.83	0	0	0	0				
.	G	10A-m	1.670	n	0.00	0.00	0	0	0	0				
.	G	1A-c1om	1.270	n	31.75	25.95	0	0	0	0				
.	G	1A-c1om	1.270	n	31.75	25.95	0	0	0	0				
11	G	1A-c1omd	1.270	n	0.00	0.00	0	0	0	0				
	G	1B-c1fm	1.130	n	0.00	0.00	0	0	0	0				
	W	13A-4ocs	0.143	ne	3.58	2.83	0	0	0	0				
	G	1A-c1om	1.270	ne	31.75	46.38	0	0	0	0				
	G	1B-c1fm	1.130	ne	0.00	0.00	0	0	0	0				
	W	13A-4ocs	0.143	e	3.58	2.83	20	20	72	57				
	G	1A-c1om	1.270	e	0.00	0.00	0	0	0	0				
	G	1B-c1fm	1.130	e	0.00	0.00	0	0	0	0				
	G	1B-c1fm	1.130	e	28.25	46.93	0	0	0	0				
	W	13A-4ocs	0.143	s	3.58	2.83	100	92	329	260				
	G	1A-c1om	1.270	s	31.75	25.95	8	8	254	208				
	G	1A-c1om	1.270	s	0.00	0.00	0	0	0	0				
	G	1A-c1om	1.270	s	0.00	0.00	0	0	0	0				
	G	1B-c1fm	1.130	s	0.00	0.00	0	0	0	0				
	D	11D0	0.390	s	0.00	0.00	0	0	0	0				
	W	13A-4ocs	0.143	w	3.58	2.83	20	20	72	57				
	G	1A-c1om	1.270	w	0.00	0.00	0	0	0	0				
	G	1A-c1om	1.270	w	0.00	0.00	0	0	0	0				
	W	13A-4ocs	0.143	nw	3.58	2.83	0	0	0	0				
	G	10A-m	1.670	nw	41.75	32.48	0	0	0	0				
	C	16D-38td	0.026	-	0.65	0.90	80	80	52	72				
	F	22A-tpl	0.989	-	24.73	0.00	80	14	346	0				

6	c) AED excursion				-8	
	Envelope loss/gain			1124	645	
12	a) Infiltration			203	70	
	b) Room ventilation			0	0	
13	Internal gains:	Occupants @ 230	0		0	
		Appliances/other			0	
	Subtotal (lines 6 to 13)			1327	715	
	Less external load			0	0	
	Less transfer			0	0	
	Redistribution			0	0	
14	Subtotal			1327	715	
15	Duct loads		20% 43%	265	308	
	Total room load			1592	1023	
	Air required (cfm)			67	46	

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under previous NOA No. 08–0820.15)
2. Drawing No. **5190–1** titled "Vinyl Picture Window, Large Missile Impact", sheets 01 through 10 of 10, prepared by manufacturer, dated 08/04/08 with the latest revision "**B**" dated 10/18/11, prepared by PGT Industries, Inc., signed and sealed by Anthony Lynn Miller, P. E.
   (Submitted under previous NOA No. 11–1114.18)

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94
   6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202–94

   Along with marked–up drawings and installation diagram of a vinyl fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.'s **FTL–5712** and **FTL–5729**, dated 08/13 and 09/09/08, all signed and sealed by Carlos S. Rionda, P. E.
   (Submitted under previous NOA No. 08–0820.15)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC, prepared by PGT Industries, Inc., dated 11/25/08, signed and sealed by Robert L. Clark, P. E.
   (Submitted under previous NOA No. 08–0820.15)
2. **Glazing complies with ASTM E1300–04**

D. QUALITY ASSURANCE

1. Miami–Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **13–0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.
2. Notice of Acceptance No. **11–0830.09** issued to Mikron Industries, Inc., for their "**White Rigid PVC Exterior Extrusions for Windows and Doors**" dated 10/6/11, expiring on 12/26/16.

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No: 13–1009.04
Expiration Date: January 08, 2019
Approval Date: November 14; 2013

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

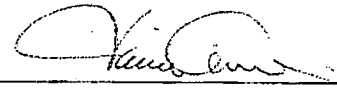
F. STATEMENTS

1. Statement letter of conformance and compliance with the **FBC–2010**, dated 10/26/11, signed and sealed by Anthony Lynn Miller, P. E.
   (Submitted under previous NOA No. 11–1114.18)
2. Statement letter of no financial interest and independence, dated 10/26/11, signed and sealed by Anthony Lynn Miller, P. E.
   (Submitted under previous NOA No. 11–1114.18)
3. Letter of *Adoption of as his Own, the Work of another Engineer* per Section 61G15–27.001 of the F.B.P.E., dated 10/07/11 signed and sealed by Anthony Lynn Miller, P. E.
   (Submitted under previous NOA No. 11–1114.18)
4. Statement letter of conformance and compliance with the FBC, dated 08/12/08, signed and sealed by Robert L. Clark, P. E.
   (Submitted under previous NOA No. 08–0820.15)
5. Statement letter of no financial interest and independence, dated 08/12/08, signed and sealed by Robert L. Clark, P. E.
   (Submitted under previous NOA No. 08–0820.15)
6. Laboratory compliance letter for Test Reports No.'s **FTL–5712** and **FTL–5729**, dated 08/13/08 and 09/09/08, all signed and sealed by Carlos S. Rionda, P.E.
   (Submitted under previous NOA No. 08–0820.15)
7. Laboratory compliance letter for Test Report No. **ATI–84576.01–401–47**, dated 10/31/08, signed and sealed by Joseph A. Reed, P. E. ***(For Reference only)***
   (Submitted under previous NOA No. 08–0820.15)

G. OTHERS

1. Notice of Acceptance No. **11–1114.18**, issued to PGT Industries, Inc. for their Series "PW–701 Aluminum Picture Window, Non–Impact", approved on 02/16/12 and expiring on 01/08/14.
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94
   6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202–94

   Along with marked-up drawings and installation diagram of a vinyl fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI–84576.01–401–47**, dated 10/31/08, signed and sealed by Joseph A. Reed, P. E. ***(For Reference only)***
   (Submitted under previous NOA No. 08–0820.15)



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 13–1009.04
Expiration Date: January 08, 2019
Approval Date: November 14, 2013

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

PGT Industries, Inc.
1070 Technology Drive
North Venice, FL 34275

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "SH -500 Vinyl" White PVC Single Hung Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. **5191-1**, Series titled "Vinyl Single Hung Window, Large Missile Impact", sheets 1 through 11 of 11, dated 08/07/08 with revision "C" dated 10/07/11, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P. E., bearing the Miami-Dade County Product Control Section Renewal stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/ series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

REVISION of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews NOA No. 11-1013.19** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**

REVIEWED AND APPROVED!

MIAMI-DADE COUNTY APPROVED

J. Gascon 11/5/13 Architectural Studio, Inc.

NOA No. 13-1009.05
Expiration Date: January 08, 2019
Approval Date: November 14, 2013
Page 1

Signature _____ Date 12/23/13

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under previous NOA No. 08–0820.14)
2. Drawing No. **5191–1**, series titled "Vinyl Single Hung Window, Large Missile Impact", sheets 01 through 11 of 11, dated 08/07/08 with revision **"C"** dated 10/07/11, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P. E.
   (Submitted under previous NOA No. 11–1013.19)

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94
   6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202–94

   along with marked–up drawings and installation diagram of a vinyl fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL–5710**, dated 08/13/08, signed and sealed by Carlos S. Rionda, P. E.
   (Submitted under previous NOA No. 08–0820.14)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94
   6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202–94

   along with marked–up drawings and installation diagram, prepared by Architectural Testing, Inc., Test Report No. **ATI–84576.01–401–47**, dated 10/31/08, signed and sealed by Joseph A. Reed, P. E.
   (Submitted under previous NOA No. 08–0820.14 – For Reference only)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC–2010**, prepared by manufacture, dated 10/07/11, signed and sealed by Anthony Lynn Miller, P. E.
   (Submitted under previous NOA No. 11–1013.19)
2. **Glazing complies with ASTM E1300–04**

D. QUALITY ASSURANCE

1. Miami–Dade Department of Regulatory and Economic Resources (RER).

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 13–1009.05
Expiration Date: January 08, 2019
Approval Date: November 14, 2013

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **13–0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.
2. Notice of Acceptance No. **11–0830.09** issued to Mikron Industries, Inc., for their "**White Rigid PVC Exterior Extrusions for Windows and Doors**" dated 10/6/11, expiring on 12/26/16.

F. STATEMENTS

1. Statement letter of conformance and complying with **FBC–2010**, issued by manufacture, dated 10/07/11, signed and sealed by Anthony Lynn Miller, P. E. ***(Submitted under previous NOA No. 11–1013.19)***
2. Statement letter of no financial interest, issued by manufacture, dated 10/07/11, signed and sealed by Anthony Lynn Miller, P. E. ***(Submitted under previous NOA No. 11–1013.19)***
3. Laboratory compliance letter for Test Report No. **FTL–5710**, issued by Fenestration Testing Laboratory, Inc., dated 08/13/08, signed and sealed by Carlos S. Rionda, P. E. ***(Submitted under NOA No. 08–0820.14)***
4. Laboratory compliance letter for Test Report No. **ATI–84576.01–401–47**, issued by Architectural Testing, Inc., dated 10/31/08, signed and sealed by Joseph A. Reed, P. E. ***(Submitted under NOA No. 08–0820.14 – For Reference only)***

G. OTHERS

1. Notice of Acceptance No. **11–1013.19**, issued to PGT Industries, Inc. for their Series "SH–500–Vinyl White PVC Single Hung Window – L.M.I.", approved on 12/08/11 and expiring on 01/08/14.

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 13–1009.05
Expiration Date: January 08, 2019
Approval Date: November 14, 2013

GENERAL NOTES: LARGE MISSILE IMPACT SINGLE HUNG BOX FRAME AND INTEGRAL FIN WINDOWS

1. GLAZING OPTIONS:
   A. 3/4" LAMI I.G. GLASS COMPRISED OF (1) LITE OF 1/8" TEMPERED OR ANNEALED GLASS, AIRSPACE AND 5/16" LAMINATED GLASS WHICH IS COMPRISED OF (2) LITES OF 1/8" ANNEALED GLASS WITH AN .090 INTERLAYER OF DUPONT PVB.
   B. 7/8" LAMI I.G. GLASS COMPRISED OF (1) LITE OF 1/8" TEMPERED OR ANNEALED GLASS, AIRSPACE AND 5/16" LAMINATED GLASS WHICH IS COMPRISED OF (2) LITES OF 1/8" ANNEALED GLASS WITH AN .090 INTERLAYER OF DUPONT PVB.

2. CONFIGURATIONS: 1/1 AND PROVIEW

3. DESIGN PRESSURES: -70/+60 PSF (ALL GLASS TYPES LISTED ABOVE)

   A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E 1300-02.

   B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E 1300-02.

   C. IF A TEMPERED CAP IS USED MAX. DP IS -50/+50 PSF.

4. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CURRENT EDITION. SEE SHEETS 9 THROUGH 11 FOR ANCHORAGE DETAILS.

5. SHUTTERS ARE NOT REQUIRED FOR UNITS LESS THAN 30'.

6. REFERENCES: TEST REPORTS FTL-5710.
   ANSI/AF&PA NDS-2001 FOR WOOD CONSTRUCTION
   ADM-2000 ALUMINUM DESIGN MANUAL

7. THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

NOA DRAWING TABLE OF CONTENTS

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 13-1009.05
Expiration Date 01/08/2019
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 11-1013.19
Expiration Date JAN. 8, 2014
By
Miami Dade Product Control

TOWN OF SEWALL'S POINT
BUILDING DEPARTMENT
FILE COPY

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

Revsd By:	Date:	Revisions:	
D.G.	11/25/08	A	PER MIAMI-DADE LETTER DATED 10/31/08
D.G.	12/18/08	B	NO CHANGE THIS SHEET
JJ	10/07/11	C	2010 FBC UPDATE
Drawn By: D.G.	Date: 8/07/08	Checked By:	Date:

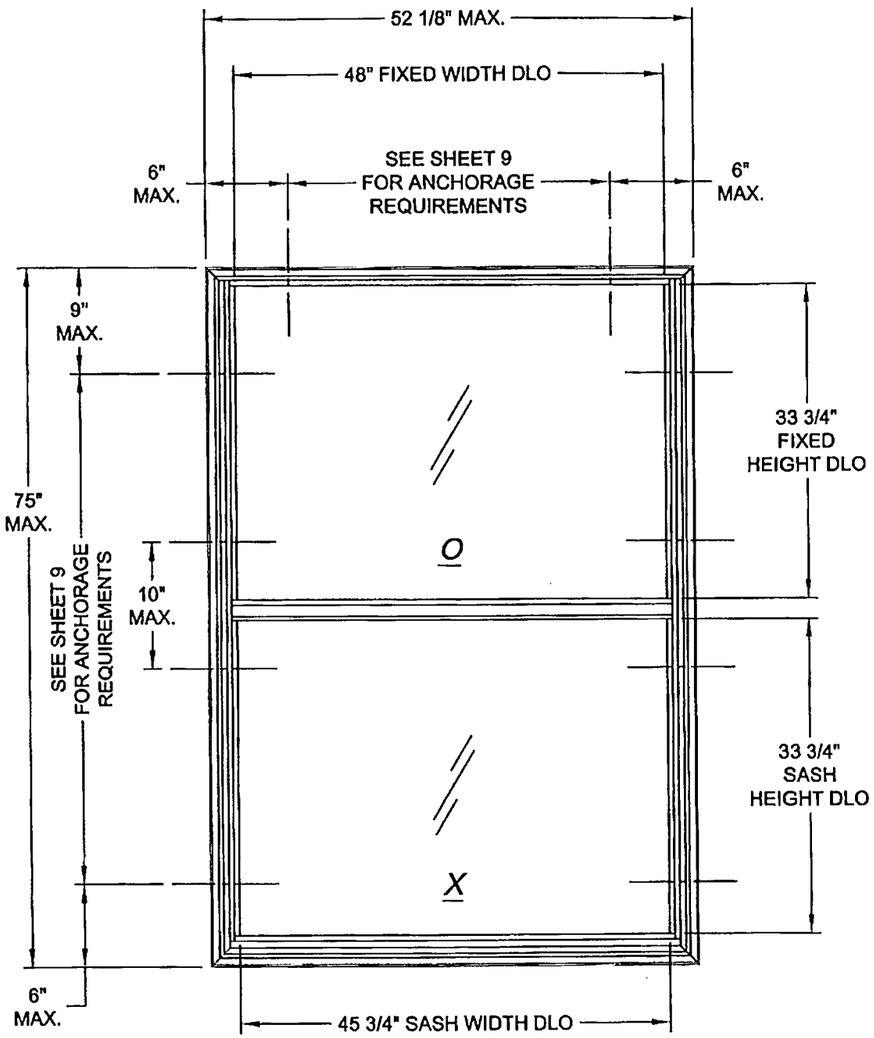
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

PGT
Visibly Better

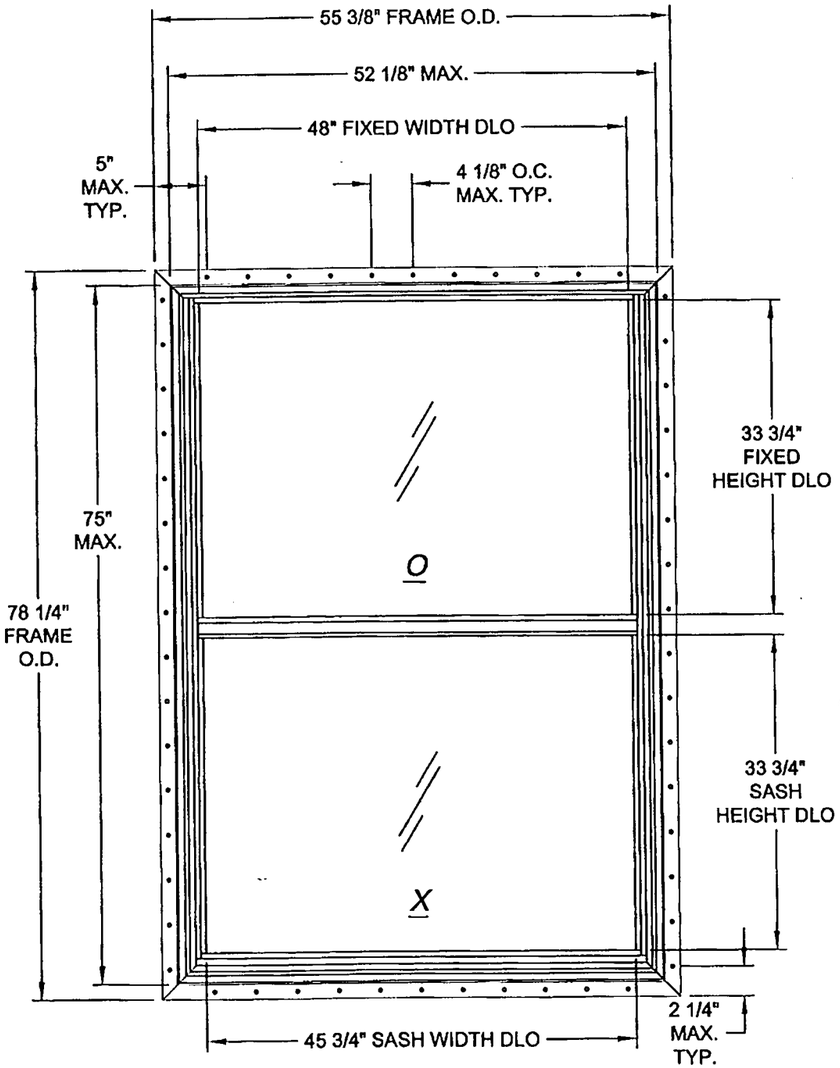
Description: GENERAL NOTES
Title: Vinyl Single Hung Window, Large Missile Impact

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SH500	NTS	1 of 11	5191-1	C



BOX FRAME

MAX. SIZE = 52.125" X 75"



INTEGRAL FIN

MAX. SIZE = 52.125" X 75"

NOTE:

1. FOR BOX FRAME SECTIONS SEE SHEET 6 AND ANCHORAGE INFORMATION SEE SHEETS 9 AND 10.
2. FOR INTEGRAL FIN FRAME SECTIONS SEE SHEET 5 AND ANCHORAGE INFORMATION SEE SHEET11.

Revsd By:	Date:	Revisions:	
D.G.	11/25/08	A	PER MIAMI-DADE LETTER DATED 10/31/08
D.G.	12/18/08	B	ADDED 10" MAX. DIMENSION TO BOX FRAME ELEVATION
JJ	10/07/11	C	NO CHANGE THIS SHEET
Drawn By: D.G.	Date: 08/07/08	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

PGT
Visibly Better

Description: ELEVATIONS

Title: Vinyl Single Hung Window, Large Missile Impact

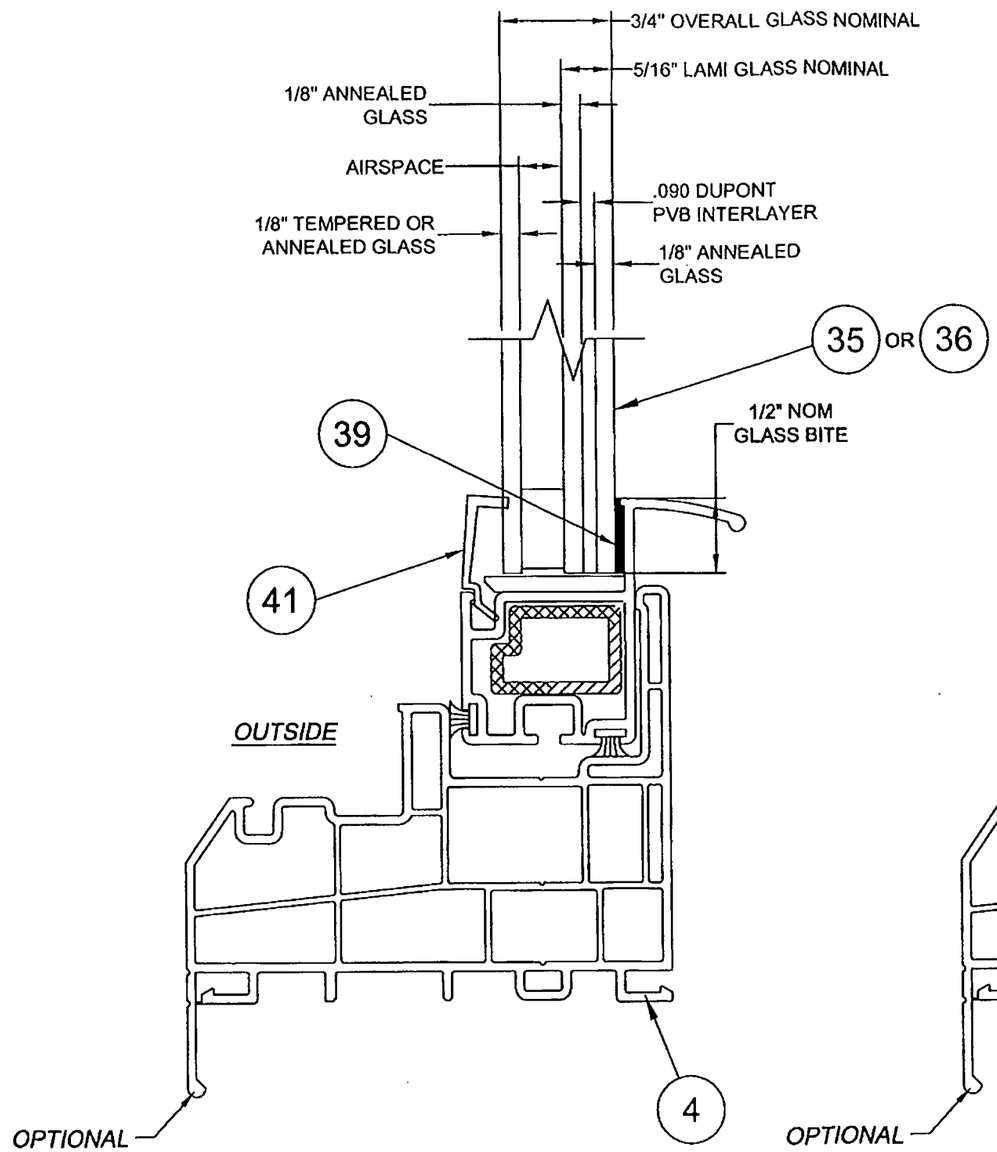
Series/Model:	Scale:	Sheet	Drawing No.	Rev:
SH500	NTS	2 of 11	5191-1	C

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 13-1009.05
Expiration Date 01/08/2019
By Miami Dade Product Control

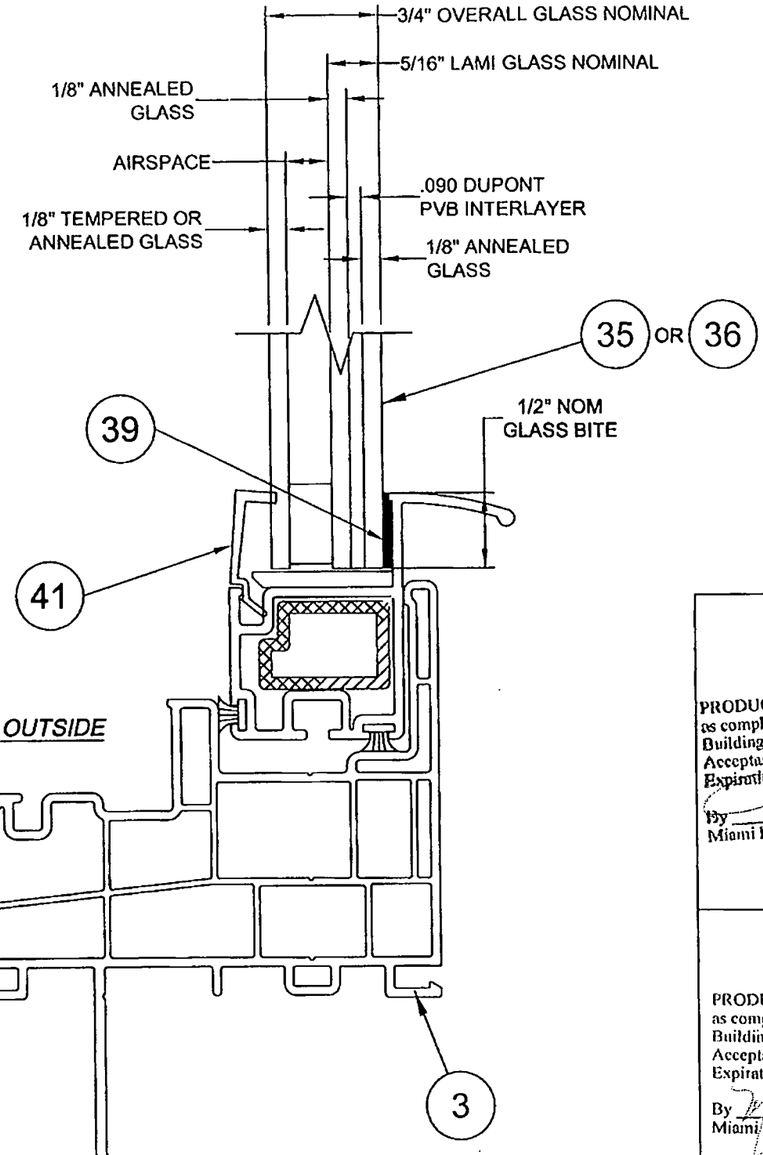
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 11-1013.19
Expiration Date JAN. 8, 2014
By Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
10/10/11

A. LYNN MILLER, P.E.
FL P.E.# 58705



3/4" LAMI I.G. GLAZING DETAIL
WITH 5/16" LAMI GLASS AND 1/8" CAP
BOX OR INTEGRAL FIN FRAME
(BOX FRAME SHOWN)



3/4" LAMI I.G. GLAZING DETAIL
WITH 5/16" LAMI GLASS AND 1/8" CAP
BOX OR INTEGRAL FIN FRAME
(INTEGRAL FIN FRAME SHOWN)

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 13-1009.05
Expiration Date 01/08/2019
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 11-013.19
Expiration Date 10/2/2014
By
Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
10/10/11

A. LYNN MILLER, P.E.
FL P.E.# 58705

Revsd By:	Date:	Revisions:	
D.G.	11/25/08	A	PER MIAMI-DADE LETTER DATED 10/31/08
D.G.	12/18/08	B	NO CHANGE THIS SHEET
JJ	10/07/11	C	NO CHANGE THIS SHEET
Drawn By: D.G.	Date: 08/07/08	Checked By:	Date:

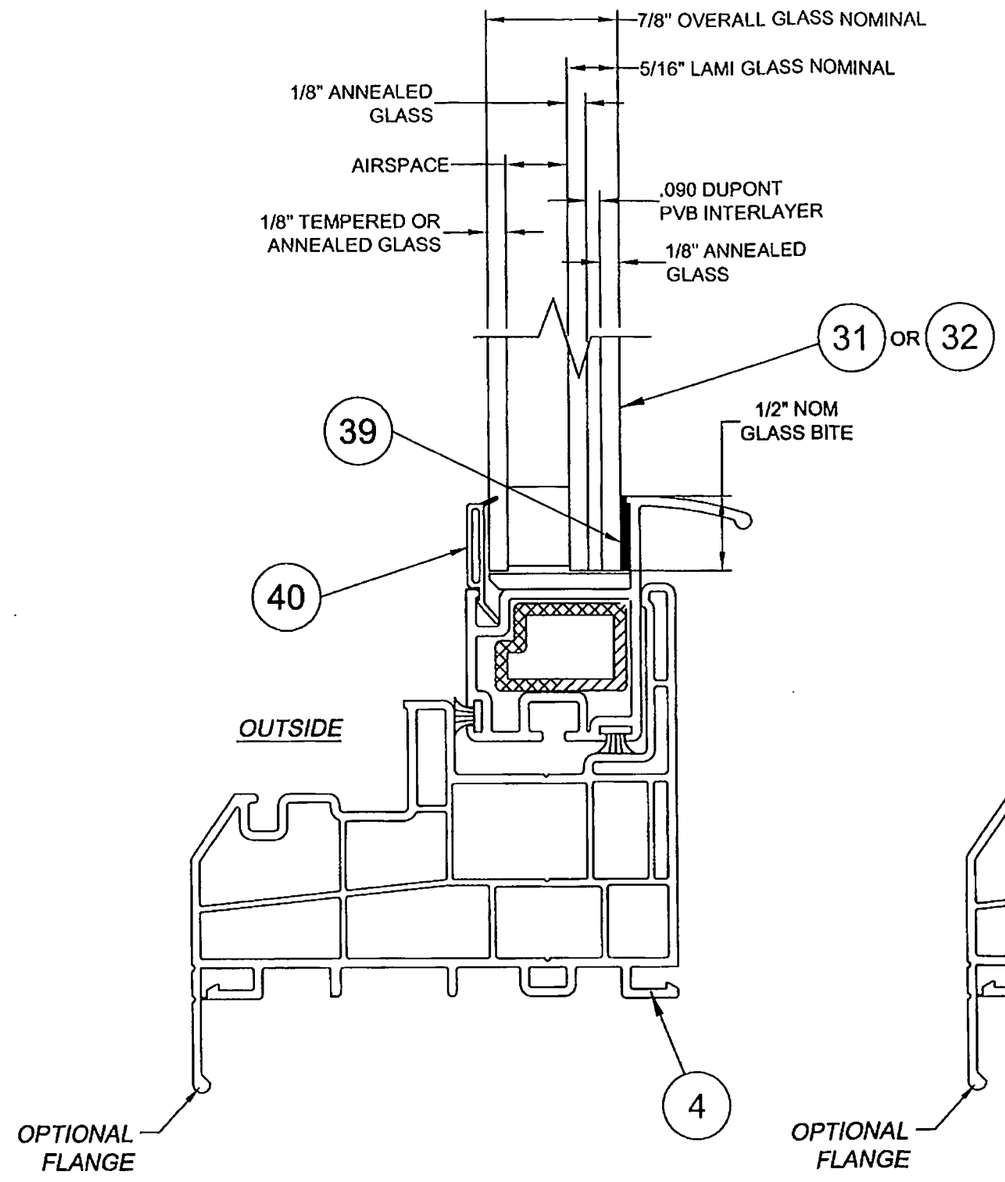
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

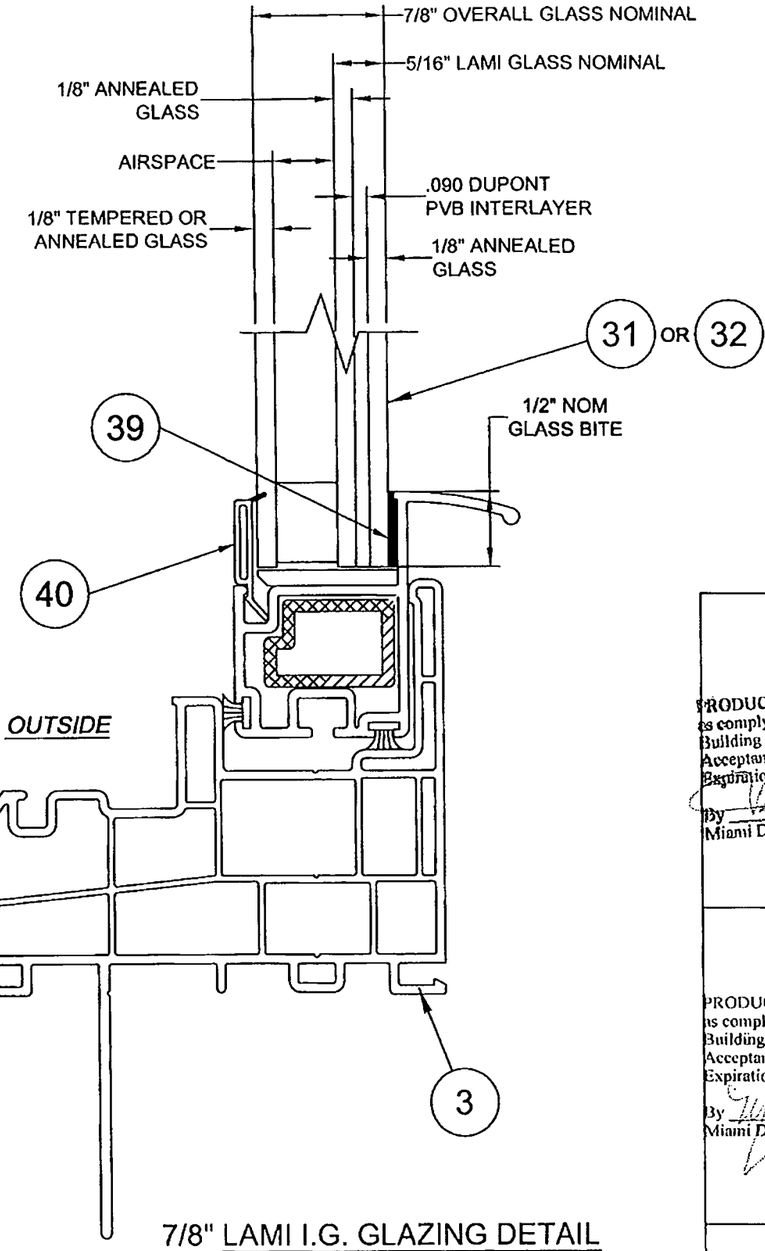
PGT
Visibly Better

Description: GLAZING DETAILS
Title: Vinyl Single Hung Window, Large Missile Impact

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SH500	Full	3 of 11	5191-1	C



7/8" LAMI I.G. GLAZING DETAIL
WITH 5/16" LAMI GLASS AND 1/8" CAP
BOX OR INTEGRAL FIN FRAME
(BOX FRAME SHOWN)



7/8" LAMI I.G. GLAZING DETAIL
WITH 5/16" LAMI GLASS AND 1/8" CAP
BOX OR INTEGRAL FIN FRAME
(INTEGRAL FIN FRAME SHOWN)

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 13-1009.05
Expiration Date 2/10/2019
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 11-1013.19
Expiration Date JAN. 2, 2014
By
Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
10/10/11
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

Revsd By:	Date:	Revisions:	
D.G.	11/25/08	A	PER MIAMI-DADE LETTER DATED 10/31/08
D.G.	12/18/08	B	NO CHANGE THIS SHEET
JJ	10/07/11	C	NO CHANGE THIS SHEET
Drawn By: D.G.	Date: 08/07/08	Checked By:	Date:

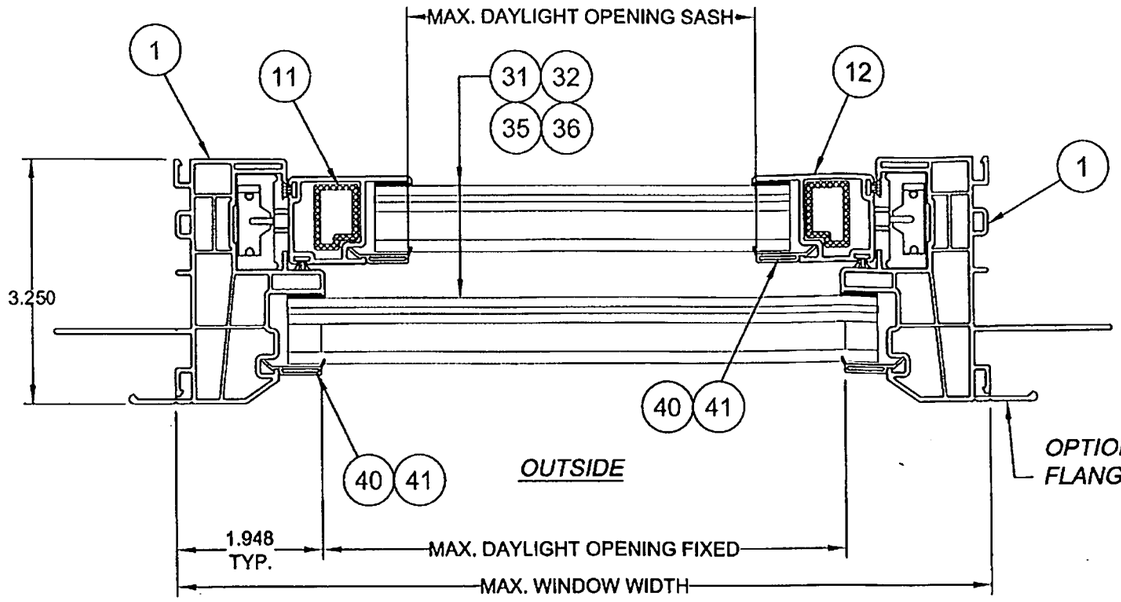
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

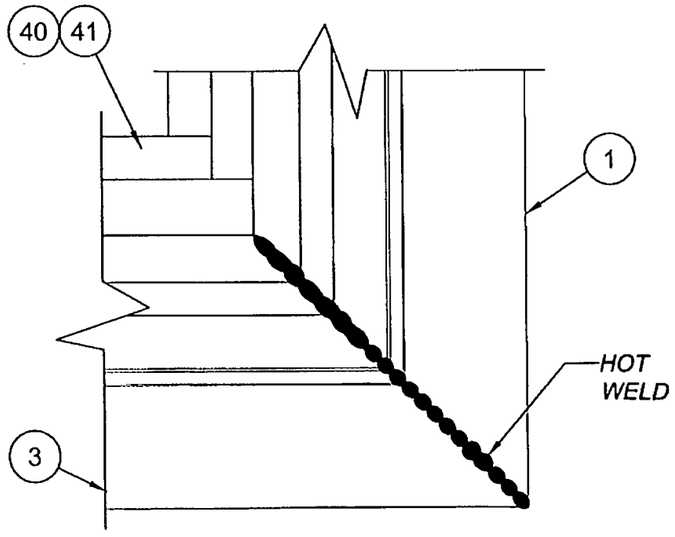
PGT
Visibly Better

Description: GLAZING DETAILS
Title: Vinyl Single Hung Window, Large Missile Impact

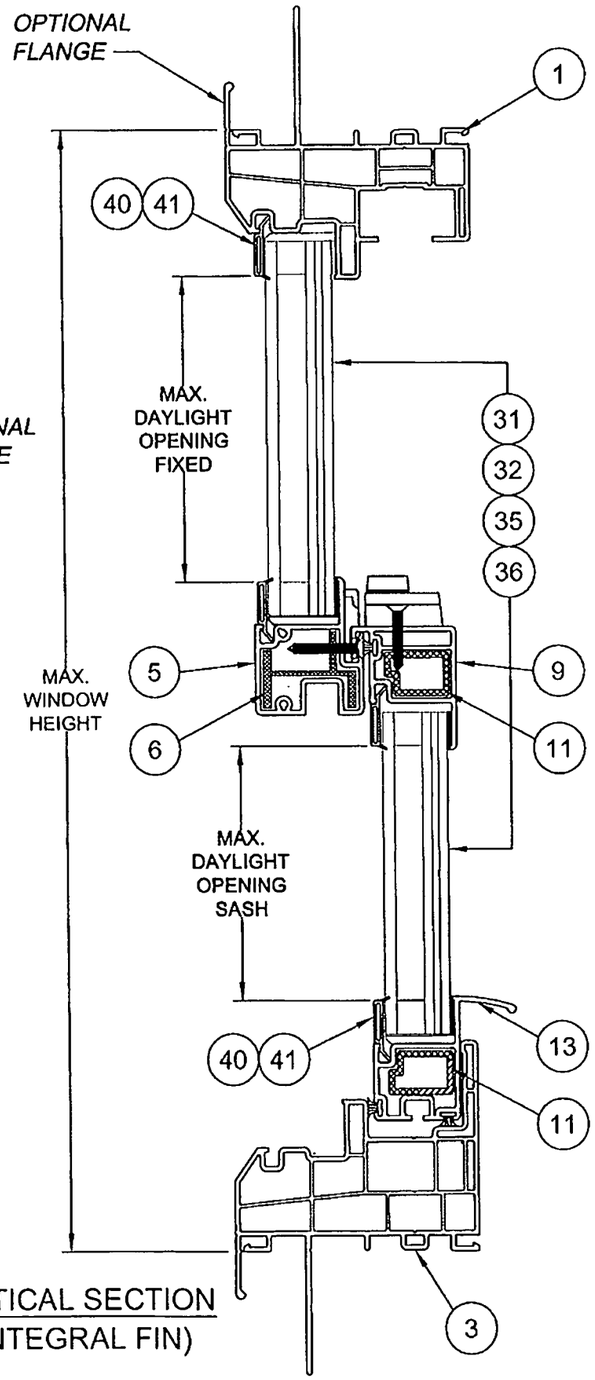
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SH500	NTS	4 of 11	5191-1	C



HORIZONTAL SECTION
(INTEGRAL FIN)



HOT WELD CORNER ASSEMBLY
(INTEGRAL FIN)



VERTICAL SECTION
(INTEGRAL FIN)

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 13-1009.05
Expiration Date 6/10/2019
By Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 11-1013.19
Expiration Date JAN. 5, 2014
By Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
10/10/11
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

Revsd By:	Date:	Revisions:	
D.G.	11/25/08	A	PER MIAMI-DADE LETTER DATED 10/31/08
D.G.	12/18/08	B	NO CHANGE THIS SHEET
JJ	10/07/11	C	NO CHANGE THIS SHEET
Drawn By: D.G.	Date: 08/07/08	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

PGT
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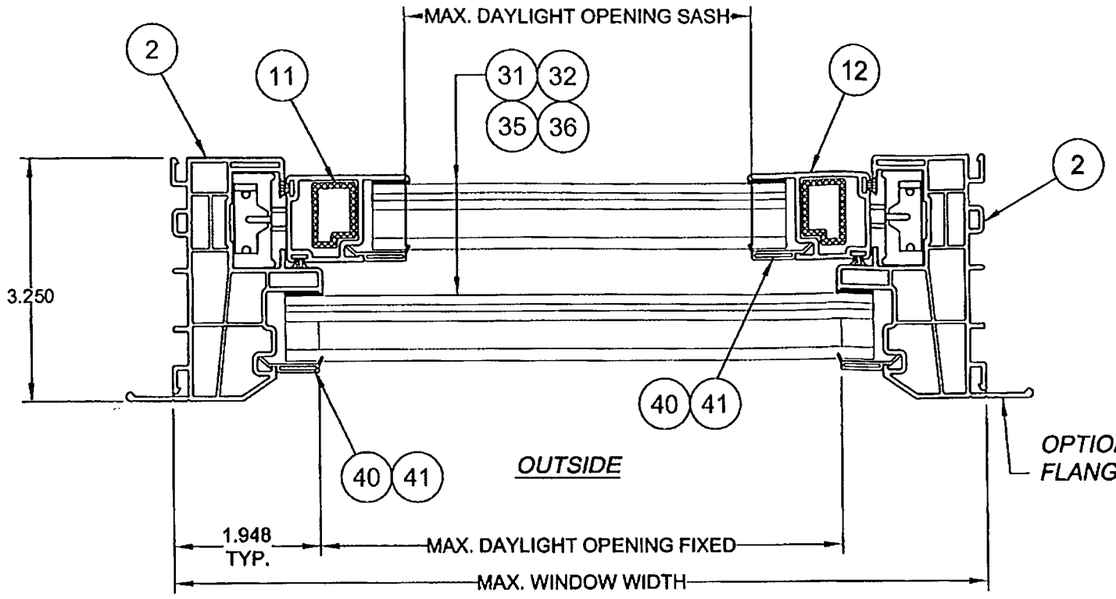
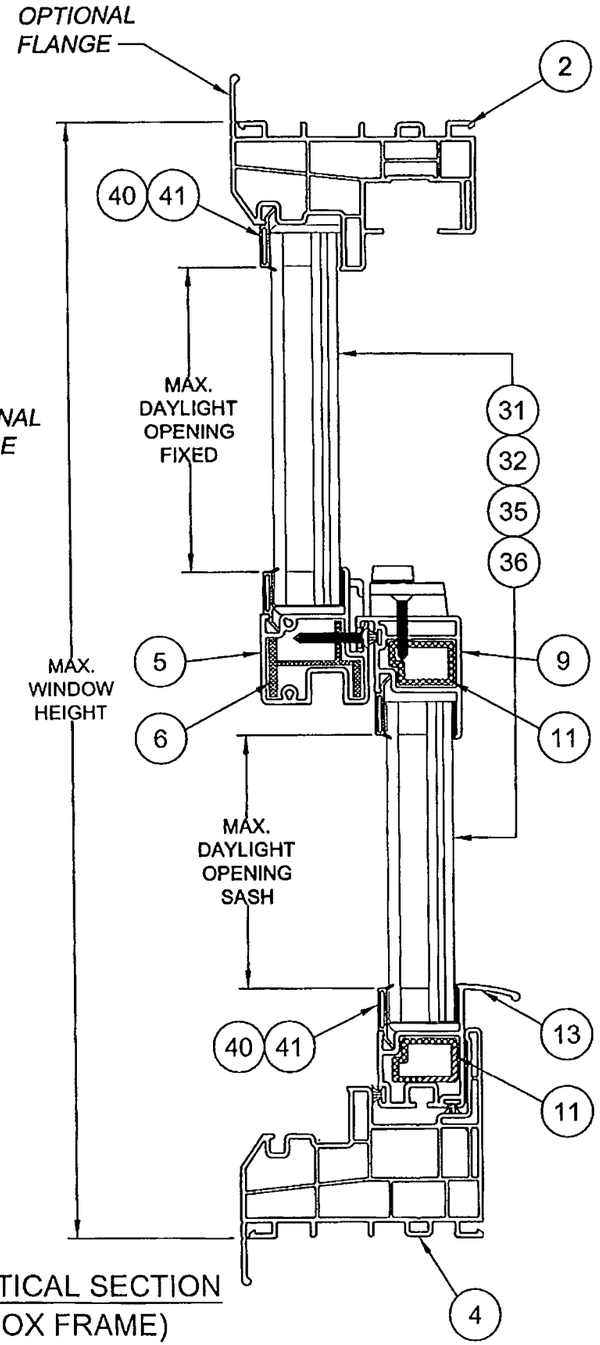
Description: SECTIONS, INTEGRAL FIN FRAME

Title: Vinyl Single Hung Window, Large Missile Impact

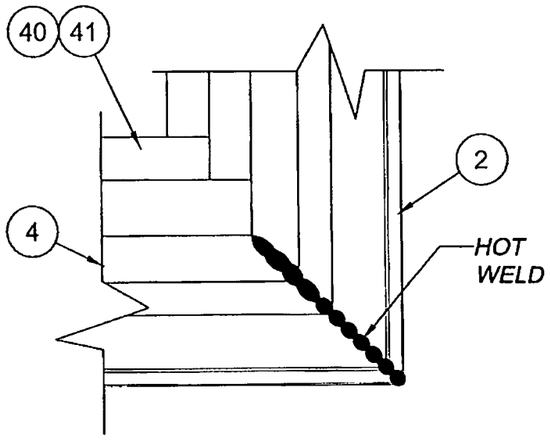
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SH500	NTS	5 of 11	5191-1	C



HORIZONTAL SECTION
(BOX FRAME)



VERTICAL SECTION
(BOX FRAME)



HOT WELD CORNER ASSEMBLY
(BOX FRAME)

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 13-1009.05
Expiration Date 01/08/2019
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 11-1013.18
Expiration Date Jan. 2, 2014
By
Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

Revsd By:	Date:	Revisions:	
D.G.	11/25/08	A	PER MIAMI-DADE LETTER DATED 10/31/08
D.G.	12/18/08	B	NO CHANGE THIS SHEET
JJ	10/07/11	C	NO CHANGE THIS SHEET
Drawn By: D.G.	Date: 08/07/08	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

PGT
Visibly Better

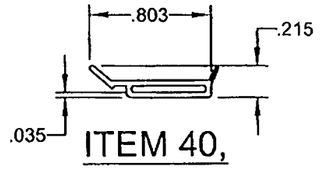
Description: SECTIONS, BOX FRAME

Title: Vinyl Single Hung Window, Large Missile Impact

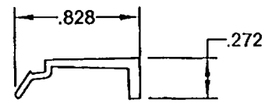
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SH500	Half	6 of 11	5191-1	C

ITEM	DWG NO.	PART #	DESCRIPTION
1	9521	65163	INTEGRAL FIN FRAME HEAD & JAMB
2	9871	69871	BOX FRAME HEAD & JAMB
3	9520	65164	INTEGRAL FIN FRAME SILL
4	9870	69870	BOX FRAME SILL
5	7940	65102	FIXED MEETING RAIL
6	7126.1	65103	MEETING RAIL REINFORCEMENT
7	7942	65109	SASH STOP
8	8873	65117	BALANCE COVERS
9	7092	65105	SASH INTERLOCK
10		61644W	WSTP., .187 X .270 FIN SEAL
11	7092.1	65114	SASH REINFORCEMENT
12	7093	65106	SASH SIDE RAIL
13	7745	65113	SASH LIFT RAIL
14	1669	71669SP	MR SUPPORT PLATE
15	15B110	71694	TILT BALANCE SHOES
16	1686	7FPHPSSPF	PIVOT BARS
17		76208SLAW	CAM SWEEP LOCK
18		76133SLKW	CAM SWEEP LOCK KEEPER
19		79803WF	WEEP HOLE COVER
20		7675RHTL	RH TILT LATCH
21		7675LHTL	LH TILT LATCH
22		71669SP	ALUM. SCREW SUPPORT PLATE
23		71038W	INSTALL HOLE PLUG
24		71684K	SETTING BLOCK
25		71684AK	SETTING BLOCK - SELF ADHESIVE
26		76X1FPTWX	6 X 1" FH TECH (410 SS PAINTED)
27		7612FPTWX	6 X 1/2" FH (410 SS PAINTED)
28		76X2TPA410X	6 X 2" TH VINYL SCREW SS
29		78X114FPAB410X	#8 X 1 1/4"
30		8X1FPAX	#8 X 1"

ITEM	DWG NO.	PART #	DESCRIPTION
31			7/8" LAMI.G. GLASS: 1/8" TEMPERED OUTBOARD - AIRSPACE - 1/8" ANNEALED - .090 PVB INTERLAYER - 1/8" ANNEALED (5/16" LAMI)
32			7/8" LAMI.G. GLASS: 1/8" ANNEALED OUTBOARD - AIRSPACE - 1/8" ANNEALED - .090 PVB INTERLAYER - 1/8" ANNEALED (5/16" LAMI)
33			
34			
35			3/4" LAMI.G. GLASS: 1/8" TEMPERED OUTBOARD - AIRSPACE - 1/8" ANNEALED - .090 PVB INTERLAYER - 1/8" ANNEALED (5/16" LAMI)
36			3/4" LAMI.G. GLASS: 1/8" ANNEALED OUTBOARD - AIRSPACE - 1/8" ANNEALED - .090 PVB INTERLAYER - 1/8" ANNEALED (5/16" LAMI)
37			
38			
39			SILICONE DOW 1199
40	6492	65112	GLAZING BEAD
41	8483	65148	SDL GLAZING BEAD

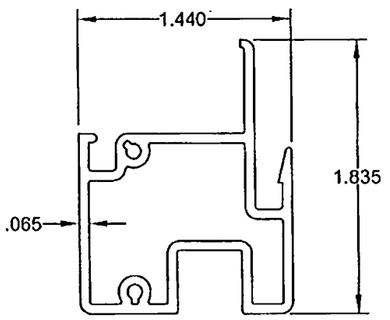


ITEM 40,
I.G. BEAD
MAT'L: White Ridged PVC
by MIKRON Industries, Inc.
DWG NO. 6492

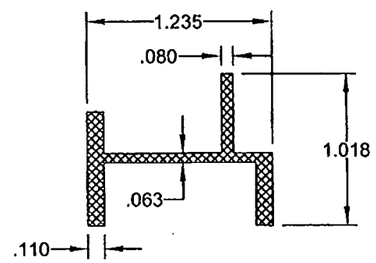


ITEM 41,
SDL BEAD
MAT'L: White Ridged PVC
by MIKRON Industries, Inc.
DWG NO. 8483

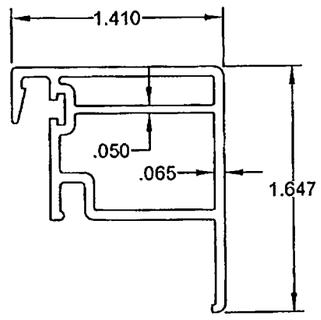
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 13-1009.05
Expiration Date 5/08/2019
By
Miami Dade Product Control



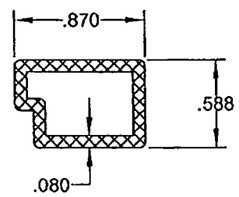
ITEM 5,
FIXED MEETING RAIL
MAT'L: White Ridged PVC
by MIKRON Industries, Inc.
DWG NO. 7940



ITEM 6,
FIXED MTG. RAIL REINF.
MAT'L: Alum. (6063-T6)
DWG NO. 7126.1



ITEM 9,
SASH INTERLOCK
MAT'L: White Ridged PVC
by MIKRON Industries, Inc.
DWG NO. 7092



ITEM 11,
SASH REINFORCEMENT
MAT'L: Alum. (6063-T6)
DWG NO. 7092.1

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 11-1013.14
Expiration Date Jan 2 2014
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
10/10/11
A. LYNN MILLER, P.E.
FL P.E.# 58705

Revsd By:	Date:	Revisions:	
D.G.	11/25/08	A	PER MIAMI-DADE LETTER DATED 10/31/08
D.G.	12/18/08	B	ADDED DIMENSIONS TO ALUM. EXTRUSIONS
JJ	10/07/11	C	NO CHANGE THIS SHEET
Drawn By: D.G.	Date: 08/07/08	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

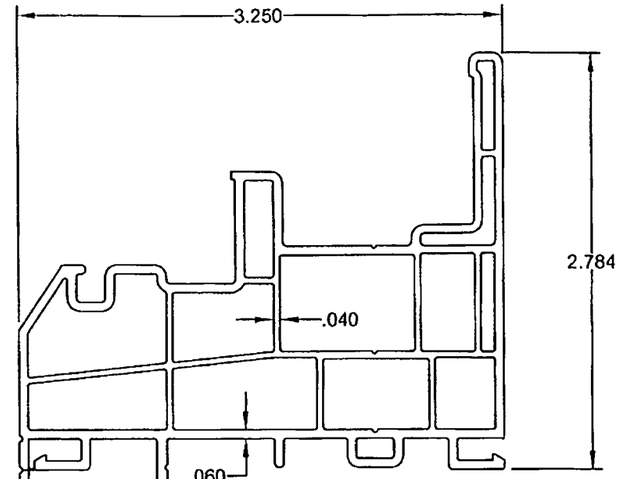
P.O. BOX 1529
NOKOMIS, FL 34274

PGT
Visibly Better

Description: PARTS LIST AND EXTRUSIONS

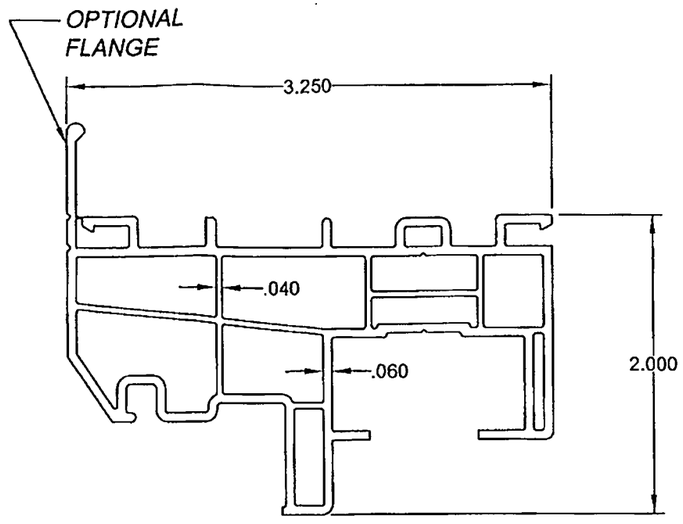
Title: Vinyl Single Hung Window, Large Missile Impact

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SH500	NTS	7 of 11	5191-1	C



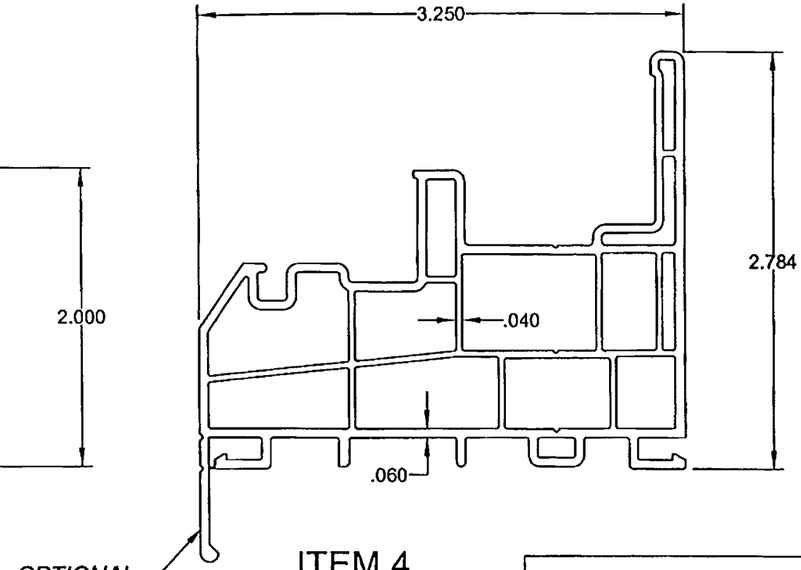
ITEM 3, INTEGRAL FIN SILL

MAT'L: White Ridged PVC by MIKRON Industries, Inc.
DWG NO. 9285



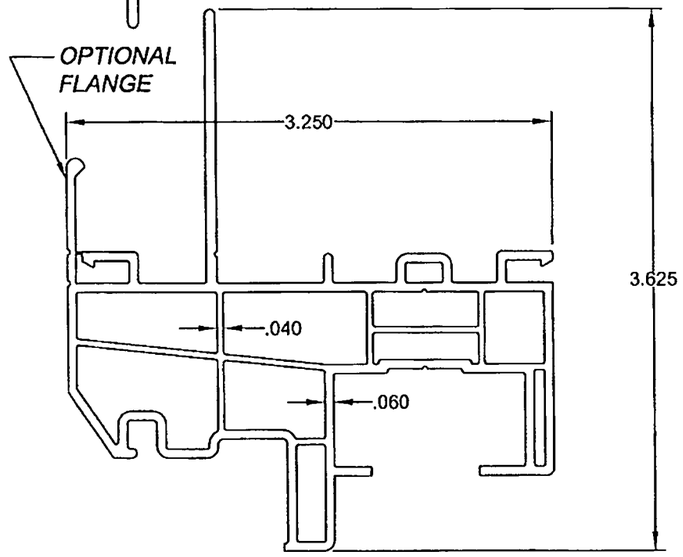
ITEM 2, BOX FRAME HEAD/JAMB

MAT'L: White Ridged PVC
by MIKRON Industries, Inc.
DWG NO. 9288



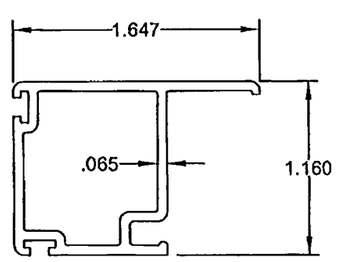
ITEM 4, BOX FRAME SILL

MAT'L: White Ridged PVC
by MIKRON Industries, Inc.
DWG NO. 9286



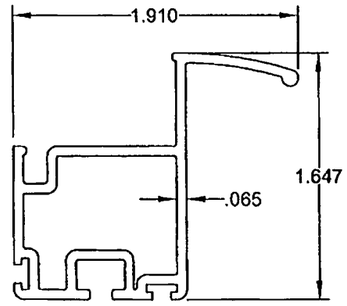
ITEM 1, INTEGRAL FIN HEAD/JAMB

MAT'L: White Ridged PVC by MIKRON Industries, Inc.
DWG NO. 9287



ITEM 12, SASH SIDE RAIL

MAT'L: White Ridged PVC
by MIKRON Industries, Inc.
DWG NO. 7093



ITEM 13, SASH LIFT RAIL

MAT'L: White Ridged PVC
by MIKRON Industries, Inc.
DWG NO. 7745

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 13-1009.05
Expiration Date 01/08/2019
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 11-1013.19
Expiration Date JAN 8 2014
By
Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
10/10/11
A. LYNN MILLER, P.E.
FL P.E.# 58705

Revsd By:	Date:	Revisions:	
D.G.	11/25/08	A	PER MIAMI-DADE LETTER DATED 10/31/08
D.G.	12/18/08	B	NO CHANGE THIS SHEET
JJ	10/07/11	C	NO CHANGE THIS SHEET
Drawn By: D.G.	Date: 08/07/08	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

PGT
Visibly Better

Description: EXTRUSIONS

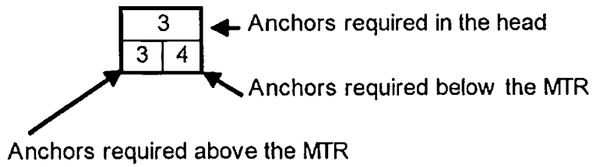
Title: Vinyl Single Hung Window, Large Missile Impact

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SH500	Half	8 of 11	5191-1	C

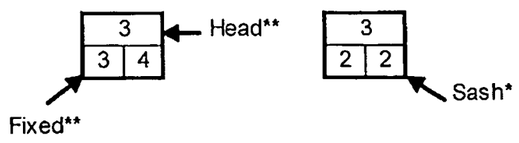
ANCHOR QUANTITIES
TABLE 1

	View			WINDOW WIDTH									
	Fixed	Sash	1/1	16	20	24	28	32	36	40	44	48	52 1/8
WINDOW HEIGHT	X	36	24	2 1 1	2 1 1	2 1 1	2 1 1	2 1 1	3 1 1	3 1 1	3 1 1	3 1 2	3 1 2
	25	45	30	2 1 1	2 1 1	2 1 1	2 1 1	2 1 1	3 1 1	3 1 2	3 1 2	3 1 2	3 1 2
	30	54	36	2 1 1	2 1 1	2 1 1	2 1 1	2 1 2	3 1 2	3 1 2	3 1 2	3 1 2	3 1 2
	35	62 1/2	42	2 1 2	2 1 2	2 1 2	2 1 2	2 1 2	3 1 2	3 1 2	3 2 2	3 2 2	3 2 2 *
	40	X	48	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	3 2 2	3 2 2	3 2 2	3 2 3	3 2 3
	45	X	54	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	3 2 2	3 2 2	3 2 3	3 2 3	3 2 3
	50	X	60	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	3 2 2	3 2 3	3 2 3	3 2 3	3 2 3
	55	X	66	2 2 3	2 2 3	2 2 3	2 2 3	2 2 3	3 2 3	3 2 3	3 2 3	3 2 3	3 3 4
	60	X	72	2 2 3	2 2 3	2 2 3	2 2 3	2 2 3	3 2 3	3 2 3	3 3 3	3 3 4	3 3 4
	62 1/2	X	75	2 3 3	2 3 3	2 3 3	2 3 3	2 3 3	3 3 3	3 3 3	3 3 3	3 3 4	3 3 4 **

Example: 52.125 x 75 For 1/1 Windows



Example: 52.125 x 62.500 For View Windows



NOTE: FOR VIEW WINDOWS USE VIEW FIXED WINDOW HEIGHT FOR ANCHOR QUANTITY IN HEAD AND ABOVE THE MTR, AND USE THE VIEW SASH WINDOW HEIGHT FOR ANCHOR QUANTITY BELOW THE MTR. MAXIMUM HEIGHT FOR VIEW WINDOW IS 62 1/2".

NOTE: FOR VIEW WINDOW THE LARGEST CAN NOT EXCEED THE TESTED SIZE.

ANCHORAGE NOTES FOR BOX FRAME:

1. ANCHOR TYPES: 1 - 3/16" ULTRACONS
   2 - #10 SCREWS

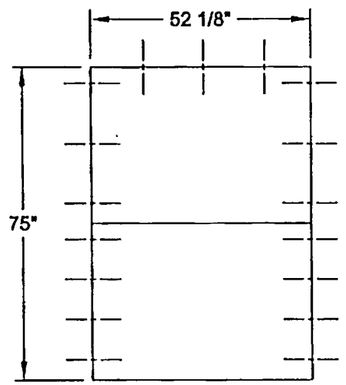
2. ANCHOR LOCATIONS ARE BASED ON THE FOLLOWIING DIMENSIONS.
   HEAD - 6" MAX. FROM TOP CORNERS
   JAMBS - 9" MAX. FROM TOP CORNERS*
   (*NOT TO EXCEDE 1/4 OF TOTAL WINDOW HEIGHT)
   6" MAX. FROM BOTTOM CORNERS
   4" MIN. BELOW MTG. RAIL
   SILL - ANCHORS NOT REQUIRED

3. INSTALL PER THE ADJACENT TABLE ANCHOR QUANTITIES USING THE DIMENSIONAL CRITERIA OF NOTE 2.

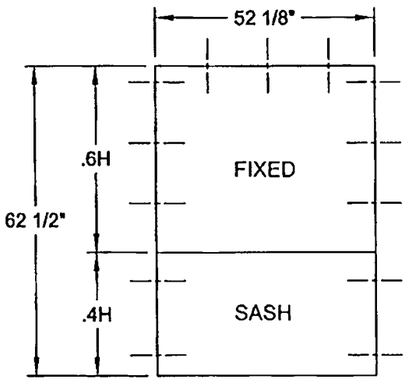
4. ANCHORAGE SHOWN FOR BOX FRAME WITH OR WITHOUT OPTIONAL FLANGE.

5. FOR INTEGRAL NAIL FIN FRAME ANCHORAGE, SEE SHEET 11.

1/1 WINDOW



VIEW WINDOW



PRODUCT RENEWED
As complying with the Florida Building Code
Acceptance No 13-1009.05
Expiration Date 2/10/2019
By
Miami Dade Product Control

PRODUCT REVISED
As complying with the Florida Building Code
Acceptance No 11-1013.19
Expiration Date JAN. 5 2014
By
Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
10/10/11
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

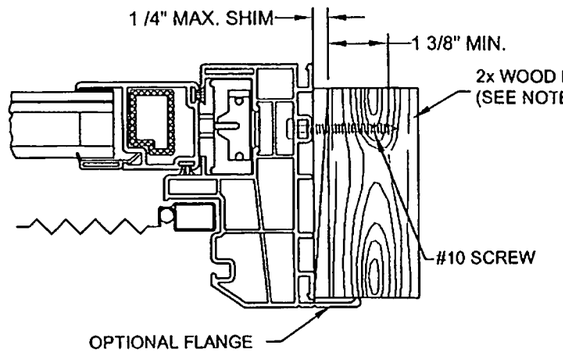
Revsd By:	Date:	Revisions:	
D.G.	11/25/08	A	PER MIAMI-DADE LETTER DATED 10/31/08
D.G.	12/18/08	B	ADDED AND MODIFIED VIEW WINDOW EXAMPLES
JJ	10/07/11	C	NO CHANGE THIS SHEET
Drawn By: D.G.	Date: 08/07/08	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

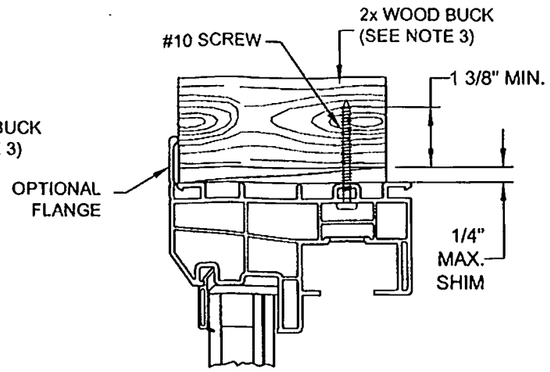
PGT Visibly Better

Description: ANCHORAGE SPACING
Title: Vinyl Single Hung Window, Large Missile Impact

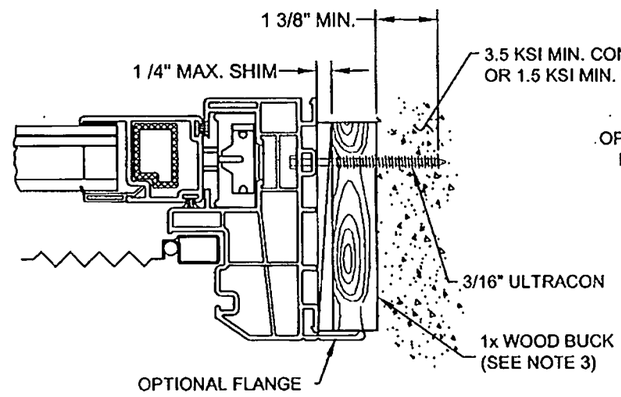
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SH500	NTS	9 of 11	5191-1	C



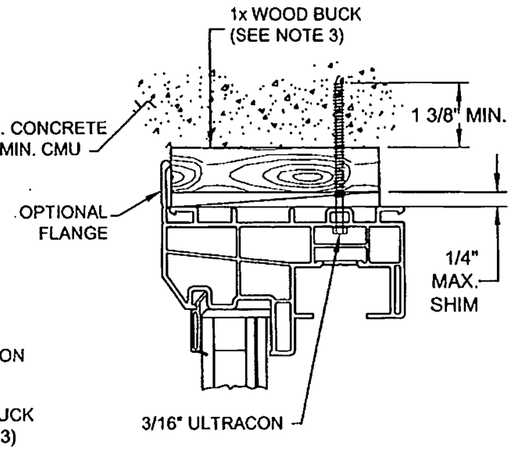
JAMB W/ BOX FRAME
THROUGH FRAME INTO 2x WOOD



HEAD W/ BOX FRAME
THROUGH FRAME INTO 2x WOOD



JAMB W/ BOX FRAME
THROUGH FRAME INTO CONCRETE
1x BUCK OPTIONAL



HEAD W/ BOX FRAME
THROUGH FRAME INTO CONCRETE
1x BUCK OPTIONAL

NOTES:

1. FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED 3/16" ULTRACON, EMBEDED 1 3/8" MIN., DISTANCE FROM ANCHOR TO CONCRETE EDGE IS 1" MINIMUM.
2. FOR WOOD APPLICATIONS IN MIAMI-DADE COUNTY, USE #10 STEEL SCREW, EMBEDED 1 3/8" MIN..
3. WOOD BUCKS DEPICTED IN THE SECTIONS ON THIS PAGE AS 1x ARE BUCKS WHOSE TOTAL THICKNESS IS LESS THAN 1 1/2". 1x WOOD BUCKS ARE OPTIONAL IF UNIT CAN BE INSTALLED DIRECTLY TO SOLID CONCRETE. WOOD BUCKS DEPICTED AS 2x ARE 1 1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY AUTHORITY HAVING JURISDICTION.
4. FOR ATTACHMENT TO ALUMINUM: THE MATERIAL SHALL BE A MINIMUM STRENGTH OF 6063-T5 AND A MINIMUM OF 1/8" THICK. THE ALUMINUM STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE WINDOW FRAME SIMILAR TO THAT SHOWN IN THESE DETAILS FOR 2x WOOD BUCKS. THE ANCHOR SHALL BE A #10 SHEET METAL SCREW WITH FULL ENGAGEMENT INTO THE ALUMINUM. IF THESE CRITERIA ARE MET, THE RESPECTIVE DESIGN PRESSURES AND ANCHORAGE SPACING FOR ULTRACONS MAY BE USED.

Revsd By:	Date:	Revisions:	
D.G.	11/25/08	A	PER MIAMI-DADE LETTER DATED 10/31/08
D.G.	12/18/08	B	NO CHANGE THIS SHEET
JJ	10/07/11	C	NO CHANGE THIS SHEET
Drawn By: D.G.	Date: 08/07/08	Checked By:	Date: .G.

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

PGT
Visibly Better

Description: ANCHORAGE DETAILS - BOX FRAME
Title: Vinyl Single Hung Window, Large Missile Impact

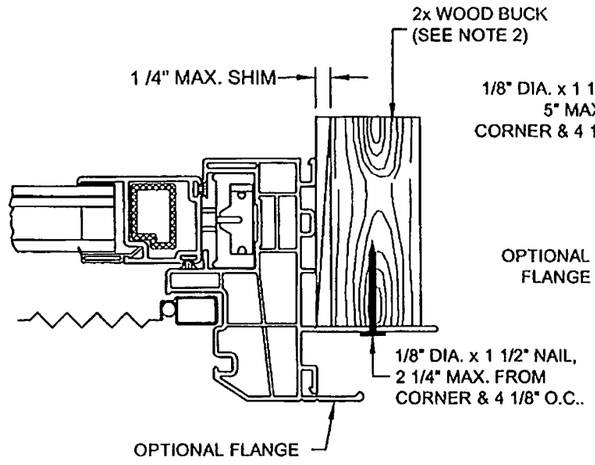
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SH500	NTS	10 of 11	5191-1	C

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 13-1009.05
Expiration Date 01/08/2019
By
Miami Dade Product Control

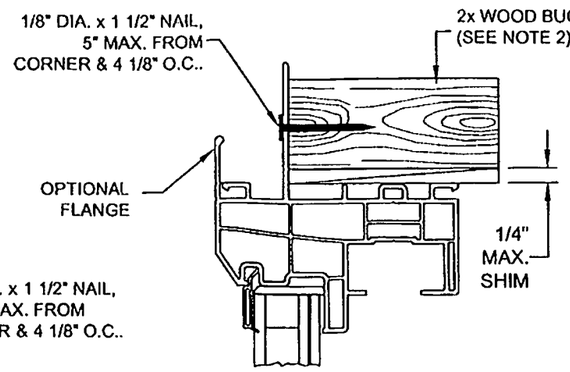
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 11-1013.19
Expiration Date JAN 3 2014
By
Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
10/10/19

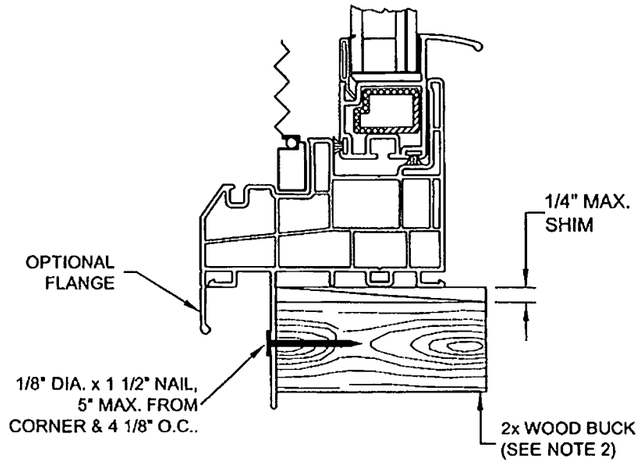
A. LYNN MILLER, P.E.
FL P.E.# 58705



JAMB W/ NAIL FIN
THRU NAIL FIN INTO WOOD FRAMING



HEAD W/ NAIL FIN
THRU NAIL FIN INTO WOOD FRAMING



SILL W/ NAIL FIN
THRU NAIL FIN INTO WOOD FRAMING

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 13-1009.05
Expiration Date 01/08/2019
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 14-1013.19
Expiration Date Jan. 8, 2014
By
Miami Dade Product Control

NOTES:

1. FOR INTEGRAL FIN APPLICATIONS IN MIAMI-DADE COUNTY, USE 1/8" DIA. x 1 1/2" NAIL.
2. WOOD BUCKS DEPICTED IN THE SECTIONS ON THIS PAGE AS 1x ARE BUCKS WHOSE TOTAL THICKNESS IS LESS THAN 1 1/2". 1x WOOD BUCKS ARE OPTIONAL IF UNIT CAN BE INSTALLED DIRECTLY TO SOLID CONCRETE. WOOD BUCKS DEPICTED AS 2x ARE 1 1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY AUTHORITY HAVING JURISDICTION.
3. FOR ATTACHMENT TO ALUMINUM: THE MATERIAL SHALL BE A MINIMUM STRENGTH OF 6063-T5 AND A MINIMUM OF 1/8" THICK. THE ALUMINUM STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE WINDOW FRAME SIMILAR TO THAT SHOWN IN THESE DETAILS FOR 2x WOOD BUCKS. THE ANCHOR SHALL BE A #10 SHEET METAL SCREW WITH FULL ENGAGEMENT INTO THE ALUMINUM. IF THESE CRITERIA ARE MET, THE RESPECTIVE DESIGN PRESSURES AND ANCHORAGE SPACING FOR ULTRACONS MAY BE USED.

Revsd By:	Date:	Revisions:	
D.G.	11/25/08	A	PER MIAMI-DADE LETTER DATED 10/31/08
D.G.	12/18/08	B	NO CHANGE THIS SHEET
JJ	10/07/11	C	NO CHANGE THIS SHEET
Drawn By: D.G.	Date: 08/07/08	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

PGT
Visibly Better

Description: ANCHORAGE DETAILS - Integral Fin Frame

Title: Vinyl Single Hung Window, Large Missile Impact

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SH500	NTS	11 of 11	5191-1	C

ANTHONY LYNN MILLER
LICENSE
No. 58705
10/10/14
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

MIAMI-DADE COUNTY
DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

PGT Industries
1070 Technology Drive,
Nokomis, Fl. 34275

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).
This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "570/2770" Vinyl Sliding Glass Door (Reinforced)-L.M.I.

APPROVAL DOCUMENT: Drawing No. MD-SGD570-01 Rev B, titled "Vinyl SGD", sheets 1 through 13 of 13, prepared by manufacturer, dated 10/11/11 and last revised on 02/04/14, signed and sealed by Anthony L. Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

Limitations:

1. **See table 2 (sheet 8), table 3 (sheet 9) and table 4 (sheet 9) of this approved drawing set for applicable SGD unit sizes, design pressures, reinforcements types, glass types, sill riser (detail sheet 6) and anchors requirements. See sheet (8) for various panels configurations and limitations.**
2. **Rigid White PVC, Tan (Non-white) Rigid PVC and Brown coated (Painted or laminated) white Rigid PVC to be labeled per referenced NOA9s) requirements.**
3. **Egress operable doors must comply with min clear width or height per FBC, as applicable.**
4. **Pocket walls under separate approval, to be reviewed by Building official.**

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 11-1018.19 and consists of this page 1 and evidence pages E-1 & E-2, as well as approval document mentioned above.
The submitted documentation was reviewed by Isiah I. Chanda, P.E.

MIAMI-DADE COUNTY APPROVED

Signature _____ Date 12/23/14

NOA No 13-1125.05
Expiration Date: April 14, 2016
Approval Date: February 13, 2014

2/10/14

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections (Submitted under files # 11-1018.19 /#11-0107.04).
2. Drawing No. **MD-SGD570-01 Rev B**, titled "Vinyl SGD", sheets 1 through 13 of 13, prepared by manufacturer, dated 10/11/11 and last revised on 02/04/14, signed and sealed by Lynn Miller, P.E.

Note: This revision consists of series changes, addition of Tan & Brown coated PVC and non-sill riser water rating use and limitations.

B. TESTS (Submitted under files # 11-1018.19 /#11-0107.04)

1. Test report on 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94.
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC 2411.3.2.1 (b) and TAS 202-94

along with marked-up drawings and installation diagram of vinyl sliding glass door, prepared by Fenestration Testing Lab, Inc., Test Report No. **FTL 6638** (samples A-1 thru A-22), dated 11/19/10, signed and sealed by Jorge A. Causo, P. E.

(The above test report has an addendum letter dated 3-11-11, issued by FTL, signed and sealed by Marlin D. Brinson, P.E. (reviewing Engineer).

2 Additional test report No. **FTL 6637** (samples A-1 thru A-5) per TAS 202-94, issued by Fenestration Testing Lab, Inc., dated 12/06/10, signed and sealed by Jorge A. Causo, P. E.

C. CALCULATIONS (Submitted under files # 11-1018.19 /#11-0107.04)

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by PGT, dated 02/16/11 and last revised on 3-11-11, signed and sealed by Anthony L. Miller, P.E.
2. Glazing complies with ASTME-1300-02 &-04

D. QUALITY ASSURANCE

1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **10-0420.06** issued to Vision Extrusion Ltd for their "**White Rigid PVC**", expiring on 09/30/14.
2. Notice of Acceptance No. **11-0902.10** issued to Vision Extrusion Ltd for their "**VE 1000 Tan (Non-White) Rigid PVC**", expiring on 12/29/16.
3. Notice of Acceptance No. **12-1017.01** issued to Vision Extrusion Ltd for their "Brown Coated (Painted or Laminated) **White Rigid PVC**", expiring on 09/30/14
4. Test reports No(s). 10-002-792(A), 10-006-10231, 535753-09, per ASTME-84, ASTMD1929 and ASTMD-635, issued by EXOVA to Vision Extrusion for cellulosic composite material.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 13-1125.05
Expiration Date: April 14, 2016
Approval Date: February 13, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS (continue):

5. Notice of Acceptance No. **11-0624.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass ®**", expiring on 01/14/17.
6. Notice of Acceptance No.**11-0624.01** issued to E.I. DuPont DeNemours for "**Butacite PVB Interlayer**", expiring on 12-11-2016.

F. STATEMENTS

1. Statement letters dated NOV 14, 2013 of compliance to FBC 2010 and "No financial interest", prepared by PGT, signed & sealed by Lynn Miller, P.E
2. Statement letters dated OCT 11, 2011 of compliance to FBC 2007 & FBC 2010 and "No financial interest", prepared by PGT, signed & sealed by Lynn Miller, P.E. (Submitted under file **#11-0107.04**)
3. Letter of lab compliance, part of the above test reports.

G. OTHER

1. This NOA **revises #11-1018.19 (# 11-0107.04)**, expiring April 14, 2016.
2. PGT e-mail dated 02/04/2014 and 11/23/11 by Lynn Miller, P.E. confirming extent of revisions.
3. Test proposal # **10-0767**, dated 08/25/10 approved by BCCO.
4. Test verification calculation dated 07/30/10, prepared by PGT, Anthony L. Miller, P.E.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 13-1125.05
Expiration Date: April 14, 2016
Approval Date: February 13, 2014

GENERAL NOTES: SERIES 570 & 2770 LARGE MISSILE, IMPACT-RESISTANT, VINYL, REINFORCED SLIDING GLASS DOOR

DESIGN PRESSURE RATING	IMPACT RATING
VARIES, SEE SHEETS 8 & 9	LARGE & SMALL MISSILE IMPACT

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE. THE RIGID WHITE, BROWN & TAN PVC MANUFACTURED BY VISION EXTRUSIONS, LTD. HAS BEEN TESTED TO COMPLY WITH THE FLORIDA BUILDING CODE FOR PLASTICS, (COMPONENT REQUIREMENTS).

2) GLAZING TYPE OPTIONS: (FROM EXTERIOR TO INTERIOR); T=TEMPERED, HS=HEAT STRENGTHED, AN=ANNEALED, SG=.090 DUPONT SENTRYGLAS (FORMERLY KNOWN AS SENTRYGLAS® PLUS), PVB=.090" DUPONT BUTACITE PVB:
GLASS TYPE A: 3/16" HS GLASS + .090" SG INTERLAYER + 3/16" HS GLASS + 7/16" AIR SPACE + 3/16" T CAP
GLASS TYPE B: 3/16" HS GLASS + .090" PVB INTERLAYER + 3/16" AN GLASS + 7/16" AIR SPACE + 3/16" T CAP
GLASS TYPE C: 3/16" HS GLASS + .090" PVB INTERLAYER + 3/16" AN GLASS + 9/16" AIR SPACE WITH HEAT-MIRROR FILM + 3/16" T CAP
APPROVED BACKBEDDINGS ARE GE 7700 AND DOW-CORNING 995.

3) FOR MASONRY APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY THE FOLLOWING MIAMI-DADE COUNTY APPROVED MASONRY ANCHORS: 1/4" ELCO ULTRACON OR 1/4" ELCO CRETEFLEX. SEE TABLE 1, SHEET6 FOR DETAILS.

4) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 1, SHEET 6. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

5) IF SILL IS TIGHT TO SUBSTRATE, GROUT IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, 3400 PSI MIN., (DONE BY OTHERS) (MAX. 1/4" SHIM SPACE FOR GROUT) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE. IF SUBSTRATE IS WOOD, 30# FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION, COMPLYING WITH FBC.

6) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE THE EMBEDMENTS SHOWN ON TABLE 1, SHEET 6. PROPER SEALING OF ENTIRE ASSEMBLY IS THE RESPONSIBILITY OF OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

7) DESIGN PRESSURES:
A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E-1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E-1300.

8) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

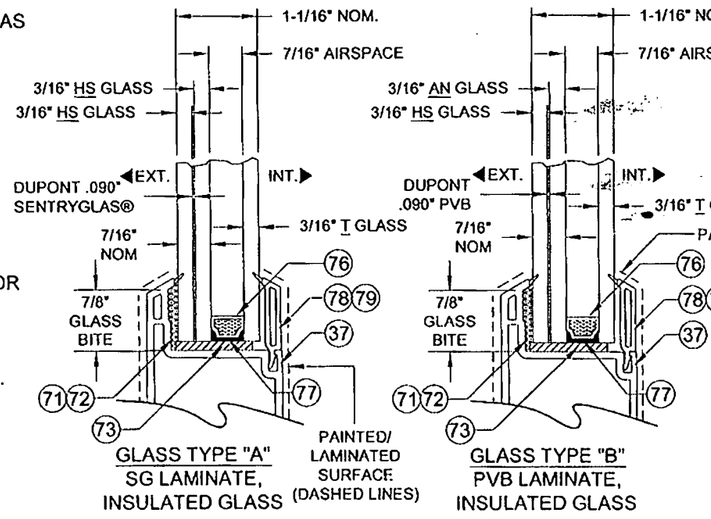
9) SHUTTERS ARE NOT REQUIRED.

10) SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER THE FLORIDA BUILDING CODE. MAXIMUM OF (8) EIGHT PANEL CONFIGURATION FOR FRAME HEIGHTS UP TO 96" OR (4) FOUR PANEL CONFIGURATION FOR FRAME HEIGHTS OVER 96" AND UP TO 120".

11) REFERENCES: TEST REPORTS FTL-6337 & 6338; EXOVA-10-002-792(A) & 10-006-10231; CAMBRIDGE 535753-09; ELCO ULTRACON PER CURRENT NOA; ELCO CRETEFLEX PER CURRENT NOA; VISION EXTRUSION, LTD: WHITE RIGID PVC PER CURRENT NOA, VE 1000 TAN 202 AND LIGHTER SHADES (NON-WHITE) RIGID PVC PER CURRENT NOA AND BROWN COATED (PAINTED OR LAMINATED) WHITE RIGID PVC PER CURRENT NOA; ANSI/AF&PA NDS-2005 FOR WOOD CONSTRUCTION AND ADM-2005 ALUMINUM DESIGN MANUAL

12) THE 2770 SERIES USES A EITHER A PVB OR SENTRYGLAS, (SG) INTERLAYER. UNITS GLAZED WITH GLASS CONTAINING SG INTERLAYER WERE PREVIOUSLY KNOWN AS THE 2870 SERIES.

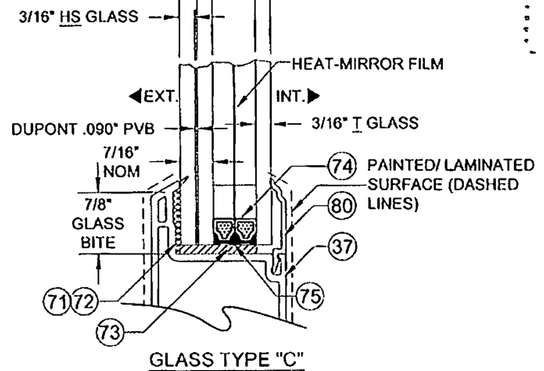
INSTRUCTIONS:
1) KNOWING THE REQUIRED DESIGN PRESSURE OF THE OPENING, THE ANCHOR REQUIREMENTS FOR THE SLIDING GLASS DOORS MAY BE DETERMINED FROM THE DESIGN PRESSURE TABLES. FOR GLASS TYPES B OR C, USE TABLE 4, SHEET 9. FOR GLASS TYPE A, USE TABLE 3, SHEET 9 IF THE REQUIRED DESIGN PRESSURE IS ABOVE 80 PSF, OTHERWISE USE TABLE 2, SHEET 8.
2) LOCATE THE SLIDING GLASS DOOR SIZE ON THE TABLE, USING THE FRAME HEIGHT AND THE NOMINAL PANEL WIDTH. WHEN FINDING YOUR SIZE IN THE TABLE, ALWAYS ROUND UP TO THE NEXT LISTED SIZE.
3) CHOSE WHICH ANCHOR OPTION (A-D) IS MOST APPLICABLE. ANCHORS ARE DEFINED IN TABLE 1, SHEET 6, ALONG WITH THE APPROPRIATE SUBSTRATE, MINIMUM EMBEDMENT AND MINIMUM EDGE DISTANCE.
4) FROM THE DESIGN PRESSURE TABLES (TABLES 2-4, SHEETS 8 & 9), VERIFY THAT THE REQUIRED DESIGN PRESSURE IS MET OR EXCEEDED. USE THE ANCHOR QUANTITIES SHOWN.
5) INSTALL AS PER THE INSTRUCTIONS AND DETAILS ON SHEETS 2-7.
6) ADDITIONAL INSTALLATION CLIPS MUST BE INSTALLED AS SHOWN ON SHEET 7.



GLASS TYPE "A"
SG LAMINATE, INSULATED GLASS

GLASS TYPE "B"
PVB LAMINATE, INSULATED GLASS

NOTE: BACKBEDDING SURFACES SHALL NOT BE PAINTED OR LAMINATED.



GLASS TYPE "C"
PVB LAMINATE, INSULATED WITH HEAT-MIRROR FILM GLASS

NOA DRAWING MAP

PRODUCT REVISED to complying with the Florida Building Code
Acceptance No. 13-1125.05
Expiration Date APR. 14, 2016
By Ishaq I. Chanda
Miami-Dade Product Control

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
2/4/14
A. LYNN MILLER, P.E.
P.E.# 58705

PGT®
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
CERT. OF AUTH. #29296

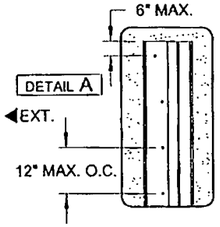
Revised By:	Date:	Revision:
J.J.	10/11/11	FBC 2010 CODE
J.R.	11/05/13	RENAMED 2870

Description:	Drawn By:
GENERAL NOTES & GLASS TYPES	J ROSOWSKI

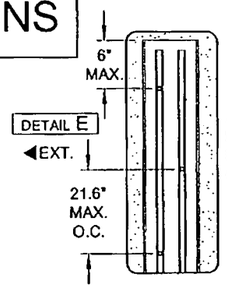
Title:	Date:
VINYL SGD INSTALLATION GUIDELINES	11/18/10

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
570/2770	NTS	1 OF 13	MD-SGD570-01	B

2-TRACK CONFIGURATIONS



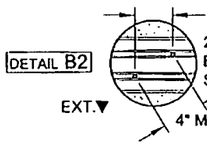
ANCHOR LOCATIONS FOR POCKET CONDITIONS. ANCHORS INTO P-HOOK.



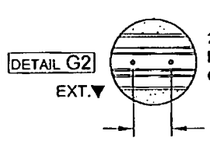
ANCHOR LOCATIONS FOR BYPASS CONDITIONS.

1 ANCHOR @ CENTER OF EACH PANEL. SEE TABLES ON SHEETS 8 & 9.

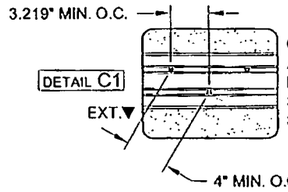
1 ANCHOR @ CENTER OF EACH PANEL. SEE TABLES ON SHEETS 8 & 9.



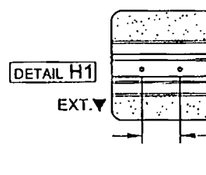
2 ANCHORS @ CENTER OF EACH PANEL. SEE TABLES ON SHEETS 8 & 9.



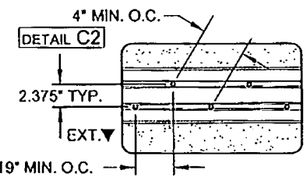
2 ANCHORS @ CENTER OF EACH PANEL. SEE TABLES ON SHEETS 8 & 9.



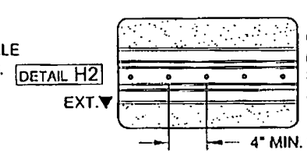
CLUSTER OF 3 ANCHORS @ STILE INTERSECTIONS. SEE TABLES ON SHEETS 8 & 9.



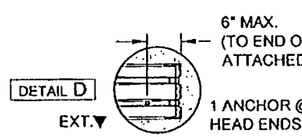
CLUSTER OF 3 ANCHORS @ STILE INTERSECTIONS. SEE TABLES ON SHEETS 8 & 9.



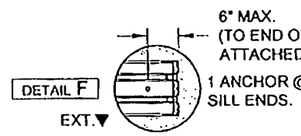
CLUSTER OF 5 ANCHORS @ STILE INTERSECTIONS. SEE TABLES ON SHEETS 8 & 9.



CLUSTER OF 5 ANCHORS @ STILE INTERSECTIONS. SEE TABLES ON SHEETS 8 & 9.

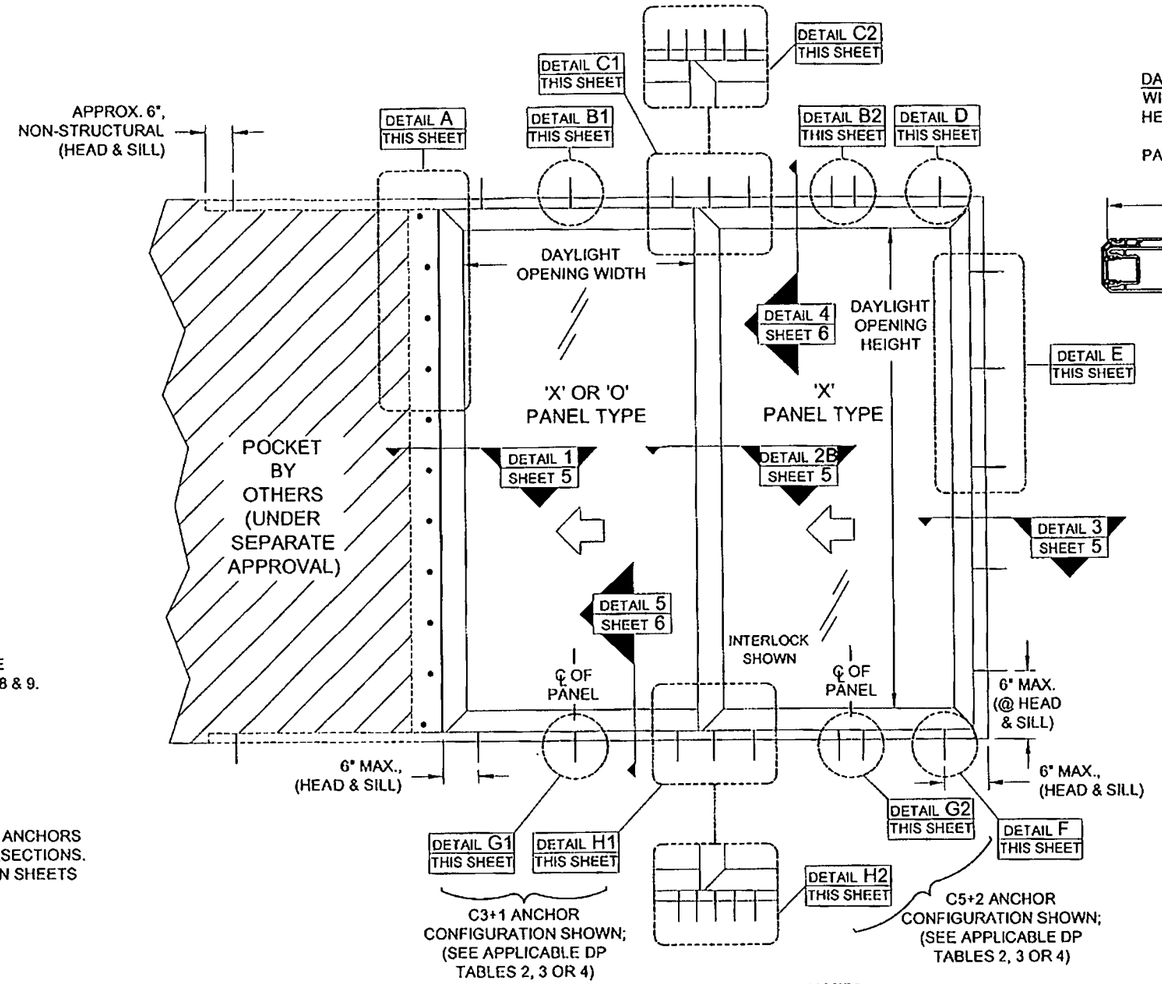


1 ANCHOR @ HEAD ENDS.



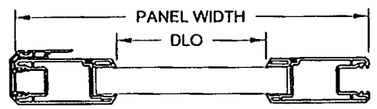
1 ANCHOR @ SILL ENDS.

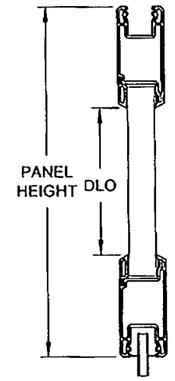
NOTE: SEE TABLE 1, SHEET 6 FOR ANCHOR EDGE DISTANCE AND EMBEDMENT.



DAYLIGHT OPENING (DLO) FORMULAS
WIDTH: PANEL WIDTH - 8-9/16"
HEIGHT: PANEL HEIGHT - 8-9/16"

PANEL HEIGHT = FRAME HEIGHT - 2.5"





NOTES:
1) FOR CONFIGURATIONS, SEE SHEET 12.
2) FOR ANCHOR EDGE DISTANCE AND EMBEDMENT, SEE TABLE 1 SHEET 6.
3) DAYLIGHT OPENING (DLO) FORMULAS:
WIDTH: PANEL WIDTH - 8-9/16"
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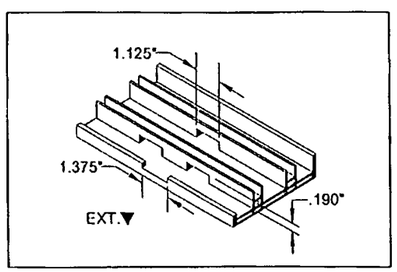
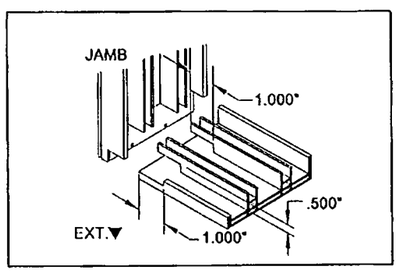
PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 13-1125.05
Expiration Date 4/1/16
By
Miami-Dade Product Control



WEEPHOLE PATTERN @ 24" O.C.



WEEPHOLE PATTERN @ SILL ENDS

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
2/4/14
A. LYNN MILLER, P.E.
P.E.# 58705

PGT®

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

CERT. OF AUTH. #29296

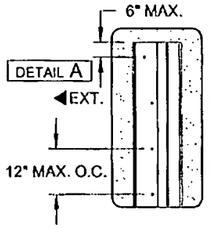
Revised By:	Date:	Revision:
J.J.	10/11/11	FBC 2010 CODE
J.R.	11/05/13	CORRECT DLO

Description:	Drawn By:
ANCHOR LOCATIONS (2 TRACKS)	J ROSOWSKI

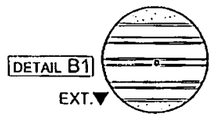
Title:	Date:
VINYL SGD INSTALLATION GUIDELINES	11/18/10

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
570/2770	NTS	2 OF 13	MD-SGD570-01	B

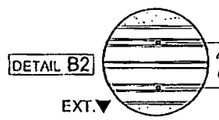
3-TRACK CONFIGURATIONS



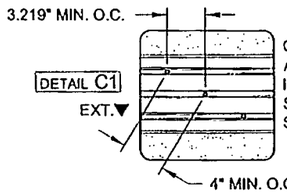
ANCHOR LOCATIONS FOR POCKET CONDITIONS. ANCHORS INTO P-HOOK.



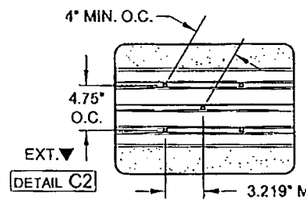
1 ANCHOR @ CENTER OF EACH PANEL. SEE TABLES ON SHEETS 8 & 9.



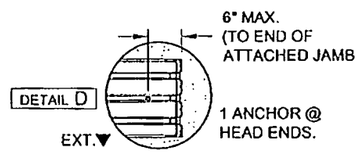
2 ANCHORS @ CENTER OF EACH PANEL. SEE TABLES ON SHEETS 8 & 9.



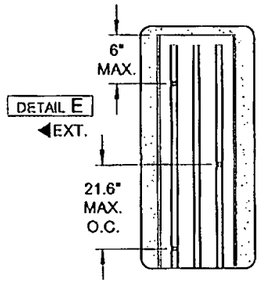
CLUSTER OF 3 ANCHORS @ STILE INTERSECTIONS. SEE TABLES ON SHEETS 8 & 9.



CLUSTER OF 5 ANCHORS @ STILE INTERSECTIONS. SEE TABLES ON SHEETS 8 & 9.



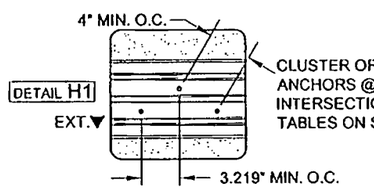
1 ANCHOR @ HEAD ENDS.

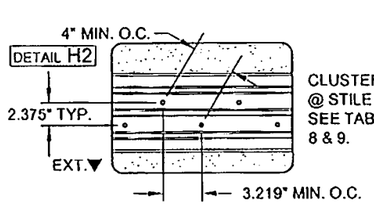


ANCHOR LOCATIONS FOR BYPASS CONDITIONS.

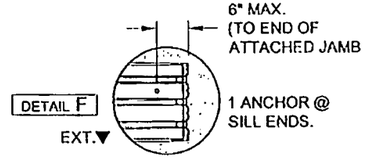
1 ANCHOR @ CENTER OF EACH PANEL. SEE TABLES ON SHEETS 8 & 9.

2 ANCHORS @ CENTER OF EACH PANEL. SEE TABLES ON SHEETS 8 & 9.

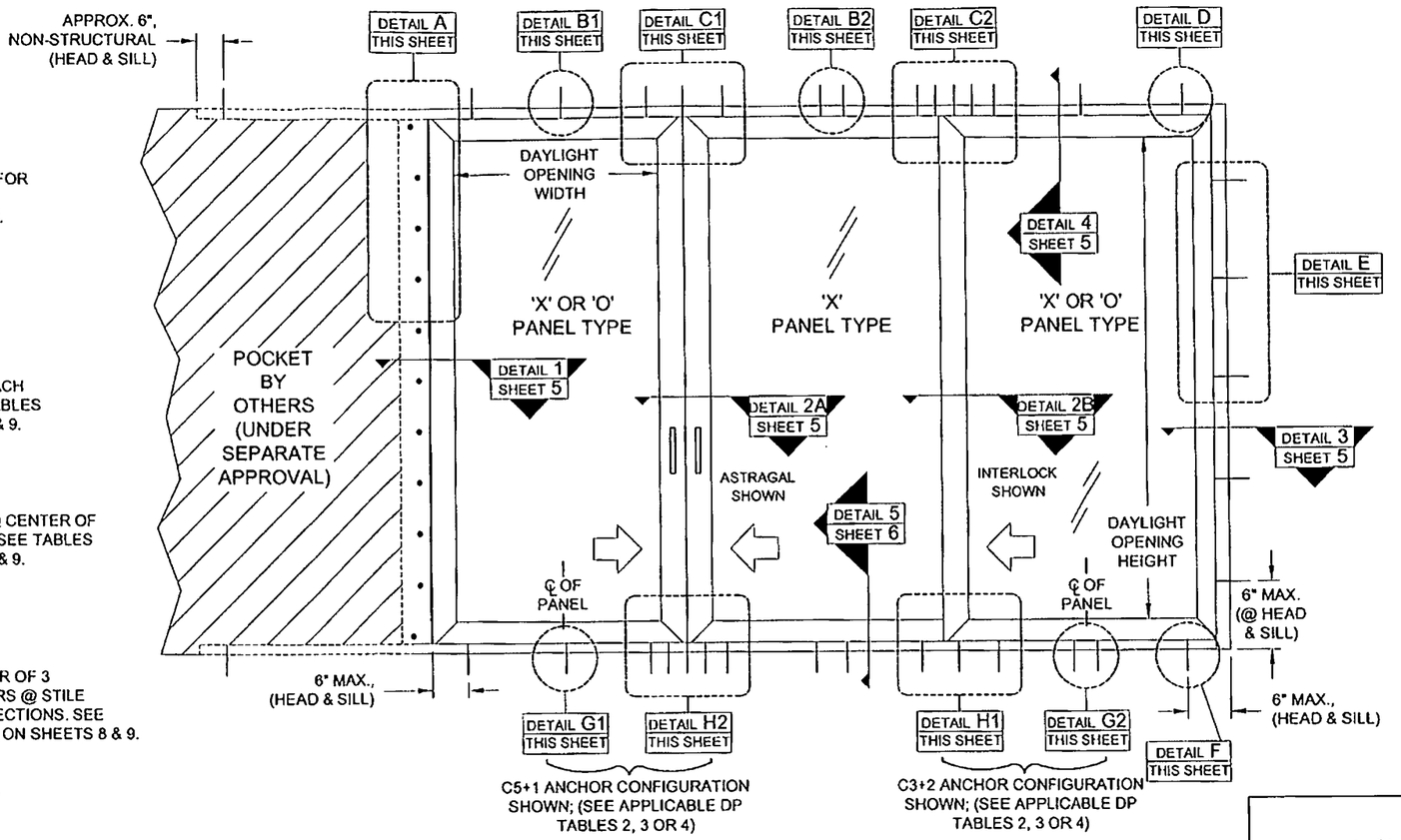


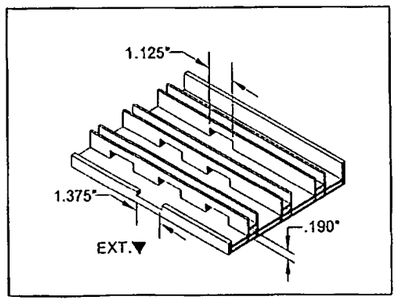


CLUSTER OF 5 ANCHORS @ STILE INTERSECTIONS. SEE TABLES ON SHEETS 8 & 9.

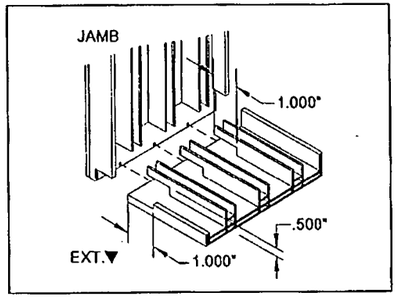


1 ANCHOR @ SILL ENDS.





WEEPHOLE PATTERN @ 24" O.C.



WEEPHOLE PATTERN @ SILL ENDS

NOTES:
1) FOR CONFIGURATIONS, SEE SHEET 12.
2) FOR ANCHOR EDGE DISTANCE AND EMBEDMENT, SEE TABLE 1 SHEET 6.
3) DAYLIGHT OPENING (DLO) FORMULAS:
   WIDTH: PANEL WIDTH - 8-9/16"
   HEIGHT: PANEL HEIGHT - 8-9/16"
4) PANEL HEIGHT = FRAME HEIGHT - 2.5"

ANTHONY LYNN MILLER LICENSE No. 58705 2/4/14 STATE OF FLORIDA PROFESSIONAL ENGINEER
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CERT. OF AUTH. #29296

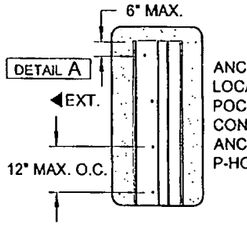
PRODUCT REVISED
to comply with the Florida Building Code
Acceptance No. 13-1125.01
Expiration Date 7/14/16
By Ishaq Ghani
Miami Dade Product Control

Revised By:	Date:	Revision:
J.J.	10/11/11	FBC 2010 CODE
J.R.	11/05/13	DETAIL E

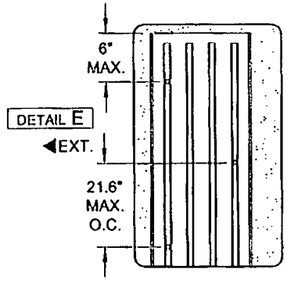
Description: ANCHOR LOCATIONS (3 TRACKS)	Drawn By: J ROSOWSKI
Title: VINYL SGD INSTALLATION GUIDELINES	Date: 11/18/10

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
570/2770	NTS	3 OF 13	MD-SGD570-01	B

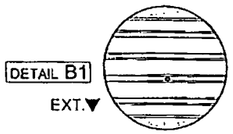
4-TRACK CONFIGURATIONS



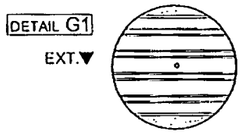
ANCHOR LOCATIONS FOR POCKET CONDITIONS. ANCHORS INTO P-HOOK.



ANCHOR LOCATIONS FOR BYPASS CONDITIONS.

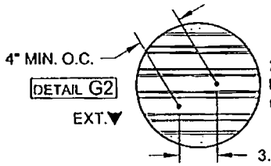


1 ANCHOR @ CENTER OF EACH PANEL. SEE TABLES ON SHEETS 8 & 9.



1 ANCHOR @ CENTER OF EACH PANEL. SEE TABLES ON SHEETS 8 & 9.

2 ANCHORS @ CENTER OF EACH PANEL. SEE TABLES ON SHEETS 8 & 9.



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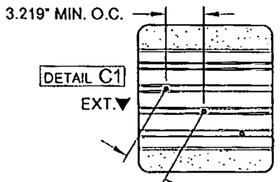
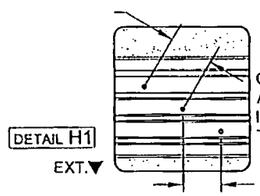
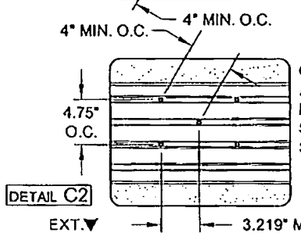


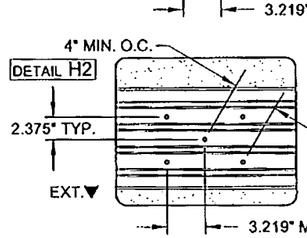
CLUSTER OF 3 ANCHORS @ STILE INTERSECTIONS. SEE TABLES ON SHEETS 8 & 9.



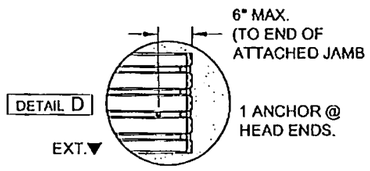
CLUSTER OF 3 ANCHORS @ STILE INTERSECTIONS. SEE TABLES ON SHEETS 8 & 9.



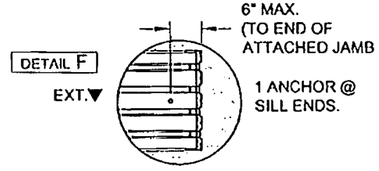
CLUSTER OF 5 ANCHORS @ STILE INTERSECTIONS. SEE TABLES ON SHEETS 8 & 9.



CLUSTER OF 5 ANCHORS @ STILE INTERSECTIONS. SEE TABLES ON SHEETS 8 & 9.

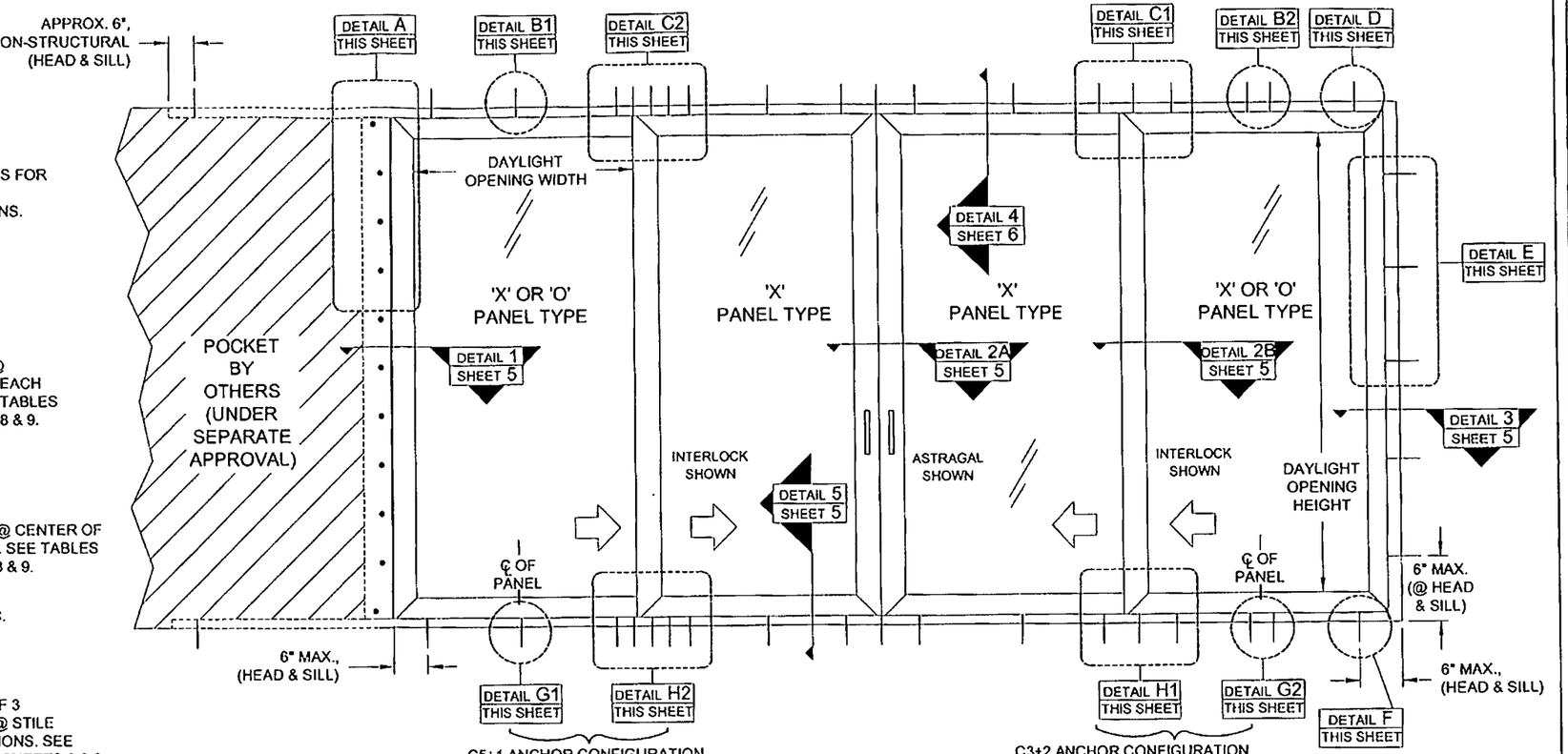


1 ANCHOR @ HEAD ENDS.



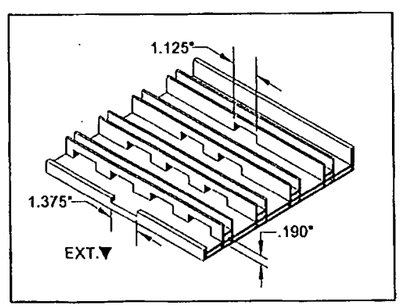
1 ANCHOR @ SILL ENDS.

NOTES:
1) FOR CONFIGURATIONS, SEE SHEET 12.
2) FOR ANCHOR EDGE DISTANCE AND EMBEDMENT, SEE TABLE 1 SHEET 6.
3) DAYLIGHT OPENING (DLO) FORMULAS:
WIDTH: PANEL WIDTH - 8-9/16"
HEIGHT: PANEL HEIGHT - 8-9/16"
4) PANEL HEIGHT = FRAME HEIGHT - 2.5"

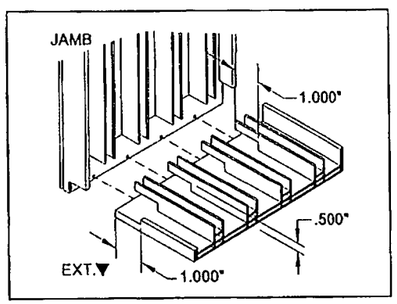


C5+1 ANCHOR CONFIGURATION SHOWN; (SEE APPLICABLE DP TABLES 2, 3 OR 4)

C3+2 ANCHOR CONFIGURATION SHOWN; (SEE APPLICABLE DP TABLES 2, 3 OR 4)



WEEPHOLE PATTERN @ 24" O.C.



WEEPHOLE PATTERN @ SILL ENDS

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 13-1125.05
Expiration Date 4/14/16
By [illegible]
Miami Dade Product Control

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
2/4/14
A. LYNN MILLER, P.E.
P.E.# 58705

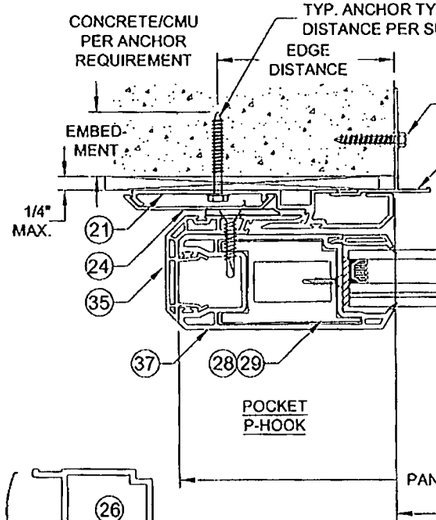
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
CERT. OF AUTH. #29296

Revised By:	Date:	Revision:
	10/11/11	FBC 2010 CODE
J.R.	11/05/13	DETAIL E

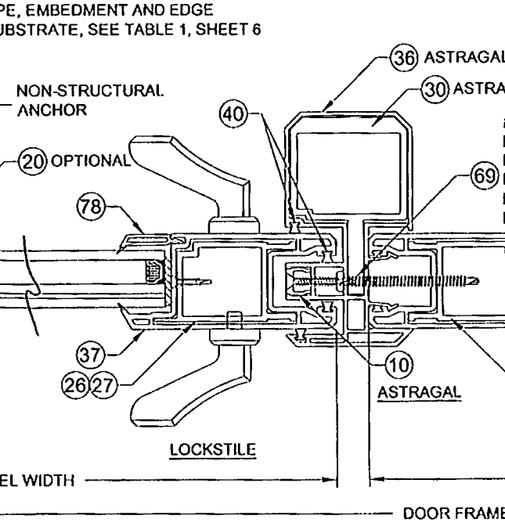
Description: ANCHOR LOCATIONS (4 TRACKS)	Drawn By: J ROSOWSKI
Title: VINYL SGD INSTALLATION GUIDELINES	Date: 11/18/10

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
570/2770	NTS	4 OF 13	MD-SGD570-01	B

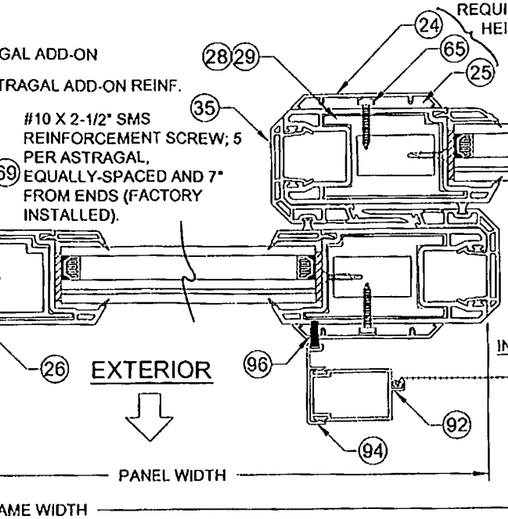
DETAIL 1
INTO MASONRY



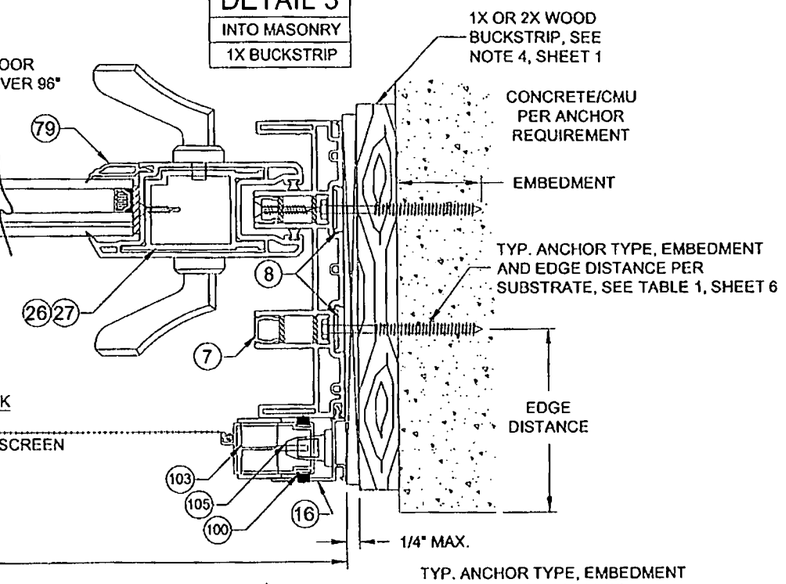
DETAIL 2A
ASTRAGAL



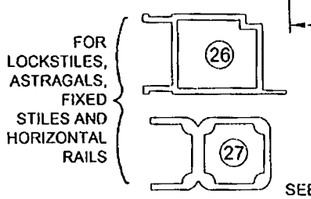
DETAIL 2B
INTERLOCK



DETAIL 3
INTO MASONRY
1X BUCKSTRIP

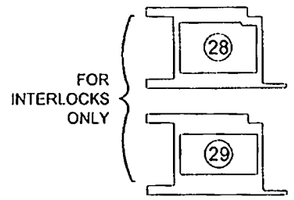


FOR LOCKSTILES, ASTRAGALS, FIXED STILES AND HORIZONTAL RAILS



SEE NOTES 3 & 6 BELOW

FOR INTERLOCKS ONLY

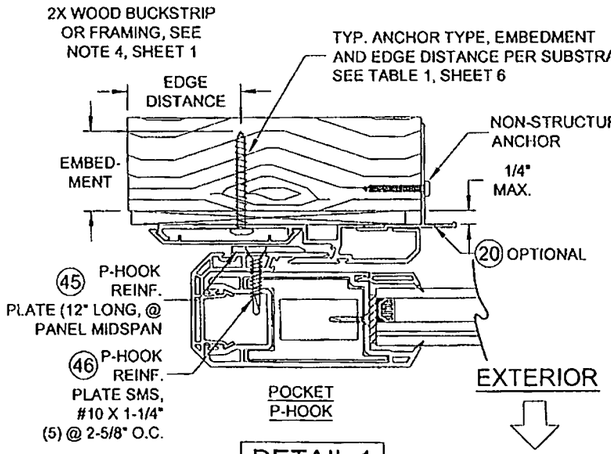


DETAIL 3
INTO WOOD

DETAIL 2B
INTERLOCK

DETAIL 3
INTO MASONRY

DETAIL 1
INTO WOOD



NOTES
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) SEE SHEETS 2-4 FOR ANCHOR LOCATION & SPACING.
3) SEE TABLES 2-4 FOR REINFORCEMENT REQUIREMENTS.
4) CONTINUOUS ANCHOR PLATE, ITEM #8, IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.
5) PANEL WIDTH DOES NOT INCLUDE INTERLOCK OR ASTRAGAL ADD-ON.
6) ALL REINFORCEMENTS ARE APPROXIMATELY THE FULL LENGTH OF THE EXTRUSION. REFER TO TEST REPORTS FOR EXACT DIMENSIONS.

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

PRODUCT REVISED
In complying with the Florida Building Code
Acceptance No 13-1125.05
Expiration Date 4/14/16
By Anthony L. Miller
Miami Dade Product Control

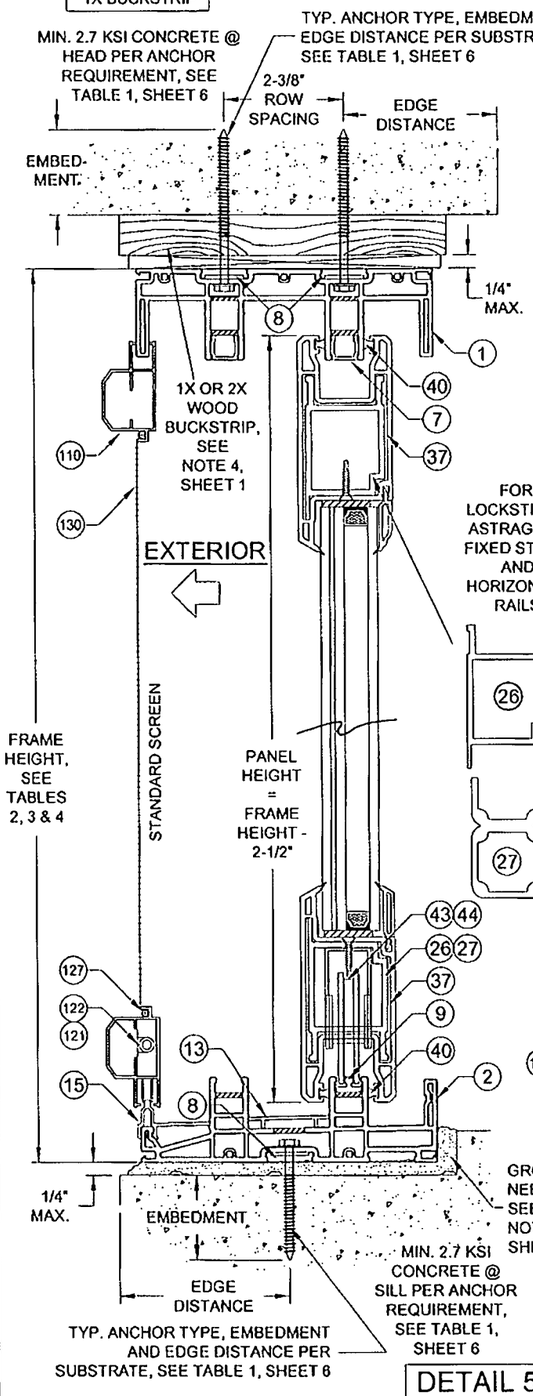
PGT®
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
CERT. OF AUTH. #29296

Revised By:	Date:	Revision:
J.J.	10/11/11	FBC 2010 CODE
J.R.	11/05/13	N/A THIS SHEET

Description: HORIZONTAL INSTALLATION DETAILS	Drawn By: J ROSOWSKI
Title: VINYL SGD INSTALLATION GUIDELINES	Date: 11/18/10

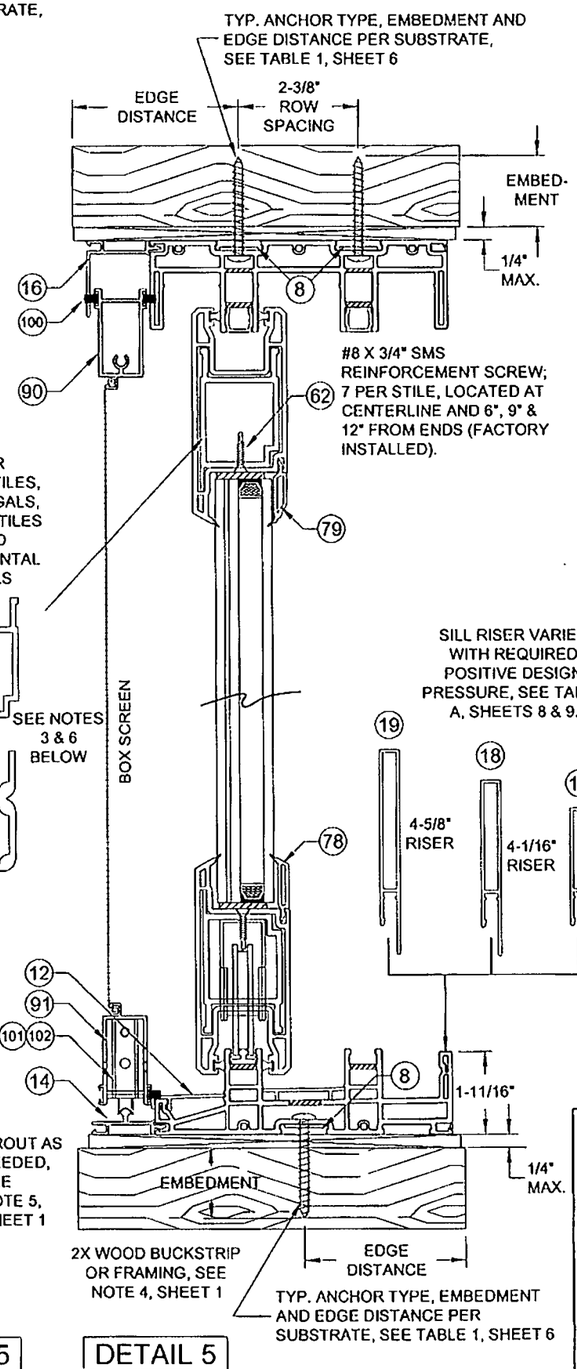
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
570/2770	NTS	5 OF 13	MD-SGD570-01	B

DETAIL 4
INTO MASONRY
1X BUCKSTRIP



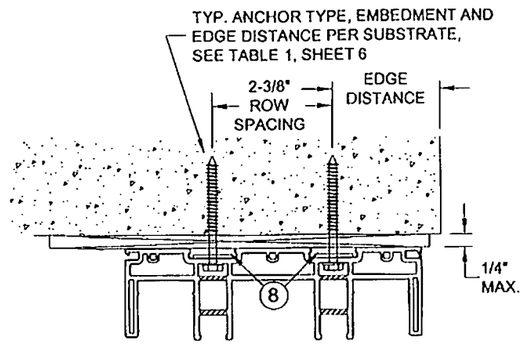
DETAIL 5
INTO MASONRY

DETAIL 4
INTO WOOD

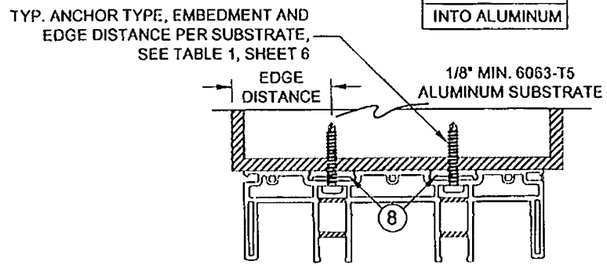


DETAIL 5
INTO WOOD

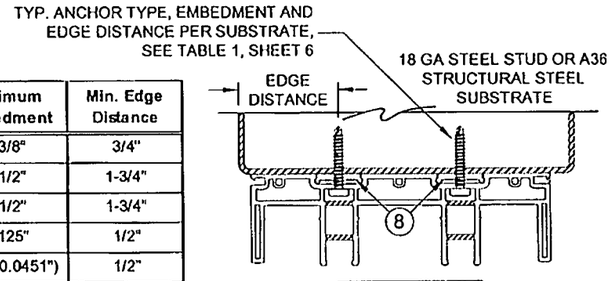
DETAIL 4
INTO MASONRY



DETAIL 4
INTO ALUMINUM



METAL SUBSTRATES TO BE PROPERLY DESIGNED TO TRANSFER LOAD IMPOSED ON THEM



DETAIL 4
INTO STEEL

METAL SUBSTRATE DETAILS SHOWN FOR HEAD (SIMILAR DETAILS APPLY TO FRAME JAMB AND SILL, EXCEPT POCKET JAMB)

TABLE 1, ANCHOR TYPES:

Type	Substrate	Anchor	Minimum Embedment	Min. Edge Distance
A	P.T. Southern Pine (SG = .55)	#12 Sheet Metal Screw (G5)	1-3/8"	3/4"
		1/4" Elco UltraCon	1-1/2"	1-3/4"
		1/4" Elco Crete-Flex SS4	1-1/2"	1-3/4"
	Aluminum, 6063-T5 min.	#12 Sheet Metal Screw (G5)	0.125"	1/2"
	Steel Stud, Gr. 33 min.	#12 Sheet Metal Screw (G5)	18ga (0.0451")	1/2"
	A36 Steel	#12 Sheet Metal Screw (G5)	18ga (0.0451")	1/2"
B	P.T. Southern Pine (SG = .55)	#12 Wood Screw (G5)	1-3/8"	3/4"
C	Concrete (min. 2.7 ksi)	1/4" Elco UltraCon	1-3/8"	1"
	Concrete (min. 3.35 ksi)	1/4" Elco Crete-Flex SS4	1-3/4"	1"
	Ungrouted CMU, Jambs Only (ASTM C-90)	1/4" Elco UltraCon	1-1/4"	1"
		1/4" Elco Crete-Flex SS4	1-1/4"	1-3/4"
D	Concrete (min. 2.7 ksi)	1/4" Elco UltraCon	1-3/8"	2-1/2"
	Concrete (min. 3.35 ksi)	1/4" Elco Crete-Flex SS4	1-3/4"	2-1/2"
	Ungrouted CMU, Jambs Only (ASTM C-90)	1/4" Elco UltraCon	1-1/4"	2-1/2"
		1/4" Elco Crete-Flex SS4	1-1/4"	2-1/2"

NOTES
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2) SEE SHEETS 2-4 FOR ANCHOR LOCATION & SPACING.
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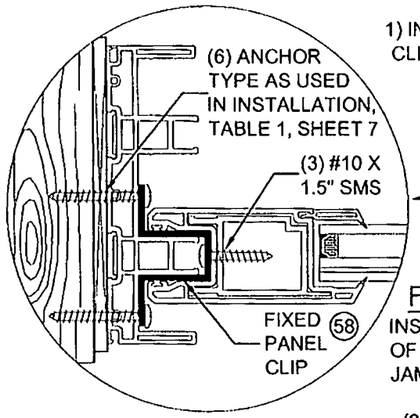
PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 13-1121.05
Expiration Date 4/1/17
By [illegible]
Miami-Dade Product Control

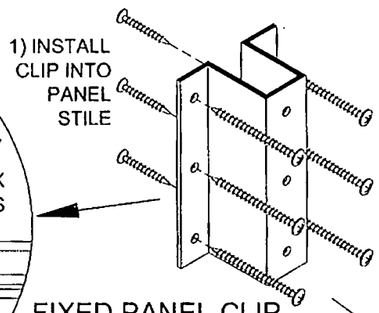
ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
2/4/14
A. LYNN MILLER, P.E.
P.E.# 58705

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
CERT. OF AUTH. #29296

Revised By:	Date:	Revision:
J.J.	10/11/11	FBC 2010 CODE
J.R.	11/05/13	N/A THIS SHEET

Description: VERTICAL INSTALLATION DETAILS				Drawn By: J ROSOWSKI
Title: VINYL SGD INSTALLATION GUIDELINES				Date: 11/18/10
Series/Model: 570/2770	Scale: NTS	Sheet: 6 OF 13	Drawing No. MD-SGD570-01	Rev: B



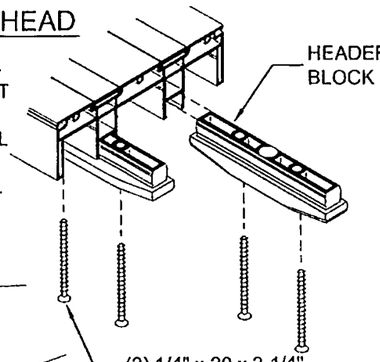


FIXED PANEL CLIP

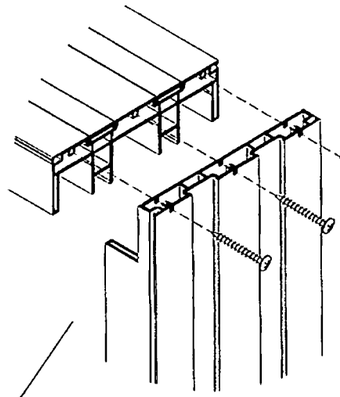
INSTALL ONE CLIP AT THE MIDSPAN OF EACH FIXED PANEL-TO-FRAME JAMB LOCATION.

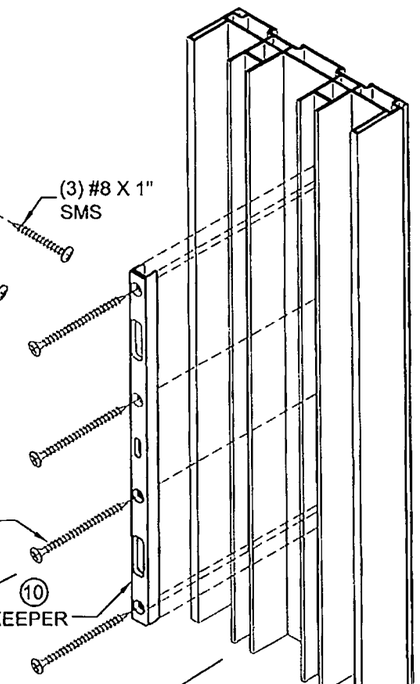
HEADER BLOCK TO HEAD ATTACHMENT

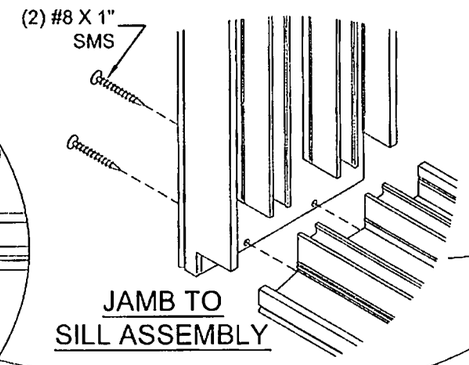
INSTALL ONE BLOCK AT EACH INTERLOCK. AT ASTRAGAL, INSTALL ONE BLOCK THAT SPANS BOTH PANELS.



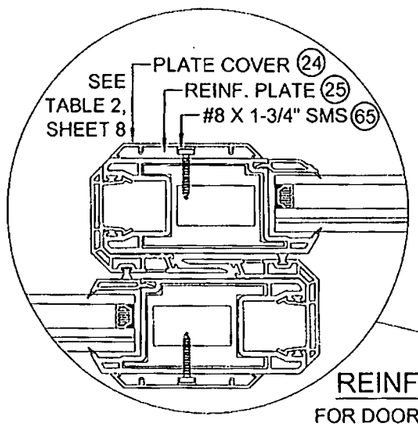
JAMB TO HEAD ASSEMBLY





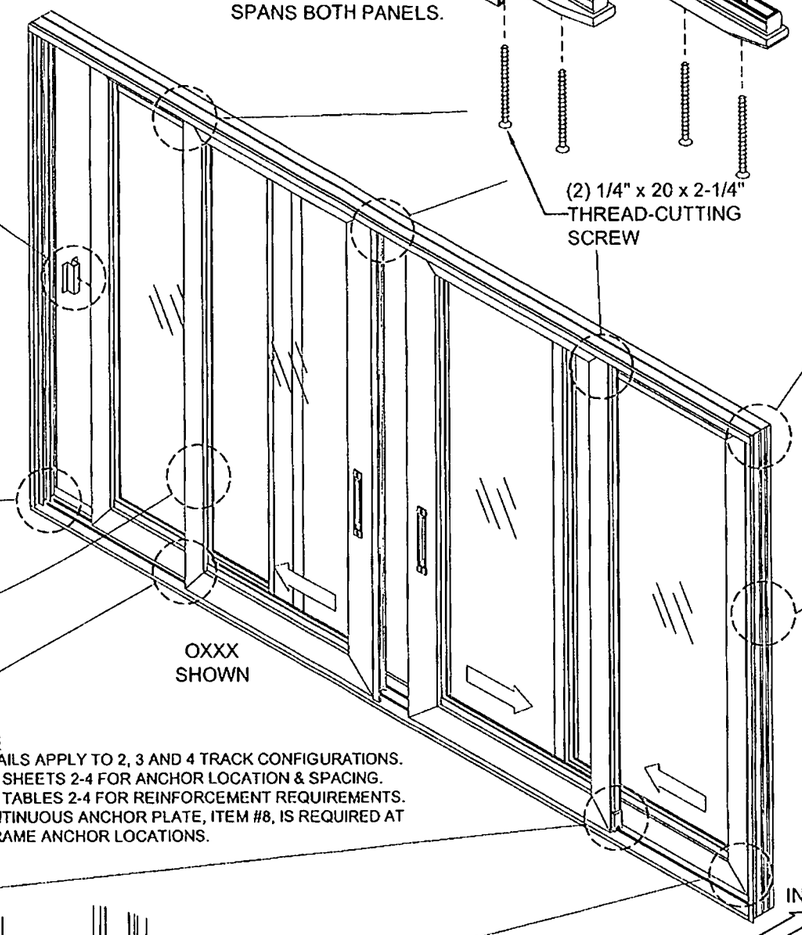


JAMB TO SILL ASSEMBLY

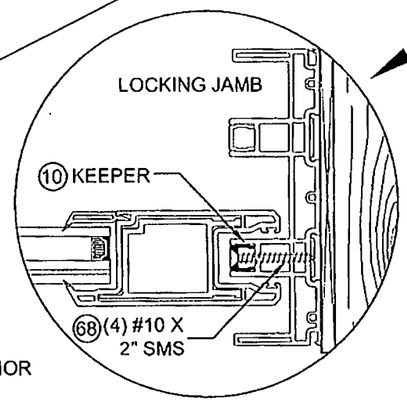


REINFORCEMENT PLATE

FOR DOORS OVER 96". 10 ANCHORS @ 3", 6", 9", 12", & 46.5" FROM EACH END



KEEPER TO JAMB ATTACHMENT



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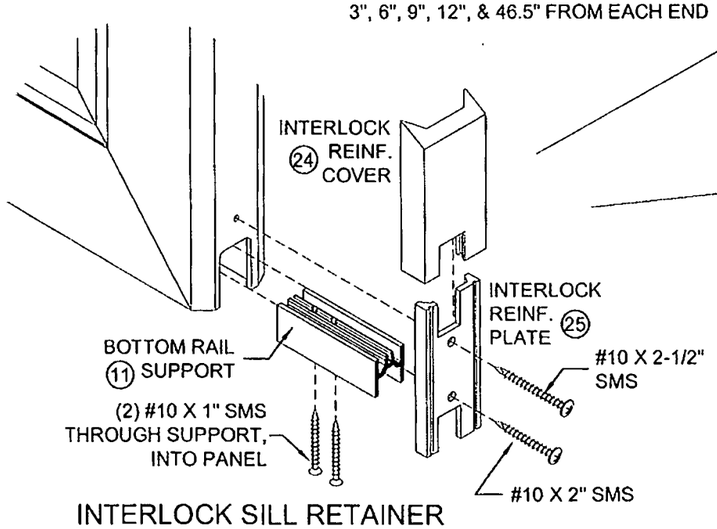
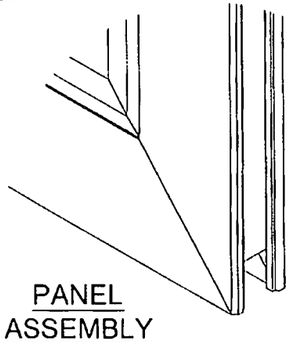


INTERLOCK SILL RETAINER CLIP ATTACHMENT

INSTALL ONE ASSEMBLY AT EACH INTERLOCK



PANEL ASSEMBLY

ALL PANEL CORNERS WELDED, NO ASSEMBLY FASTENERS

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
2/4/14
A. LYNN MILLER, P.E.
P.E.# 58705

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 13-1121.05
Expiration Date 4/1/2014
By Miami Dade Product Control

PGT®

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CERT. OF AUTH. #29296

Revised By:	Date:	Revision:
J.J.	10/11/11	FBC 2010 CODE
J.R.	11/05/13	N/A THIS SHEET

Description: ACCESSORIES INSTALLATION DETAILS
Drawn By: J ROSOWSKI
Title: VINYL SGD INSTALLATION GUIDELINES
Date: 11/18/10
Series/Model: 570/2770
Scale: NTS
Sheet: 7 OF 13
Drawing No.: MD-SGD570-01
Rev: B

TABLE 2:

Series 570 & 2770 Anchor Quantities and Design Pressures

3/16" HS GLASS + .090" SG INTERLAYER + 3/16" HS GLASS + 7/16" AIR SPACE + 3/16" T INT. CAP

FRAME HEIGHT (IN)

NOM. PANEL WIDTH (IN)	FRAME SIDE	8-PANEL MAXIMUM CONFIGURATION												4-PANEL MAXIMUM CONFIGURATION							
		80				84				96				108				120			
		Wood Substrate Anchor Type A	Wood Substrate Anchor Type B	Mas. Substrate Anchor Type C	Mas. Substrate Anchor Type D	Wood Substrate Anchor Type A	Wood Substrate Anchor Type B	Mas. Substrate Anchor Type C	Mas. Substrate Anchor Type D	Wood Substrate Anchor Type A	Wood Substrate Anchor Type B	Mas. Substrate Anchor Type C	Mas. Substrate Anchor Type D	Wood Substrate Anchor Type A	Wood Substrate Anchor Type B	Mas. Substrate Anchor Type C	Mas. Substrate Anchor Type D	Wood Substrate Anchor Type A	Wood Substrate Anchor Type B	Mas. Substrate Anchor Type C	Mas. Substrate Anchor Type D
24	Head & Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
	Jamb	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6
	P-hook	8	8	8	8	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
	Design Pressure	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0
		-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-65.0	-65.0	-65.0	-65.0	-65.0	-65.0	-65.0	-65.0
30	Head & Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C5+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C5+1	C3+1	C3+1	C3+1
	Jamb	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6
	P-hook	8	8	8	8	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
	Design Pressure	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0
		-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-65.0	-65.0	-65.0	-65.0	-65.0	-65.0	-65.0	-65.0
36	Head & Sill	C3+1	C3+1	C3+1	C3+1	C5+1	C3+1	C3+1	C3+1	C5+1	C5+1	C3+1	C3+1	C5+1	C3+1	C3+1	C3+1	C5+1	C5+1	C5+1	C3+1
	Jamb	5	5	5	5	5	5	5	5	5	5	6	5	6	6	6	6	6	6	6	6
	P-hook	8	8	8	8	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
	Design Pressure	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0
		-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-65.0	-65.0	-65.0	-65.0	-65.0	-65.0	-65.0	-65.0
42	Head & Sill	C5+2	C3+2	C3+1	C3+1	C5+2	C5+2	C3+1	C3+1	C5+2	C5+2	C5+1	C3+1	C5+1	C5+1	C5+1	C3+1	C5+1	C5+1	C5+1	C3+1
	Jamb	5	5	6	5	5	5	6	5	6	5	7	5	6	6	6	6	6	6	7	6
	P-hook	8	8	8	8	8	8	8	8	10	9	9	9	10	10	10	10	11	11	11	11
	Design Pressure	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0
		-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-65.0	-65.0	-65.0	-65.0	-65.0	-65.0	-65.0	-65.0
48	Head & Sill	C5+2	C5+2	C3+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+1	C3+1	C5+2	C5+2	C5+1	C3+1
	Jamb	6	5	7	5	6	5	7	5	7	6	8	5	6	6	7	6	7	6	8	6
	P-hook	9	8	8	8	10	8	8	8	11	9	9	9	10	10	10	10	11	11	11	11
	Design Pressure	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0
		-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-65.0	-65.0	-65.0	-65.0	-65.0	-65.0	-65.0	-65.0
54	Head & Sill	C5+2	C5+2	C3+2	C3+2	C5+2	C5+2	C5+2	C3+2	C5+2	C5+2	C5+2	C3+2								
	Jamb	6	5	7	5	6	6	8	5	7	6	9	5								
	P-hook	10	8	8	8	11	8	8	8	12	9	9	9								
	Design Pressure	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0								
		-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0	-80.0								
60	Head & Sill	C5+2	C5+2	C5+2	C3+2	C5+2	C5+2	C5+2	C3+2	C5+2	C5+2	C5+2	C3+2								
	Jamb	6	6	8	5	6	6	8	5	7	7	10	5								
	P-hook	10	8	8	8	10	8	8	8	11	9	10	10								
	Design Pressure	+67.0	+80.0	+80.0	+80.0	+67.0	+80.0	+80.0	+80.0	+67.0	+80.0	+80.0	+80.0								
		-67.0	-80.0	-80.0	-80.0	-67.0	-80.0	-80.0	-80.0	-67.0	-80.0	-80.0	-80.0								

Reinforcements Required, (See Parts on Sheet 10)						Glass Type
Interlock	Lock/Fixed Stile	Astragal	Astragal Addon	Top/Bottom Rail	Plate (Part# 24, 25)	
Part# 29	Part# 26	Part# 26	Part# 30	Part# 26	Required for Heights over 96"	A

TOTAL # OF ANCHORS CLUSTERED THROUGH THE HEAD & SILL AT EACH PANEL MEETING POINT. (EX: FOR C3+1, 3 ANCHORS REQUIRED AT PANEL MEETING POINT AND 1 ANCHOR REQUIRED AT MIDSPAN OF PANEL).

ANCHORAGE TYPE PER SUBSTRATE REQUIRED TO ACHIEVE THE DESIGN PRESSURE, USING THE ANCHOR QUANTIES LISTED BELOW. SEE TABLE 1, SHEET 6, FOR COMPLETE ANCHOR LIMITATIONS.

TABLE KEY:

NOM. PANEL WIDTH (IN)	FRAME SIDE	A
24	Head & Sill	C3+1
	Jamb	5
	P-hook	8
	Design Pressure	+80.0 / -80.0

NOM. PANEL WIDTH = FRAME WIDTH / # OF PANELS

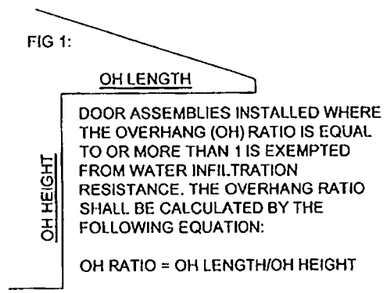
THE MAXIMUM NEGATIVE DESIGN PRESSURE AT THESE ANCHOR QUANTITIES.

THE MAXIMUM POSITIVE DP AT THESE ANCHOR QUANTITIES. ADDITIONALLY, THE MAXIMUM DP FOR THE SILL HEIGHT MUST ALSO BE CONSIDERED, SEE TABLE A, THIS SHEET.

TOTAL # OF ANCHORS THROUGH THE P-HOOK.

TOTAL # OF ANCHORS THROUGH THE JAMB.

FIG 1:



DOOR ASSEMBLIES INSTALLED WHERE THE OVERHANG (OH) RATIO IS EQUAL TO OR MORE THAN 1 IS EXEMPTED FROM WATER INFILTRATION RESISTANCE. THE OVERHANG RATIO SHALL BE CALCULATED BY THE FOLLOWING EQUATION:

OH RATIO = OH LENGTH/OH HEIGHT

TABLE A:

Water-Limited (+) Design Pressure		
Nominal Sill Height	Actual Sill Height	Max. (+) DP Allowed
1-11/16"	1.688"	See 2) at right
3-1/2"	3.464"	+60.0 psf
4-1/16"	4.037"	+80.0 psf
4-5/8"	4.614"	+100.0 psf

1) THE LESSER VALUE OF TABLE A AND TABLE 2 DETERMINES THE WATER LIMITED (+) DP.
2) THE 1-11/16" SILL MAY ONLY BE USED WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIG 1. IF SO, (+) DP'S SHOWN IN TABLE 2 MAY BE USED.

NOTES
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) SEE SHEETS 2-4 FOR ANCHOR LOCATION & SPACING.
3) SEE TABLES 2-4 FOR REINFORCEMENT REQUIREMENTS.
4) CONTINUOUS ANCHOR PLATE, ITEM #8, IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.
5) PANEL WIDTH DOES NOT INCLUDE INTERLOCK OR ASTRAGAL ADD-ON.
6) SEE SHEET 2 FOR APPLICABLE DLO PER PANEL SIZE.

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 13-1125.05 Expiration Date 4/14/16 by Miami-Dade Product Control

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

Drawn By: J ROSOWSKI
Date: 11/18/10
Revision: FBC 2010 CODE
Date: 10/11/11
Revised By: J.J.
Revision: TABLE 1, REM 2870
Date: 11/05/13
Revised By: J.R.
Rev: B
Description: DESIGN PRESSURE TABLE 2
Title: VINYL SGD INSTALLATION GUIDELINES
Sheet: 8 OF 13
Drawing No. MD-SGD570-01
Scale: NTS
Series/Model: 570/2770

PGT®

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
CERT. OF AUTH. #29296

TABLE 3:

3/16" HS GLASS + .090" SG INTERLAYER + 3/16" HS GLASS + 7/16" AIR SPACE + 3/16" T INT. CAP		Series 2770 Anchor Quantities and Design Pressures											
		FRAME HEIGHT (IN)											
		8-PANEL MAXIMUM CONFIGURATION											
		80				84				96			
NOM. PANEL WIDTH (IN)	FRAME SIDE	Wood Substrate Anchor Type A	Wood Substrate Anchor Type B	Mas. Substrate Anchor Type C	Mas. Substrate Anchor Type D	Wood Substrate Anchor Type A	Wood Substrate Anchor Type B	Mas. Substrate Anchor Type C	Mas. Substrate Anchor Type D	Wood Substrate Anchor Type A	Wood Substrate Anchor Type B	Mas. Substrate Anchor Type C	Mas. Substrate Anchor Type D
24	Head & Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C5+1	C3+1	C3+1	C3+1
	Jamb	5	5	5	5	5	5	5	5	5	5	5	5
	P-hook	8	8	8	8	8	8	8	8	9	9	9	9
	Design Pressure	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0
		-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0
30	Head & Sill	C5+1	C3+1	C3+1	C3+1	C5+1	C3+1	C3+1	C3+1	C5+1	C5+1	C5+1	C3+1
	Jamb	5	5	5	5	5	5	5	5	5	5	6	5
	P-hook	8	8	8	8	8	8	8	8	9	9	9	9
	Design Pressure	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0
		-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0
36	Head & Sill	C5+2	C5+1	C3+1	C3+1	C5+2	C5+1	C5+1	C3+1	C5+2	C5+1	C5+1	C3+1
	Jamb	5	5	6	5	5	5	6	5	6	5	7	5
	P-hook	9	8	8	8	9	8	8	8	10	9	9	9
	Design Pressure	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0
		-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0
42	Head & Sill	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1
	Jamb	6	5	7	5	6	6	7	5	7	6	8	5
	P-hook	10	8	8	8	10	8	8	8	11	9	9	9
	Design Pressure	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+96.0	+100.0	+100.0	+100.0
		-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-96.0	-100.0	-100.0	-100.0
48	Head & Sill	C5+2	C5+2	C5+2	C3+2	C5+2	C5+2	C5+2	C3+2	C5+2	C5+2	C5+2	C5+2
	Jamb	7	6	8	5	7	6	8	5	7	7	10	5
	P-hook	11	8	8	8	12	8	8	8	12	9	10	10
	Design Pressure	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+87.0	+100.0	+100.0	+100.0
		-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-100.0	-87.0	-100.0	-100.0	-100.0

Reinforcements Required, (See Parts on Sheet 10)					Glass Type, (See Sheet 1)
Interlock	Lock/Fixed Stile	Astragal	Astragal Addon	Top/Bottom Rail	
Part# 29	Part# 26	Part# 26	Part# 30	Part# 26	A

TABLE 4:

3/16" HS GLASS + .090" PVB INTERLAYER + 3/16" AN GLASS + 7/16" AIR SPACE + 3/16" T INT. CAP		Series 570 & 2770 Anchor Quantities and Design Pressures											
		FRAME HEIGHT (IN)											
		8-PANEL MAXIMUM CONFIGURATION											
		80				84				96			
NOM. PANEL WIDTH (IN)	FRAME SIDE	Wood Substrate Anchor Type A	Wood Substrate Anchor Type B	Mas. Substrate Anchor Type C	Mas. Substrate Anchor Type D	Wood Substrate Anchor Type A	Wood Substrate Anchor Type B	Mas. Substrate Anchor Type C	Mas. Substrate Anchor Type D	Wood Substrate Anchor Type A	Wood Substrate Anchor Type B	Mas. Substrate Anchor Type C	Mas. Substrate Anchor Type D
24	Head & Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
	Jamb	5	5	5	5	5	5	5	5	5	5	5	5
	P-hook	8	8	8	8	8	8	8	8	9	9	9	9
	Design Pressure	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0
		-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0
30	Head & Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
	Jamb	5	5	5	5	5	5	5	5	5	5	5	5
	P-hook	8	8	8	8	8	8	8	8	9	9	9	9
	Design Pressure	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0
		-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0
36	Head & Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
	Jamb	5	5	5	5	5	5	5	5	5	5	5	5
	P-hook	8	8	8	8	8	8	8	8	9	9	9	9
	Design Pressure	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0
		-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0
42	Head & Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C5+1	C3+1	C3+1	C3+1
	Jamb	5	5	5	5	5	5	5	5	5	5	5	5
	P-hook	8	8	8	8	8	8	8	8	9	9	9	9
	Design Pressure	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0
		-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0
48	Head & Sill	C3+2	C3+1	C3+1	C3+1	C3+2	C3+1	C3+1	C3+1	C5+2	C3+1	C3+1	C3+1
	Jamb	5	5	5	5	5	5	5	5	5	5	6	5
	P-hook	8	8	8	8	8	8	8	8	9	9	9	9
	Design Pressure	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0
		-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0

	Reinforcements Required, (See Parts on Sheet 10)					Glass Type, (See Sheet 1)
	Interlock	Lock/Fixed Stile	Astragal	Astragal Addon	Top/Bottom Rail	
Standard	Part# 28	Part# 26	Part# 26	Part# 30	Part# 26	B
Thermal-Option	Part# 28	Part# 27	Part# 27	Part# 30	Part# 27	B,C

TABLE KEY:

NOM. PANEL WIDTH (IN)	FRAME SIDE	A
24	Head & Sill	C3+1
	Jamb	5
	P-hook	8
	Design Pressure	+100.0
		-100.0

NOM. PANEL WIDTH = FRAME WIDTH / # OF PANELS

ANCHORAGE TYPE PER SUBSTRATE REQUIRED TO ACHIEVE THE DESIGN PRESSURE, USING THE ANCHOR QUANTIES LISTED BELOW. SEE TABLE 1, SHEET 6 FOR COMPLETE ANCHOR LIMITATIONS.

TOTAL # OF ANCHORS CLUSTERED THROUGH THE HEAD & SILL AT EACH PANEL MEETING POINT. (EX: FOR C3+1, 3 ANCHORS REQUIRED AT PANEL MEETING POINT AND 1 ANCHOR REQUIRED AT MIDSPAN OF PANEL).

TOTAL # OF ANCHORS THROUGH THE JAMB.

TOTAL # OF ANCHORS THROUGH THE P-HOOK.

THE MAXIMUM POSITIVE DP AT THESE ANCHOR QUANTITIES. ADDITIONALLY, THE MAXIMUM DP FOR THE SILL HEIGHT MUST ALSO BE CONSIDERED, SEE TABLE A, THIS SHEET.

THE MAXIMUM NEGATIVE DESIGN PRESSURE AT THESE ANCHOR QUANTITIES.

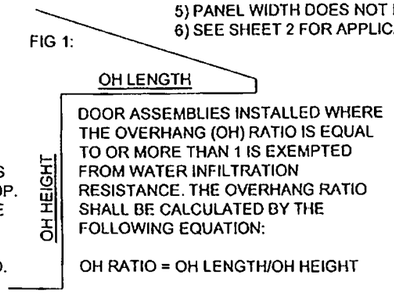
TABLE A:

Water-Limited (+) Design Pressure		
Nominal Sill Height	Actual Sill Height	Max. (+) DP Allowed
1-11/16"	1.688"	See 2) below
3-1/2"	3.464"	+60.0 psf
4-1/16"	4.037"	+80.0 psf
4-5/8"	4.614"	+100.0 psf

1) THE LESSER VALUE OF TABLE A AND TABLES 3 AND 4 DETERMINES THE WATER LIMITED (+) DP.
2) THE 1-11/16" SILL MAY ONLY BE USED WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIG 1. IF SO, +DP'S SHOWN IN TABLES 3 AND 4 MAY BE USED.

NOTES
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) SEE SHEETS 2-4 FOR ANCHOR LOCATION & SPACING.
3) SEE TABLES 2-4 FOR REINFORCEMENT REQUIREMENTS.
4) CONTINUOUS ANCHOR PLATE, ITEM #8, IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.
5) PANEL WIDTH DOES NOT INCLUDE INTERLOCK OR ASTRAGAL ADD-ON.
6) SEE SHEET 2 FOR APPLICABLE DLO PER PANEL SIZE.

FIG 1:



DOOR ASSEMBLIES INSTALLED WHERE THE OVERHANG (OH) RATIO IS EQUAL TO OR MORE THAN 1 IS EXEMPTED FROM WATER INFILTRATION RESISTANCE. THE OVERHANG RATIO SHALL BE CALCULATED BY THE FOLLOWING EQUATION:

OH RATIO = OH LENGTH/OH HEIGHT

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-1125.05
Expiration Date 11/14/16
By [signature]
Notice Date Product Control

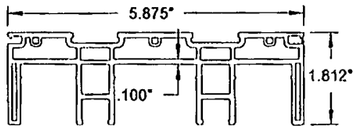
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705
2/14/14

Drawn By: J ROSOWSKI
Date: 11/18/10
Rev: B
Revision: FBC 2010 CODE
Revision: TABLE 1, REM 2870
Revised By: J.J. Date: 10/11/11
Revised By: J.R. Date: 11/05/13
Description: DESIGN PRESSURE TABLES 3 & 4
Title: VINYL SGD INSTALLATION GUIDELINES
Scale: NTS
Sheet: 9 OF 13
Series/Model: 570/2770
Drawing No. MD-SGD570-01

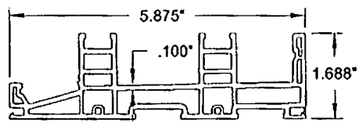
PGT®

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

CERT. OF AUTH. #29296



1 2 TRACK HEAD/JAMB RIGID PVC



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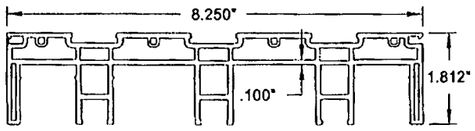

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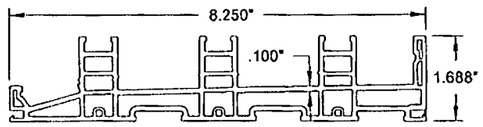

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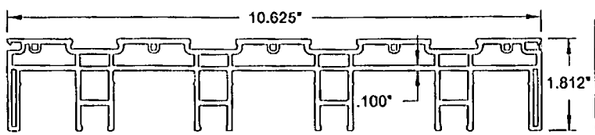

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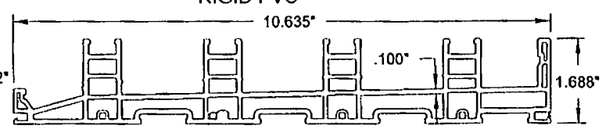

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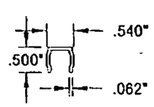
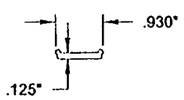
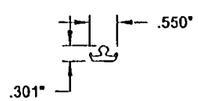


7 FRAME SCREW COVER RIGID PVC



8 ANCHOR PLATE 6063-T6 ALUM.



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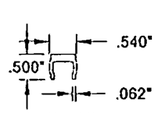

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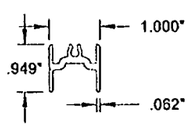
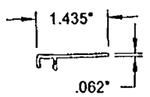


11 BOTTOM RAIL SUPPORT 6063-T6 ALUM.



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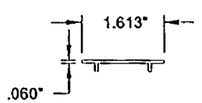

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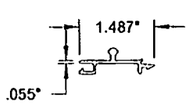
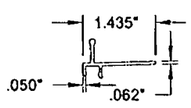


14 BOX SCREEN SILL ADD-ON 6063-T6 ALUM.



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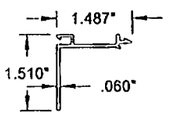
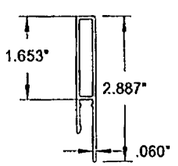
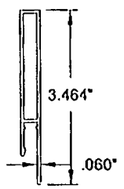


16 BOX SCREEN HEAD AND JAMB ADD-ON RIGID PVC



17 SILL RISER 6063-T6 ALUM.



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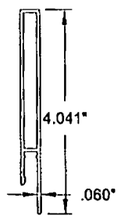

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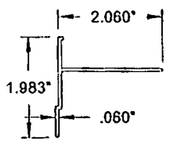
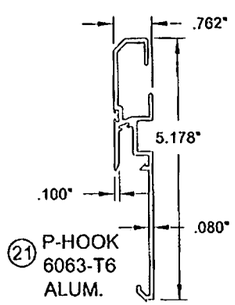


20 P-HOOK ADAPTOR 6063-T6 ALUM.



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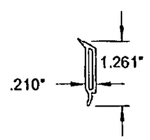
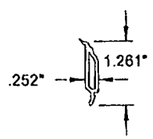
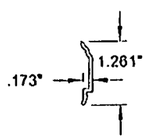


78 1-1/16" BEVELED BEAD RIGID PVC



79 1-1/16" OGEE BEAD RIGID PVC



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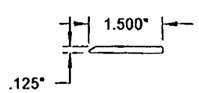
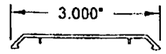
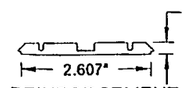


45 P-HOOK REINFORCEMENT PLATE 6063-T6 ALUM.



24 REINFORCEMENT COVER RIGID PVC



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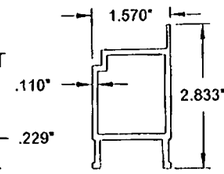
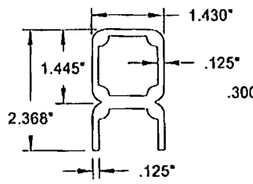
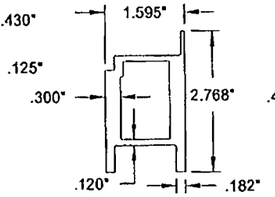


26 TOP, BOTTOM AND STILE REINFORCEMENT 6005-T5 ALUM.



27 TOP, BOTTOM AND STILE REINFORCEMENT COMPOSITE



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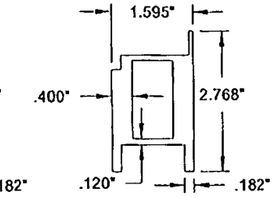

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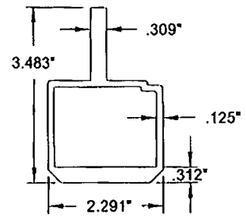

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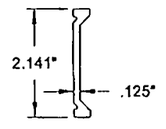
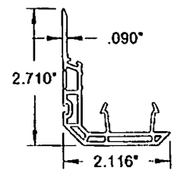
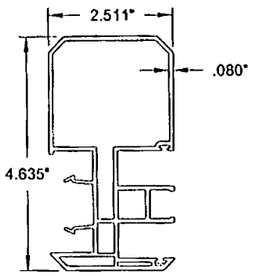


31 REINFORCEMENT PLATE 6063-T6 ALUM.



35 INTERLOCK ADAPTER RIGID PVC



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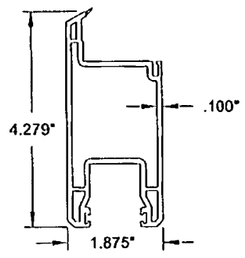
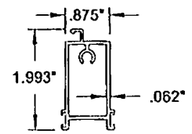
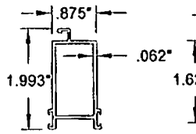


37 PANEL STILE, TOP AND BOTTOM RAIL RIGID PVC



90 BOX SCREEN TOP RAIL 6063-T6 ALUM.



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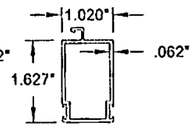

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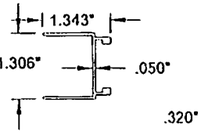
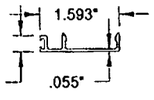


93 BOX SCREEN ASTRAGAL ADAPTER 6063-T6 ALUM.



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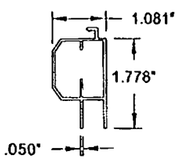
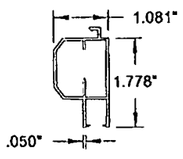


110 STD. SCREEN TOP/BOT. RAIL 6063-T6 ALUM.



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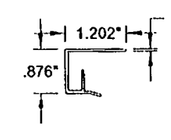

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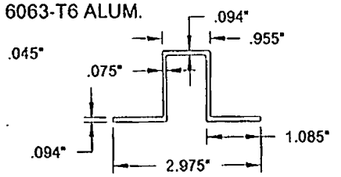


80 FIXED PANEL CLIP 6063-T6 ALUM.

PRODUCT REVISED
to complying with the Florida Building Code
Acceptance No. 13-1126.05
Expiration Date 5/14/16
Miami Dade Product Control

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
2/4/14
A. LYNN MILLER, P.E.
P.E.# 58705

PGT®

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

CERT. OF AUTH. #29296

Revised By:	Date:	Revision:
J.J.	10/11/11	FBC 2010 CODE
J.R.	11/05/13	N/A THIS SHEET

Description: PART DETAILS

Drawn By: J ROSOWSKI

Title: VINYL SGD INSTALLATION GUIDELINES

Date: 11/18/10

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
570/2770	NTS	10 OF 13	MD-SGD570-01	B

Part #	PGT. #	Description
1	619001	2-Track Head/Jamb
2	619002	2-Track Sill
3	619025	3-Track Head/Jamb
4	619026	3-Track Sill
5	619027	4-Track Head/Jamb
6	619028	4-Track Sill
7	619009	Frame Screw Cover
8	619031	Anchor Plate
9	619007	Track Insert
10	619029M	Aluminum Keeper
11	619036	Bottom Rail Support
12	619006	Outer Sill Cover
13	619011	Sill Track Cover
14	619039	Box Screen Sill Add-on
15	619012	Outer Screen Track (Standard Screen)
16	619038	Box Screen Head and Jamb Add-on
17	619022A	Sill Riser - (DP60)
18	619023A	Sill Riser - (DP80)
19	619024A	Sill Riser - (DP100)
20	619032	P-Hook Adapter
21	619020	P-Hook
24	619014	Reinforcement Cover
25	619030	Reinforcement Plate
26	619017M	Top, Bottom and Stile Reinf. (Alum)
27	19046	Top, Bottom and Stile Reinf. (Comp.)
28	619018M	Interlock .300 Reinforcement
29	619013M	Interlock .400 Reinforcement
30	619019M	Astragal Reinforcement
31	619035	Reinforcement Plate
35	619005	Interlock Adaptor
36	619008	Astragal Add-on
37	619004	Panel Stile, Top/Bottom Rail
40	718609	.187 x .280 Finseal (Stile)
41	71695K	1-1/2" x 1" x 3/4" Fin Seal Dust Plug
42	419041	Interlock Clip Cover
43	78153X	Tandem S.S. Roller Assy.
44	78153N	Tandem Nylon Roller Assy.
45	619043	P-hook Reinforcement Plate
46	710X125FPSDX	#10 x 1-1/4" Fl PH SMS

Part #	PGT. #	Description
50	419042	Frame Header Block
51	48052	Roller Adj. Hole Plug
52	41735	SGD Panel Come-along
53	41736	SGD Panel Come-along Cover
55	71696	Dust Plug
56	44385	4 Hole Bumper Stop
58	619037M	Fixed Panel Clip
59	71696G	Sill Plug
61	78X38PPTX	#8 x 3/8" Ph. Pn. TEK Screw
62	78X34PPSDAX	#8 x 3/4" Fl. Ph. TEK - S.S.
63	781PSTX	#8 x 1" Quad - S.S..
64	781PQX	#8 x 1" Pn Quad - S.S.
65	78X114PHPT410X	#8 x 1-1/4" Ph. Pn. TEK
66	710X1PPSDAXX	#10 x 1" Ph. Pn. TEK - S.S.
67	710X115PPX	#10 x 1-1/2" Ph. Pn Keeper Screws
68	710X2PPX	#10 x 2" Ph. Fl S.S. Screw
69	710X212PPDAX	#10 x 2-1/2" Pn Ph. Tek S.S.
70	712X112PP	#12 x 1-1/2" Ph. Pn. A
71		GE 7700 Silicone
72		Dow Corning 995 Silicone
73	71726K	Neoprene Setting Block 1"x4"x1/16"
74		Metal Spacer - 9/32"
75		Urethane IG Sealer
76		Silicone-Foam Super Spacer - 7/16"
77		Hot-melt Butyl
78	619010	1-1/16" Beveled Bead
79	619015	1-1/16" Ogee Bead
80	619016	1-3/16" Ogee Bead
82	62139	Ogee Vinyl Muntin
83	63609	Insulated Glass Muntin - Horizontal
84	4CONN	I.G. Intersection
85	7558K	I.G. Gridlock Clip - 7/16"
86	7560K	I.G. Gridlock Clip - 5/16"

Part #	PGT. #	Description
		Box Screen
90	612256	Screen Top Rail
91	612257	Screen Bottom Rail
92	612258	Screen Side Rail - Lockstile
93	64344	Screen Astragal
94	617349	OXO Screen Astragal Adapter
95	64428	Screen Double Interlock
96	617347A	Screen Bug Flap
97	41818K	Screen Keeper Spacer Set
98	720X1X	1/4-20 x 1" S.S.
99	720X112X	1/4-20 x 1-1/2" S.S.
100	71793G	Wstp, .270" x .150" - Fin Seal
101	7SRAZ	Standard Roller
102	7SRAX	Standard Roller - S.S.
103	7LOCKWGS	Screen Lockset
104	41818K	Screen Lock Keeper Spacers
105	7SDKEEP	Screen Lock Keeper
		Standard Screen
110	612033	Screen Frame - Top/Bottom Rail
111	612026A	Screen Frame - Side Rail (Latch)
112	612033	Screen Frame - Side Rail
113	617363	OXO Screen Astragal Adapter
114	64853K	Vinyl Astragal
115	617356	Screen Sill Adapter
116	6FP95K	Bug Flap
117	7R42DK	Rivet
118	74X1PA	#4 x 1" Ph. Pn. SMS
119	78X112PSATS	#8 x 1-1/2" Ph. Pn. SMS A Z
120	41703N	Screw Boss Bushing
121	712027	Corner Key Wheel Assy. (Standard)
122	712027SS	Corner Key Wheel Assy. (S.S. w/bearing)
123	41805K	Screen Handle
124	41806	Screen Handle Slide
125	704/6B	Screen Latch Assy.
126	7SNKPN	Screen Keeper
127	61693K	Serrated Screen Spline - .145"
128	61692K	Screen Spline - .165"
129	61694K	Screen Spline - .150"
130	61816C20	Screen Cloth

NOTES
1) SEE SHEET 10 FOR MATERIAL TYPE AND DETAILS.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 13-1125.05
Expiration Date 5/16/16
By [signature]
Miami Dade Product Control

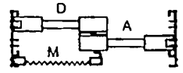
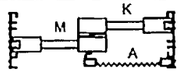
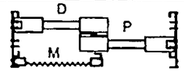
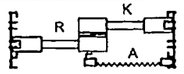
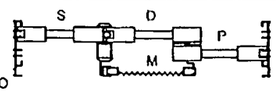
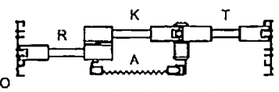
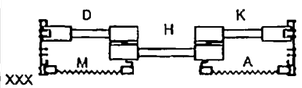
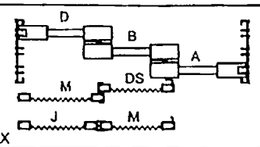
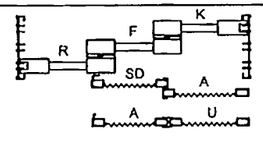
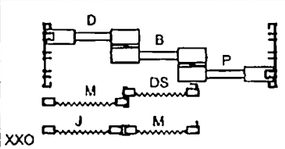
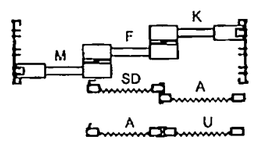
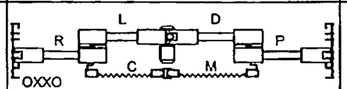
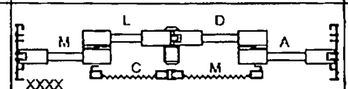
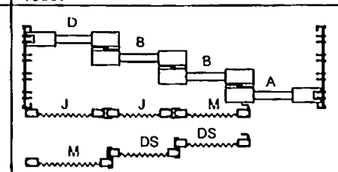
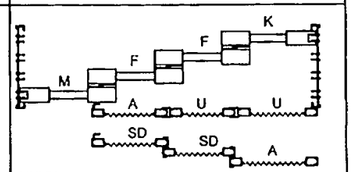
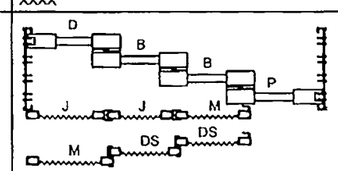
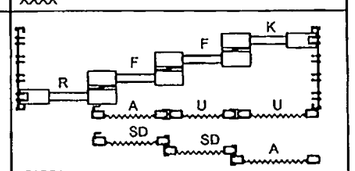
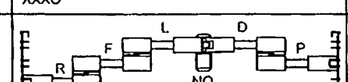
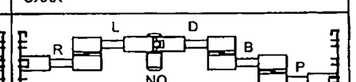
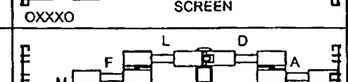
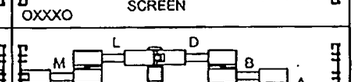
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705
2/4/14

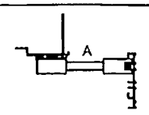
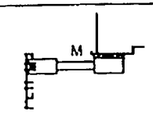
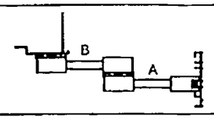
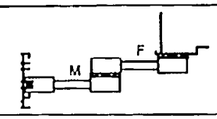
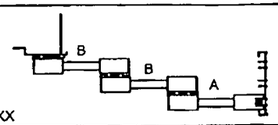
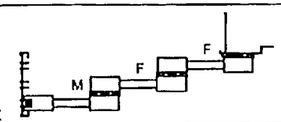
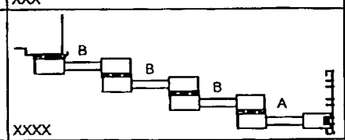
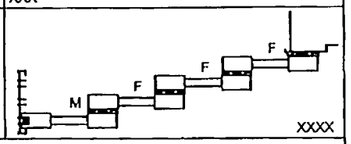
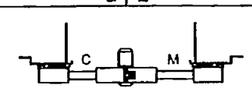
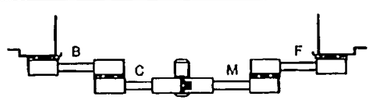
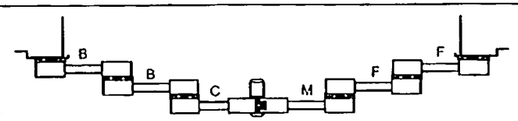
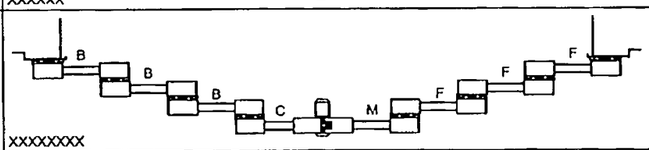
Drawn By: J ROSOWSKI
Date: 11/18/10
Rev: B
Revision: FBC 2010 CODE
Revision: N/A THIS SHEET
Revision: 10/11/11
Revised By: J.J.
Date: 11/05/13
Revised By: J.R.
Description: BILL OF MATERIALS
Title: VINYL SGD INSTALLATION GUIDELINES
Scale: NTS
Sheet: 11 OF 13
Drawing No. MD-SGD570-01
Series/Model: 570/2770

PGT®

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

CERT. OF AUTH. #29296

TYPE	STANDARD	REVERSE
2P2T	 XX	 XX
2P2T	 XO	 OX
3P2T	 OXO	 OXO
3P2T	 XXX	NOT AVAILABLE
3P3T	 XXX	 OXX
3P3T	 XXO	 XXX
4P2T	 OXXO	NOT AVAILABLE
4P2T	 XXXX	NOT AVAILABLE
4P4T	 XXXX	 XXXX
4P4T	 XXXO	 OXXX
5P3T	 OXXXO	 OXXXO
5P3T	 XXXXX	 XXXXX

TYPE	LEFT HAND POCKETS	LEFT HAND POCKETS
1P2T	 X	 X
2P2T	 XX	 XX
3P3T	 XXX	 XXX
4P4T	 XXXX	 XXXX
2P2T	 XX	
4P2T	 XXXX	
6P3T	 XXXXXX	
8P4T	 XXXXXXX	

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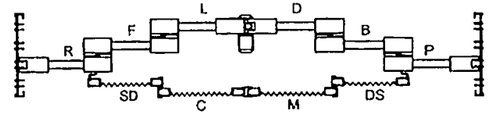
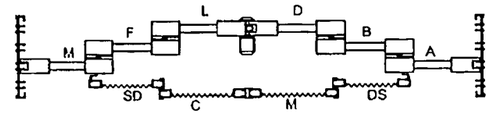
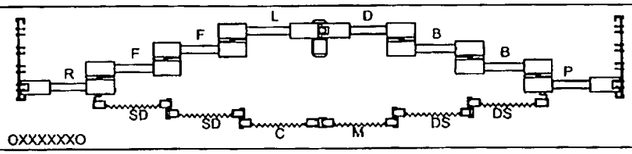
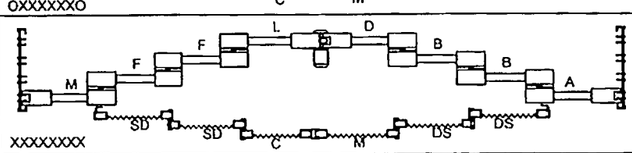
6P3T	 OXXXXO
6P3T	 XXXXXX
8P4T	 OXXXXXXO
8P4T	 XXXXXXXX

NOTES
1) MAXIMUM OF (8) EIGHT PANELS UP TO 96" FRAME HEIGHT.
2) MAXIMUM OF (4) FOUR PANEL CONFIGURATION FOR FRAME HEIGHTS OVER 96" AND UP TO 120".
3) MAXIMUM DOOR FRAME WIDTH (EXCLUDING POCKETS IF APPLICABLE) IS LIMITED TO 467-11/16".

INTERIOR

EXTERIOR

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

PRODUCT REVISED
to complying with the Florida Building Code
Acceptance No. 13-1125.05
Expiration Date 4/14/16
By Greg J. Maak
Miami Dade Product Control

PGT®

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

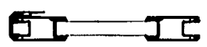
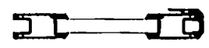
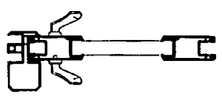
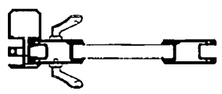
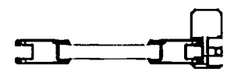
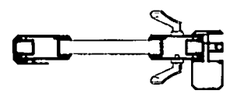
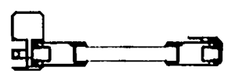
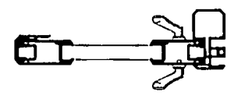
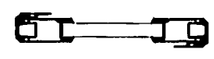
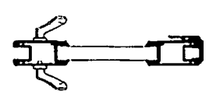
CERT. OF AUTH. #29296

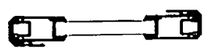
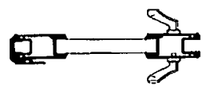
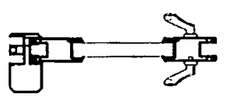
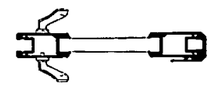
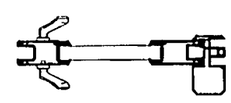
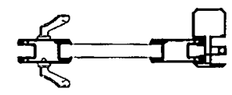
Revised By:	Date:	Revision:
J.J.	10/11/11	FBC 2010 CODE
J.R.	11/05/13	N/A THIS SHEET

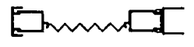
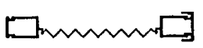
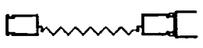
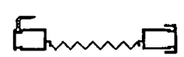
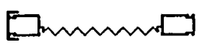
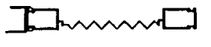
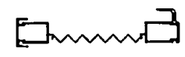
Description: SAMPLE CONFIGS AND PANEL NAMES
Drawn By: J ROSOWSKI

Title: VINYL SGD INSTALLATION GUIDELINES
Date: 11/18/10

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
570/2770	NTS	12 OF 13	MD-SGD570-01	B

P	SINGLE INTERLOCK		FIXED LOCKSTILE
R	FIXED LOCKSTILE		SINGLE INTERLOCK
T (BOX OUT)	ASTRAGAL OUT		FIXED LOCKSTILE
T (BOX IN)	ASTRAGAL IN		FIXED LOCKSTILE
S (BOX OUT)	FIXED LOCKSTILE		ASTRAGAL OUT
S (BOX IN)	FIXED LOCKSTILE		ASTRAGAL IN
L (BOX OUT)	SINGLE INTERLOCK		ASTRAGAL OUT
LR (BOX OUT)	ASTRAGAL OUT		SINGLE INTERLOCK
N (BOX IN)	ASTRAGAL IN		SINGLE INTERLOCK
C (BOX IN)	SINGLE INTERLOCK		ASTRAGAL IN
B	SINGLE INTERLOCK		SINGLE INTERLOCK
M	LOCKSTILE		SINGLE INTERLOCK

F	SINGLE INTERLOCK		SINGLE INTERLOCK
H	SINGLE INTERLOCK		SINGLE INTERLOCK
K	SINGLE INTERLOCK		LOCKSTILE
U (BOX OUT)	ASTRAGAL OUT		LOCKSTILE
U (BOX IN)	ASTRAGAL IN		LOCKSTILE
A	SINGLE INTERLOCK		LOCKSTILE
D	LOCKSTILE		SINGLE INTERLOCK
J (BOX OUT)	LOCKSTILE		ASTRAGAL OUT
J (BOX IN)	LOCKSTILE		ASTRAGAL IN

C	DOUBLE INTERLOCK		ASTRAGAL
M	LOCKSTILE		DOUBLE INTERLOCK
J	LOCKSTILE		ASTRAGAL
SD	SINGLE INTERLOCK		DOUBLE INTERLOCK
A	DOUBLE INTERLOCK		LOCKSTILE
U	ASTRAGAL		LOCKSTILE
DS	DOUBLE INTERLOCK		SINGLE INTERLOCK

NOTES
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) SEE SHEETS 2-4 FOR ANCHOR LOCATION & SPACING.
3) SEE TABLES 2-4 FOR REINFORCEMENT REQUIREMENTS.
4) CONTINUOUS ANCHOR PLATE, ITEM #8, IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 13-1125.05
Expiration Date APR 14, 2016
By
Miami-Dade Product Control

INTERIOR

EXTERIOR

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
2/4/14
A. LYNN MILLER, P.E.
P.E.# 58705

PGT®

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P.O. BOX 1529
NOKOMIS, FL 34274

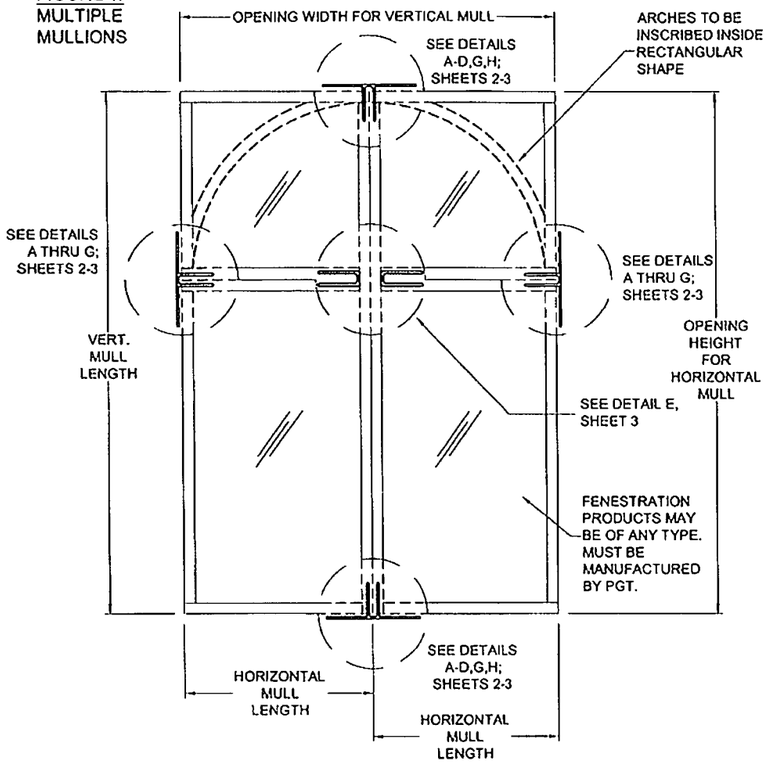
CERT. OF AUTH. #29296

Revised By:	Date:	Revision:
J.J.	10/11/11	FBC 2010 CODE
J.R.	11/05/13	N/A THIS SHEET

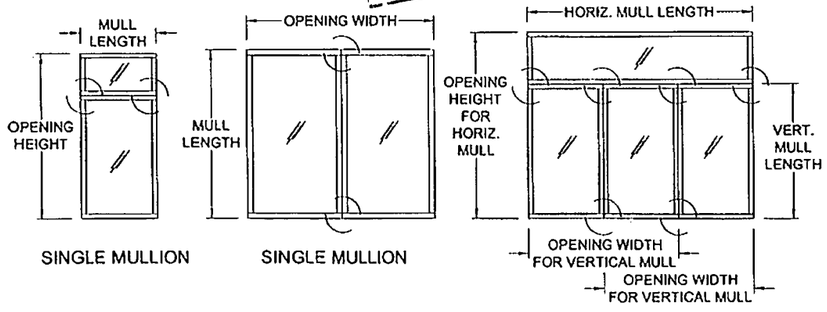
Description: PANEL TYPES				Drawn By: J ROSOWSKI	
Title: VINYL SGD INSTALLATION GUIDELINES					Date: 11/18/10
Series/Model: 570/2770	Scale: NTS	Sheet: 13 OF 13	Drawing No. MD-SGD570-01		Rev: B

SUITABLE FOR ALL LOCATIONS REQUIRING NON-IMPACT OR LARGE AND SMALL MISSILE IMPACT-RESISTANT PRODUCTS

FIGURE 1:
MULTIPLE MULLIONS



ADDITIONAL EXAMPLES OF MULL CONFIGURATIONS:



SEE CORRESPONDING DETAILS FROM FIGURE 1 ABOVE.

GENERAL NOTES:

1) DETAILS SHOWN ARE FOR THE MULLION ONLY. ANCHORS SHOWN ARE IN ADDITION TO ANY ANCHORS REQUIRED FOR THE FENESTRATION PRODUCT INSTALLATION. TYPICAL APPLICATIONS ARE SHOWN. EACH SITUATION IS UNIQUE AND SHOULD BE EVALUATED BY AN EXPERIENCED INSTALLER FOR THE BEST INSTALLATION METHOD. OPTIONAL 1X OR 2X WOOD BUCKS IF USED, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS AND ARE TO BE DESIGNED BY OTHERS.

2) THE TYPE AND NUMBER OF ANCHORS IS CRITICAL TO THE STRUCTURAL PERFORMANCE OF THE MULLED UNITS. MULLIONS HAVE BEEN TESTED AS "FREE-FLOATING" AND DO NOT NEED TO BE DIRECTLY ATTACHED TO THE MULLION CLIPS, BUT SHALL NOT HAVE A GAP OF MORE THAN 1/4" FROM THE CLIP.

3) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. MULLIONS ARE CALCULATED TO DEFLECT NO MORE THAN L/180. THE 1/3 STRESS INCREASE WAS NOT USED IN THIS ANCHOR EVALUATION. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF WOOD SCREWS.

4) PROPER SEALING OF ENTIRE ASSEMBLY IS THE RESPONSIBILITY OF OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

5) USE THE COMBINED WIDTH OR HEIGHT OF ONLY TWO ADJACENT FENESTRATION PRODUCTS TO DETERMINE PRESSURES AND ANCHORAGE FOR THE COMMON MULLION, SEE EXAMPLES ON THIS SHEET AND SHEET 21. FOR MULTIPLE UNITS, CONSIDER ONLY TWO ADJACENT UNITS AT A TIME WHEN USING THE DESIGN PRESSURE AND ANCHORAGE TABLES. THE LOWEST DESIGN PRESSURE OF MULTIPLE MULLIONS OR FENESTRATION PRODUCTS SHALL APPLY.

6) WHEN FINDING YOUR SIZE IN THE MULLION TABLES, ALWAYS ROUND UP TO THE NEXT SIZE SHOWN ON THE TABLE(S).

7) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE. ANCHORS SHALL BE COATED OR CORROSION RESISTANT AS APPROPRIATE FOR SUBSTRATE MATERIAL. DISSIMILAR MATERIALS SHALL BE PROTECTED AS REQUIRED TO PREVENT REACTIONS.

8) REFERENCE: TEST REPORTS: FTL-6443; ELCO ULTRACON/AGGRE-GATOR NOA'S; ANSI/AF&PA NDS FOR WOOD CONSTRUCTION; ADM-ALUMINUM DESIGN MANUAL

9) MULLIONS AND CLIPS HAVE BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, AND ARE APPROVED FOR IMPACT AND NON-IMPACT APPLICATIONS. MULLIONS ARE ONLY TO BE USED WITH PGT-APPROVED FENESTRATION PRODUCTS HAVING CURRENT APPROVALS.

10) MULLIONS ARE IN COMPLIANCE FOR USE IN THE HVHZ.

INSTRUCTIONS:

1) DETERMINE THE DESIGN PRESSURE REQUIREMENT (LBS/FT²) FOR THE OPENING USING THE **ASCE-7 STANDARD.**

2) CHOOSE A MULLION TYPE THAT WILL FIT THE DEPTH OF THE FENESTRATION PRODUCT'S FRAME DEPTH.

3) REFER TO SHEET 22 TO DETERMINE IF THE WIND LOADING IS "RECTANGULAR" OR "TRIANGULAR/TRAPEZOIDAL".

4) FIND THE CHOSEN MULLION'S MULLION CAPACITY (LBS/FT²) FROM TABLES 1A THROUGH 13A, ON SHEETS 5 THROUGH 17 RESPECTIVELY, USING THE MULLION TYPE, LENGTH AND OPENING WIDTH OR HEIGHT (DEPENDING IF THE MULLION IS SPANNING VERTICALLY OR HORIZONTALLY). THE MULLION CAPACITY (LBS/FT²) OBTAINED SHALL MEET OR EXCEED THE DESIGN PRESSURE REQUIREMENT (LBS/FT²) FOR THE OPENING OBTAINED IN STEP 1).

5) FROM THE SAME TABLE USED IN STEP 4) ABOVE, FIND THE VALUE IN THE NEXT COLUMN ANCHOR CAPACITY REQUIRED (LBS). THIS VALUE REPRESENTS THE WINDLOAD TRANSFERRED TO THE SUBSTRATE BY THE ANCHORS AND MUST BE MET TO ATTAIN THE FULL MULLION CAPACITY.

6) FROM THE ANCHOR CAPACITY (LBS) TABLE ON THE SAME SHEET AND USING YOUR ACTUAL SUBSTRATE CONDITION (MULTIPLE ANCHOR/SUBSTRATE/ANCHOR-CLIP PATTERN MAY APPLY) SELECT AN ANCHOR CLIP PATTERN AND VERIFY THAT THE REQUIRED ANCHOR CAPACITY IS MET.

7) IF THE MULLION CAPACITY (LBS/FT²) OBTAINED IN THE TABLE IS HIGHER THAN THE DESIGN PRESSURE REQUIREMENT (LBS/FT²) FOR THE OPENING, YOU MAY USE THE **"ANCHOR CAPACITY ADJUSTMENT FORMULA"** TO OBTAIN THE LOWER ANCHOR CAPACITY REQUIRED. WITH THIS VALUE A LOWER ANCHOR CAPACITY OPTION MAY BE SELECTED FOR THE SAME SUBSTRATE

8) VERIFY THE DESIGN PRESSURE RATING (LBS/FT²) FOR THE FENESTRATION PRODUCT TO BE USED AND COMPARE WITH THE FINAL MULLION CAPACITY (LBS/FT²) OBTAINED FOR THE MULLION SYSTEM. THE LOWER OF THE TWO SHALL APPLY FOR THE ENTIRE MULLED FENESTRATION PRODUCT ASSEMBLY.

9) HIGHLIGHT OPTION USED AND TABLE VALUES USED IN A SPECIFIC APPLICATION WHEN USING THIS NOA TO APPLY FOR A PERMIT.

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P.O. BOX 1529
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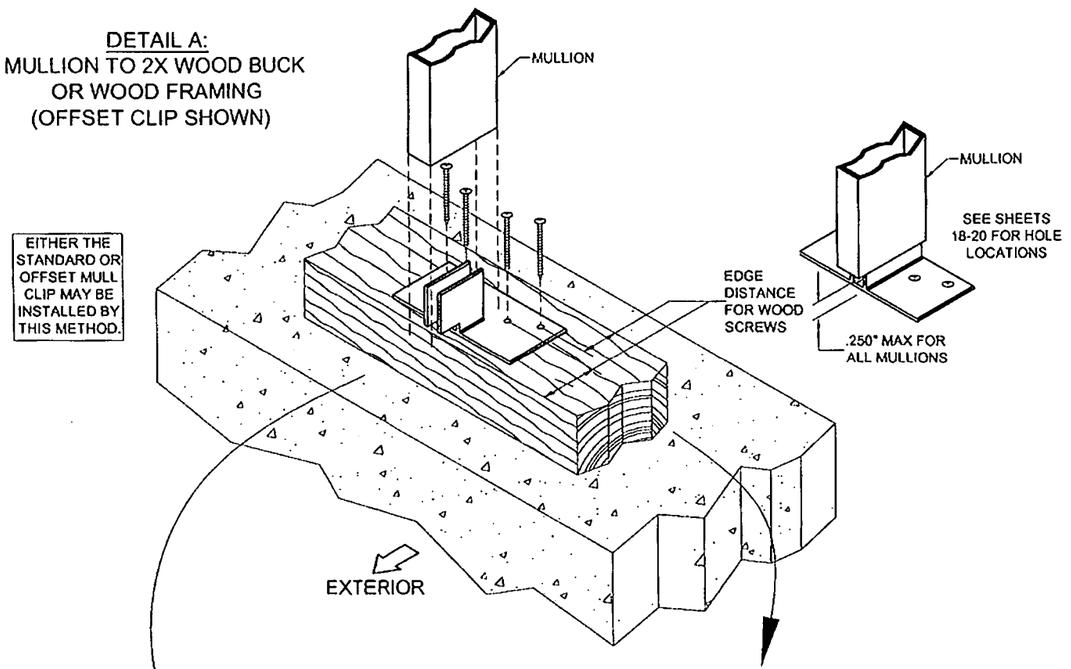
FL CERT. OF AUTH.# 29296

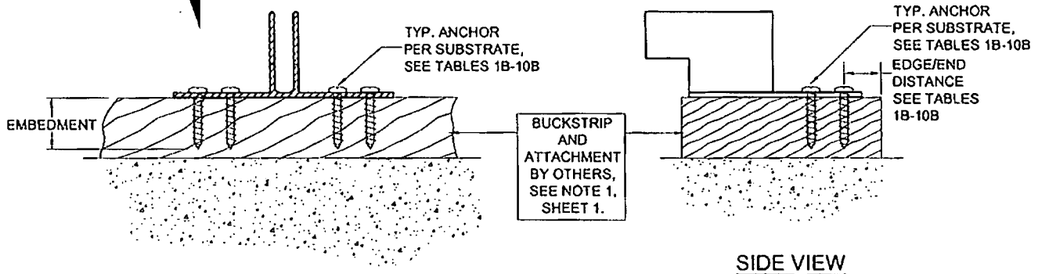
Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: GENERAL NOTES AND ELEVATION
Drawing No. 6300JR
Sheet: 1 of 22
Rev: A
Series: N/A
Scale: N/A
Date: 08/29/11
Checked By:
Date:
Drawn By: J ROSOWSKI
Rev. By: J ROSOWSKI
Date: 07/15/13
Revision: ADDED T-MULL TO INDEX

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 13-0815.01
Expiration Date 06/26/2016
By
Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
10/15/13
A. LYNN MILLER, P.E.
FL P.E.# 58705

DETAIL A:
MULLION TO 2X WOOD BUCK OR WOOD FRAMING (OFFSET CLIP SHOWN)

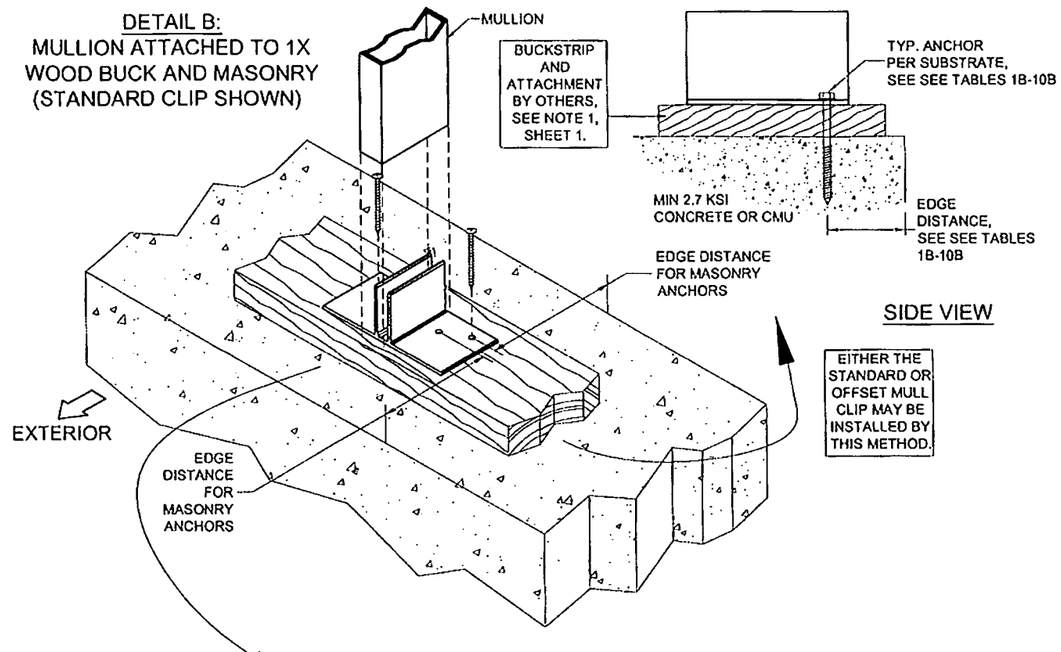


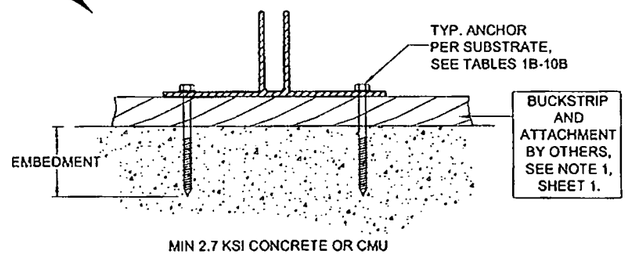


FRONT VIEW

SIDE VIEW

DETAIL B:
MULLION ATTACHED TO 1X WOOD BUCK AND MASONRY (STANDARD CLIP SHOWN)





FRONT VIEW

INSTALLATION NOTES:

1) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

2) QUANTITY OF ANCHORS AND MULLION SIZE SHOWN ABOVE ARE FOR PICTORIAL REPRESENTATION ONLY. BECAUSE THE ANCHOR CAPACITY IS BASED PARTLY ON THE ANCHOR TO ANCHOR DISTANCE, THE CORRECT QUANTITY AND LOCATION OF ANCHORS MUST BE FOLLOWED, REFER TO THE TABLES ON THE FOLLOWING SHEETS. FOR DETAILS A-D, EITHER THE STANDARD OR INTERIOR CLIP MAY BE USED.

3) ANCHOR HEAD TYPE MAY BE PANHEAD, HEXHEAD OR FLATHEAD.

4) WOOD BUCKS ARE OPTIONAL, SEE DETAIL C, SHEET 3.

5) FOR MASONRY APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ELCO ULTRACON OR ELCO 1/4" S.S. AGGREGATOR MASONRY ANCHORS.

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Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: INSTALLATION INSTRUCTIONS A
Series: N/A | Drawing No. 6300JR | Sheet: 2 of 22
Drawn By: J ROSOWSKI | Date: 08/29/11 | Checked By: | Date: | Rev: A
Rev. By: J ROSOWSKI | Date: 07/15/13 | Revision: NO CHANGES THIS SHEET

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Expiration Date 05/26/2016
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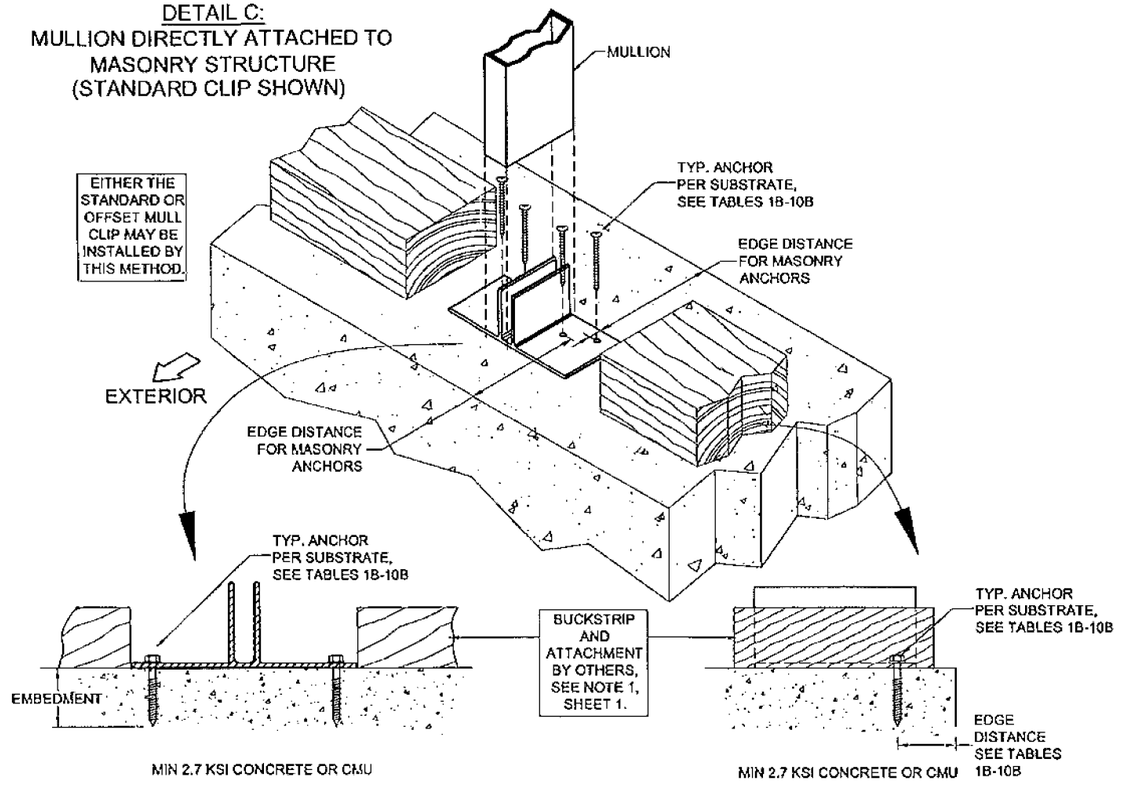
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

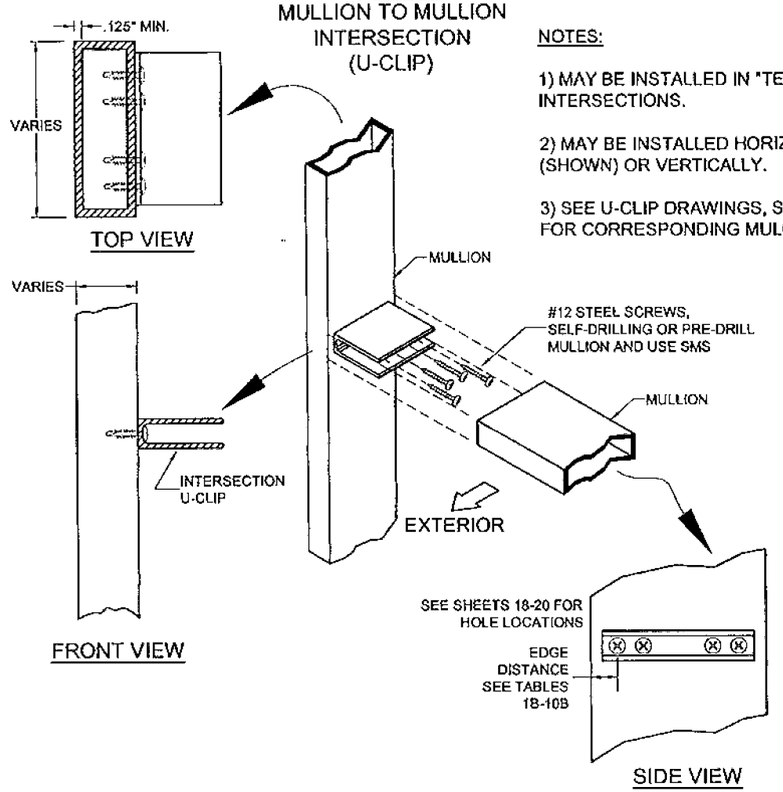
DETAIL C:
MULLION DIRECTLY ATTACHED TO MASONRY STRUCTURE (STANDARD CLIP SHOWN)



FRONT VIEW

SIDE VIEW

DETAIL E:
MULLION TO MULLION INTERSECTION (U-CLIP)



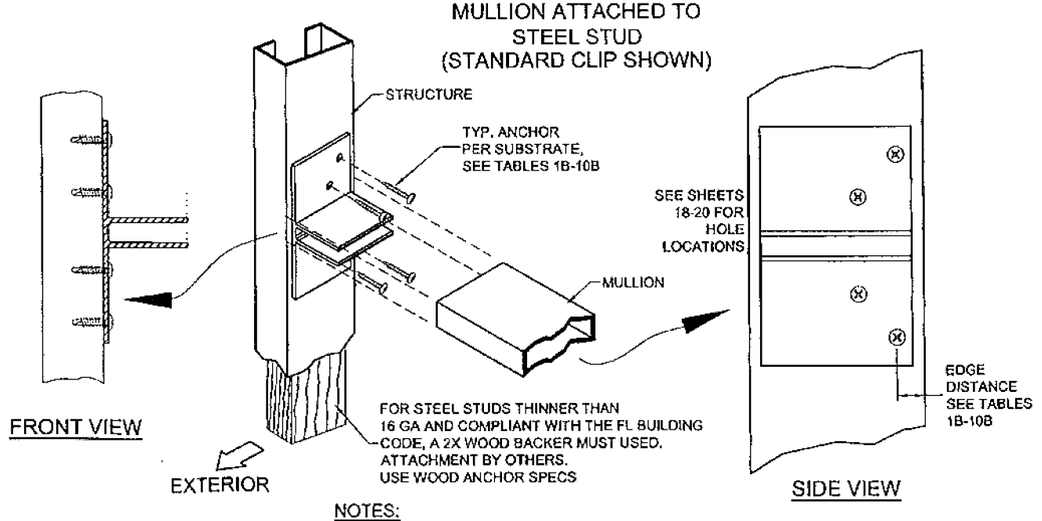
NOTES:

1) MAY BE INSTALLED IN "TEE" OR "CROSS" INTERSECTIONS.

2) MAY BE INSTALLED HORIZONTALLY (SHOWN) OR VERTICALLY.

3) SEE U-CLIP DRAWINGS, SHEETS 18-20 FOR CORRESPONDING MULLION.

DETAIL D:
MULLION ATTACHED TO STEEL STUD (STANDARD CLIP SHOWN)



NOTES:

1) FOR 2X WOOD-BACKED STEEL STUDS, WOOD ANCHOR VALUES MAY BE USED.

2) SEE CORRESPONDING MULLION TABLES, SHEETS 5-17, FOR QUANTITY OF SCREWS.

INSTALLATION NOTES:

1) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

2) QUANTITY OF ANCHORS AND MULLION SIZE SHOWN ABOVE ARE FOR PICTORIAL REPRESENTATION ONLY. BECAUSE THE ANCHOR CAPACITY IS BASED PARTLY ON THE ANCHOR TO ANCHOR DISTANCE, THE CORRECT QUANTITY AND LOCATION OF ANCHORS MUST BE FOLLOWED, REFER TO THE TABLES ON THE FOLLOWING SHEETS. FOR DETAILS A-D, EITHER THE STANDARD OR INTERIOR CLIP MAY BE USED.

3) ANCHOR HEAD TYPE MAY BE PANHEAD, HEXHEAD OR FLATHEAD.

4) WOOD BUCKS ARE OPTIONAL, SEE DETAIL C, SHEET 3.

5) FOR MASONRY APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ELCO ULTRACON OR ELCO 1/4" S.S. AGGREGATOR MASONRY ANCHORS.

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Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: INSTALLATION INSTRUCTIONS B
Series: N/A
Scale: N/A
Drawing No. 6300JR
Sheet: 3 of 22
Rev: A
Drawn By: J ROSOWSKI
Date: 08/29/11
Checked By:
Date:
Rev. By: J ROSOWSKI
Revision: 07/15/13 NO CHANGES THIS SHEET

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Acceptance No 13-0815.04
Expiration Date 05/26/2016
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Miami Dade Product Control

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No. 58705
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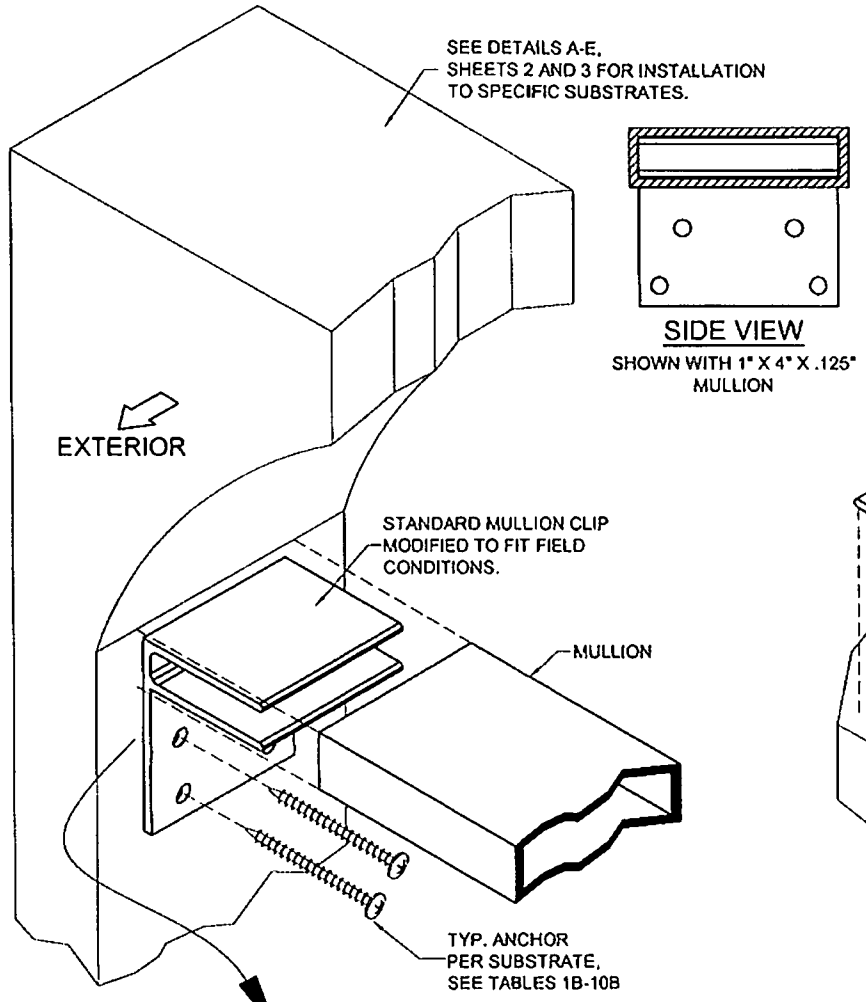
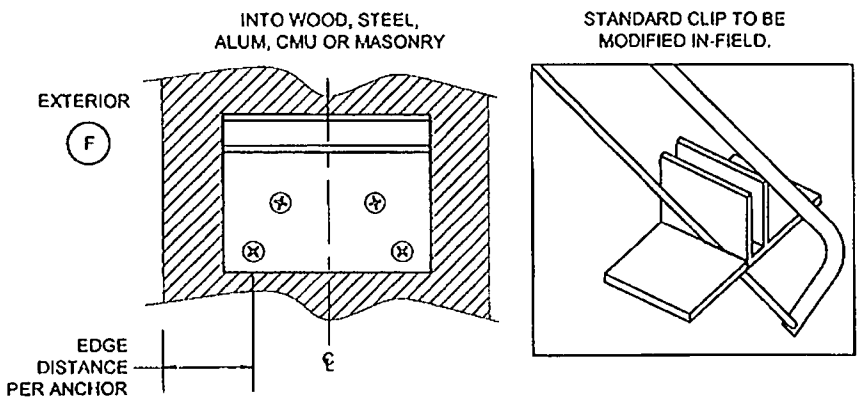
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

DETAIL F:
FIELD-MODIFIED MULLION CLIP
(F-CLIP)





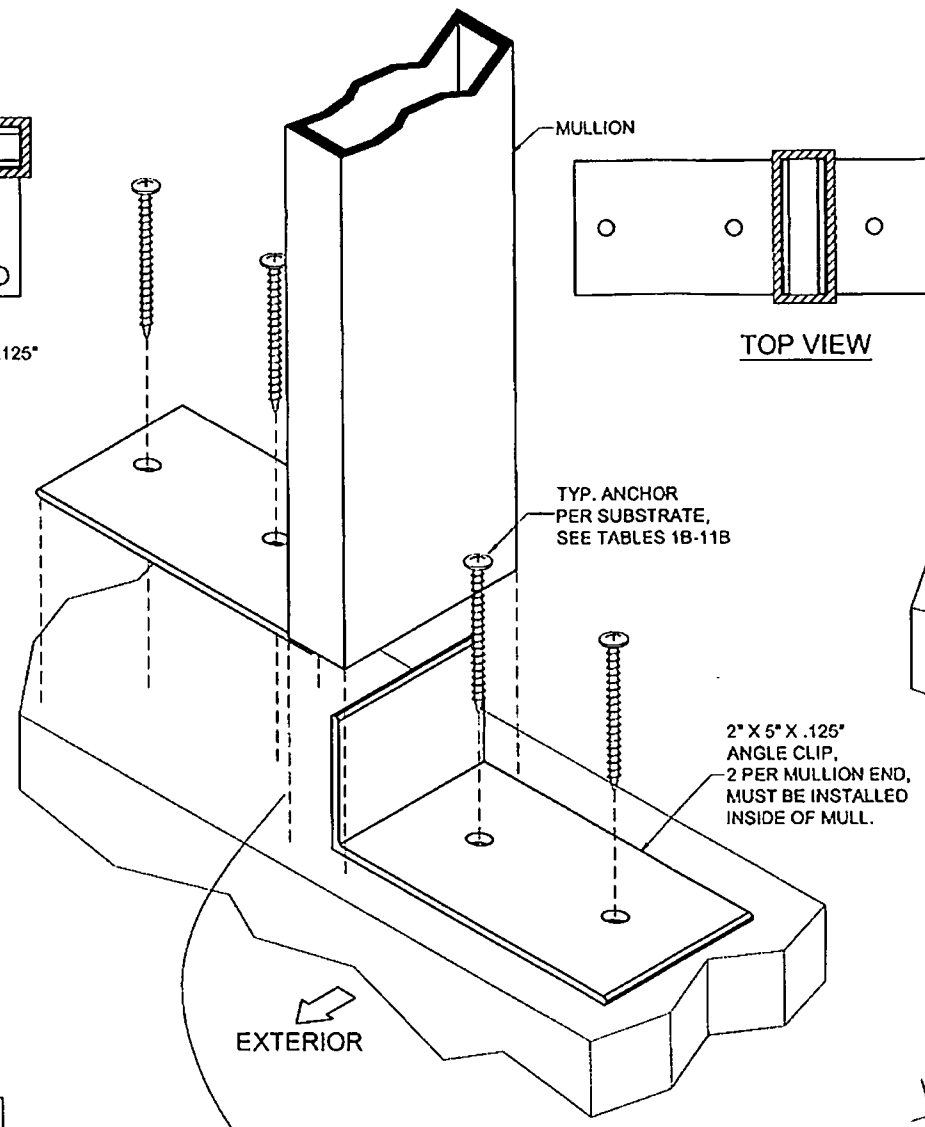
NOTES FOR INSTALLATION OPTIONS F:

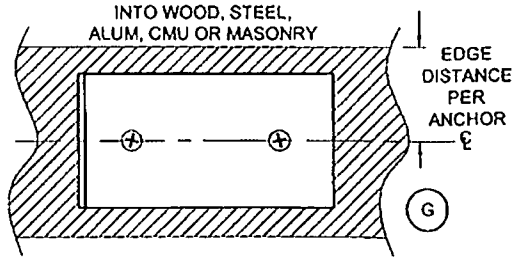
1) DETAIL IS NOT APPLICABLE FOR THE BAY OR 1.26" X 2.11" X .125" MULLION.

2) SEE TABLES 1B-10B FOR ANCHOR QUANTITIES AND SHEETS 18-20 FOR HOLE LOCATIONS.

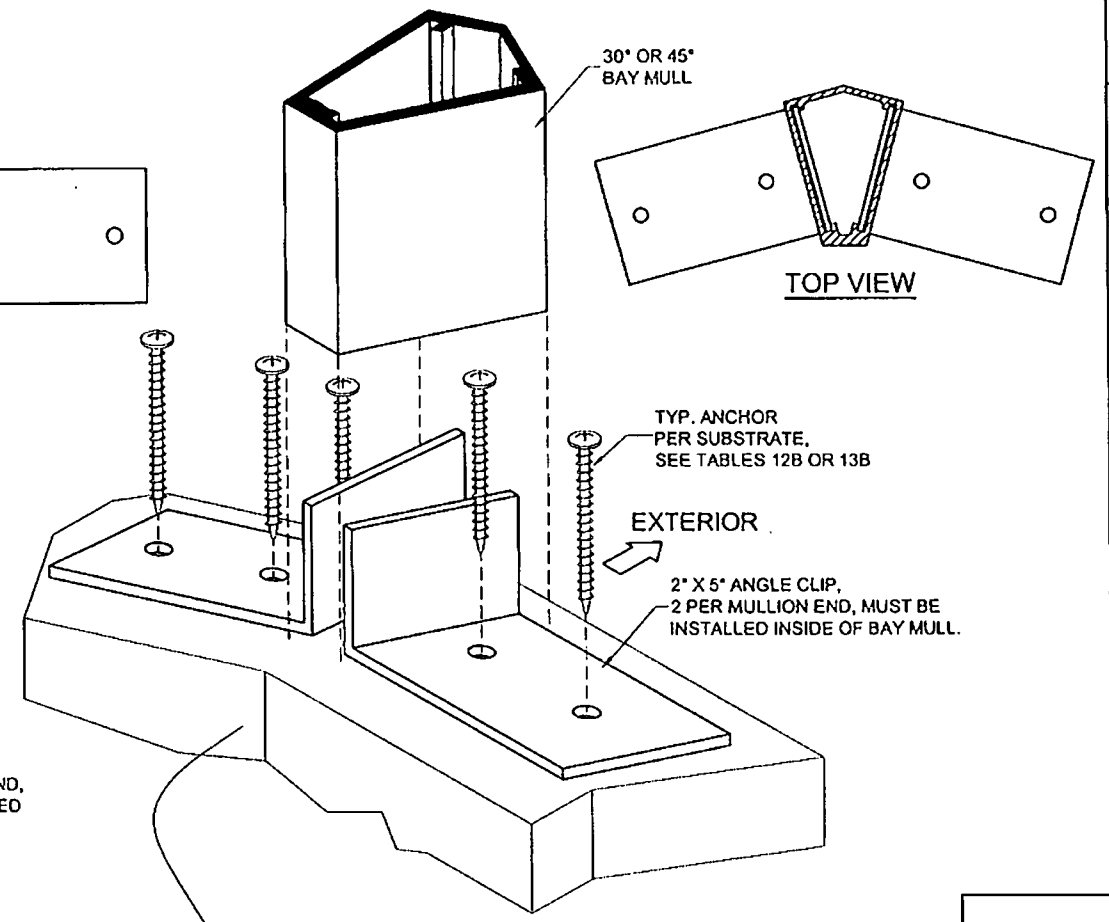
3) THE 2X5 CLIP IS NOT SUITABLE FOR THIS APPLICATION.

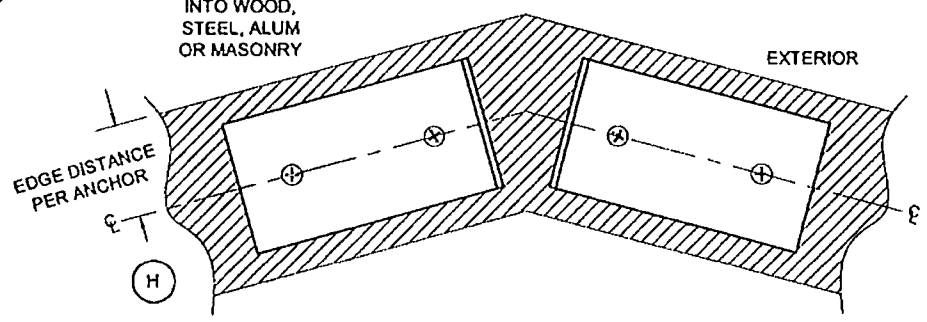
DETAIL G:
ANGLE MULLION CLIP
(ANGLE CLIP)





DETAIL H:
BAY MULLION INSTALLATION
(ANGLE CLIP)





NOTES FOR INSTALLATION OPTION G & H:

1) USE 2 ANGLE CLIPS PER MULLION END. CLIPS MUST BE INSERTED INSIDE OF MULLION.

2) DETAIL G: SEE TABLES 1B-11B FOR ANCHOR QUANTITIES AND SHEETS 18-20 FOR HOLE LOCATIONS.

3) DETAIL H: SEE TABLES 12B OR 13B FOR ANCHOR QUANTITIES AND SHEETS 18-20 FOR HOLE LOCATIONS.

PGT®
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
FL CERT. OF AUTH.# 29296

Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: INSTALLATION INSTRUCTIONS C
Series: N/A | Scale: N/A | Drawing No. 6300JR | Sheet: 4 of 22
Drawn By: J ROSOWSKI | Date: 08/29/11 | Checked By: | Date: | Rev. A
Rev. By: J ROSOWSKI | Date: 07/15/13 | Revision: NO CHANGES THIS SHEET

PRODUCT REVISED
is complying with the Florida
Building Code
Acceptance No 13-0815.05
Expiration Date 05/26/2016
By
Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
10/15/13
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

TABLE 1A

Mullion Capacity Table (lbs/ft²)

1 x 2 x .125 Alum. Tube Mullion		Opening Width (for vertically-spanning mullions) or Opening Height (for horizontally-spanning mullions)																											
		50 in				60 in				70 in				80 in				90 in				100 in				120 in				140 in				160 in			
		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
		Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
Mull Length	42 in	111.9	408	129.5	332	93.2	408	115.5	325	79.9	408	107.8	321	69.9	408	104.4	319	62.1	408	104.0	319	55.9	408	104.0	319	46.6	408	104.0	319	39.9	408	104.0	319	35.0	408	104.0	319
	48 in	74.9	312	83.8	258	62.4	312	73.4	252	53.5	312	67.0	248	46.8	312	63.2	246	41.6	312	61.3	244	37.5	312	61.0	244	31.2	312	61.0	244	26.8	312	61.0	244	23.4	312	61.0	244
	50.625 in	63.9	281	70.6	234	53.2	281	61.5	228	45.6	281	55.7	224	39.9	281	52.1	222	35.5	281	50.1	220	31.9	281	49.3	219	26.6	281	49.3	219	22.8	281	49.3	219	20.0	281	49.3	219
	54 in	52.6	247	57.5	207	43.9	247	49.8	202	37.6	247	44.8	199	32.9	247	41.5	196	29.2	247	39.4	194	26.3	247	38.4	193	21.9	247	38.1	193	18.8	247	38.1	193	16.4	247	38.1	193
	60 in	38.4	200	41.2	170	32.0	200	35.4	166	27.4	200	31.5	163	24.0	200	28.9	160	21.3	200	27.1	159	19.2	200	25.9	157	16.0	200	25.0	156								
	63 in	33.1	181	35.3	155	27.6	181	30.3	152	23.7	181	26.9	149	20.7	181	24.5	146	18.4	181	22.8	144	16.6	181	21.7	143												
	66 in	28.8	165	30.6	142	24.0	165	26.1	139	20.6	165	23.1	136	18.0	165	21.0	134																				
	72 in	22.2	139	23.3	120	18.5	139	19.9	118	15.9	139	17.5	116																								
	76 in	18.9	125	19.7	109	15.7	125	16.8	107																												
	78 in	17.5	118	18.2	104																																

TABLE 1B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	Substrate:	2.7k Concrete				3.5k Conc.	Hollow CMU						Filled CMU	PT Wood		Metal
	Anchor Type:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
	Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
	Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	(see note 4)
2 Anchors @ 4.75" Min. O.C. / Standard or Offset Clip (Fig. 1):		390 lbs	390 lbs	450 lbs	890 lbs	1644 lbs	270 lbs	280 lbs	354 lbs	740 lbs	468 lbs	664 lbs	1182 lbs	326 lbs	420 lbs	560 lbs
4 Anchors @ 1.15" Min. O.C. / Standard (or Offset) Clip (Fig. 2):		480 lbs	700 lbs	N/A	N/A	N/A	N/A	380 lbs	N/A	N/A	N/A	N/A	N/A	652 lbs	840 lbs	1120 lbs
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 3):		780 lbs	780 lbs	680 lbs	1560 lbs	1896 lbs	540 lbs	560 lbs	N/A	760 lbs	936 lbs	880 lbs	2364 lbs	652 lbs	840 lbs	1120 lbs
2 Anchors @ 0.45" Min. O.C. / U-Clip, into 1/8" Alum. (Fig. 4):		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	716 lbs
1 Anchor / F-Clip (Fig. 5):		195 lbs	195 lbs	225 lbs	445 lbs	822 lbs	135 lbs	140 lbs	177 lbs	370 lbs	234 lbs	332 lbs	591 lbs	163 lbs	210 lbs	280 lbs
2 Anchors @ 1.15" Min. O.C./ F-Clip (Fig. 6):		240 lbs	350 lbs	N/A	N/A	N/A	N/A	190 lbs	N/A	N/A	N/A	N/A	N/A	326 lbs	420 lbs	560 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

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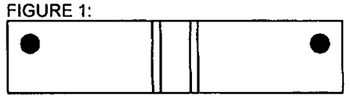


FIGURE 2:

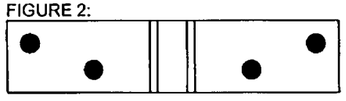
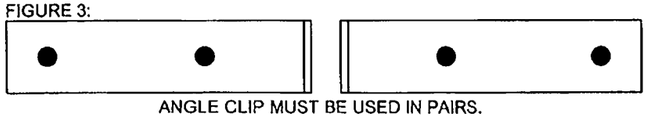


FIGURE 3:



ANGLE CLIP MUST BE USED IN PAIRS.

FIGURE 4:

FIGURE 5:

FIGURE 6:

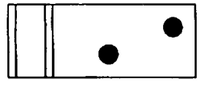


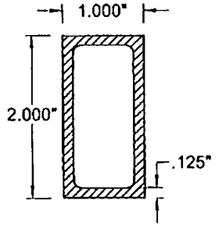
TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 22 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 18-20. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEETS 18-20. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.

4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL BE PRESSURE-TREATED YELLOW SOUTHERN PINE WITH AN SG OF 0.55. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .125" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL.



1" X 2" X .125" MULLION

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{REQ}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FACTUAL}}}{\text{MULLION CAP.}_{\text{FACTUAL}}}\right) = \text{ANCHOR CAP.}_{\text{REQ}}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

PRODUCT REVISED
As complying with the Florida Building Code
Acceptance No 130815.05
Expiration Date 05/26/2016
By
Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
10/15/13
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
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N. VENICE, FL 34275
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NOKOMIS, FL 34274
FL CERT. OF AUTH.# 29296

Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: 1 X 2 X .125 MULL SPECS
Series: N/A
Scale: N/A
Drawing No. 6300JR
Sheet: 5 of 22
Rev: A
Drawn By: J ROSOWSKI
Date: 08/29/11
Checked By:
Date:
Rev. By: J ROSOWSKI
Date: 07/15/13
Revision: REVISED CLIP FIGURES

TABLE 2A

Mullion Capacity Table (lbs/ft²)

Opening Width (for vertically-spanning mullions) **or Opening Height** (for horizontally-spanning mullions)

1 x 2 x .375 Alum. Tube Mullion		50 in				60 in				70 in				80 in				90 in				100 in				120 in				140 in				160 in			
		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
		Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
Mull Length	42 in	170.0	620	170.0	435	151.3	662	170.0	478	129.7	662	170.0	506	113.5	662	169.5	518	100.9	662	168.9	517	90.8	662	168.9	517	75.7	662	168.9	517	64.9	662	168.9	517	56.7	662	168.9	517
	48 in	121.6	507	136.0	419	101.4	507	119.2	410	86.9	507	108.7	403	76.0	507	102.6	399	67.6	507	99.6	397	60.8	507	99.0	396	50.7	507	99.0	396	43.4	507	99.0	396	38.0	507	99.0	396
	50.625 in	103.7	456	114.6	379	86.4	456	99.9	371	74.1	456	90.5	364	64.8	456	84.6	360	57.6	456	81.3	357	51.8	456	80.0	356	43.2	456	80.0	356	37.0	456	80.0	356	32.4	456	80.0	356
	54 in	85.4	400	93.3	336	71.2	400	80.9	328	61.0	400	72.7	322	53.4	400	67.3	318	47.5	400	64.0	315	42.7	400	62.3	314	35.6	400	61.8	313	30.5	400	61.8	313	26.7	400	61.8	313
	60 in	62.3	324	66.9	276	51.9	324	57.5	270	44.5	324	51.2	264	38.9	324	46.9	260	34.6	324	43.9	257	31.1	324	42.0	255	26.0	324	40.5	253	22.2	324	40.5	253	19.5	324	40.5	253
	63 in	53.8	294	57.4	252	44.8	294	49.2	246	38.4	294	43.6	241	33.6	294	39.8	237	29.9	294	37.1	234	26.9	294	35.2	232	22.4	294	33.5	230	19.2	294	33.4	230	16.8	294	33.4	230
	66 in	46.8	268	49.6	230	39.0	268	42.4	225	33.4	268	37.5	221	29.2	268	34.1	218	26.0	268	31.6	215	23.4	268	29.8	212	19.5	268	28.0	210	16.7	268	27.7	209	14.6	268	27.7	209
	72 in	36.0	225	37.9	196	30.0	225	32.2	191	25.7	225	28.4	188	22.5	225	25.6	185	20.0	225	23.5	182	18.0	225	22.1	180	15.0	225	20.3	177	12.9	225	19.6	176	11.3	225	19.6	176
	76 in	30.6	202	32.0	177	25.5	202	27.2	173	21.9	202	23.9	170	19.2	202	21.5	167	17.0	202	19.7	165	15.3	202	18.4	163	12.8	202	16.7	160	10.9	202	15.9	158	9.6	202	15.8	158
	78 in	28.3	192	29.6	168	23.6	192	25.1	165	20.2	192	22.0	162	17.7	192	19.7	159	15.7	192	18.1	157	14.2	192	16.8	155	11.8	192	15.2	152	10.1	192	14.4	150	8.9	192	14.2	150
	90 in	18.5	144	19.0	128	15.4	144	16.1	126																												
	96 in	15.2	127	15.6	113																																

TABLE 2B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	Substrate:	2.7k Concrete				3.5k Conc.	Hollow CMU						Filled CMU	PT Wood		Metal
	Anchor Type:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
	Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
	Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	(see note 4)
2 Anchors @ 4.75" Min. O.C. / Standard or Offset Clip (Fig. 1):		390 lbs	390 lbs	450 lbs	890 lbs	1644 lbs	270 lbs	280 lbs	354 lbs	740 lbs	468 lbs	664 lbs	1182 lbs	326 lbs	420 lbs	560 lbs
4 Anchors @ 1.15" Min. O.C. / Standard (or Offset) Clip (Fig. 2):		480 lbs	700 lbs	N/A	N/A	N/A	N/A	380 lbs	N/A	N/A	N/A	N/A	N/A	652 lbs	840 lbs	1120 lbs
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 3):		780 lbs	780 lbs	680 lbs	1560 lbs	1896 lbs	540 lbs	560 lbs	N/A	760 lbs	936 lbs	880 lbs	2364 lbs	652 lbs	840 lbs	1120 lbs
2 Anchors @ 0.45" Min. O.C. / U-Clip, into 1/8" Alum. (Fig. 4):		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	716 lbs
1 Anchor / F-Clip (Fig. 5):		195 lbs	195 lbs	225 lbs	445 lbs	822 lbs	135 lbs	140 lbs	177 lbs	370 lbs	234 lbs	332 lbs	591 lbs	163 lbs	210 lbs	280 lbs
2 Anchors @ 1.15" Min. O.C./ F-Clip (Fig. 6):		240 lbs	350 lbs	N/A	N/A	N/A	N/A	190 lbs	N/A	N/A	N/A	N/A	N/A	326 lbs	420 lbs	560 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

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$$(DP_{REQ}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{\text{REQ}}$$

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FIGURE 1:

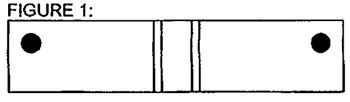
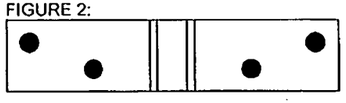


FIGURE 2:



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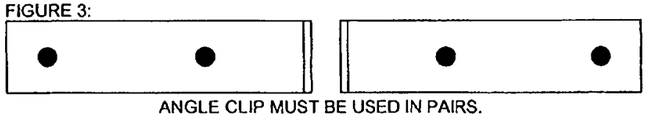


ANGLE CLIP MUST BE USED IN PAIRS.

FIGURE 4:

FIGURE 5:

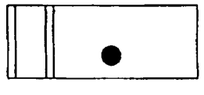
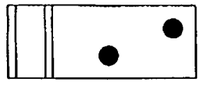


FIGURE 6:



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3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 18-20. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEETS 18-20. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.

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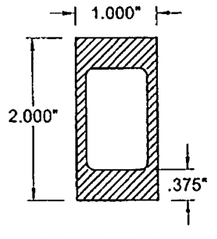


1" X 2" X .375" MULLION

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 13-0815.05
Expiration Date 05/26/2016
By
Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
10/15/13
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

PGT®
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
FL CERT. OF AUTH.# 29296

Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: 1 X 2 X .375 MULL SPECS
Series: N/A
Drawn By: J ROSOWSKI
Date: 08/29/11
Rev. By: J ROSOWSKI
Date: 07/15/13
Revision: REVISED CLIP FIGURES
Drawing No. 6300JR
Sheet: 6 of 22
Scale: N/A
Checked By:
Date:
Rev. A

TABLE 3A

Mullion Capacity Table (lbs/ft²)

Opening Width (for vertically-spanning mullions) **or Opening Height** (for horizontally-spanning mullions)

1 x 2.75 x .375 Alum. Tube Mullion		50 in				60 in				70 in				80 in				90 in				100 in				120 in				140 in				160 in			
		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
		Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
Mull Length	42 in	170.0	620	170.0	435	170.0	744	170.0	478	170.0	868	170.0	506	170.0	992	170.0	519	170.0	1116	170.0	521	170.0	1240	170.0	521	148.7	1301	170.0	521	127.5	1301	170.0	521	111.5	1301	170.0	521
	48 in	170.0	708	170.0	524	170.0	850	170.0	584	170.0	992	170.0	630	170.0	1133	170.0	661	151.8	1139	170.0	677	136.6	1139	170.0	680	113.9	1139	170.0	680	97.6	1139	170.0	680	85.4	1139	170.0	680
	50.625 in	170.0	747	170.0	563	170.0	896	170.0	631	167.8	1032	170.0	684	146.8	1032	170.0	723	130.5	1032	170.0	747	117.4	1032	170.0	756	97.9	1032	170.0	756	83.9	1032	170.0	756	73.4	1032	170.0	756
	54 in	170.0	797	170.0	612	161.3	907	170.0	691	138.2	907	164.7	730	120.9	907	152.5	720	107.5	907	145.0	714	96.8	907	141.1	710	80.6	907	140.0	709	69.1	907	140.0	709	60.5	907	140.0	709
	60 in	141.1	735	151.5	625	117.6	735	130.3	611	100.8	735	116.0	599	88.2	735	106.2	590	78.4	735	99.5	583	70.5	735	95.1	578	58.8	735	91.8	574	50.4	735	91.8	574	44.1	735	91.8	574
	63 in	121.9	666	130.0	570	101.6	666	111.5	557	87.0	666	98.9	547	76.2	666	90.1	538	67.7	666	83.9	531	60.9	666	79.8	526	50.8	666	75.8	521	43.5	666	75.6	521	38.1	666	75.6	521
	66 in	106.0	607	112.4	522	88.3	607	96.1	511	75.7	607	85.0	501	66.2	607	77.1	493	58.9	607	71.5	486	53.0	607	67.6	481	44.2	607	63.4	476	37.9	607	62.7	474	33.1	607	62.7	474
	72 in	81.6	510	85.8	443	68.0	510	73.0	434	58.3	510	64.3	426	51.0	510	57.9	419	45.4	510	53.3	413	40.8	510	50.0	408	34.0	510	45.9	402	29.2	510	44.4	399	25.5	510	44.3	399
	76 in	69.4	458	72.5	400	57.8	458	61.7	392	49.6	458	54.1	385	43.4	458	48.6	378	38.6	458	44.6	373	34.7	458	41.6	368	28.9	458	37.7	362	24.8	458	36.0	359	21.7	458	35.7	358
	78 in	64.2	435	67.0	381	53.5	435	56.8	373	45.9	435	49.8	366	40.1	435	44.7	360	35.7	435	40.9	355	32.1	435	38.1	351	26.8	435	34.4	344	22.9	435	32.6	341	20.1	435	32.2	340
	90 in	41.8	327	43.1	290	34.8	327	36.4	285	29.9	327	31.8	280	26.1	327	28.3	275	23.2	327	25.7	271	20.8	327	23.7	268	17.4	327	21.0	262	14.9	327	19.3	258				
	96 in	34.4	287	35.4	257	28.7	287	29.9	252	24.6	287	26.0	248	21.5	287	23.1	244	19.1	287	20.9	240	17.2	287	19.3	237	14.4	287	16.9	232								
	108 in	24.2	227	24.7	205	20.2	227	20.8	201	17.3	227	18.0	198	15.1	227	16.0	195																				
	111 in	22.3	215	22.7	194	18.6	215	19.1	191	15.9	215	16.6	188																								
	120 in	17.6	184	17.9	167																																

TABLE 3B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	Substrate:	2.7k Concrete				3.5k Conc.	Hollow CMU						Filled CMU	PT Wood		Metal
	Anchor Type:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
	Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
	Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	(see note 4)
2 Anchors @ 4.75" Min. O.C. / Standard or Offset Clip (Fig. 1):		390 lbs	390 lbs	450 lbs	890 lbs	1644 lbs	270 lbs	280 lbs	354 lbs	740 lbs	468 lbs	664 lbs	1182 lbs	326 lbs	420 lbs	560 lbs
4 Anchors @ 1.15" Min. O.C. / Standard (or Offset) Clip (Fig. 2):		480 lbs	700 lbs	N/A	N/A	N/A	N/A	380 lbs	N/A	N/A	N/A	N/A	N/A	652 lbs	840 lbs	1120 lbs
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 3):		780 lbs	780 lbs	680 lbs	1560 lbs	1896 lbs	540 lbs	560 lbs	N/A	760 lbs	936 lbs	880 lbs	2364 lbs	652 lbs	840 lbs	1120 lbs
2 Anchors @ 0.45" Min. O.C. / U-Clip, Into 1/8" Alum. (Fig. 4):		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	716 lbs
1 Anchor / F-Clip (Fig. 5):		195 lbs	195 lbs	225 lbs	445 lbs	822 lbs	135 lbs	140 lbs	177 lbs	370 lbs	234 lbs	332 lbs	591 lbs	163 lbs	210 lbs	280 lbs
2 Anchors @ 1.15" Min. O.C./ F-Clip (Fig. 6):		240 lbs	350 lbs	N/A	N/A	N/A	N/A	190 lbs	N/A	N/A	N/A	N/A	N/A	326 lbs	420 lbs	560 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

CIRCLED VALUES ARE USED IN THE EXAMPLE ON SHEET 21.

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{REQ}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{\text{REQ}}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

FIGURE 1:

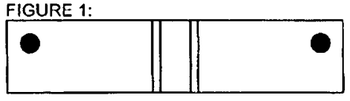


FIGURE 2:

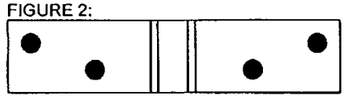
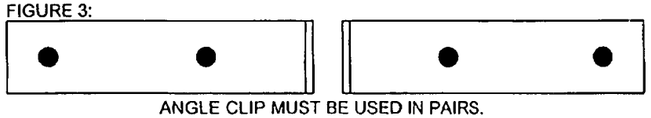


FIGURE 3:



ANGLE CLIP MUST BE USED IN PAIRS.

FIGURE 4:

FIGURE 5:

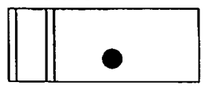
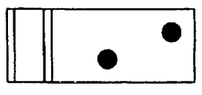


FIGURE 6:



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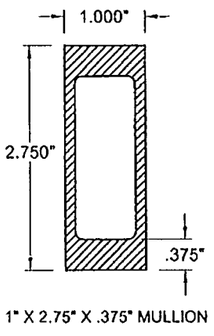

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Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: 1 X 2.75 X .375 MULL SPECS
Series: N/A
Drawing No. 6300JR
Sheet: 7 of 22
Scale: N/A
Checked By:
Date:
Rev: A
Drawn By: J ROSOWSKI
Date: 08/29/11
Rev By: J ROSOWSKI
Date: 07/15/13
Revision: REVISED CLIP FIGURES

TABLE 4A

Mullion Capacity Table (lbs/ft²)

Opening Width (for vertically-spanning mullions) **or Opening Height** (for horizontally-spanning mullions)

1 x 2.75 x .650 Alum. Tube Mullion		50 in				60 in				70 in				80 in				90 in				100 in				120 in				140 in				160 in			
		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
		Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
Mull Length	42 in	170.0	620	170.0	435	170.0	744	170.0	478	170.0	868	170.0	506	170.0	992	170.0	519	170.0	1116	170.0	521	170.0	1240	170.0	521	170.0	1488	170.0	521	158.7	1620	170.0	521	138.8	1620	170.0	521
	48 in	170.0	708	170.0	524	170.0	850	170.0	584	170.0	992	170.0	630	170.0	1133	170.0	661	170.0	1275	170.0	677	170.0	1417	170.0	680	141.7	1417	170.0	680	121.5	1417	170.0	680	106.3	1417	170.0	680
	50.625 in	170.0	747	170.0	563	170.0	896	170.0	631	170.0	1046	170.0	684	170.0	1195	170.0	723	162.6	1286	170.0	747	146.3	1286	170.0	756	121.9	1286	170.0	756	104.5	1286	170.0	756	91.4	1286	170.0	758
	54 in	170.0	797	170.0	612	170.0	956	170.0	691	170.0	1116	170.0	754	150.7	1130	170.0	803	133.9	1130	170.0	837	120.6	1130	170.0	856	100.5	1130	170.0	861	86.1	1130	170.0	861	75.3	1130	170.0	861
	60 in	170.0	885	170.0	701	148.5	915	162.3	761	125.5	915	144.5	746	109.9	915	132.3	735	97.6	915	123.9	726	87.9	915	118.5	720	73.2	915	114.4	715	62.8	915	114.4	715	54.9	915	114.4	715
	63 in	151.8	830	161.9	710	126.5	830	138.9	694	108.5	830	123.2	681	94.9	830	112.2	670	84.4	830	104.6	662	75.9	830	99.4	656	63.3	830	94.5	649	54.2	830	94.1	649	47.4	830	94.1	649
	66 in	132.1	757	140.0	650	110.0	757	119.8	636	94.3	757	105.9	624	82.5	757	98.1	614	73.4	757	89.1	606	66.0	757	84.2	600	55.0	757	79.0	593	47.2	757	78.2	591	41.3	757	78.2	591
	72 in	101.7	636	108.8	552	84.8	636	91.0	540	72.7	636	80.1	530	63.6	636	72.2	521	56.5	636	66.5	514	50.9	636	62.3	508	42.4	636	57.2	500	36.3	636	55.3	497	31.8	636	55.2	497
	76 in	86.5	571	90.4	498	72.1	571	76.8	488	61.8	571	67.4	479	54.1	571	60.6	471	48.0	571	55.5	464	43.2	571	51.8	459	36.0	571	47.0	451	30.9	571	44.8	447	27.0	571	44.5	446
	78 in	80.0	542	83.4	474	66.7	542	70.8	465	57.1	542	62.1	456	50.0	542	55.7	449	44.4	542	51.0	442	40.0	542	47.5	437	33.3	542	42.9	429	28.6	542	40.6	425	25.0	542	40.1	423
	90 in	52.1	407	53.7	361	43.4	407	45.4	355	37.2	407	39.6	349	32.5	407	35.3	343	28.9	407	32.1	338	26.0	407	29.6	334	21.7	407	28.1	327	18.6	407	24.1	322	16.3	407	23.0	319
	96 in	42.9	358	44.1	320	35.8	358	37.2	314	30.7	358	32.4	309	26.8	358	28.8	304	23.8	358	26.1	300	21.5	358	24.0	296	17.9	358	21.0	289	15.3	358	19.2	284				
	108 in	30.1	283	30.8	255	25.1	283	25.9	251	21.5	283	22.5	247	18.8	283	19.9	244	16.7	283	18.0	240	15.1	283	16.5	237												
	111 in	27.8	267	28.3	242	23.1	267	23.8	238	19.8	267	20.6	235	17.3	267	18.3	231	15.4	267	16.5	228																
	120 in	22.0	229	22.3	209	18.3	229	18.8	205	15.7	229	16.2	202																								

TABLE 4B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	Substrate:	2.7k Concrete				3.5k Conc.	Hollow CMU						Filled CMU	PT Wood		Metal
	Anchor Type:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
	Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
	Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	(see note 4)
2 Anchors @ 4.75" Min. O.C. / Standard or Offset Clip (Fig. 1):		390 lbs	390 lbs	450 lbs	890 lbs	1644 lbs	270 lbs	280 lbs	354 lbs	740 lbs	468 lbs	664 lbs	1182 lbs	326 lbs	420 lbs	560 lbs
4 Anchors @ 1.15" Min. O.C. / Standard (or Offset) Clip (Fig. 2):		480 lbs	700 lbs	N/A	N/A	N/A	N/A	380 lbs	N/A	N/A	N/A	N/A	N/A	652 lbs	840 lbs	1120 lbs
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 3):		780 lbs	780 lbs	680 lbs	1560 lbs	1896 lbs	540 lbs	560 lbs	N/A	760 lbs	936 lbs	880 lbs	2364 lbs	652 lbs	840 lbs	1120 lbs
2 Anchors @ 0.45" Min. O.C. / U-Clip, into 1/8" Alum. (Fig. 4):		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	716 lbs
1 Anchor / F-Clip (Fig. 5):		195 lbs	195 lbs	225 lbs	445 lbs	822 lbs	135 lbs	140 lbs	177 lbs	370 lbs	234 lbs	332 lbs	591 lbs	163 lbs	210 lbs	280 lbs
2 Anchors @ 1.15" Min. O.C./ F-Clip (Fig. 6):		240 lbs	350 lbs	N/A	N/A	N/A	N/A	190 lbs	N/A	N/A	N/A	N/A	N/A	326 lbs	420 lbs	560 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

CIRCLED VALUES ARE USED IN THE EXAMPLE ON SHEET 21.

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{REQ}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{REQ}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

FIGURE 1:

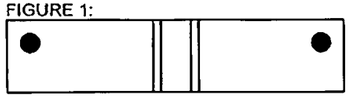


FIGURE 2:

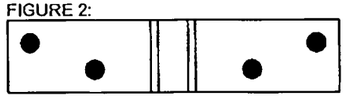
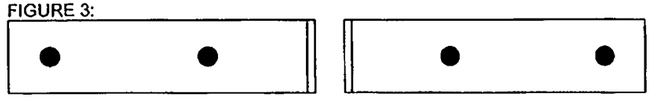


FIGURE 3:



ANGLE CLIP MUST BE USED IN PAIRS.

FIGURE 4:

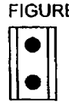


FIGURE 5:

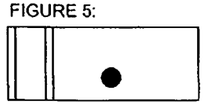


FIGURE 6:

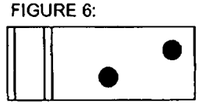


TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 22 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 18-20. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEETS 18-20. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.

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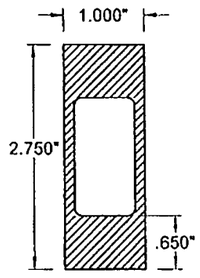


1" X 2.75" X .650" MULLION

PRODUCT REVISED
is complying with the Florida
Building Code
Acceptance No 13-0815.05
Expiration Date 05/26/2016
By
Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
10/15/13
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

PGT®
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
FL CERT. OF AUTH.# 29296

Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: 1 X 2.75 X .650 MULL SPECS
Series: N/A
Scale: N/A
Drawing No. 6300JR
Sheet: 8 of 22
Drawn By: J ROSOWSKI
Date: 08/29/11
Checked By:
Date:
Rev. By: J ROSOWSKI
Date: 07/15/13
Revision: REVISED CLIP FIGURES
Rev: A

TABLE 5A

Mullion Capacity Table (lbs/ft²)

1" x 3.125" x .500" Alum Tubo Mull	Opening Width (for vertically-spanning mullions) or Opening Height (for horizontally-spanning mullions)																													
	50 in				60 in				70 in				80 in				90 in				100 in				120 in				140 in				160 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mull Length	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	170.0	620	170.0	435	170.0	744	170.0	478	170.0	868	170.0	506	170.0	992	170.0	519	170.0	1116	170.0	521	170.0	1240	170.0	521	170.0	1488	170.0	521	170.0	1735	170.0	521	154.4	1802	170.0	521
48 in	170.0	708	170.0	524	170.0	850	170.0	584	170.0	992	170.0	630	170.0	1133	170.0	661	170.0	1275	170.0	677	170.0	1417	170.0	680	157.7	1577	170.0	680	135.1	1577	170.0	680	118.2	1577	170.0	680
50.625 in	170.0	747	170.0	563	170.0	896	170.0	631	170.0	1046	170.0	684	170.0	1195	170.0	723	170.0	1345	170.0	747	170.0	1494	170.0	756	141.7	1495	170.0	756	121.5	1495	170.0	756	106.3	1495	170.0	756
54 in	170.0	797	170.0	612	170.0	956	170.0	691	170.0	1116	170.0	754	170.0	1275	170.0	803	166.1	1401	170.0	837	149.5	1401	170.0	856	124.6	1401	170.0	861	106.8	1401	170.0	861	93.4	1401	170.0	861
60 in	170.0	885	170.0	701	170.0	1063	170.0	797	158.5	1156	170.0	878	138.7	1156	167.0	928	123.3	1156	156.5	917	111.0	1156	149.7	910	92.5	1156	144.5	903	79.3	1156	144.5	903	69.4	1156	144.5	903
63 in	170.0	930	170.0	745	159.8	1049	170.0	850	137.0	1049	155.5	860	119.8	1049	141.7	846	106.5	1049	132.0	838	95.9	1049	125.5	828	79.9	1049	119.3	820	68.5	1049	118.9	819	59.9	1049	118.9	819
66 in	166.8	955	170.0	789	139.0	955	151.3	804	119.1	955	133.7	788	104.2	955	121.4	775	92.6	955	112.6	765	83.4	955	106.4	757	69.5	955	99.8	749	59.6	955	98.7	746	52.1	955	98.7	746
72 in	128.5	803	134.9	697	107.0	803	114.9	682	91.8	803	101.1	670	80.3	803	91.2	659	71.4	803	83.9	649	64.2	803	78.6	642	53.5	803	72.2	632	45.9	803	69.8	628	40.1	803	69.7	627
76 in	109.2	721	114.1	629	91.0	721	97.0	618	78.0	721	85.1	605	68.3	721	76.5	595	60.7	721	70.1	586	54.6	721	65.4	579	45.5	721	59.4	569	39.0	721	58.6	564	34.1	721	58.1	563
78 in	101.0	684	105.4	599	84.2	684	89.4	587	72.2	684	78.4	576	63.1	684	70.4	567	56.1	684	64.4	558	50.5	684	59.9	551	42.1	684	54.1	541	36.1	684	51.3	536	31.6	684	50.6	534
90 in	65.8	514	67.9	456	54.8	514	57.3	448	47.0	514	50.0	440	41.1	514	44.6	433	36.5	514	40.5	427	32.9	514	37.3	421	27.4	514	33.0	412	23.5	514	30.4	406	20.6	514	29.0	403
96 in	54.2	452	55.7	404	45.2	452	47.0	396	38.7	452	40.9	390	33.9	452	36.4	384	30.1	452	32.9	378	27.1	452	30.3	373	22.6	452	26.6	365	19.4	452	24.2	359	16.9	452	22.8	355
108 in	38.1	357	38.9	322	31.7	357	32.7	317	27.2	357	28.4	312	23.8	357	25.2	308	21.1	357	22.7	303	19.0	357	20.8	299	15.9	357	18.0	293	13.6	357	16.2	287	11.9	357	15.0	283
111 in	35.1	338	35.8	306	29.2	338	30.1	301	25.0	338	26.1	296	21.9	338	23.1	292	19.5	338	20.8	288	17.5	338	19.0	284	14.6	338	16.5	278	12.5	338	14.8	273	11.0	338	13.6	269
120 in	27.7	289	28.2	263	23.1	289	23.7	259	19.8	289	20.5	256	17.3	289	18.1	252	15.4	289	16.3	249	13.9	289	14.9	246	11.6	289	12.8	240	9.9	289	11.4	236	8.7	289	10.4	232

TABLE 5B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	Substrate:	2.7k Concrete				3.5k Conc.	Hollow CMU						Filled CMU	PT Wood		Metal
	Anchor Type:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
	Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
	Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	(see note 4)
2 Anchors @ 4.75" Min. O.C. / Standard Clip (Fig. 1):		390 lbs	390 lbs	450 lbs	890 lbs	1644 lbs	270 lbs	280 lbs	354 lbs	740 lbs	468 lbs	664 lbs	1182 lbs	326 lbs	420 lbs	560 lbs
4 Anchors @ 1.15" Min. O.C. / Standard Clip (Fig. 2):		480 lbs	700 lbs	N/A	N/A	N/A	N/A	380 lbs	N/A	N/A	N/A	N/A	N/A	652 lbs	840 lbs	1120 lbs
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips (Fig. 3):		780 lbs	780 lbs	680 lbs	1560 lbs	1896 lbs	540 lbs	560 lbs	N/A	760 lbs	936 lbs	880 lbs	2364 lbs	652 lbs	840 lbs	1120 lbs
3 Anchors @ 0.45" Min. O.C. / U-Clip, Into 1/8" Alum. (Fig. 4):		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1074 lbs
1 Anchor / F-Clip (Fig. 5):		195 lbs	195 lbs	225 lbs	445 lbs	822 lbs	135 lbs	140 lbs	177 lbs	370 lbs	234 lbs	332 lbs	591 lbs	163 lbs	210 lbs	280 lbs
2 Anchors @ 1.15" Min. O.C. / F-Clip (Fig. 6):		240 lbs	350 lbs	N/A	N/A	N/A	N/A	190 lbs	N/A	N/A	N/A	N/A	N/A	326 lbs	420 lbs	560 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

FIGURE 1:

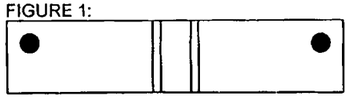


FIGURE 2:

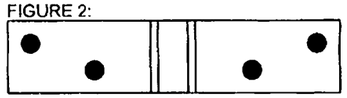
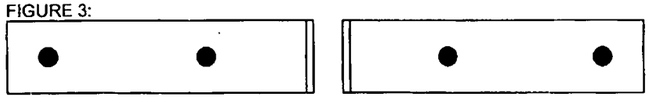
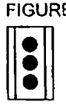


FIGURE 3:



ANGLE CLIP MUST BE USED IN PAIRS.

FIGURE 4:



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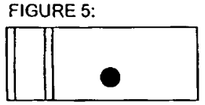
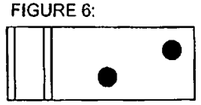


FIGURE 6:



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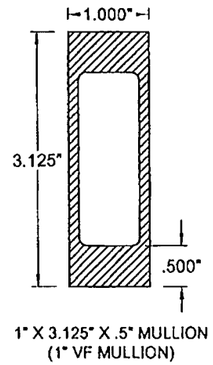
$$(DP_{REQ}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{REQ}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.



1" X 3.125" X .5" MULLION
(1" VF MULLION)

PRODUCT REVISED
is complying with the Florida
Building Code
Acceptance No 13-0815.05
Expiration Date 05/26/2016
By
Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
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Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
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Sheet: 9 of 22
Series: N/A
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Rev: A
Drawn By: J ROSOWSKI
Date: 08/29/11
Checked By:
Date:
Rev. By: J ROSOWSKI
Date: 07/15/13
Revision: REVISED CLIP FIGURES

TABLE 6A

Mullion Capacity Table (lbs/ft²)

1 x 4 x .125 Alum. Tube Mullion	Opening Width (for vertically-spanning mullions) or Opening Height (for horizontally-spanning mullions)																											
	50 in				60 in				70 in				80 in				90 in				100 in				120 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mull Length	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	170.0	620	170.0	435	170.0	744	170.0	478	170.0	868	170.0	506	170.0	992	170.0	519	170.0	1116	170.0	521	170.0	1240	170.0	521	170.0	1488	170.0	521	145.8	1489	170.0	521
48 in	170.0	708	170.0	524	170.0	850	170.0	584	170.0	992	170.0	630	170.0	1133	170.0	661	170.0	1275	170.0	677	156.3	1303	170.0	680	130.3	1303	170.0	680	111.7	1303	170.0	680
50.625 in	170.0	747	170.0	563	170.0	896	170.0	631	170.0	1046	170.0	684	170.0	1195	170.0	723	156.1	1235	170.0	747	140.5	1235	170.0	756	117.1	1235	170.0	756	100.4	1235	170.0	756
54 in	170.0	797	170.0	612	170.0	956	170.0	691	170.0	1116	170.0	754	154.4	1158	170.0	803	137.2	1158	170.0	837	123.5	1158	170.0	856	102.9	1158	170.0	861	88.2	1158	170.0	861
60 in	170.0	885	170.0	701	166.7	1042	170.0	797	142.9	1042	161.1	832	125.1	1042	148.7	815	111.2	1042	136.8	801	100.0	1042	130.2	791	83.4	1042	125.1	782	71.5	1042	125.1	782
63 in	170.0	930	170.0	745	151.2	992	163.6	818	129.6	992	144.4	799	113.4	992	131.0	782	100.8	992	121.4	768	90.7	992	114.8	758	75.6	992	108.4	745	64.8	992	108.0	744
66 in	165.4	947	170.0	789	137.8	947	148.0	786	118.1	947	130.3	768	103.4	947	117.7	752	91.9	947	108.7	738	82.7	947	102.2	727	68.9	947	95.1	713	59.1	947	94.0	711
72 in	135.9	849	142.7	737	113.2	849	121.6	722	97.0	849	106.9	708	84.9	849	96.4	696	75.5	849	88.7	686	67.9	849	82.7	675	56.6	849	75.3	659	48.5	849	72.5	652	42.5	849	72.4	651
76 in	115.5	762	120.7	665	96.3	762	102.6	652	82.5	762	90.0	640	72.2	762	80.9	629	64.2	762	74.2	620	57.8	762	69.2	613	48.1	762	62.8	602	41.3	762	59.9	597	36.1	762	59.4	595
78 in	106.9	724	111.4	634	89.0	724	94.6	621	76.3	724	82.9	609	66.8	724	74.4	599	59.4	724	68.1	591	53.4	724	63.4	583	44.5	724	57.3	573	38.2	724	54.3	567	33.4	724	53.5	565
90 in	69.6	543	71.8	483	58.0	543	60.7	474	49.7	543	52.9	466	43.5	543	47.1	458	38.6	543	42.8	452	34.8	543	39.5	446	29.0	543	34.9	436	24.8	543	32.1	430	21.7	543	30.7	426
96 in	57.3	478	58.9	427	47.8	478	49.7	419	40.9	478	43.2	412	35.8	478	38.5	406	31.8	478	34.8	400	28.7	478	32.0	395	23.9	478	28.1	386	20.5	478	25.6	380	17.9	478	24.2	376
108 in	40.3	377	41.1	341	33.5	377	34.6	335	28.8	377	30.0	330	25.2	377	26.6	325	22.4	377	24.0	321	20.1	377	22.0	317	16.8	377	19.0	310	14.4	377	17.1	304				
111 in	37.1	357	37.8	323	30.9	357	31.8	318	26.5	357	27.6	313	23.2	357	24.4	309	20.6	357	22.0	305	18.5	357	20.1	301	15.4	357	17.4	294								
120 in	29.3	306	29.8	279	24.5	306	25.1	274	21.0	306	21.7	270	18.3	306	19.2	267	16.3	306	17.3	263																
144 in	17.0	212	17.2	196																																

TABLE 6B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	Substrate:	2.7k Concrete				3.5k Conc.	Hollow CMU						Filled CMU	PT Wood		Metal
	Anchor Type:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
	Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
	Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	(see note 4)
2 Anchors @ 4.75" Min. O.C. / Standard Clip (Fig. 1 or 2):		390 lbs	390 lbs	450 lbs	890 lbs	1644 lbs	270 lbs	280 lbs	354 lbs	740 lbs	468 lbs	664 lbs	1182 lbs	326 lbs	420 lbs	560 lbs
4 Anchors @ 2.25" Min. O.C. / Standard Clip (Fig. 3):		700 lbs	700 lbs	580 lbs	1410 lbs	952 lbs	N/A	560 lbs	N/A	630 lbs	N/A	880 lbs	N/A	652 lbs	840 lbs	1120 lbs
8 Anchors @ 1.15" Min. O.C. / Standard Clip (Fig. 4):		960 lbs	1400 lbs	N/A	N/A	N/A	N/A	760 lbs	N/A	N/A	N/A	N/A	N/A	1304 lbs	1680 lbs	2240 lbs
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips (Fig. 5):		780 lbs	780 lbs	900 lbs	1780 lbs	3288 lbs	540 lbs	560 lbs	708 lbs	1480 lbs	936 lbs	1328 lbs	2364 lbs	652 lbs	840 lbs	1120 lbs
6 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips (Fig. 6):		1170 lbs	1170 lbs	1020 lbs	2340 lbs	2844 lbs	810 lbs	840 lbs	N/A	1140 lbs	1404 lbs	1320 lbs	3546 lbs	978 lbs	1260 lbs	1680 lbs
4 Anchors @ 0.45 Min. O.C. / U-Clip, Into 1/8" Alum. (Fig. 7):		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1432 lbs
2 Anchors @ 2.25" Min. O.C. / F-Clip (Fig. 8):		350 lbs	350 lbs	290 lbs	705 lbs	476 lbs	N/A	280 lbs	N/A	315 lbs	0 lbs	440 lbs	0 lbs	326 lbs	420 lbs	560 lbs
4 Anchors @ 1.15" Min. O.C. / F-Clip (Fig. 9):		480 lbs	700 lbs	N/A	N/A	N/A	N/A	380 lbs	N/A	N/A	N/A	N/A	N/A	652 lbs	840 lbs	1120 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

FIGURE 1: FIGURE 2: FIGURE 3: FIGURE 4: FIGURE 8: FIGURE 9:

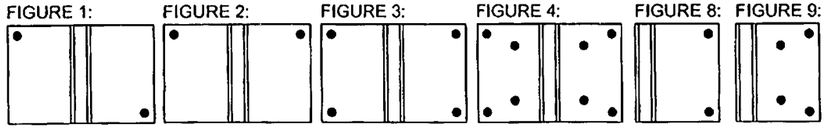
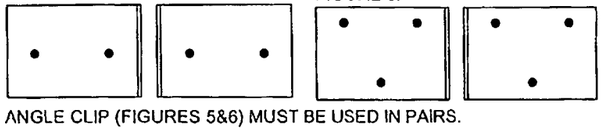


FIGURE 5: FIGURE 6: FIGURE 7:



ANGLE CLIP (FIGURES 5&6) MUST BE USED IN PAIRS.

TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 22 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

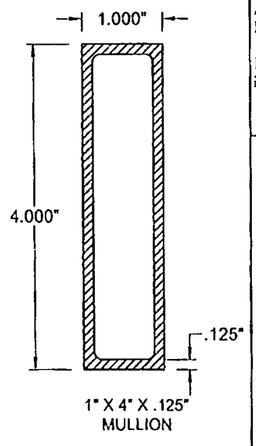
3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 18-20. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEETS 18-20. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.

4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL BE PRESSURE-TREATED YELLOW SOUTHERN PINE WITH AN SG OF 0.55. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .125" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL.

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{REQ}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{\text{REQ}}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 13-0815.05
Expiration Date 05/26/2016
By
Miami Dade Product Control

ANTHONY LYNN MILLER
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PROFESSIONAL ENGINEER
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Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: 1 X 4 X .125 MULL SPECS
Series: N/A
Scale: N/A
Drawing No. 6300JR
Sheet: 10 of 22
Rev. A
Drawn By: J ROSOWSKI
Date: 08/29/11
Checked By:
Date:
Rev. By: J ROSOWSKI
Date: 07/15/13
Revision: REVISED CLIP FIGURES

TABLE 7A

Mullion Capacity Table (lbs/ft²)

1 x 4 x .375 Alum. Tube & "T" Mullion	Opening Width (for vertically-spanning mullions) or Opening Height (for horizontally-spanning mullions)																													
	50 in				60 in				70 in				80 in				90 in				100 in				120 in				140 in				160 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mull Length	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	170.0	620	170.0	435	170.0	744	170.0	478	170.0	868	170.0	506	170.0	992	170.0	519	170.0	1116	170.0	521	170.0	1240	170.0	521	170.0	1488	170.0	521	170.0	1735	170.0	521	170.0	1983	170.0	521
48 in	170.0	708	170.0	524	170.0	850	170.0	584	170.0	992	170.0	630	170.0	1133	170.0	661	170.0	1275	170.0	677	170.0	1417	170.0	680	170.0	1700	170.0	680	170.0	1983	170.0	680	151.8	2024	170.0	680
50.625 in	170.0	747	170.0	563	170.0	896	170.0	631	170.0	1046	170.0	684	170.0	1195	170.0	723	170.0	1345	170.0	747	170.0	1494	170.0	756	170.0	1793	170.0	756	156.0	1919	170.0	756	136.5	1919	170.0	756
54 in	170.0	797	170.0	612	170.0	956	170.0	691	170.0	1116	170.0	754	170.0	1275	170.0	803	170.0	1434	170.0	837	170.0	1594	170.0	856	159.9	1799	170.0	861	137.1	1799	170.0	861	120.0	1799	170.0	861
60 in	170.0	885	170.0	701	170.0	1063	170.0	797	170.0	1240	170.0	878	170.0	1417	170.0	944	170.0	1594	170.0	996	155.5	1619	170.0	1033	129.6	1619	170.0	1063	111.0	1619	170.0	1063	97.2	1619	170.0	1063
63 in	170.0	930	170.0	745	170.0	1116	170.0	850	170.0	1302	170.0	940	170.0	1488	170.0	1015	156.7	1542	170.0	1076	141.0	1542	170.0	1122	117.5	1542	168.5	1158	100.7	1542	167.9	1157	88.1	1542	167.9	1157
66 in	170.0	974	170.0	789	170.0	1169	170.0	903	170.0	1364	170.0	1002	160.6	1472	170.0	1086	142.8	1472	168.8	1148	128.5	1472	158.8	1130	107.1	1472	147.8	1108	91.8	1472	146.0	1104	80.3	1472	146.0	1104
72 in	170.0	1063	170.0	878	170.0	1275	170.0	1009	150.8	1320	166.2	1101	132.0	1320	149.9	1082	117.3	1320	137.8	1066	105.6	1320	128.6	1049	88.0	1320	117.0	1024	75.4	1320	112.6	1013	66.0	1320	112.5	1012
76 in	170.0	1122	170.0	937	149.6	1184	159.4	1013	128.2	1184	139.9	994	112.2	1184	125.7	978	99.7	1184	115.3	964	89.8	1184	107.5	952	74.8	1184	97.6	935	64.1	1184	93.1	927	56.1	1184	92.3	925
78 in	166.1	1124	170.0	967	138.4	1124	147.0	965	118.6	1124	128.8	947	103.8	1124	115.6	931	92.3	1124	105.8	918	83.0	1124	98.5	906	69.2	1124	89.0	890	59.3	1124	84.3	881	51.9	1124	83.2	878
90 in	108.1	844	111.5	750	90.1	844	94.3	736	77.2	844	82.1	724	67.6	844	73.3	712	60.1	844	66.5	702	54.0	844	61.4	693	45.0	844	54.2	678	38.6	844	50.0	668	33.8	844	47.7	662
96 in	89.1	742	91.5	663	74.2	742	77.2	652	63.6	742	67.2	641	55.7	742	59.8	631	49.5	742	54.1	622	44.5	742	49.8	614	37.1	742	43.6	600	31.8	742	39.8	590	27.8	742	37.5	584
108 in	62.6	586	63.9	530	52.1	586	53.8	521	44.7	586	46.6	513	39.1	586	41.4	505	34.8	586	37.3	498	31.3	586	34.2	492	26.1	586	29.6	481	22.3	586	26.6	472	19.5	586	24.7	466
111 in	57.6	555	58.8	503	48.0	555	49.5	495	41.2	555	42.9	487	36.0	555	38.0	480	32.0	555	34.2	473	28.8	555	31.3	467	24.0	555	27.1	457	20.6	555	24.3	448	18.0	555	22.4	442
120 in	45.6	475	46.4	433	38.0	475	39.0	426	32.6	475	33.7	420	28.5	475	29.8	414	25.3	475	26.8	409	22.8	475	24.5	404	19.0	475	21.1	395	16.3	475	18.7	387	14.3	475	17.2	381
144 in	26.4	330	26.7	305	22.0	330	22.4	301	18.9	330	19.3	297	16.5	330	17.0	293																				

TABLE 7B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	Substrate:	2.7k Concrete				3.6k Conc.	Hollow CMU						Filled CMU	PT Wood		Metal
	Anchor Type:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
	Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
	Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	(see note 4)
2 Anchors @ 4.75" Min. O.C. / Standard Clip (Fig. 1 or 2):		390 lbs	390 lbs	450 lbs	890 lbs	1644 lbs	270 lbs	280 lbs	354 lbs	740 lbs	468 lbs	664 lbs	1182 lbs	326 lbs	420 lbs	560 lbs
4 Anchors @ 2.25" Min. O.C. / Standard Clip (Fig. 3):		700 lbs	700 lbs	580 lbs	1410 lbs	952 lbs	N/A	560 lbs	N/A	630 lbs	N/A	880 lbs	N/A	652 lbs	840 lbs	1120 lbs
8 Anchors @ 1.15" Min. O.C. / Standard Clip (Fig. 4):		960 lbs	1400 lbs	N/A	N/A	N/A	N/A	760 lbs	N/A	N/A	N/A	N/A	N/A	1304 lbs	1680 lbs	2240 lbs
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips (Fig. 5):		780 lbs	780 lbs	900 lbs	1780 lbs	3288 lbs	540 lbs	560 lbs	708 lbs	1480 lbs	936 lbs	1328 lbs	2364 lbs	652 lbs	840 lbs	1120 lbs
6 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips (Fig. 6):		1170 lbs	1170 lbs	1020 lbs	2340 lbs	2844 lbs	810 lbs	840 lbs	N/A	1140 lbs	1404 lbs	1320 lbs	3546 lbs	978 lbs	1260 lbs	1680 lbs
4 Anchors @ 0.45 Min. O.C. / U-Clip, into 1/8" Alum. (Fig. 7):		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1432 lbs
2 Anchors @ 2.25" Min. O.C. / F-Clip (Fig. 8):		350 lbs	350 lbs	290 lbs	705 lbs	476 lbs	N/A	280 lbs	N/A	315 lbs	0 lbs	440 lbs	0 lbs	326 lbs	420 lbs	560 lbs
4 Anchors @ 1.15" Min. O.C. / F-Clip (Fig. 9):		480 lbs	700 lbs	N/A	N/A	N/A	N/A	380 lbs	N/A	N/A	N/A	N/A	N/A	652 lbs	840 lbs	1120 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

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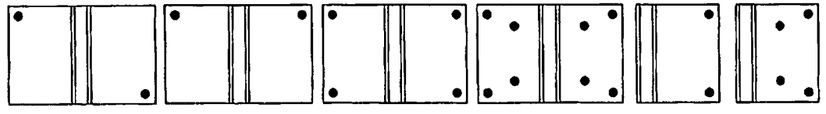
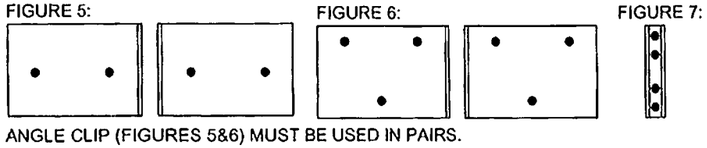


FIGURE 5: FIGURE 6: FIGURE 7:



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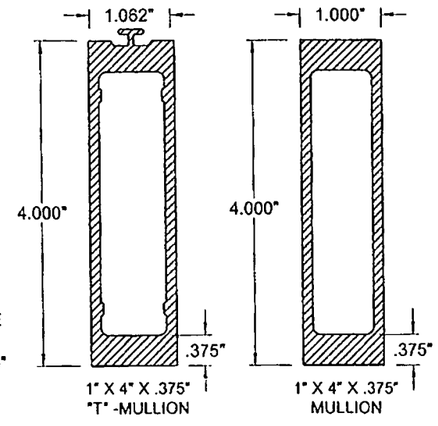
4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL BE PRESSURE-TREATED YELLOW SOUTHERN PINE WITH AN SG OF 0.55. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .125" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL.

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{REQ}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{\text{REQ}}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 13-0815.05
Expiration Date 05/26/2016
By
Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
10/15/13
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

PGT®
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
FL CERT. OF AUTH.# 29296

Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: 1 X 4 X .375 MULL SPECS
Series: N/A
Scale: N/A
Drawing No. 6300JR
Sheet: 11 of 22
Rev: A
Drawn By: J ROSOWSKI
Date: 08/29/11
Checked By:
Date:
Rev. By: J ROSOWSKI
Date: 07/15/13
Revision: REVISED CLIP FIGURES

TABLE 8A

Mullion Capacity Table (lbs/ft²)

1.25" x 3.188" x .265" Alum Tube Mull	Opening Width (for vertically-spanning mullions) or Opening Height (for horizontally-spanning mullions)																													
	50 in				60 in				70 in				80 in				90 in				100 in				120 in				140 in				160 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mull Length	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	170.0	620	170.0	435	170.0	744	170.0	478	170.0	868	170.0	506	170.0	992	170.0	519	170.0	1116	170.0	521	170.0	1240	170.0	521	170.0	1488	170.0	521	170.0	1735	170.0	521	151.6	1769	170.0	521
48 in	170.0	708	170.0	524	170.0	850	170.0	584	170.0	992	170.0	630	170.0	1133	170.0	681	170.0	1275	170.0	677	170.0	1417	170.0	680	154.8	1548	170.0	680	132.7	1548	170.0	680	116.1	1548	170.0	680
50.625 in	170.0	747	170.0	563	170.0	896	170.0	631	170.0	1046	170.0	684	170.0	1195	170.0	723	170.0	1345	170.0	747	167.0	1468	170.0	756	139.2	1468	170.0	756	119.3	1468	170.0	756	104.4	1468	170.0	756
54 in	170.0	797	170.0	612	170.0	956	170.0	691	170.0	1116	170.0	754	170.0	1275	170.0	803	163.1	1376	170.0	837	146.8	1376	170.0	856	122.3	1376	170.0	861	104.8	1376	170.0	861	91.7	1376	170.0	861
60 in	170.0	885	170.0	701	170.0	1063	170.0	797	158.9	1158	170.0	878	139.0	1158	167.4	930	123.6	1158	156.8	919	111.2	1158	150.0	912	92.7	1158	144.8	905	79.4	1158	144.8	905	69.5	1158	144.8	905
63 in	170.0	930	170.0	745	160.1	1051	170.0	850	137.2	1051	155.9	862	120.1	1051	142.0	848	106.7	1051	132.3	837	96.1	1051	125.7	830	80.1	1051	119.5	822	68.6	1051	119.1	821	60.0	1051	119.1	821
66 in	167.1	957	170.0	789	139.3	957	151.6	805	119.4	957	134.0	790	104.4	957	121.6	777	92.8	957	112.8	767	83.6	957	106.6	759	69.6	957	100.0	750	59.7	957	98.9	748	52.2	957	98.9	748
72 in	128.7	804	135.2	698	107.3	804	115.2	684	91.9	804	101.3	671	80.4	804	91.4	660	71.5	804	84.1	650	64.4	804	78.8	643	53.6	804	72.3	633	46.0	804	69.9	629	40.2	804	69.8	628
76 in	109.4	722	114.4	630	91.2	722	97.2	618	78.2	722	85.3	606	68.4	722	76.7	596	60.8	722	70.3	588	54.7	722	65.5	580	45.6	722	59.5	570	39.1	722	56.7	565	34.2	722	56.2	564
78 in	101.2	685	105.6	600	84.4	685	89.6	588	72.3	685	78.5	577	63.3	685	70.5	568	56.2	685	64.5	560	50.6	685	60.1	553	42.2	685	54.3	543	36.2	685	51.4	537	31.6	685	50.7	536
90 in	65.9	515	68.0	457	54.9	515	57.5	449	47.1	515	50.1	441	41.2	515	44.7	434	36.6	515	40.6	428	33.0	515	37.4	422	27.5	515	33.1	413	23.5	515	30.5	407	20.6	515	29.1	404
96 in	54.3	453	55.8	404	45.3	453	47.1	397	38.8	453	41.0	391	33.9	453	36.4	385	30.2	453	33.0	379	27.2	453	30.4	374	22.6	453	26.6	366	19.4	453	24.3	360	17.0	453	22.9	356
108 in	38.1	358	39.0	323	31.8	358	32.8	318	27.2	358	28.4	313	23.8	358	25.2	308	21.2	358	22.7	304	19.1	358	20.8	300	15.9	358	18.0	293								
111 in	35.1	338	35.8	306	29.3	338	30.1	301	25.1	338	26.1	297	22.0	338	23.2	293	19.5	338	20.9	289	17.6	338	19.1	285												
120 in	27.8	290	28.3	264	23.2	290	23.8	260	19.9	290	20.6	256	17.4	290	18.2	253	15.4	290	16.4	249																
144 in	16.1	201	16.3	186																																

TABLE 8B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	Substrate:	2.7k Concrete				3.5k Conc.	Hollow CMU						Filled CMU	PT Wood		Metal
	Anchor Type:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
	Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
	Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	(see note 4)
2 Anchors @ 4.75" Min. O.C. / Standard Clip (Fig. 1):		390 lbs	390 lbs	450 lbs	890 lbs	1644 lbs	270 lbs	280 lbs	354 lbs	740 lbs	468 lbs	664 lbs	1182 lbs	326 lbs	420 lbs	560 lbs
4 Anchors @ 1.15" Min. O.C. / Standard Clip (Fig. 2):		480 lbs	700 lbs	N/A	N/A	N/A	N/A	380 lbs	N/A	N/A	N/A	N/A	N/A	652 lbs	840 lbs	1120 lbs
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips (Fig. 3):		780 lbs	780 lbs	680 lbs	1560 lbs	1896 lbs	540 lbs	560 lbs	N/A	760 lbs	936 lbs	880 lbs	2364 lbs	652 lbs	840 lbs	1120 lbs
4 Anchors @ 0.45" Min. O.C. / U-Clip, into 1/8" Alum. (Fig. 4):		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1432 lbs
1 Anchor / F-Clip (Fig. 5):		195 lbs	195 lbs	225 lbs	445 lbs	822 lbs	135 lbs	140 lbs	177 lbs	370 lbs	234 lbs	332 lbs	591 lbs	163 lbs	210 lbs	280 lbs
2 Anchors @ 1.15" Min. O.C. / F-Clip (Fig. 6):		240 lbs	350 lbs	N/A	N/A	N/A	N/A	190 lbs	N/A	N/A	N/A	N/A	N/A	326 lbs	420 lbs	560 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

FIGURE 1:

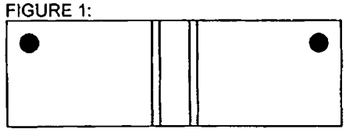


FIGURE 2:

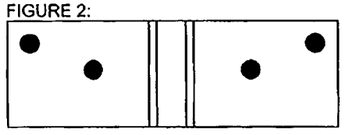
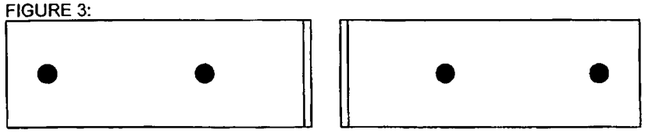


FIGURE 3:



ANGLE CLIP MUST BE USED IN PAIRS.

FIGURE 4:

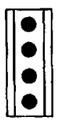


FIGURE 5:

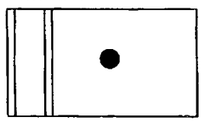


FIGURE 6:

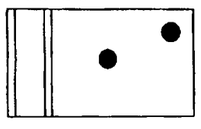


TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 22 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 18-20. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEETS 18-20. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.

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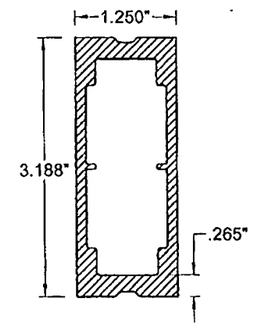
$$(DP_{REQ}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{REQ}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.



1.25" X 3.188" X .265" MULLION
(1-1/4" VF MULLION)

PRODUCT REVISED
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Expiration Date 05/26/2016
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ANTHONY LYNN MILLER
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Series: N/A
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Date: 08/29/11
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Date:
Drawn By: J ROSOWSKI
Rev. By: J ROSOWSKI
Date: 07/15/13
Revision: REVISED CLIP FIGURES

TABLE 9A

Mullion Capacity Table (lbs/ft²)

2 x 4 x .25 Alum. Tube Mullion	Opening Width (for vertically-spanning mullions) or Opening Height (for horizontally-spanning mullions)																													
	50 in				60 in				70 in				80 in				90 in				100 in				120 in				140 in			
	Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
Mull Length	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
42 in	170.0	620	170.0	435	170.0	744	170.0	478	170.0	868	170.0	506	170.0	992	170.0	519	170.0	1116	170.0	521	170.0	1240	170.0	521	170.0	1488	170.0	521	170.0	1735	170.0	521	170.0	1983	170.0	521
48 in	170.0	708	170.0	524	170.0	850	170.0	584	170.0	992	170.0	630	170.0	1133	170.0	661	170.0	1275	170.0	677	170.0	1417	170.0	680	170.0	1700	170.0	680	170.0	1983	170.0	680	170.0	2267	170.0	680
50.625 in	170.0	747	170.0	563	170.0	896	170.0	631	170.0	1046	170.0	684	170.0	1195	170.0	723	170.0	1345	170.0	747	170.0	1494	170.0	756	170.0	1793	170.0	756	170.0	2092	170.0	756	170.0	2391	170.0	756
54 in	170.0	797	170.0	612	170.0	956	170.0	691	170.0	1116	170.0	754	170.0	1275	170.0	803	170.0	1434	170.0	837	170.0	1594	170.0	856	170.0	1913	170.0	861	170.0	2231	170.0	861	170.0	2550	170.0	861
60 in	170.0	885	170.0	701	170.0	1063	170.0	797	170.0	1240	170.0	878	170.0	1417	170.0	944	170.0	1594	170.0	996	170.0	1771	170.0	1033	170.0	2125	170.0	1063	170.0	2479	170.0	1063	160.8	2680	170.0	1063
63 in	170.0	930	170.0	745	170.0	1116	170.0	850	170.0	1302	170.0	940	170.0	1488	170.0	1015	170.0	1673	170.0	1076	170.0	1859	170.0	1122	170.0	2231	170.0	1169	166.7	2553	170.0	1171	145.9	2553	170.0	1171
66 in	170.0	974	170.0	789	170.0	1169	170.0	903	170.0	1364	170.0	1002	170.0	1558	170.0	1086	170.0	1753	170.0	1155	170.0	1948	170.0	1210	170.0	2338	170.0	1275	151.9	2437	170.0	1286	132.9	2437	170.0	1286
72 in	170.0	1063	170.0	878	170.0	1275	170.0	1009	170.0	1488	170.0	1126	170.0	1700	170.0	1228	170.0	1913	170.0	1315	170.0	2125	170.0	1387	145.6	2184	170.0	1488	124.8	2184	170.0	1529	109.2	2184	170.0	1530
76 in	170.0	1122	170.0	937	170.0	1346	170.0	1080	170.0	1570	170.0	1209	170.0	1794	170.0	1322	165.1	1960	170.0	1421	148.6	1960	170.0	1505	123.8	1960	161.6	1548	106.1	1960	154.0	1535	92.9	1960	152.7	1531
78 in	170.0	1151	170.0	967	170.0	1381	170.0	1116	170.0	1611	170.0	1250	170.0	1842	170.0	1369	152.7	1861	170.0	1474	137.4	1861	163.1	1500	114.5	1861	147.3	1473	98.2	1861	139.6	1459	85.9	1861	137.6	1454
90 in	170.0	1328	170.0	1144	149.1	1398	156.0	1219	127.8	1398	136.0	1198	111.8	1398	121.3	1179	99.4	1398	110.2	1162	89.5	1398	101.6	1147	74.5	1398	89.8	1122	63.9	1398	82.7	1105	55.9	1398	78.9	1096
96 in	147.4	1229	151.5	1098	122.9	1229	127.8	1079	105.3	1229	111.2	1061	92.1	1229	98.9	1044	81.9	1229	89.6	1029	73.7	1229	82.4	1016	61.4	1229	72.2	993	52.7	1229	65.9	977	46.1	1229	62.1	967
108 in	103.5	971	105.8	877	86.3	971	89.0	862	74.0	971	77.2	849	64.7	971	68.4	837	57.5	971	61.8	825	51.8	971	56.5	815	43.1	971	49.0	796	37.0	971	44.0	782	32.4	971	40.8	771
111 in	95.4	919	97.3	832	79.5	919	81.9	819	68.1	919	70.9	806	59.6	919	62.9	794	53.0	919	56.7	784	47.7	919	51.8	774	39.7	919	44.8	756	34.1	919	40.2	742	29.8	919	37.1	732
120 in	75.5	786	76.8	716	62.9	786	64.5	705	53.9	786	55.8	695	47.2	786	49.4	688	41.9	786	44.4	677	37.7	786	40.5	668	31.5	786	34.9	653	27.0	786	31.0	641	23.6	786	28.4	631
144 in	43.7	546	44.2	504	36.4	546	37.0	498	31.2	546	31.9	491	27.3	546	28.2	485	24.3	546	25.3	479	21.8	546	22.9	474	18.2	546	19.5	464	15.6	546	17.2	455	13.7	546	15.5	448

TABLE 9B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	Substrate:	2.7k Concrete				3.5k Conc.	Hollow CMU						Filled CMU	PT Wood		Metal
	Anchor Type:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
	Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
	Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	(see note 4)
2 Anchors @ 4.75" Min. O.C. / Standard Clip (Fig. 1 or 2):		390 lbs	390 lbs	450 lbs	890 lbs	1644 lbs	270 lbs	280 lbs	354 lbs	740 lbs	468 lbs	664 lbs	1182 lbs	326 lbs	420 lbs	560 lbs
4 Anchors @ 2.68" Min. O.C. / Standard Clip (Fig. 3):		740 lbs	740 lbs	630 lbs	1485 lbs	1424 lbs	N/A	560 lbs	N/A	695 lbs	N/A	880 lbs	N/A	652 lbs	840 lbs	1120 lbs
6 Anchors @ 1.71" Min. O.C. / Standard Clip (Fig. 4):		885 lbs	1050 lbs	758 lbs	1946 lbs	N/A	N/A	705 lbs	N/A	799 lbs	N/A	N/A	N/A	978 lbs	1260 lbs	1680 lbs
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips (Fig. 5):		780 lbs	780 lbs	680 lbs	1560 lbs	1896 lbs	540 lbs	560 lbs	N/A	760 lbs	936 lbs	880 lbs	2364 lbs	652 lbs	840 lbs	1120 lbs
6 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips (Fig. 6):		1170 lbs	1170 lbs	1020 lbs	2340 lbs	2844 lbs	810 lbs	840 lbs	N/A	1140 lbs	1404 lbs	1320 lbs	3546 lbs	978 lbs	1260 lbs	1680 lbs
3 Anchors @ 1.34" Min. O.C. / U-Clip, into 1/8" Alum. (Fig. 7):		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1074 lbs
6 Anchors @ 0.64" Min. O.C. / U-Clip, into 1/8" Alum. (Fig. 8):		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2148 lbs
2 Anchors @ 2.68" Min. O.C. / F-Clip (Fig. 9):		370 lbs	370 lbs	315 lbs	743 lbs	712 lbs	N/A	280 lbs	N/A	348 lbs	N/A	440 lbs	N/A	326 lbs	420 lbs	560 lbs
3 Anchors @ 1.71" Min. O.C. / F-Clip (Fig. 10):		390 lbs	390 lbs	340 lbs	780 lbs	948 lbs	270 lbs	280 lbs	N/A	380 lbs	468 lbs	440 lbs	1182 lbs	326 lbs	420 lbs	560 lbs

CIRCLED VALUES ARE USED IN THE EXAMPLE ON SHEET 21.

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{REQ}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{\text{REQ}}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

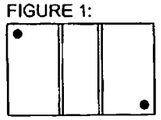
FIGURE 1: 

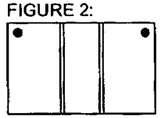
FIGURE 2: 

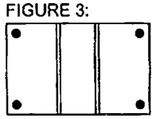
FIGURE 3: 

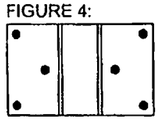
FIGURE 4: 

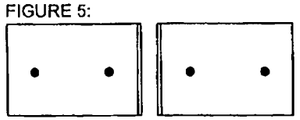
FIGURE 5: 

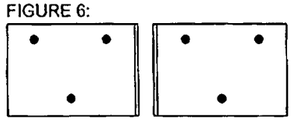
FIGURE 6: 

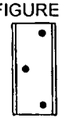
FIGURE 7: 

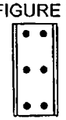
FIGURE 8: 

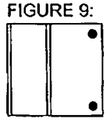
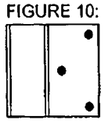
FIGURE 9: 

FIGURE 10: 

ANGLE CLIP (FIGURES 5&6) MUST BE USED IN PAIRS.

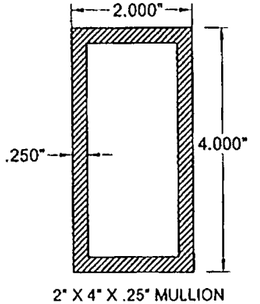
TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 22 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 18-20. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEETS 18-20. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.

4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL BE PRESSURE-TREATED YELLOW SOUTHERN PINE WITH AN SG OF 0.55. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .125" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL.



2" X 4" X .25" MULLION

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 13-0815.05
Expiration Date 05/26/2016
By
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
10/15/13
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
FL P.E.# 58705

PGT®
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
FL CERT. OF AUTH.# 29296

Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: 2 X 4 X .25 MULL SPECS
Series: N/A
Drawn By: J ROSOWSKI
Rev. By: J ROSOWSKI
Scale: N/A
Date: 08/29/11
Date: 07/15/13
Drawing No. 6300JR
Checked By:
Revision: REVISED CLIP FIGURES
Sheet: 13 of 22
Rev: A

TABLE 10A

Mullion Capacity Table (lbs/ft²)

2 x 6 x .25 Alum. Tube Mullion		Opening Width (for vertically-spanning mullions) or Opening Height (for horizontally-spanning mullions)																													
		50 in				60 in				70 in				80 in				90 in				100 in				120 in				140 in			
		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
		Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
Mull Length	42 in	170.0	620	170.0	435	170.0	744	170.0	478	170.0	868	170.0	508	170.0	992	170.0	519	170.0	1116	170.0	521	170.0	1240	170.0	521	170.0	1488	170.0	521	170.0	1735	170.0	521	170.0	1983	170.0	521
	48 in	170.0	708	170.0	524	170.0	850	170.0	584	170.0	992	170.0	630	170.0	1133	170.0	661	170.0	1275	170.0	677	170.0	1417	170.0	680	170.0	1700	170.0	680	170.0	1983	170.0	680	170.0	2267	170.0	680
	50.625 in	170.0	747	170.0	563	170.0	896	170.0	631	170.0	1046	170.0	684	170.0	1195	170.0	723	170.0	1345	170.0	747	170.0	1494	170.0	756	170.0	1793	170.0	756	170.0	2092	170.0	756	170.0	2391	170.0	756
	54 in	170.0	797	170.0	612	170.0	956	170.0	691	170.0	1116	170.0	754	170.0	1275	170.0	803	170.0	1434	170.0	837	170.0	1594	170.0	856	170.0	1913	170.0	861	170.0	2231	170.0	861	170.0	2550	170.0	861
	60 in	170.0	885	170.0	701	170.0	1063	170.0	797	170.0	1240	170.0	878	170.0	1417	170.0	944	170.0	1594	170.0	998	170.0	1771	170.0	1033	170.0	2125	170.0	1063	170.0	2479	170.0	1063	170.0	2833	170.0	1063
	63 in	170.0	930	170.0	745	170.0	1116	170.0	850	170.0	1302	170.0	940	170.0	1488	170.0	1015	170.0	1673	170.0	1076	170.0	1859	170.0	1122	170.0	2231	170.0	1169	170.0	2603	170.0	1171	170.0	2975	170.0	1171
	66 in	170.0	974	170.0	789	170.0	1169	170.0	903	170.0	1364	170.0	1002	170.0	1558	170.0	1086	170.0	1753	170.0	1155	170.0	1948	170.0	1210	170.0	2338	170.0	1275	170.0	2727	170.0	1286	170.0	3117	170.0	1286
	72 in	170.0	1063	170.0	878	170.0	1275	170.0	1009	170.0	1488	170.0	1126	170.0	1700	170.0	1228	170.0	1913	170.0	1315	170.0	2125	170.0	1387	170.0	2550	170.0	1488	170.0	2975	170.0	1529	170.0	3400	170.0	1530
	76 in	170.0	1122	170.0	937	170.0	1346	170.0	1080	170.0	1570	170.0	1209	170.0	1794	170.0	1322	170.0	2019	170.0	1421	170.0	2243	170.0	1505	170.0	2692	170.0	1629	170.0	3140	170.0	1694	170.0	3589	170.0	1705
	78 in	170.0	1151	170.0	967	170.0	1381	170.0	1116	170.0	1611	170.0	1250	170.0	1842	170.0	1369	170.0	2072	170.0	1474	170.0	2302	170.0	1564	170.0	2763	170.0	1700	170.0	3223	170.0	1777	170.0	3683	170.0	1796
	90 in	170.0	1328	170.0	1144	170.0	1594	170.0	1328	170.0	1859	170.0	1498	170.0	2125	170.0	1653	170.0	2391	170.0	1793	170.0	2656	170.0	1918	170.0	3188	170.0	2125	156.0	3413	170.0	2273	136.5	3413	170.0	2361
	96 in	170.0	1417	170.0	1232	170.0	1700	170.0	1434	170.0	1983	170.0	1622	170.0	2267	170.0	1794	170.0	2550	170.0	1952	170.0	2833	170.0	2095	160.0	3199	170.0	2338	137.1	3199	166.6	2470	120.0	3199	156.1	2428
	108 in	170.0	1594	170.0	1409	170.0	1913	170.0	1647	170.0	2231	170.0	1870	170.0	2550	170.0	2078	164.8	2781	170.0	2271	148.3	2781	161.9	2333	123.6	2781	140.4	2281	105.9	2781	125.9	2234	92.7	2781	116.0	2190
	111 in	170.0	1638	170.0	1454	170.0	1966	170.0	1700	170.0	2293	170.0	1932	170.0	2621	170.0	2149	151.8	2632	162.3	2245	136.6	2632	148.4	2218	113.8	2632	128.4	2166	97.6	2632	115.1	2126	85.4	2632	106.3	2096
	120 in	170.0	1771	170.0	1586	170.0	2125	170.0	1859	154.4	2252	159.9	1991	135.1	2252	141.4	1964	120.1	2252	127.2	1938	108.1	2252	116.1	1915	90.1	2252	99.8	1872	77.2	2252	88.9	1836	67.6	2252	81.4	1808
	144 in	125.1	1564	126.6	1445	104.3	1564	106.1	1425	89.4	1564	91.5	1407	78.2	1564	80.7	1390	69.5	1564	72.3	1373	62.6	1564	65.7	1358	52.1	1564	56.0	1330	44.7	1564	49.2	1305	39.1	1564	44.4	1283

TABLE 10B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	Substrate:	2.7k Concrete				3.5k Conc.	Hollow CMU						Filled CMU	PT Wood		Metal
	Anchor Type:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
	Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
	Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	(see note 4)
2 Anchors @ 4.75" Min. O.C. / Standard Clip (Fig. 1 or 2):		390 lbs	390 lbs	450 lbs	890 lbs	1644 lbs	270 lbs	280 lbs	354 lbs	740 lbs	468 lbs	664 lbs	1182 lbs	326 lbs	420 lbs	560 lbs
4 Anchors @ 4.68" Min. O.C. / Standard Clip (Fig. 3):		780 lbs	780 lbs	900 lbs	1780 lbs	3064 lbs	540 lbs	560 lbs	708 lbs	1480 lbs	936 lbs	1104 lbs	2364 lbs	652 lbs	840 lbs	1120 lbs
8 Anchors @ 1.71" Min. O.C. / Standard Clip (Fig. 4):		1180 lbs	1400 lbs	1010 lbs	2595 lbs	N/A	N/A	940 lbs	N/A	1065 lbs	N/A	N/A	N/A	1304 lbs	1680 lbs	2240 lbs
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips (Fig. 5):		780 lbs	780 lbs	680 lbs	1560 lbs	1896 lbs	540 lbs	560 lbs	N/A	760 lbs	936 lbs	880 lbs	2364 lbs	652 lbs	840 lbs	1120 lbs
8 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips (Fig. 6):		1560 lbs	1560 lbs	1360 lbs	3120 lbs	3792 lbs	1080 lbs	1120 lbs	N/A	1520 lbs	1872 lbs	1760 lbs	4728 lbs	1304 lbs	1680 lbs	2240 lbs
12 Anchors @ 1.5" Min. O.C. / (2) 2x5 Angle Clips (Fig. 7):		1660 lbs	2100 lbs	1440 lbs	3780 lbs	N/A	N/A	1320 lbs	N/A	1500 lbs	N/A	N/A	N/A	1956 lbs	2520 lbs	3360 lbs
4 Anchors @ 1.34" Min. O.C. / U-Clip, into 1/8" Alum. (Fig. 8):		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1432 lbs
8 Anchors @ 0.64" Min. O.C. / U-Clip, into 1/8" Alum. (Fig. 9):		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2864 lbs
2 Anchors @ 4.68" Min. O.C. / F-Clip (Fig. 10):		390 lbs	390 lbs	450 lbs	890 lbs	1532 lbs	270 lbs	280 lbs	354 lbs	740 lbs	468 lbs	552 lbs	1182 lbs	326 lbs	420 lbs	560 lbs
4 Anchors @ 1.71" Min. O.C. / F-Clip (Fig. 11):		590 lbs	700 lbs	505 lbs	1288 lbs	N/A	N/A	470 lbs	N/A	533 lbs	N/A	N/A	N/A	652 lbs	840 lbs	1120 lbs

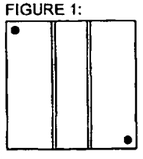
FIGURE 1: 

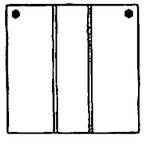
FIGURE 2: 

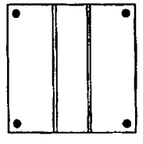
FIGURE 3: 

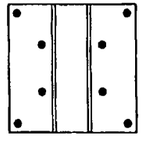
FIGURE 4: 

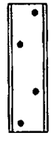
FIGURE 8: 

FIGURE 9: 

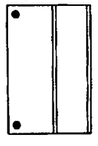
FIGURE 10: 

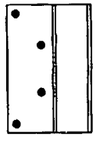
FIGURE 11: 

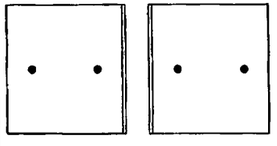
FIGURE 5: 

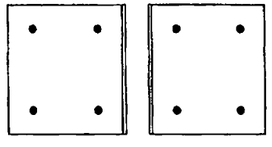
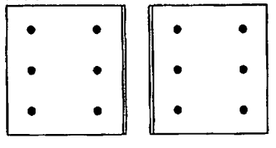
FIGURE 6: 

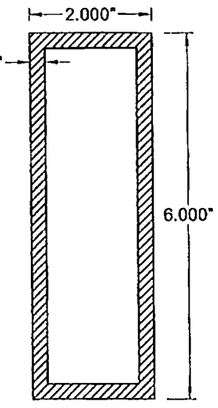
FIGURE 7: 

ANGLE CLIP (FIGURES 5 - 7) MUST BE USED IN PAIRS.

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{PSO}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{\text{REQ}}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.



2" X 6" X .25" MULLION

TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 22 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 18-20. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEETS 18-20. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.

4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL BE PRESSURE-TREATED YELLOW SOUTHERN PINE WITH AN SG OF 0.55. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .125" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL.

PGT®
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
FL CERT. OF AUTH.# 29296

Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: 2 X 6 X .25 MULL SPECS
Series: N/A | Scale: N/A | Drawing No. 6300JR | Sheet: 14 of 22
Drawn By: J ROSOWSKI | Date: 08/29/11 | Checked By: | Date: | Rev: A
Rev. By: J ROSOWSKI | Date: 07/15/13 | Revision: REVISED CLIP FIGURES

~~PRODUCT REVISED~~
as complying with the Florida Building Code
Acceptance No 13-0815.05
Expiration Date 5/26/2016
By
Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
10/15/13
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
FL P.E.# 58705

TABLE 11A

Mullion Capacity Table (lbs/ft²)

Opening Width (for vertically-spanning mullions) **or Opening Height** (for horizontally-spanning mullions)

1.26" x 2.11" x .125" Alum Tube Mull		50 in				60 in				70 in				80 in				90 in				100 in				120 in				140 in				160 in			
		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
		Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
Mull Length	42 in	144.2	526	167.0	428	120.2	526	148.9	419	103.0	526	138.9	414	90.1	526	134.6	411	80.1	526	134.1	411	72.1	526	134.1	411	60.1	526	134.1	411	51.5	526	134.1	411	45.1	526	134.1	411
	48 in	96.6	403	108.0	333	80.5	403	94.7	325	69.0	403	86.4	320	60.4	403	81.4	317	53.7	403	79.1	315	48.3	403	78.6	314	40.3	403	78.6	314	34.5	403	78.6	314	30.2	403	78.6	314
	50.625 in	82.3	362	91.0	301	68.6	362	79.3	294	58.8	362	71.9	289	51.5	362	67.2	286	45.7	362	64.6	284	41.2	362	63.6	283	34.3	362	63.5	283	29.4	362	63.5	283	25.7	362	63.5	283
	54 in	67.8	318	74.1	267	56.5	318	64.2	261	48.5	318	57.7	256	42.4	318	53.5	253	37.7	318	50.8	250	33.9	318	49.5	249	28.3	318	49.1	248	24.2	318	49.1	248	21.2	318	49.1	248
	60 in	49.5	258	53.1	219	41.2	258	45.7	214	35.3	258	40.7	210	30.9	258	37.2	207	27.5	258	34.9	204	24.7	258	33.4	203	20.6	258	32.2	201	17.7	258	32.2	201	15.5	258	32.2	201
	63 in	42.7	234	45.6	200	35.6	234	39.1	195	30.5	234	34.7	192	26.7	234	31.6	189	23.7	234	29.4	186	21.4	234	28.0	184	17.8	234	26.6	183	15.3	234	26.5	183	13.4	234	26.5	183
	66 in	37.2	213	39.4	183	31.0	213	33.7	179	26.5	213	29.8	176	23.2	213	27.0	173	20.6	213	25.1	170	18.6	213	23.7	169	15.5	213	22.2	167	13.3	213	22.0	166	11.6	213	22.0	166
	72 in	28.6	179	30.1	155	23.9	179	25.6	152	20.4	179	22.5	149	17.9	179	20.3	147	15.9	179	18.7	145																
	76 in	24.3	161	25.4	140	20.3	161	21.6	137	17.4	161	19.0	135	15.2	161	17.0	133																				
	78 in	22.5	152	23.5	133	18.8	152	19.9	131	16.1	152	17.5	128																								

TABLE 11B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	Substrate:	2.7k Concrete				3.5k Conc.	Hollow CMU						Filled CMU	PT Wood		Metal
	Anchor Type:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
	Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
	Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	(see note 4)
4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips (Fig. 1):		780 lbs	780 lbs	680 lbs	1560 lbs	1896 lbs	540 lbs	560 lbs	N/A	760 lbs	936 lbs	880 lbs	2364 lbs	652 lbs	840 lbs	1432 lbs

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{REQ}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{\text{REQ}}$$

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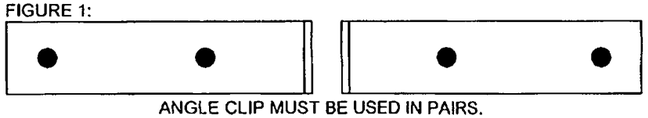
FIGURE 1:



ANGLE CLIP MUST BE USED IN PAIRS.

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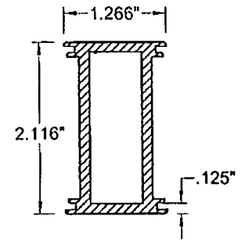


1.26" X 2.11" X .125" MULLION
(INTEGRAL FIN MULLION)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 13-0815.05
Expiration Date 05/26/2016
By
Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
10/15/13
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
FL P.E.# 58705

PGT®
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
FL CERT. OF AUTH.# 29296

Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: 1.26 X 2.11 X .125 MULL SPECS
Drawing No. 6300JR
Sheet: 15 of 22
Rev: A
Scale: N/A
Date: 08/29/11
Checked By:
Date:
Revision: REVISED CLIP FIGURES
Date: 07/15/13
Series: N/A
Drawn By: J ROSOWSKI
Rev. By: J ROSOWSKI

TABLE 12A

Mullion Capacity Table (lbs/ft²)

Opening Width (for vertically-spanning mullions) **or Opening Height** (for horizontally-spanning mullions)

3.25" 30 DEG. AL BAY MULL		50 in				60 in				70 in				80 in				90 in			
		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
		Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
Mull Length	42 in	170.0	620	170.0	435	170.0	744	170.0	478	170.0	868	170.0	506	170.0	992	170.0	519	170.0	1116	170.0	521
	48 in	170.0	708	170.0	524	170.0	850	170.0	584	170.0	992	170.0	630	170.0	1133	170.0	661	170.0	1275	170.0	677
	50.625 in	170.0	747	170.0	563	170.0	896	170.0	631	170.0	1046	170.0	684	170.0	1195	170.0	723	170.0	1345	170.0	747
	54 in	170.0	797	170.0	612	170.0	956	170.0	691	170.0	1116	170.0	754	170.0	1275	170.0	803	160.4	1353	170.0	837
	60 in	170.0	885	170.0	701	170.0	1063	170.0	797	167.0	1218	170.0	878	146.1	1218	170.0	944	129.9	1218	159.8	936
	63 in	170.0	930	170.0	745	170.0	1116	170.0	850	150.2	1150	168.8	933	131.4	1150	153.0	914	116.8	1150	141.9	898
	66 in	170.0	974	170.0	789	152.4	1048	165.8	881	130.6	1048	146.6	864	114.3	1048	133.1	850	101.6	1048	123.4	839
	72 in	140.8	880	147.9	764	117.4	880	126.0	748	100.6	880	110.8	734	88.0	880	100.0	722	78.2	880	92.0	712
	76 in	119.7	790	125.1	690	99.8	790	106.4	676	85.5	790	93.3	663	74.8	790	83.9	652	66.5	790	76.9	643
	78 in	110.8	750	115.5	657	92.3	750	98.1	644	79.1	750	85.9	632	69.2	750	77.1	621	61.5	750	70.6	612
	90 in	72.1	563	74.4	500	60.1	563	62.9	491	51.5	563	54.8	483	45.1	563	48.9	475	40.1	563	44.4	468
	96 in	59.4	495	61.1	443	49.5	495	51.5	435	42.4	495	44.8	427	37.1	495	39.9	421	33.0	495	36.1	415
	108 in	41.7	391	42.6	353	34.8	391	35.9	348	29.8	391	31.1	342	26.1	391	27.6	337	23.2	391	24.9	333
	111 in	38.4	370	39.2	335	32.0	370	33.0	330	27.5	370	28.6	325	24.0	370	25.3	320	21.4	370	22.8	316
	120 in	30.4	317	30.9	289	25.3	317	26.0	284	21.7	317	22.5	280	19.0	317	19.9	276	16.9	317	17.9	273
	144 in	17.6	220	17.8	203																

3.25" 30 DEG. AL BAY MULL		100 in				120 in				140 in				160 in			
		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
		Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
Mull Length	42 in	170.0	1240	170.0	521	170.0	1488	170.0	521	170.0	1735	170.0	521	149.1	1740	170.0	521
	48 in	164.2	1417	170.0	680	152.2	1522	170.0	680	130.5	1522	170.0	680	114.2	1522	170.0	680
	50.625 in	164.2	1443	170.0	756	136.9	1443	170.0	756	117.3	1443	170.0	756	102.6	1443	170.0	756
	54 in	144.3	1353	170.0	856	120.3	1353	170.0	861	103.1	1353	170.0	861	90.2	1353	170.0	861
	60 in	116.9	1218	152.1	924	97.4	1218	146.1	913	83.5	1218	146.1	913	73.1	1218	146.1	913
	63 in	105.1	1150	134.2	885	87.6	1150	126.7	871	75.1	1150	126.2	870	65.7	1150	126.2	870
	66 in	91.4	1048	116.6	830	76.2	1048	109.4	821	65.3	1048	108.2	818	57.1	1048	108.2	818
	72 in	70.4	880	86.2	703	58.7	880	79.2	693	50.3	880	76.5	688	44.0	880	76.4	688
	76 in	59.9	790	71.7	635	49.9	790	65.1	624	42.8	790	62.1	619	37.4	790	61.5	617
	78 in	55.4	750	65.7	605	46.2	750	59.4	594	39.6	750	56.2	588	34.6	750	55.5	586
	90 in	36.1	563	40.9	462	30.0	563	36.2	452	25.8	563	33.3	445	22.5	563	31.8	442
	96 in	29.7	495	33.2	409	24.8	495	29.1	400	21.2	495	26.6	394	18.6	495	25.0	390
	108 in	20.9	391	22.8	328	17.4	391	19.7	321	14.9	391	17.8	315				
	111 in	19.2	370	20.9	312	16.0	370	18.1	305								
	120 in																
	144 in																

TABLE 12B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	Substrate:	2.7k Concrete				3.5k Conc.	Hollow CMU						Filled CMU	PT Wood		Metal
	Anchor Type:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
	Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
	Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	(see note 4)
2 Anchors @ 5" Min. O.C. / (2) 2x5 Angle Clips (Fig. 1):		390 lbs	390 lbs	450 lbs	890 lbs	1700 lbs	270 lbs	280 lbs	354 lbs	740 lbs	468 lbs	720 lbs	1182 lbs	326 lbs	420 lbs	560 lbs
4 Anchors @ 3.5" Min. O.C. / (2) 2x5 Angle Clips (Fig. 2):		780 lbs	780 lbs	790 lbs	1670 lbs	2525 lbs	540 lbs	560 lbs	N/A	1120 lbs	936 lbs	880 lbs	2364 lbs	652 lbs	840 lbs	1120 lbs
6 Anchors @ 2.71" Min. O.C. / (2) 2x5 Angle Clips (Fig. 3):		1120 lbs	1120 lbs	958 lbs	2246 lbs	2254 lbs	N/A	840 lbs	N/A	1059 lbs	N/A	1320 lbs	N/A	978 lbs	1260 lbs	1680 lbs

FIGURE 1:

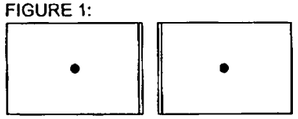


FIGURE 2:

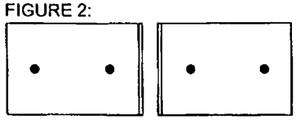
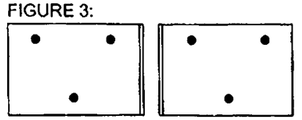


FIGURE 3:



ANGLE CLIP (FIGURES 1-3) MUST BE USED IN PAIRS.

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1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 22 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

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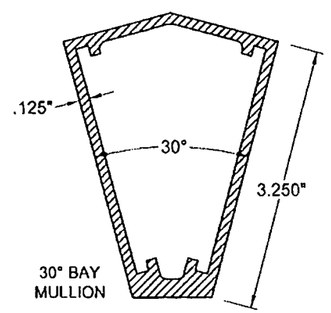
ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{REQ}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{FROM TABLE}}}{\text{MULLION CAP.}_{\text{FROM TABLE}}}\right) = \text{ANCHOR CAP.}_{REQ}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.



PGT®
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
FL CERT. OF AUTH.# 29296

Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: 30 DEGREE BAY MULL SPECS
Series: N/A | Scale: N/A | Drawing No. 6300JR | Sheet: 16 of 22
Drawn By: J ROSOWSKI | Date: 08/29/11 | Checked By: | Date: | Rev: A
Rev. By: J ROSOWSKI | Date: 07/15/13 | Revision: REVISED CLIP FIGURES

PRODUCT REVISED
as complying with the Florida
Building Code 13-0815.05
Acceptance No
Expiration Date 5/26/2016
By
Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
10/15/13
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E.# 58705

TABLE 13A

Mullion Capacity Table (lbs/ft²)

Opening Width (for vertically-spanning mullions) **or Opening Height** (for horizontally-spanning mullions)

3.25" 45 DEG. AL BAY MULL		50 in				60 in				70 in				80 in			
		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
		Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
Mull Length	42 in	170.0	620	170.0	435	170.0	744	170.0	478	170.0	868	170.0	506	170.0	992	170.0	519
	48 in	170.0	708	170.0	524	170.0	850	170.0	584	170.0	992	170.0	630	170.0	1133	170.0	661
	50.625 in	170.0	747	170.0	563	170.0	896	170.0	631	170.0	1046	170.0	684	170.0	1195	170.0	723
	54 in	170.0	797	170.0	612	170.0	956	170.0	691	170.0	1116	170.0	754	170.0	1275	170.0	803
	60 in	170.0	885	170.0	701	170.0	1063	170.0	797	170.0	1240	170.0	878	157.1	1309	170.0	944
	63 in	170.0	930	170.0	745	170.0	1116	170.0	850	162.9	1247	170.0	940	142.5	1247	164.5	983
	66 in	170.0	974	170.0	789	170.0	1169	170.0	903	148.4	1190	163.7	965	129.9	1190	147.9	945
	72 in	161.6	1010	169.8	877	134.7	1010	144.6	859	115.4	1010	127.2	842	101.0	1010	114.7	828
	76 in	137.4	906	143.6	792	114.5	906	122.0	775	98.1	906	107.1	761	85.9	906	98.2	749
	78 in	127.1	861	132.5	754	105.9	861	112.5	738	90.8	861	98.6	725	79.4	861	88.5	713
	90 in	82.7	646	85.4	574	68.9	646	72.1	564	59.1	646	62.9	554	51.7	646	58.1	545
	96 in	68.2	568	70.1	508	56.8	568	59.1	499	48.7	568	51.4	491	42.6	568	45.8	483
	108 in	47.9	449	48.9	405	39.9	449	41.2	399	34.2	449	35.7	393	29.9	449	31.7	387
	111 in	44.1	425	45.0	385	36.8	425	37.9	379	31.5	425	32.8	373	27.6	425	29.1	367
	120 in	34.9	364	35.5	331	29.1	364	29.8	326	24.9	364	25.8	321	21.8	364	22.8	317
	144 in	20.2	253	20.4	233	16.8	253	17.1	230								

3.25" 45 DEG. AL BAY MULL		90 in				100 in				120 in				140 in				160 in			
		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading		Rectangular Loading		Trap/Triang. Loading	
		Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft2)	Anchor Capacity Required (lbs)
Mull Length	42 in	170.0	1116	170.0	521	170.0	1240	170.0	521	170.0	1488	170.0	521	170.0	1735	170.0	521	160.3	1871	170.0	521
	48 in	170.0	1275	170.0	677	170.0	1417	170.0	680	163.7	1637	170.0	680	140.3	1637	170.0	680	122.8	1637	170.0	680
	50.625 in	170.0	1345	170.0	747	170.0	1494	170.0	756	147.1	1552	170.0	756	126.1	1552	170.0	756	110.4	1552	170.0	756
	54 in	170.0	1434	170.0	837	155.2	1455	170.0	856	129.3	1455	170.0	861	110.8	1455	170.0	861	97.0	1455	170.0	861
	60 in	139.7	1309	170.0	996	125.7	1309	163.5	994	104.8	1309	157.1	982	89.8	1309	157.1	982	78.6	1309	157.1	982
	63 in	126.7	1247	152.6	965	114.0	1247	144.3	952	95.0	1247	136.2	936	81.4	1247	135.7	935	71.3	1247	135.7	935
	66 in	115.4	1190	136.5	928	103.9	1190	128.4	914	86.6	1190	119.5	896	74.2	1190	118.1	893	64.9	1190	118.1	893
	72 in	89.8	1010	105.6	817	80.8	1010	98.9	807	67.3	1010	90.8	795	57.7	1010	87.8	790	50.5	1010	87.7	789
	76 in	76.3	906	88.2	738	68.7	906	82.3	729	57.3	906	74.7	716	49.1	906	71.2	710	42.9	906	70.6	708
	78 in	70.6	861	81.0	703	63.6	861	75.4	694	53.0	861	68.1	681	45.4	861	64.5	675	39.7	861	63.7	672
	90 in	46.0	646	50.9	537	41.4	646	47.0	530	34.5	646	41.5	519	29.5	646	38.2	511	25.9	646	36.5	507
	96 in	37.9	568	41.4	476	34.1	568	38.1	470	28.4	568	33.4	459	24.3	568	30.5	452	21.3	568	28.7	447
	108 in	28.6	449	28.6	382	23.9	449	28.1	377	20.0	449	22.7	368	17.1	449	20.4	361	15.0	449	18.9	358
	111 in	24.5	425	26.2	362	22.1	425	24.0	358	18.4	425	20.7	350	15.8	425	18.6	343				
	120 in	19.4	364	20.5	313	17.5	364	18.7	309												
	144 in																				

TABLE 13B

Anchor Capacity Table (lbs)

Anchor Clip Patterns	Substrate:	2.7k Concrete				3.5k Conc.	Hollow CMU						Filled CMU	PT Wood		Metal
	Anchor Type:	3/16" Elco Ultracon		1/4" Elco Ultracon		5/16" Elco Ultracon	3/16" Elco Ultracon		1/4" Elco Ultracon		1/4" SS Elco AggreGator	5/16" Elco Ultracon	1/4" SS Elco AggreGator	#10 Steel Screw (G5)	#12 Steel Screw (G5)	#12 Steel Screw (G5)
	Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.64"	0.324"
	Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	(see note 4)
2 Anchors @ 5" Min. O.C. / (2) 2x5 Angle Clips (Fig. 1):		390 lbs	390 lbs	450 lbs	890 lbs	1700 lbs	270 lbs	280 lbs	354 lbs	740 lbs	468 lbs	720 lbs	1182 lbs	326 lbs	420 lbs	560 lbs
4 Anchors @ 3.5" Min. O.C. / (2) 2x5 Angle Clips (Fig. 2):		780 lbs	780 lbs	790 lbs	1670 lbs	2525 lbs	540 lbs	560 lbs	N/A	1120 lbs	936 lbs	880 lbs	2364 lbs	652 lbs	840 lbs	1120 lbs
6 Anchors @ 2.71" Min. O.C. / (2) 2x5 Angle Clips (Fig. 3):		1120 lbs	1120 lbs	958 lbs	2246 lbs	2254 lbs	N/A	840 lbs	N/A	1059 lbs	N/A	1320 lbs	N/A	978 lbs	1260 lbs	1680 lbs

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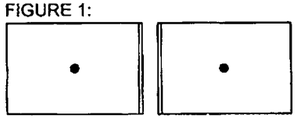


FIGURE 2:

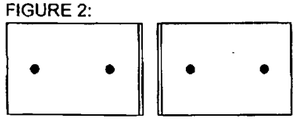
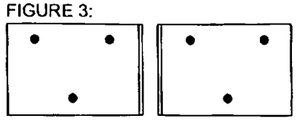


FIGURE 3:



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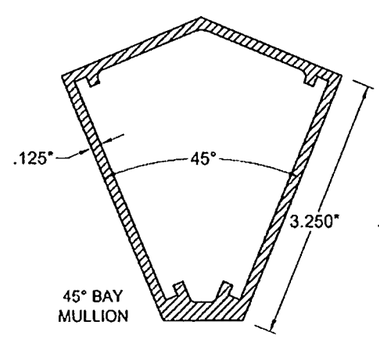

PRODUCT REVISED
is complying with the Florida
Building Code 13-0815.05
Acceptance No
Expiration Date 05/26/2016
By
Miami Dade Product Control

ANTHONY LYNN MILLER
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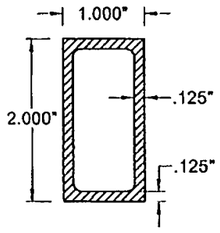
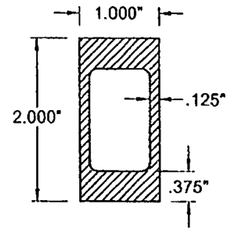
FL CERT. OF AUTH.# 29296

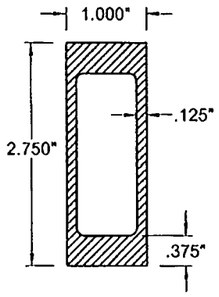
Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: 45 DEGREE BAY MULL SPECS
Series: N/A
Drawing No. 6300JR
Scale: N/A
Checked By:
Date:
Sheet: 17 of 22
Rev: A
Drawn By: J ROSOWSKI
Date: 08/29/11
Rev. By: J ROSOWSKI
Date: 07/15/13
Revision: REVISED CLIP FIGURES



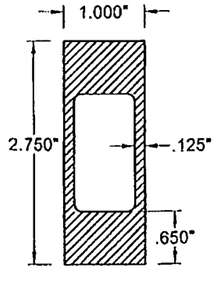
1" X 2" X .125" MULLION
6063-T6 ALUM.
X-SECTION



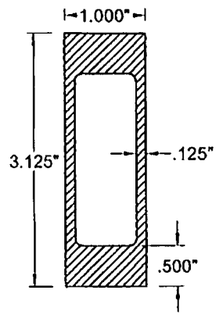
1" X 2" X .375" MULLION
6063-T6 ALUM.
X-SECTION



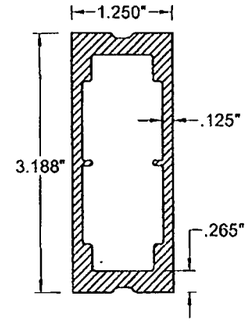
1" X 2.75" X .375" MULLION
6063-T6 ALUM.
X-SECTION



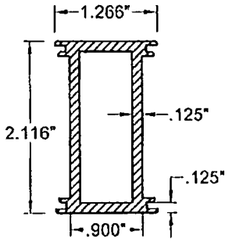
1" X 2.75" X .650" MULLION
6063-T6 ALUM.
X-SECTION



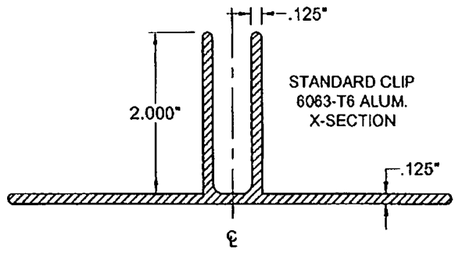
1" X 3.125" X .5" MULLION
6063-T6 ALUM.
X-SECTION

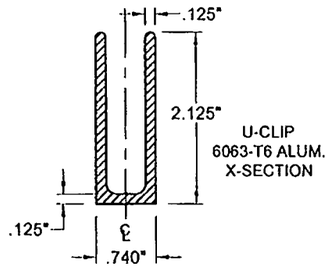


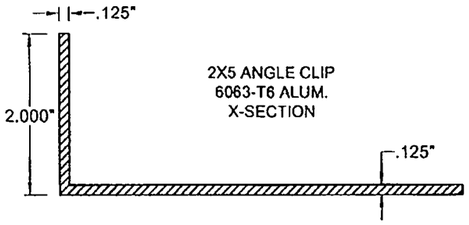
1.25" X 3.188" X .265" MULLION
6063-T6 ALUM.
X-SECTION

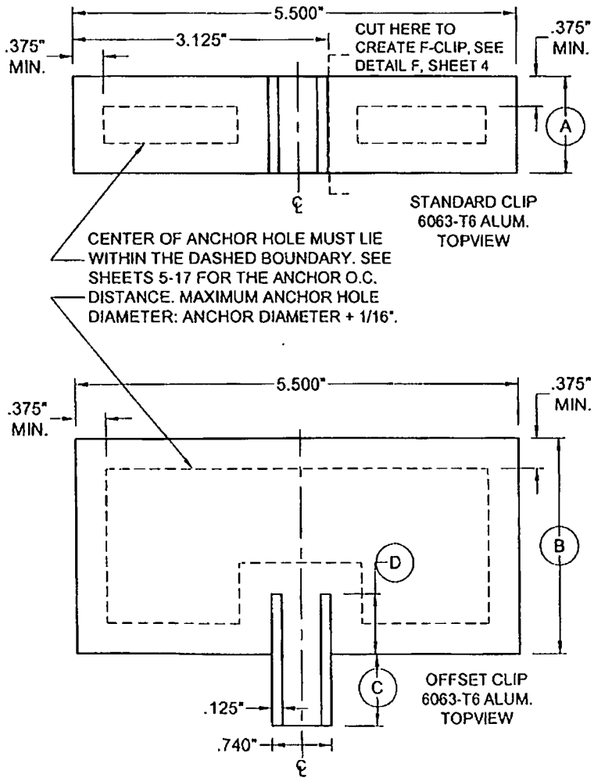


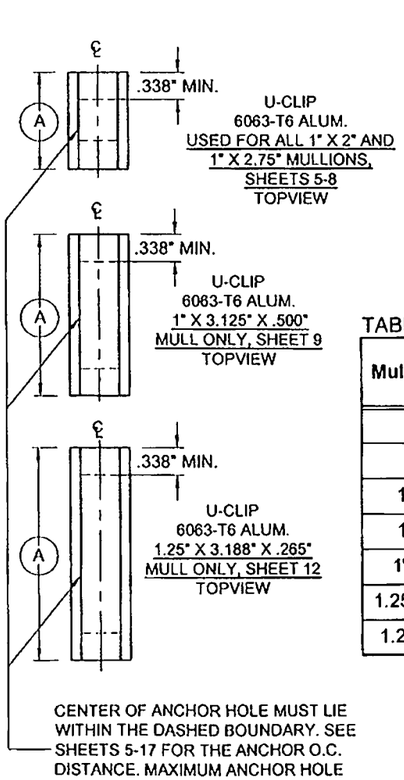
1.26" X 2.11" X .125" MULLION
6063-T6 ALUM.
X-SECTION











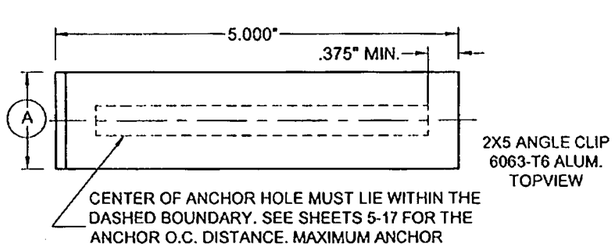


TABLE A

Dimension	Value (In)	For Mullion:
A	1.625	1" X 2" X .125" Aluminum Tube Mullion
B	2.654	
C	0.895	
D	0.740	
A	1.125	1" X 2" X .375" Aluminum Tube Mullion
B	2.404	
C	0.635	
D	0.490	
A	1.875	1" X 2.75"" X .375 Aluminum Tube Mullion
B	3.000	
C	0.757	
D	1.118	
E	.450 Min.	
A	1.312	1" X 2.75" X .650" Aluminum Tube Mullion
B	3.000	
C	0.476	
D	0.836	
A	2.000	1" X 3.125" X .500" Alum Tube Mull
B	2.637	
C	0.863	
D	1.137	
A	2.625	1.25" X 3.188" X .265" Alum Tube Mull
B	3.262	
C	0.862	
D	1.762	
A	1.813	1.26" X 2.11" X .121" Alum Tube Mull

TABLE B

Mull Dimension (sheet #)	PGT Part #				
	Mullion	Std. Clip	Offset Clip	U-Clip	Angle Clip
1" X 2" X .125" (5)	66605	666113M	6661118M	666243M	666511M
1" X 2" X .375" (6)	666006	666114M	6661119M	666244M	666512M
1" X 2.75" X .375" (7)	66607	666115M	6661120M	666245M	666513M
1" X 2.75" X .650" (8)	66608	666116M	6661121M	666246M	666514M
1" X 3.125" X .500" (9)	66637M	6661116M	6661114M	666242M	666515M
1.25" X 3.188" X .265" (12)	66641M	6661117M	6661113M	666241M	666516M
1.26" X 2.11" X .125" (15)	69370	N/A	N/A	N/A	666517M

NOTES:

1) HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS GIVEN ON THIS SHEET.

2) SEE SHEETS 5-17 FOR SUGGESTED, APPROXIMATE HOLE LOCATIONS & ANCHOR O.C. DISTANCE.

3) SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

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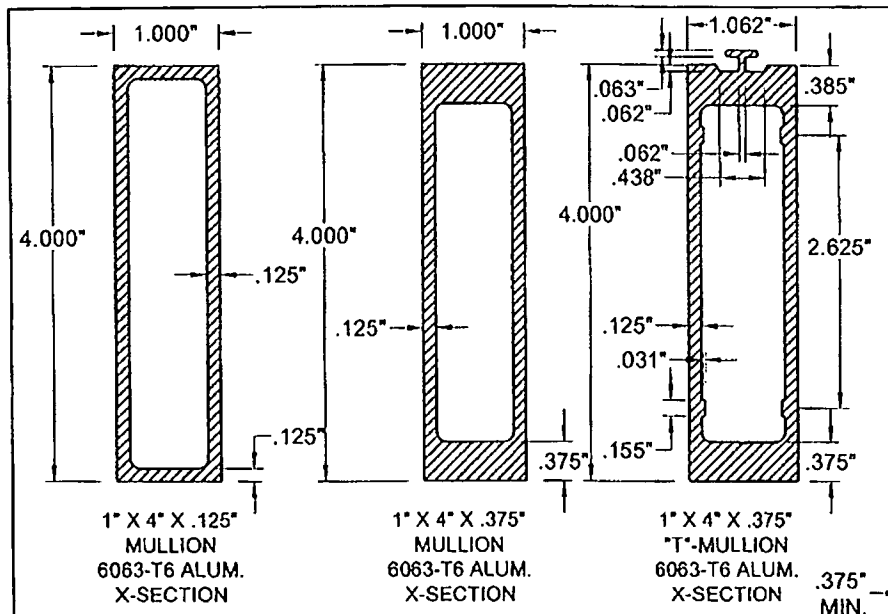
FL CERT. OF AUTH.# 29296

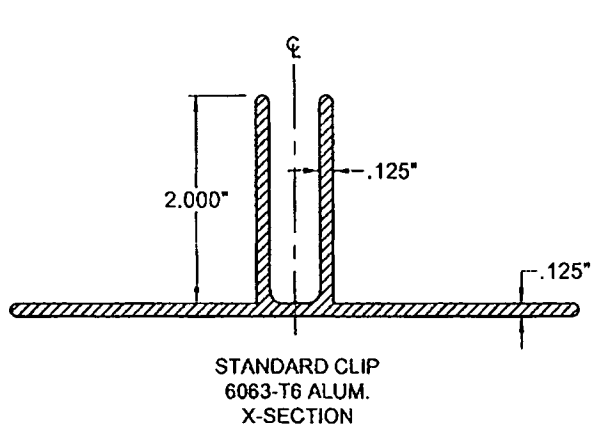
Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: MULLION AND CLIP DIMENSIONS A
Series: N/A
Drawn By: J ROSOWSKI
Date: 08/29/11
Rev. By: J ROSOWSKI
Date: 07/15/13
Drawing No. 6300JR
Scale: N/A
Checked By:
Date:
Revision: REVISED CLIP FIGURES
Sheet: 18 of 22
Rev: A

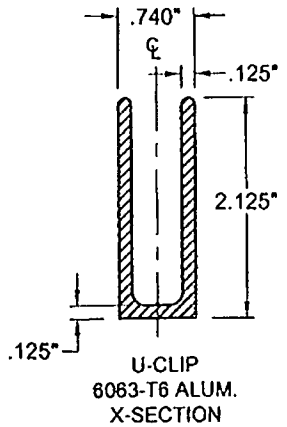
PRODUCT REVISED
is complying with the Florida
Building Code
Acceptance No 13-0815.05
Expiration Date 05/26/2016
By
Miami Dade Product Control

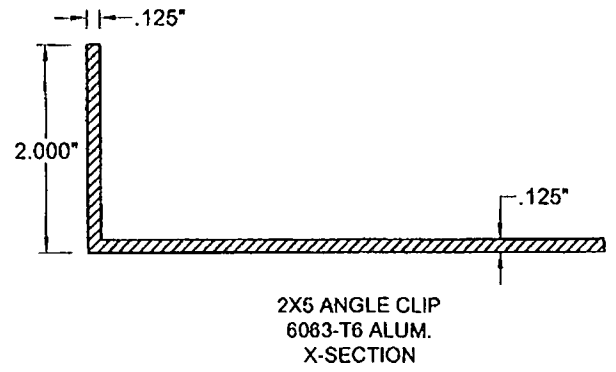
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
10/15/13

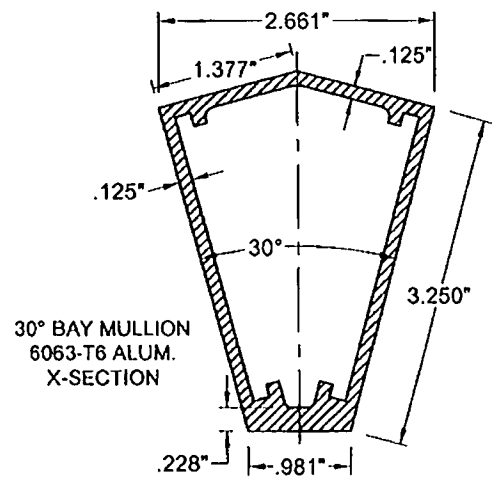
A. LYNN MILLER, P.E.
FL P.E.# 58705

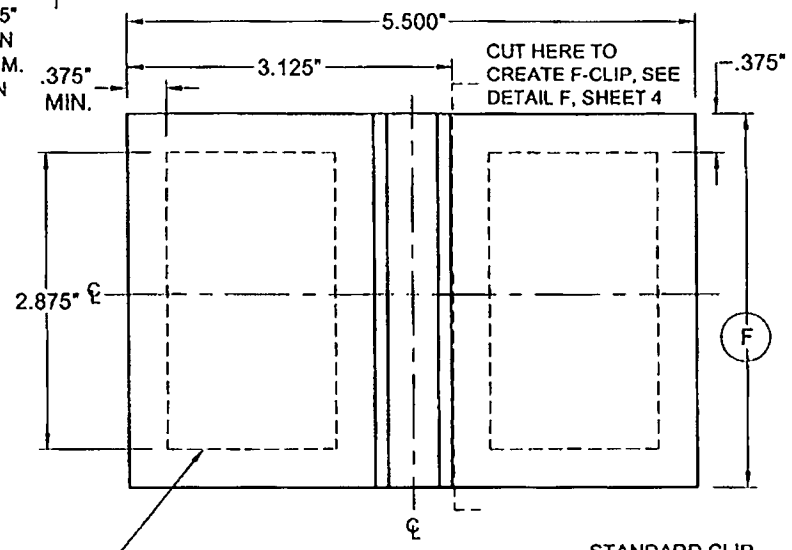


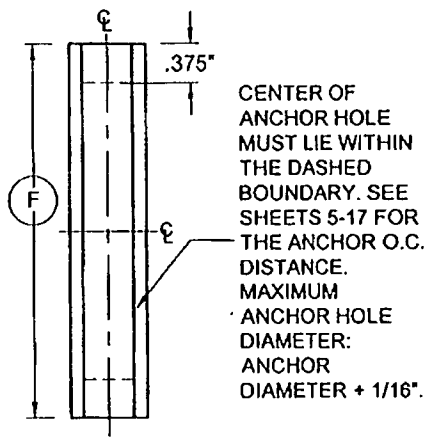


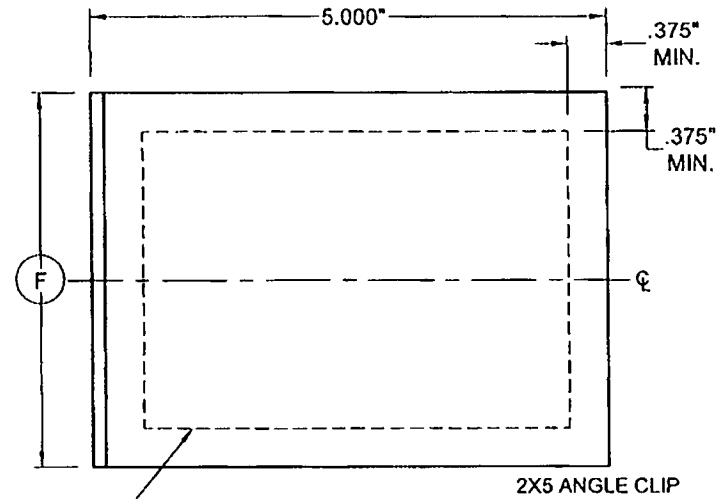


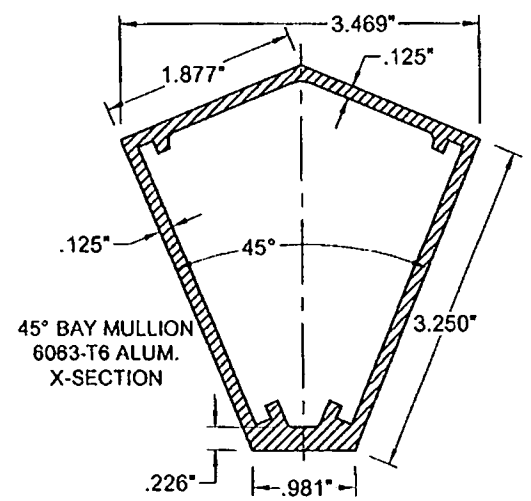












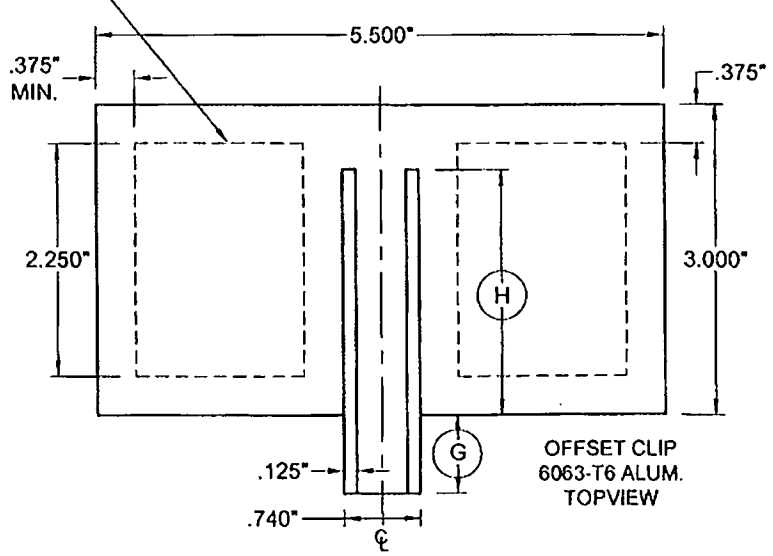


TABLE C

Dimension	Value (in)	For Mullion:
F	3.687	1" X 4" X .125" Aluminum Tube Mullion
G	1.000	
H	2.680	
F	3.187	1" X 4" X .375" Aluminum Tube & "T" Mullion
G	0.757	
H	2.430	
F	2.813	30° Bay Mull
F	2.875	45° Bay Mull

TABLE D

Mull Dimension (sheet #)	PGT Part #				
	Mullion	Std. Clip	Offset Clip	U-Clip	Angle Clip
1" X 4" X .125" (10)	69364	666111M	6661122M	666241M	666518M
1" X 4" X .375" (11)	66610	666112M	6661123M	666242M	666519M
1" X 4" X .375" "T" (11)	66653	666112M	6661123M	666242M	666519M
30 Degree (16)	66649	N/A	N/A	N/A	6665110M
45 Degree (17)	66650	N/A	N/A	N/A	6665111M

NOTES:

1) HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS GIVEN ON THIS SHEET.

2) SEE SHEETS 5-17 FOR SUGGESTED, APPROXIMATE HOLE LOCATIONS.

3) SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

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Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: MULLION AND CLIP DIMENSIONS B
Series: N/A
Scale: N/A
Drawing No. 6300JR
Sheet: 19 of 22
Rev. A
Drawn By: J ROSOWSKI
Date: 08/29/11
Checked By:
Date:
Rev. By: J ROSOWSKI
Date: 07/15/13
Revision: REVISED CLIP FIGURES

PRODUCT REVISED
is complying with the Florida
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ANTHONY LYNN MILLER
LICENSE
No. 58705
10/15/13
STATE OF FLORIDA
PROFESSIONAL ENGINEER

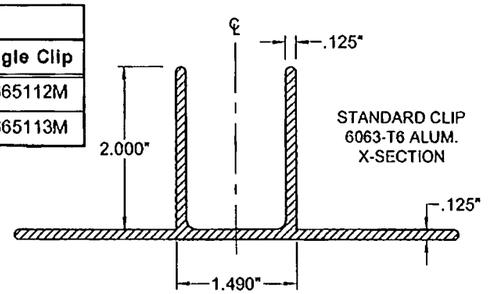
A. LYNN MILLER, P.E.
FL P.E.# 58705

TABLE E

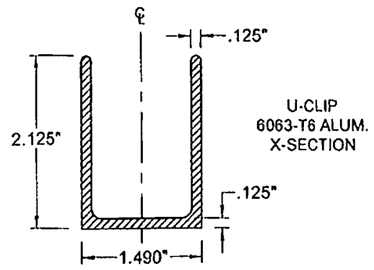
Mull Dimension (sheet #)	PGT Part #			
	Mullion	Std. Clip	U-Clip	Angle Clip
2" X 4" X .25" (13)	66602	666261M	666271M	6665112M
2" X 6" X .25" (14)	66604	666262M	666272M	6665113M

NOTES:

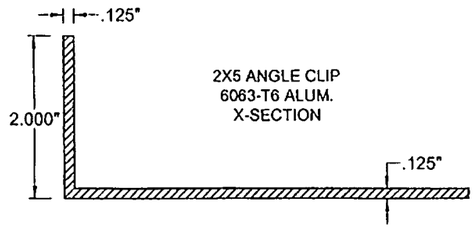
1) HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS GIVEN ON THIS SHEET.
2) SEE SHEETS 5-17 FOR SUGGESTED, APPROXIMATE HOLE LOCATIONS.
3) SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.



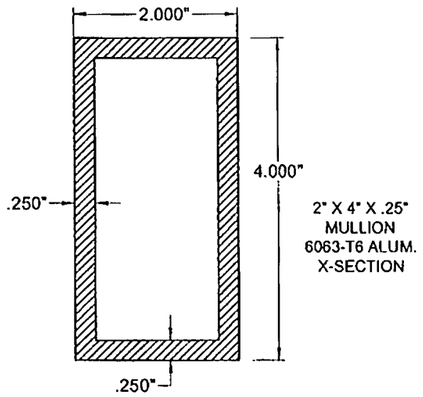
STANDARD CLIP
6063-T6 ALUM.
X-SECTION



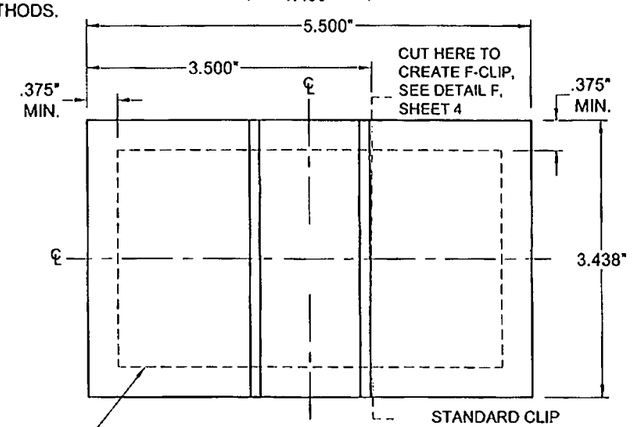
U-CLIP
6063-T6 ALUM.
X-SECTION



2X5 ANGLE CLIP
6063-T6 ALUM.
X-SECTION

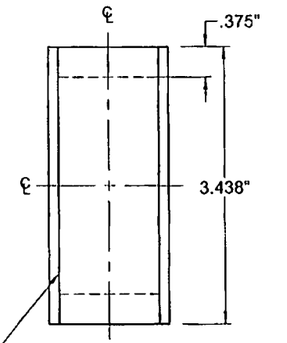


2" X 4" X .25"
MULLION
6063-T6 ALUM.
X-SECTION



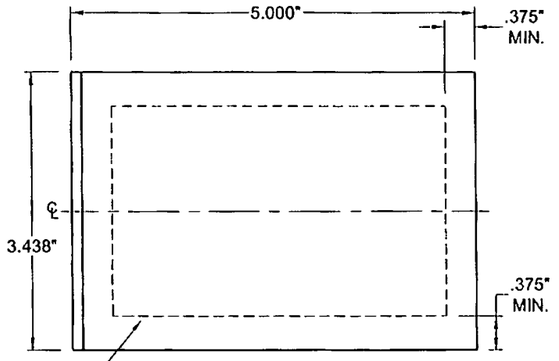
STANDARD CLIP
6063-T6 ALUM.
TOPVIEW

CENTER OF ANCHOR HOLE MUST LIE WITHIN THE DASHED BOUNDARY. SEE SHEETS 5-17 FOR THE ANCHOR O.C. DISTANCE. MAXIMUM ANCHOR HOLE DIAMETER: ANCHOR DIAMETER + 1/16".



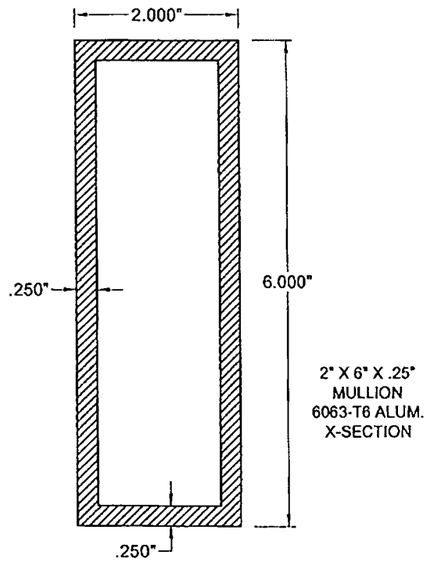
U-CLIP, 6063-T6 ALUM.
USED FOR 2" X 4" MULLION, SHEET 13
TOPVIEW

CENTER OF ANCHOR HOLE MUST LIE WITHIN THE DASHED BOUNDARY. SEE SHEETS 5-17 FOR THE ANCHOR O.C. DISTANCE. MAXIMUM ANCHOR HOLE DIAMETER: ANCHOR DIAMETER + 1/16".

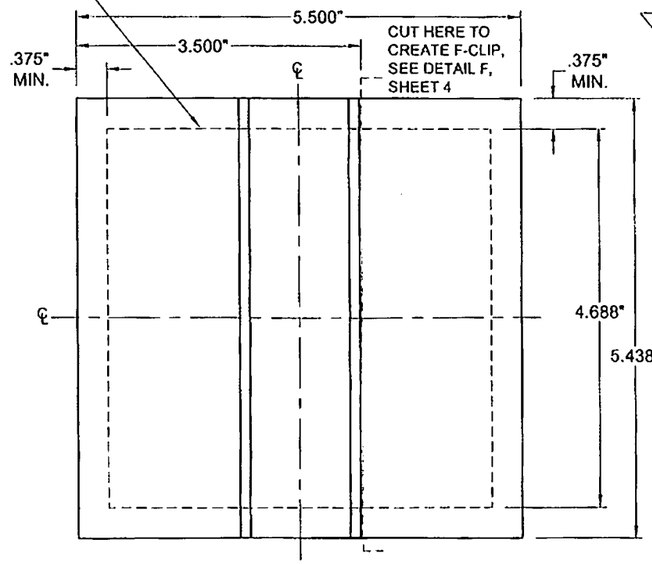


2X5 ANGLE CLIP
6063-T6 ALUM.
TOPVIEW

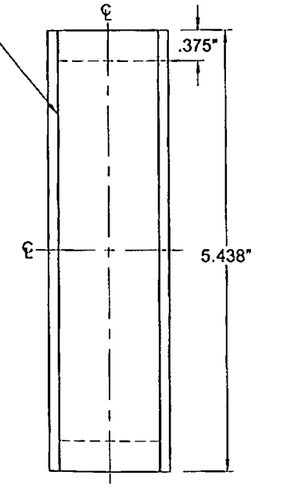
CENTER OF ANCHOR HOLE MUST LIE WITHIN THE DASHED BOUNDARY. SEE SHEETS 5-17 FOR THE ANCHOR O.C. DISTANCE. MAXIMUM ANCHOR HOLE DIAMETER: ANCHOR DIAMETER + 1/16".



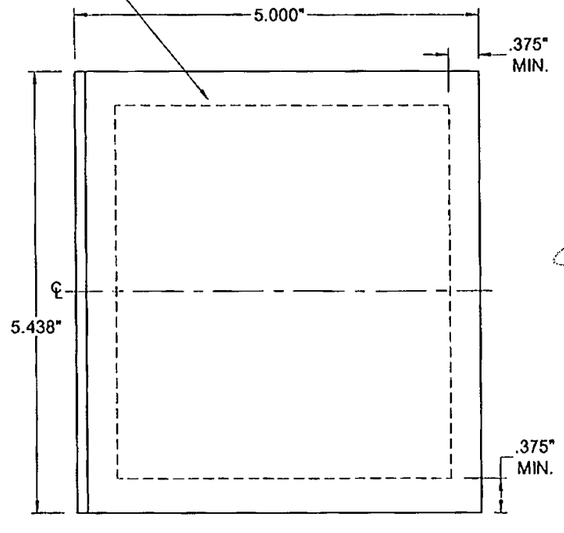
2" X 6" X .25"
MULLION
6063-T6 ALUM.
X-SECTION



STANDARD CLIP
6063-T6 ALUM.
TOP VIEW



U-CLIP
6063-T6 ALUM.
USED FOR 2" X 6" MULLION, SHEET 14
TOPVIEW



2X5 ANGLE CLIP
6063-T6 ALUM.
TOPVIEW

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FL CERT. OF AUTH.# 29296

Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: MULLION AND CLIP DIMENSIONS C
Series: N/A
Drawing No. 6300JR
Sheet: 20 of 22
Rev: A
Drawn By: J ROSOWSKI
Scale: N/A
Checked By:
Date:
Rev. By: J ROSOWSKI
Date: 08/29/11
Revision: REVISED CLIP FIGURES
Date: 07/15/13

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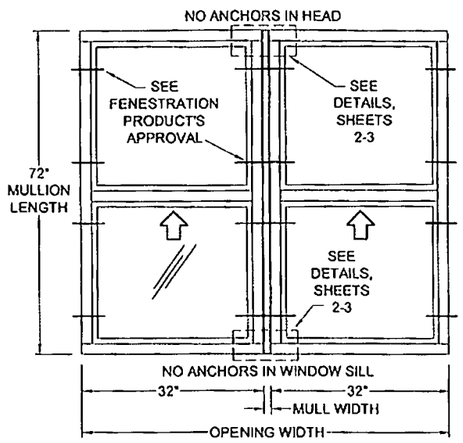
FL P.E.# 58705

EXAMPLE 1: SINGLE VERTICAL MULLION



THE BUILDING SUBSTRATE IS KNOWN TO BE WOOD ON ALL FOUR SIDES. THE WINDOW FRAME DEPTH IS 2-1/4". THE OPENING REQUIRES A DESIGN PRESSURE OF +60.0/-60.0 PSF.

1) INITIALLY ASSUMING THAT A 1" WIDE MULLION IS SUITABLE,THE MULLION LENGTH IS 72" AND THE OPENING WIDTH IS 32"+32+1" =65". REFERENCING SHEET 22, THE COLUMN USING RECTANGULAR LOADING MUST BE USED. SCAN THE MULLION TABLES FOR A MULLION THAT IS AT LEAST THE WINDOW FRAME DEPTH OF 2-1/4" AND WILL MEET OR EXCEED THE REQUIRED DESIGN PRESSURE OF +60.0/-60.0 PSF. IF THE TABLE DOES NOT SHOW THE EXACT SIZE, USE THE NEXT LARGER SIZE AVAILABLE.

FROM TABLE 3A, SHEET 7, THE 1" X 2.75" X .375" MULLION (LENGTH = 72", OPENING WIDTH = 70") MEETS THE DEPTH REQUIRED, HOWEVER THE DESIGN PRESSURE IS +/-58.3 PSF AND WOULD NOT BE SUITABLE FOR THIS APPLICATION.

FROM TABLE 4A, SHEET 8, THE 1" X 2.75" X .650" MULLION (LENGTH = 72", OPENING WIDTH = 70") HAS A DESIGN PRESSURE OF +/-72.7 PSF WHICH EXCEEDS THE REQUIREMENTS FOR THE OPENING AND MAY BE USED IN THIS APPLICATION. NOTE THE ANCHOR CAPACITY REQUIRED OF 636 LBS.

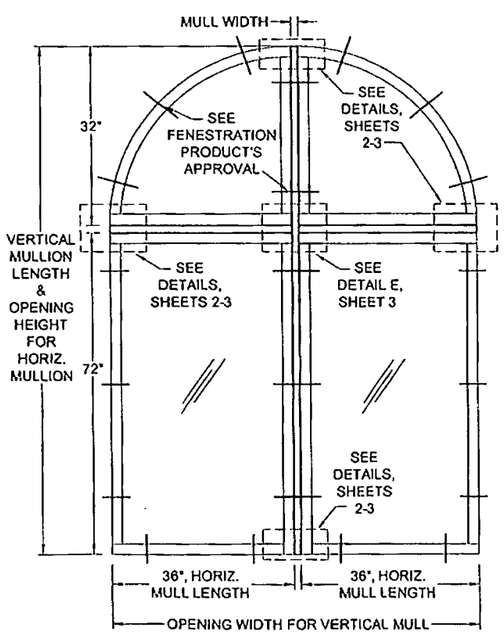
2) USE TABLE 4B TO FIND THE ANCHOR TYPE, ANCHOR QUANTITY AND CLIP TYPE REQUIRED FOR THE WOOD SUBSTRATE. BOTH THE STANDARD CLIP WITH (4) #12 ANCHORS AND THE 2X5 ANGLE CLIPS WITH (4) #12 ANCHORS HAVE A CAPACITY 0F 840 LBS. THOUGH EITHER ONE COULD BE USED, THE STANDARD CLIP IS EASIER TO INSTALL.

3) VERIFY THE DESIGN PRESSURE OF THE FENESTRATION PRODUCTS USED WITH THIS MULLION SYSTEM. THE LOWER DESIGN PRESSURE, OF MULLIONS OR FENESTRATION PRODUCTS, WILL APPLY TO THE OVERALL ASSEMBLY. FINAL DESIGN PRESSURE REQUIRES THAT THE BOTH THE MULLION AND THE FENESTRATION PRODUCT BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION SPECIFICATIONS INTO RESPECTIVE SUBSTRATES AND FENESTRATION PRODUCTS TO MULLION.

IN THIS EXAMPLE, THE DESIGN PRESSURE REQUIRED WAS +/-60.0 PSF. THE OVERALL MULLION SYSTEM WAS DETERMINED TO BE 72.7 PSF WITH AN ANCHOR CAPACITY OF 636 LBS. ALTERNATIVELY, THE ANCHOR CAPACITY ADJUSTMENT FORMULA COULD HAVE BEEN USED TO CALCULATE THE ANCHOR CAPACITY REQUIRED FOR THE EXACT DESIGN PRESSURE OF 60 PSF:

$$(60\ \text{PSF}) \times \left(\frac{636\ \text{LBS}}{72.7\ \text{PSF}}\right) = 524.9\ \text{LBS}$$ (MAY BE USED TO QUALIFY # 10 STEEL SCREWS FROM TABLE 4B)

EXAMPLE 2: MULTIPLE MULLIONS



THE BUILDING SUBSTRATE IS KNOWN TO BE CMU ON THE JAMBS AND USES A CONCRETE HEADER AND SILL. THE WINDOW FRAME DEPTH IS 2-3/8". THE OPENING REQUIRES A DESIGN PRESSURE OF +50.0/-55.0 PSF.

FOR THE VERTICAL MULLION:

1) INITIALLY ASSUMING THAT A 1" WIDE MULLION IS SUITABLE, THE MULLION LENGTH IS 32"+72"+1"=105" AND THE OPENING WIDTH IS 36"+36"+1" =73". REFERENCING SHEET 22, THE COLUMN USING RECTANGULAR LOADING SHALL BE USED. SCAN THE MULLION TABLES FOR A MULLION THAT IS AT LEAST THE WINDOW FRAME DEPTH OF 2-3/8" AND WILL MEET OR EXCEED THE REQUIRED DESIGN PRESSURE OF +50.0/-55.0 PSF. IF THE TABLE DOES NOT SHOW THE EXACT SIZE, USE THE NEXT LARGER SIZE AVAILABLE.

FROM TABLE 3A, SHEET 7, THE 1" X 2.75" X .375" MULLION (LENGTH = 108", OPENING WIDTH = 80") MEETS THE DEPTH REQUIRED, HOWEVER THE DESIGN PRESSURE IS +/-15.1 PSF AND WOULD NOT BE SUITABLE FOR THIS APPLICATION.

FROM TABLE 9A, SHEET 13, THE 2" X 4" X .250" MULLION (LENGTH = 108", OPENING WIDTH = 80") HAS A DESIGN PRESSURE OF +/-64.7 PSF WHICH EXCEEDS THE REQUIREMENTS FOR THE OPENING AND MAY BE USED IN THIS APPLICATION. NOTE THE ANCHOR CAPACITY REQUIRED OF 971 LBS.

BECAUSE IT IS NOW KNOWN THAT THE MULLION WILL ADD 2" TO THE WIDTH OF THE MULLED UNIT, THE ADJUSTED OPENING WIDTH IS 36"+36"+2"=74", NOT 73" AS PREVIOUSLY ASSUMED. VERIFY THAT THE DESIGN PRESSURE IS STILL APPLICABLE FOR THE ADJUSTED OPENING. ALTERNATIVELY, THE WINDOW WIDTHS MAY BE REDUCED TO MAINTAIN THE 73" DIMENSION (35-1/2"+35-1/2"+2"=73").

2) USE TABLE 9B TO FIND THE ANCHOR TYPE, ANCHOR QUANTITY AND CLIP TYPE REQUIRED FOR THE CONCRETE SUBSTRATE. IN THIS EXAMPLE, ASSUME THE POURED CONCRETE HEADER AND SILL ARE 8" WIDE. IF THE MULLION CLIP WERE TO BE CENTERED WITHIN THE 8", CARE MUST BE TAKEN TO MAINTAIN THE FASTENER'S EDGE DISTANCE. USING THE STANDARD CLIP WITH (6) 3/16" ULTRACON ANCHORS AT AN EDGE DISTANCE OF 2-1/2" GIVES AN ANCHOR CAPACITY OF 1050 LBS WHICH IS GREATER, AND THEREFORE SUITABLE, FOR THE REQUIRED ANCHOR CAPACITY OF 971 LBS.

FOR THE HORIZONTAL MULLIONS:

BECAUSE THE VERTICAL MULL WILL BE A 2" X 4" X .250" MULLION, IN THIS EXAMPLE WE WILL MATCH THE HORIZONTAL AND VERTICAL MULLIONS, ALTERNATIVELY, ANOTHER MULLION TYPE COULD BE CHOSEN.

1) THE MULLION LENGTH IS 36" AND THE OPENING HEIGHT IS 32"+72"+2" =106". REFERENCING SHEET 22, THE COLUMN USING TRAPEZOIDAL/TRIANGULAR LOADING MAY BE USED. FROM TABLE 9A, SHEET 13, THE 2" X 4" X .250" MULLION (@ LENGTH = 42", OPENING HEIGHT = 120") HAS A DESIGN PRESSURE OF +/-170.0 PSF WHICH EXCEEDS THE REQUIREMENTS FOR THE OPENING AND MAY BE USED IN THIS APPLICATION. NOTE THE ANCHOR CAPACITY REQUIRED OF 521 LBS.

2) USE TABLE 9B TO FIND THE ANCHOR TYPE, ANCHOR QUANTITY AND CLIP TYPE REQUIRED FOR THE CMU SUBSTRATE. IN THIS EXAMPLE, ASSUME THE CMU JAMBS ARE 8" WIDE. IF THE MULLION CLIP WERE TO BE CENTERED WITHIN THE 8", CARE MUST BE TAKEN TO MAINTAIN THE FASTENER'S EDGE DISTANCE. USING THE 2X5 ANGLE CLIPS WITH (4) 3/16" ULTRACON ANCHORS AT AN EDGE DISTANCE OF 1" GIVES AN ANCHOR CAPACITY OF 540 LBS WHICH IS GREATER, AND THEREFORE SUITABLE, FOR THE REQUIRED ANCHOR CAPACITY OF 521 LBS.

4) FOR THE U-CLIP IN THE HORIZONTAL MULLION TO VERTICAL MULLION, USE THE SAME ANCHOR CAPACITY OF 521 LBS. TABLE 9B FOR THE U-CLIP SHOWS THE ANCHOR CAPACITY IS 1074 LBS WHEN USING 3 ANCHORS, WHICH IS GREATER, AND THEREFORE SUITABLE, FOR THE REQUIRED ANCHOR CAPACITY REQUIREMENT OF 521 LBS. THE ANCHOR TYPE IS A #12 STEEL SCREW.

FROM THE ABOVE STEPS, OUR MULLION DESIGN PRESSURE IS:
+/-64.7 PSF FROM THE VERTICAL MULLION;
+/-170.0 PSF FROM THE 36" HORIZONTAL MULLION ATTACHING TO CMU;
+/-170.0 PSF FROM THE 36" HORIZONTAL MULLION ATTACHING TO THE VERTICAL MULLION (INTERSECTION).
THE LOWEST DESIGN PRESSURE IS +/-64.7 PSF AND WOULD APPLY TO ALL OF THE MULLIONS.

VERIFY THE DESIGN PRESSURE OF THE FENESTRATION PRODUCTS USED WITH THIS MULLION SYSTEM. THE LOWER DESIGN PRESSURE, OF MULLIONS OR FENESTRATION PRODUCTS, WILL APPLY TO THE OVERALL ASSEMBLY. FINAL DESIGN PRESSURE REQUIRES THAT THE BOTH THE MULLION AND THE FENESTRATION PRODUCT BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION SPECIFICATIONS INTO RESPECTIVE SUBSTRATES AND FENESTRATION PRODUCTS TO MULLION.

PGT®
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N. VENICE, FL 34275
P.O. BOX 1529
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FL CERT. OF AUTH.# 29296

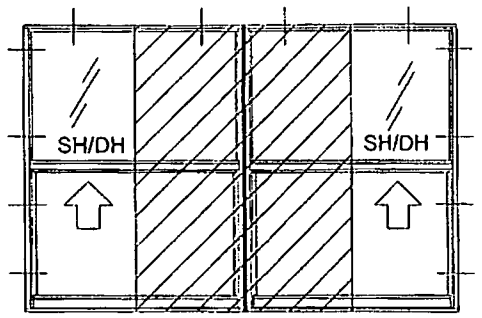
Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Description: EXAMPLES
Series: N/A
Scale: N/A
Date: 08/29/11
Drawn By: J ROSOWSKI
Rev. By: J ROSOWSKI
Drawing No. 6300JR
Checked By:
Date:
Revision: NO CHANGES THIS SHEET
Date: 07/15/13
Sheet: 21 of 22
Rev: A

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 13-0815.05
Expiration Date 05/26/2016
By
Miami Dade Product Control

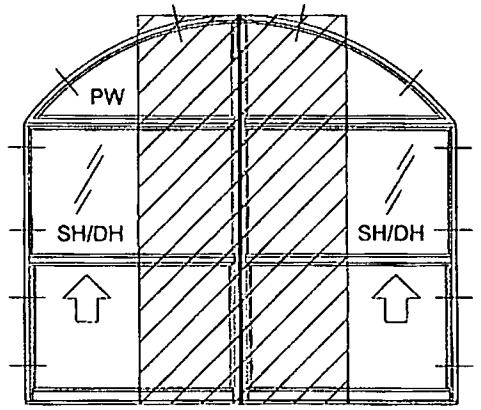
ANTHONY LYNN MILLER
LICENSE
No. 58705
10/15/13
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
FL P.E.# 58705

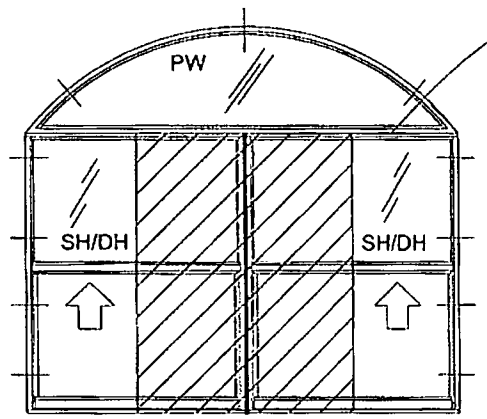
EXAMPLES OF RECTANGULAR LOADING:



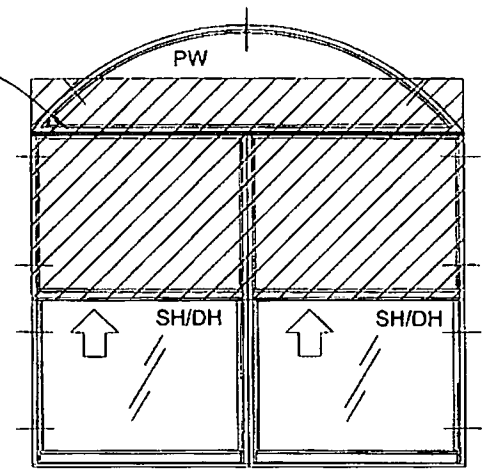
LOADING OF VERTICAL MULLION
SILL OF WINDOWS NOT ANCHORED



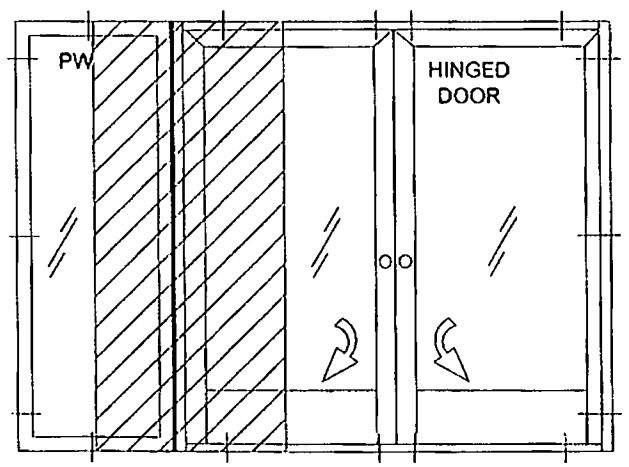
LOADING OF VERTICAL MULLION
WITH INTERSECTING HORIZONTAL MULLIONS



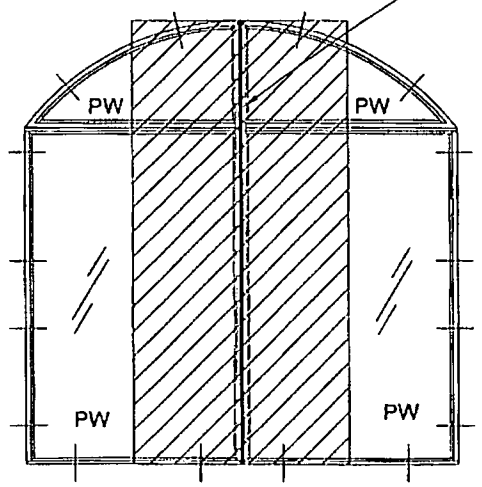
LOADING OF VERTICAL MULLION
SILL OF WINDOWS NOT ANCHORED



LOADING OF HORIZONTAL MULLION
WITH INTERSECTING VERTICAL MULLION

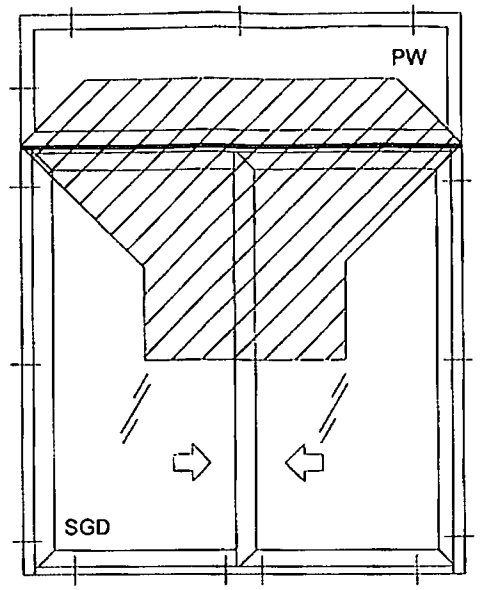


LOADING OF VERTICAL MULLION
PANEL OF HINGED DOOR IS NOT CAPTURED OR ANCHORED

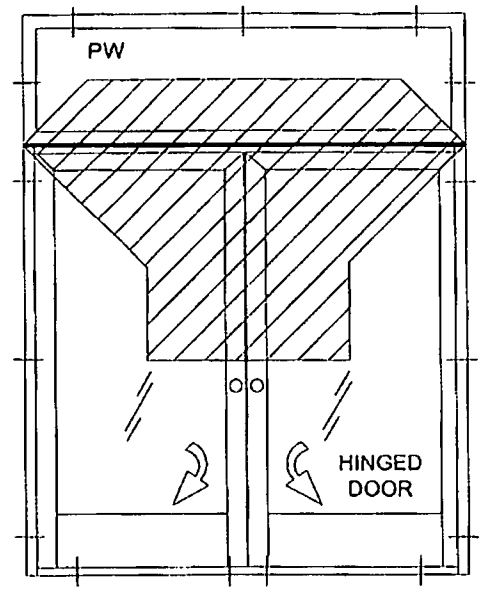


LOADING OF VERTICAL MULLION
WITH INTERSECTING HORIZONTAL MULLIONS

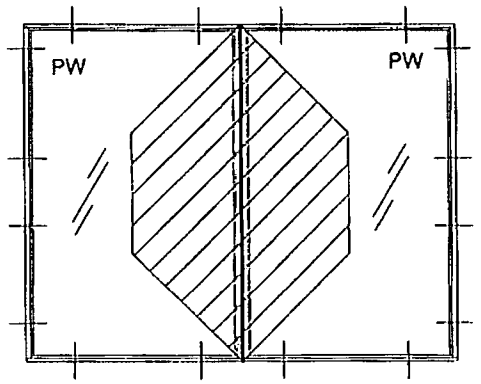
EXAMPLES OF TRAPEZOIDAL/TRIANGULAR LOADING:



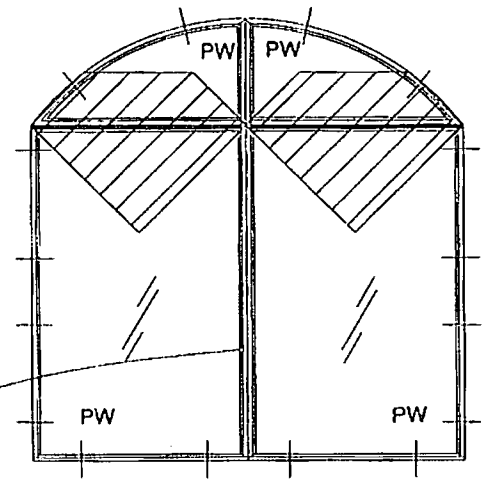
LOADING OF HORIZONTAL MULLION



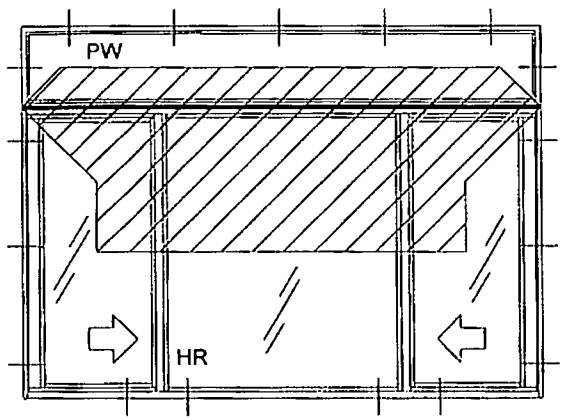
LOADING OF HORIZONTAL MULLION



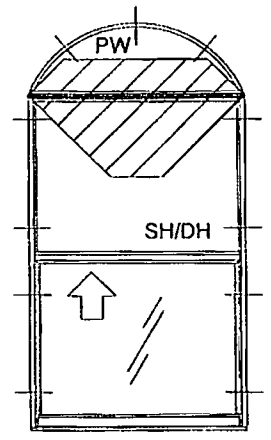
LOADING OF VERTICAL MULLION



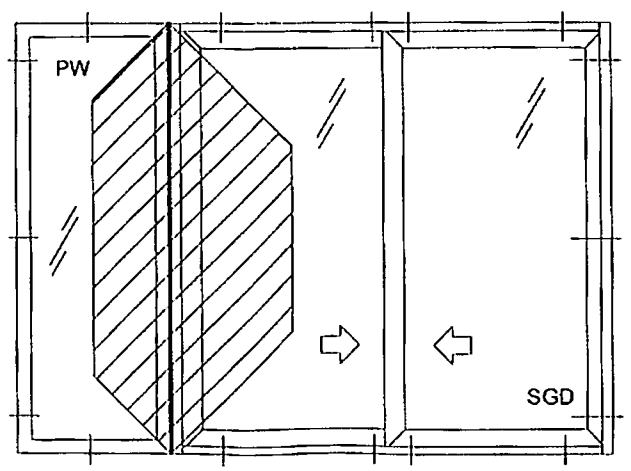
LOADING OF (2) HORIZONTAL MULLIONS



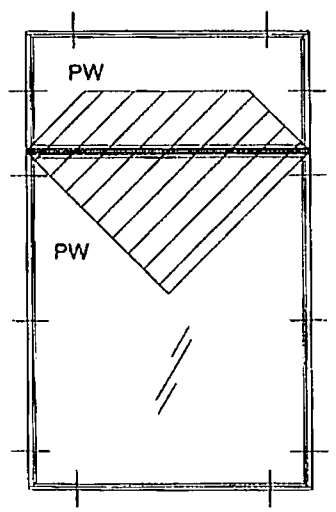
LOADING OF HORIZONTAL MULLION



LOADING OF HORIZONTAL
MULLION



LOADING OF VERTICAL
MULLION



LOADING OF HORIZONTAL
MULLION

NOTES:

1) DRAWINGS ARE RERESENTATIONS OF TYPICAL CONFIGURATIONS. CONFIGURATIONS NOT SHOWN MAY BE EXTRAPOLATED FROM THOSE SHOWN.

2) IF THE LOADING TYPE CANNOT BE DETERMINED, USE RECTANGULAR LOADING.

3) SEE PRODUCTS' APPROVAL FOR ACTUAL ANCHOR LOCATIONS.

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FL CERT. OF AUTH.# 29296

Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONIONS
Description: LOADING EXAMPLES
Series: N/A
Drawing No. 6300JR
Sheet: 22 of 22
Rev. A
Drawn By: J ROSOWSKI
Scale: N/A
Date: 08/29/11
Checked By:
Date:
Rev. By: J ROSOWSKI
Date: 07/15/13
Revision: NO CHANGES THIS SHEET

PRODUCT REVISED
is complying with the Florida
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Acceptance No 13-0815.04
Expiration Date 05/26/2016
By
Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
10/15/13
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
FL P.E.# 58705

NOTES: LARGE MISSILE WINDOWS

1. GLAZING OPTIONS:
   A. 7/8" LAMI I.G. GLASS COMPRISED OF (1) LITE OF 3/16" TEMPERED OR ANNEALED GLASS, AIRSPACE AND 5/16" LAMINATED GLASS WHICH IS COMPRISED OF (2) LITE OF 1/8" ANNEALED GLASS WITH AN .090 INTERLAYER OF DUPONT PVB.
   B. 1" LAMI I.G. GLASS COMPRISED OF (1) LITE OF 3/16" TEMPERED OR ANNEALED GLASS, AIRSPACE AND 5/16" LAMINATED GLASS WHICH IS COMPRISED OF (2) LITES OF 1/8" ANNEALED GLASS WITH AN .090 INTERLAYER OF DUPONT PVB.

2. DESIGN PRESSURE RATINGS: (SEE TABLE 1 AND NOTES BELOW)
   A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND ASTM E 1300-02 GLASS TABLES .
   B. POSITIVE DESIGN LOADS BASED ON TESTED PRESSURE, WATER TEST PRESSURE, AND ASTM E 1300-02 GLASS TABLES .

3. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CURRENT EDITION.

4. FOR ANCHORAGE INFORMATION SEE SHEETS 9 AND 10.

5. SHUTTER REQUIREMENT: NONE REQUIRED FOR UNITS LESS THAN 30'.

6. REFERENCES: TEST REPORTS, FTL-5712 & FTL-5729.
   ELCO TEXTRON NOA: 04-0721.01, 03-0225.05
   ANSI/AF&PA NDS-2005 FOR WOOD CONSTRUCTION

7. THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

NOA DRAWING TABLE OF CONTENTS

PRODUCT RENEWED
as complying with the Florida
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Expiration Date 01/05/2019
By
Miami Dade Product Control

TABLE 1. DESIGN PRESSURES (PSF)

GLASS TYPES: A. 7/8" LAMINATED INSULATED GLASS (3/16"A - AIRSPACE - 1/8"A., .090, 1/8"A.)
B. 1" LAMINATED INSULATED GLASS (3/16"A. - AIRSPACE 1/8"A., .090, 1/8"A.)

WINDOW HEIGHT	GLASS TYPE	WINDOW WIDTH 59.000		60.000		61.000		62.000	
44.000	A,B	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0
	AREA	18.03 SQ.FT.		18.33 SQ.FT.		18.64 SQ.FT.		18.94 SQ.FT.	
45.000	A,B	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+79.6	-79.6
	AREA	18.44 SQ.FT.		18.75 SQ.FT.		19.06 SQ.FT.		19.38 SQ.FT.	
46.000	A,B	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+78.5	-78.5
	AREA	18.85 SQ.FT.		19.17 SQ.FT.		19.49 SQ.FT.		19.81 SQ.FT.	
47.000	A,B	+80.0	-80.0	+79.9	-79.9	+79.0	-79.0	+77.4	-77.4
	AREA	19.26 SQ.FT.		19.58 SQ.FT.		19.91 SQ.FT.		20.24 SQ.FT.	
48.000	A,B	+80.0	-80.0	+78.8	-78.8	+78.0	-78.0	+76.3	-76.3
	AREA	19.67 SQ.FT.		20.00 SQ.FT.		20.33 SQ.FT.		20.67 SQ.FT.	

NOTE:
1. THE MAXIMUM ALLOWABLE DESIGN PRESSURE FOR 1/2 CIRCLES IS +/-80.0 PSF FOR ALL SIZES.
2. IF A TEMPERED CAP IS USED MAX. DP IS +/-50.0 PSF.

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ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
10/26/11
A. LYNN MILLER, P.E.
FL P.E.# 58705

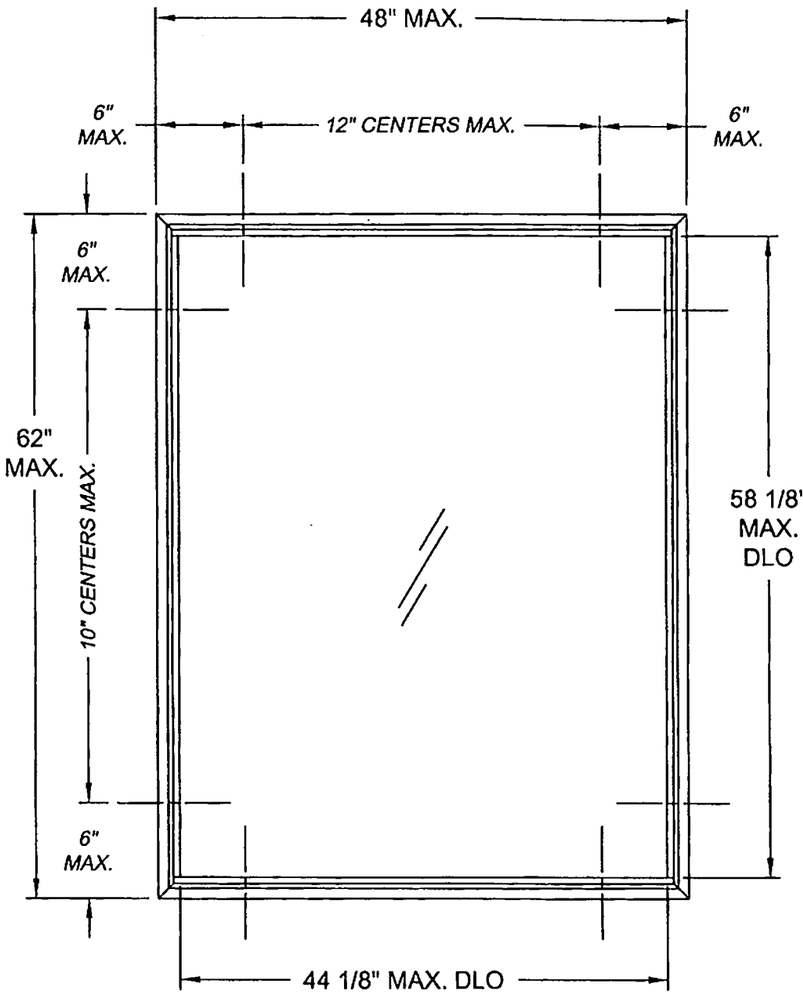
Revsd By:	Date:	Revisions:	
D.G.	11/25/08	A	PER MIAMI-DADE LETTER DATED 10/31/08
J.J.	10/18/11	B	FBC 2010 CODE CHANGE
Revsd By:	Date:	Revisions:	
Drawn By: D.G.	Date: 8/4/08	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

PGT Visibly Better

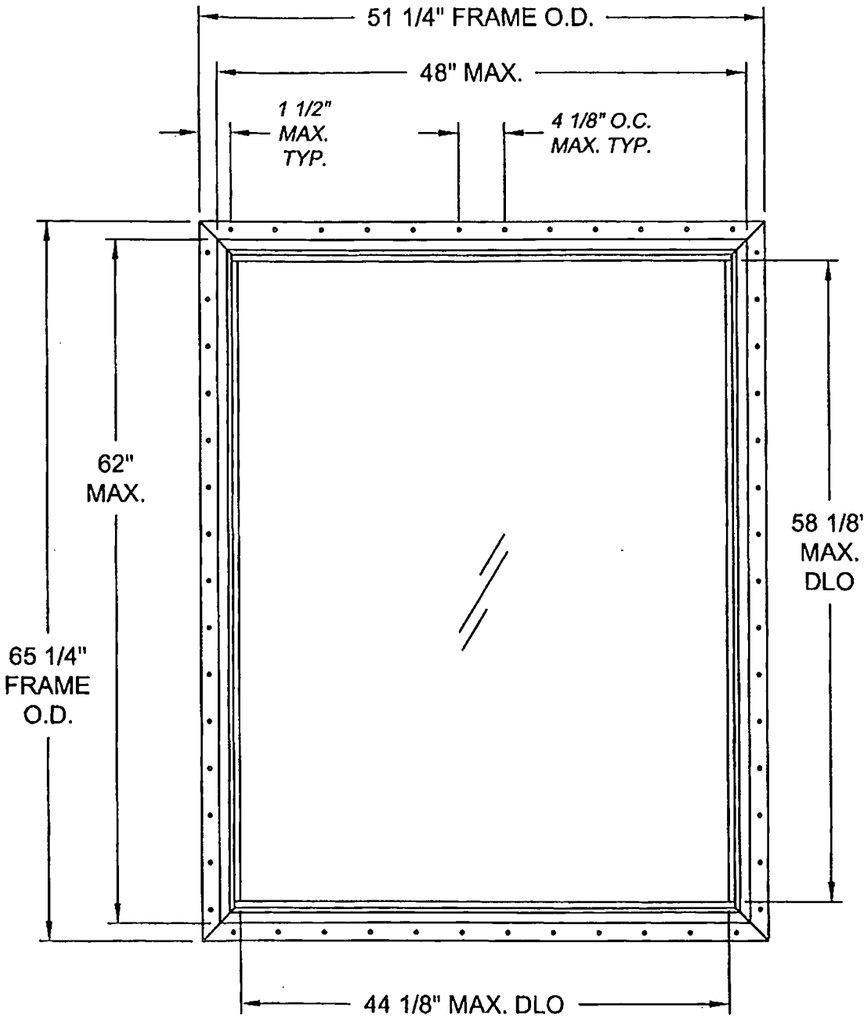
Description: NOTES, TABLE OF CONTENTS & PRESSURES
Title: Vinyl Picture Window, Large Missile Impact

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
PW-520	NTS	1 of 10	5190-1	B



BOX FRAME

MAX. SIZE = 48" X 62"



INTEGRAL FIN

MAX. SIZE = 48" X 62"

NOTE:

FOR ANCHORAGE INFORMATION SEE SHEETS 9 AND 10.

Revsd By:	Date:	Revisions:	
D.G.	11/25/08	A	PER MIAMI-DADE LETTER DATED 10/31/08
J.J.	10/18/11	B	NO CHANGE THIS SHEET
Drawn By: D.G.	Date: 8/04/08	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

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NOKOMIS, FL 34274

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Description: ELEVATIONS

Title: Vinyl Picture Window, Large Missile Impact

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
PW-520	NTS	2 of 10	5190-1	B

PRODUCT RENEWED
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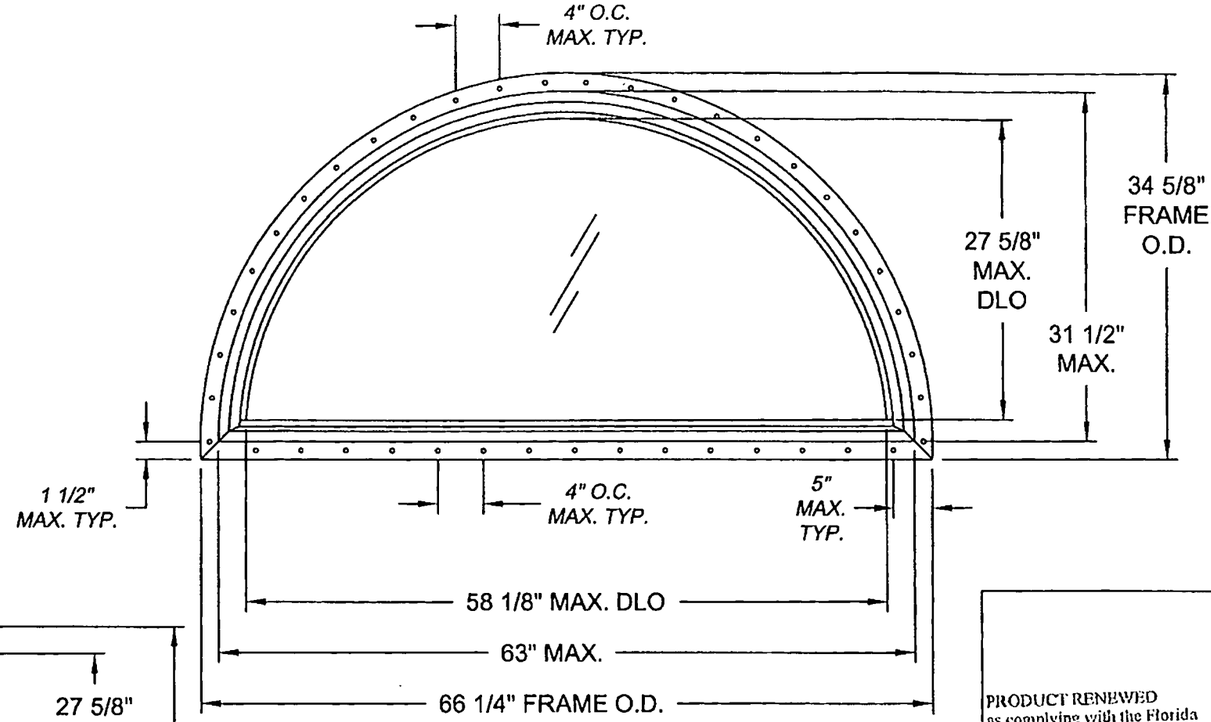
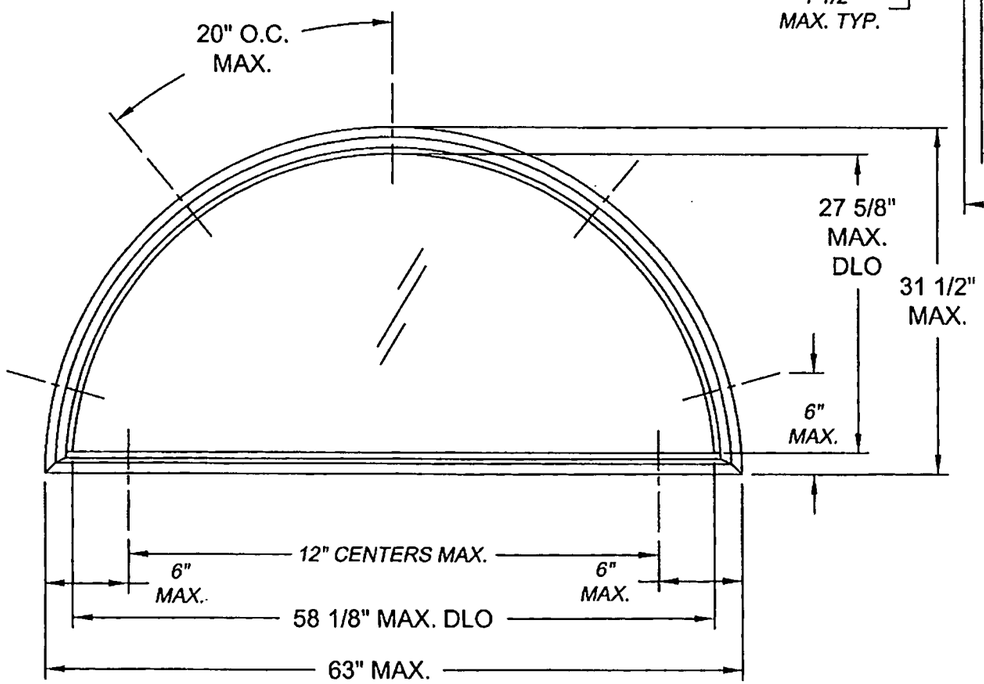
10/26/11

A. LYNN MILLER, P.E.
FL P.E.# 58705



HALF CIRCLE - INTEGRAL FIN

MAX. SIZE = 63" X 31.5"



HALF CIRCLE - BOX FRAME

MAX. SIZE = 63" X 31.5"

NOTE:

FOR ANCHORAGE INFORMATION SEE SHEETS 9 AND 10.

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FL P.E.# 58705

Revsd By:	Date:	Revisions:	
D.G.	11/25/08	A	PER MIAMI-DADE LETTER DATED 10/31/08
J.J.	10/18/11	B	NO CHANGE THIS SHEET
Revsd By:	Date:	Revisions:	
Drawn By: D.G.	Date: 8/04/08	Checked By:	Date:

1070 TECHNOLOGY DRIVE
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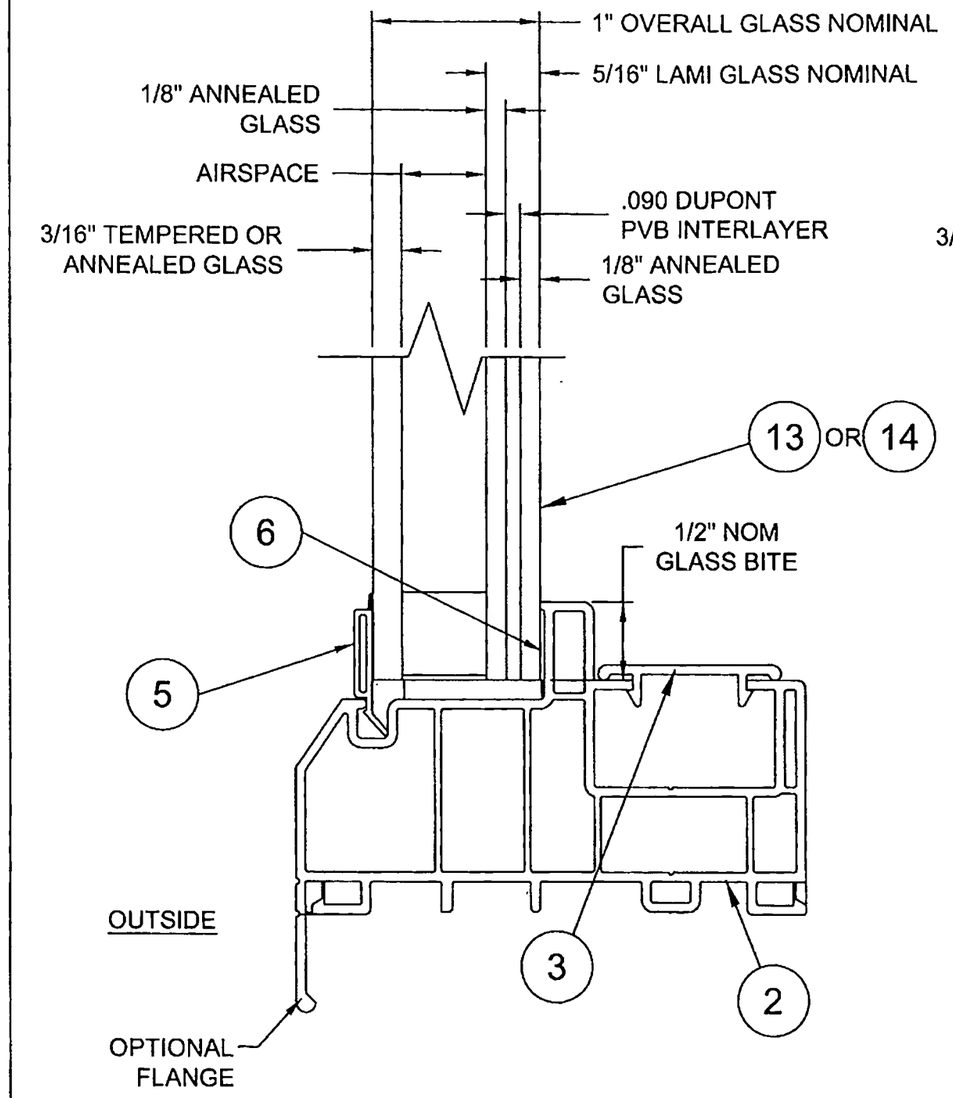
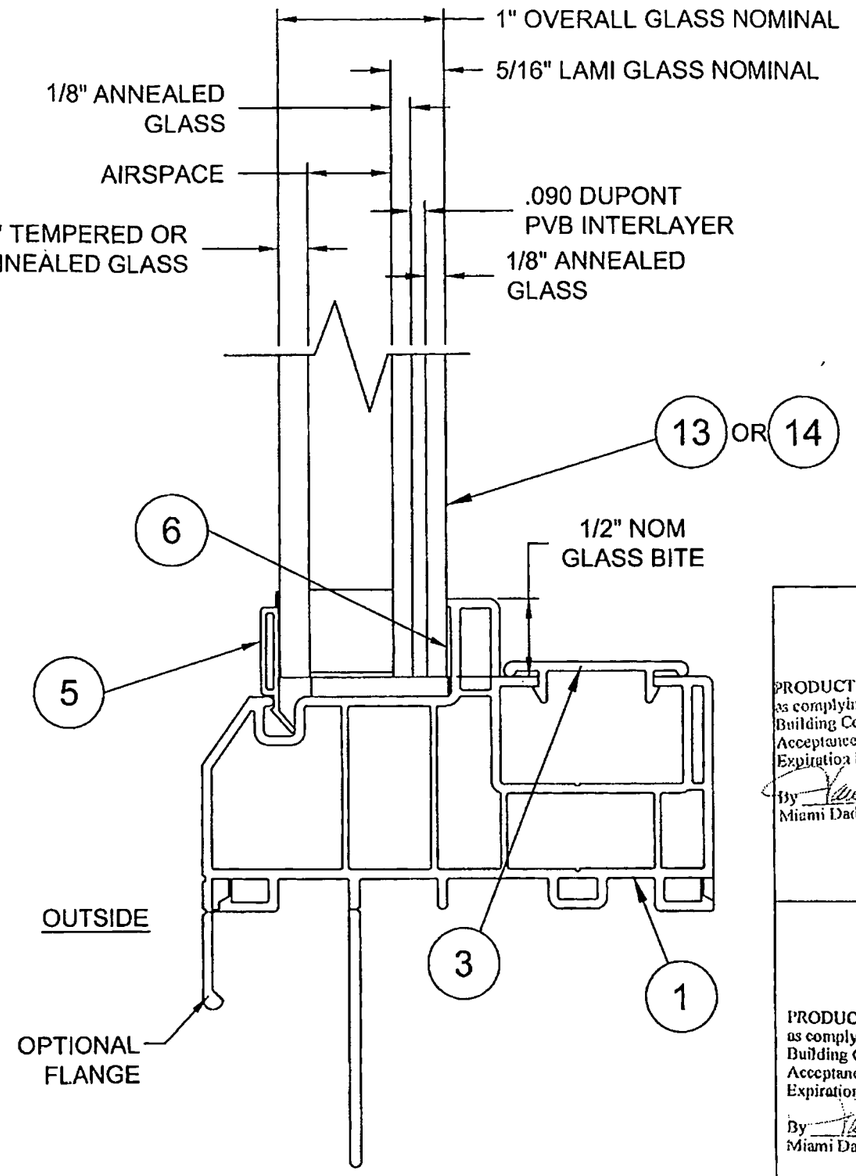
Description: ELEVATIONS
Title: Vinyl Picture Window, Large Missile Impact

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
PW-520	NTS	3 of 10	5190-1	B



1" LAMI I.G. GLAZING DETAIL
WITH 5/16" LAMI GLASS
BOX OR INTEGRAL FIN FRAME
(BOX FRAME SHOWN)



1" LAMI I.G. GLAZING DETAIL
WITH 5/16" LAMI GLASS
BOX OR INTEGRAL FIN FRAME
(INTEGRAL FIN FRAME SHOWN)

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D.G.	11/25/08	A	PER MIAMI-DADE LETTER DATED 10/31/08
J.J.	10/18/11	B	NO CHANGE THIS SHEET
Revsd By:	Date:	Revisions:	
Drawn By: D.G.	Date: 8/4/08	Checked By:	Date:

1070 TECHNOLOGY DRIVE
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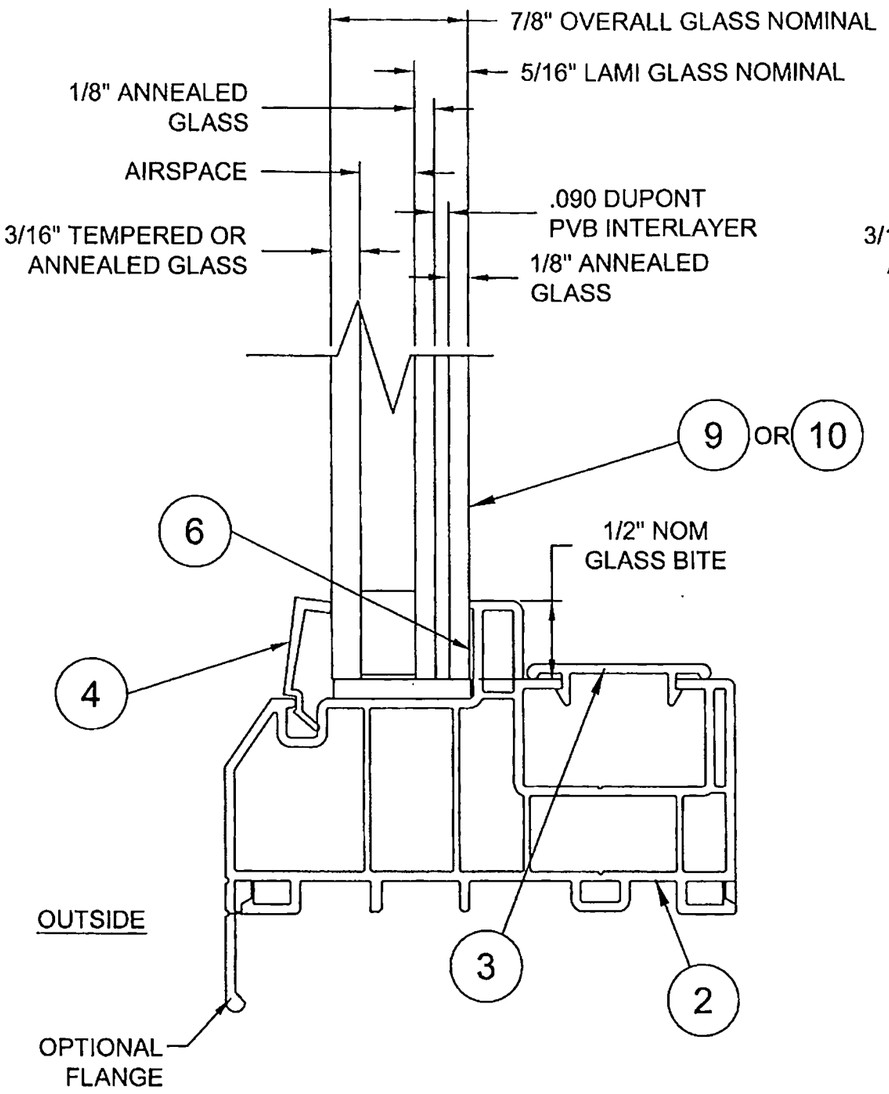
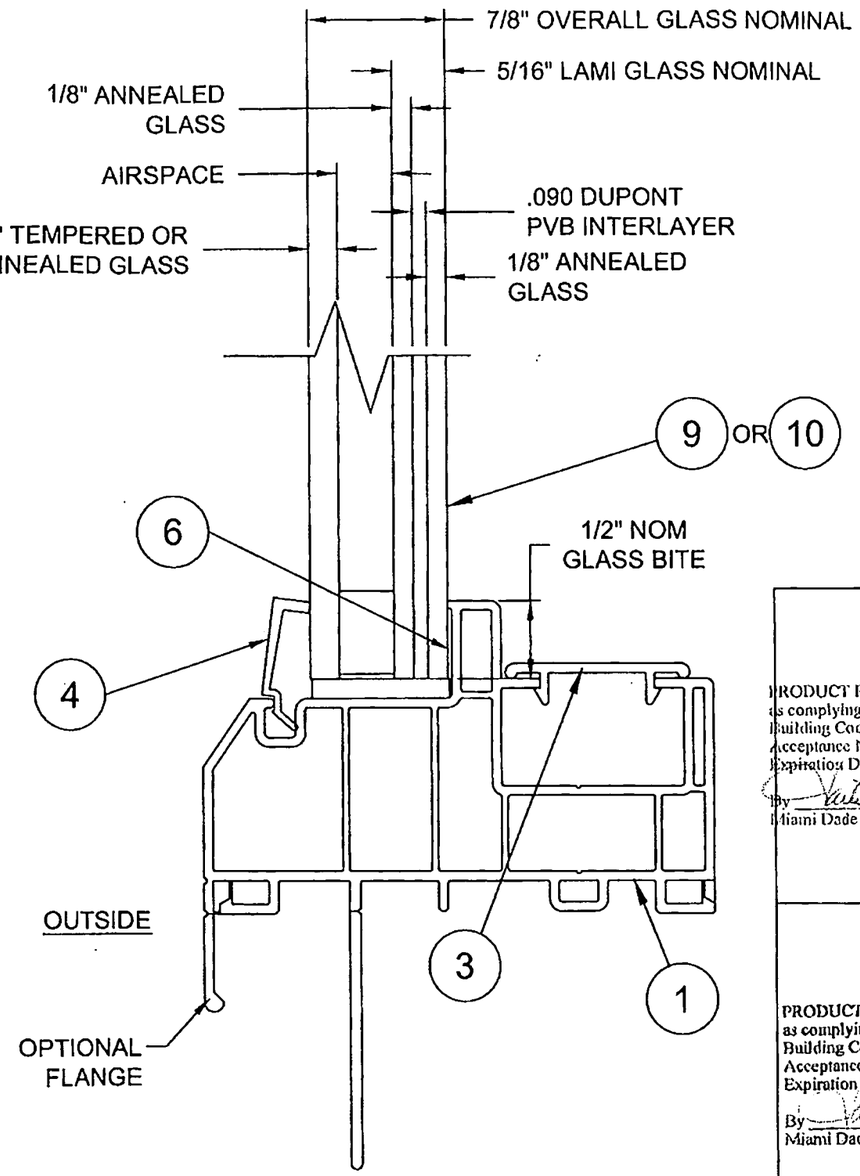
Description: GLAZING DETAILS
Title: Vinyl Picture Window, Large Missile Impact

Series/Model	Scale:	Sheet	Drawing No.	Rev.
PW-520	FULL	4 of 10	5190-1	B



7/8" LAMI I.G. GLAZING DETAIL
WITH 5/16" LAMI GLASS
BOX OR INTEGRAL FIN FRAME
(BOX FRAME SHOWN)



7/8" LAMI I.G. GLAZING DETAIL
WITH 5/16" LAMI GLASS
BOX OR INTEGRAL FIN FRAME
(INTEGRAL FIN FRAME SHOWN)

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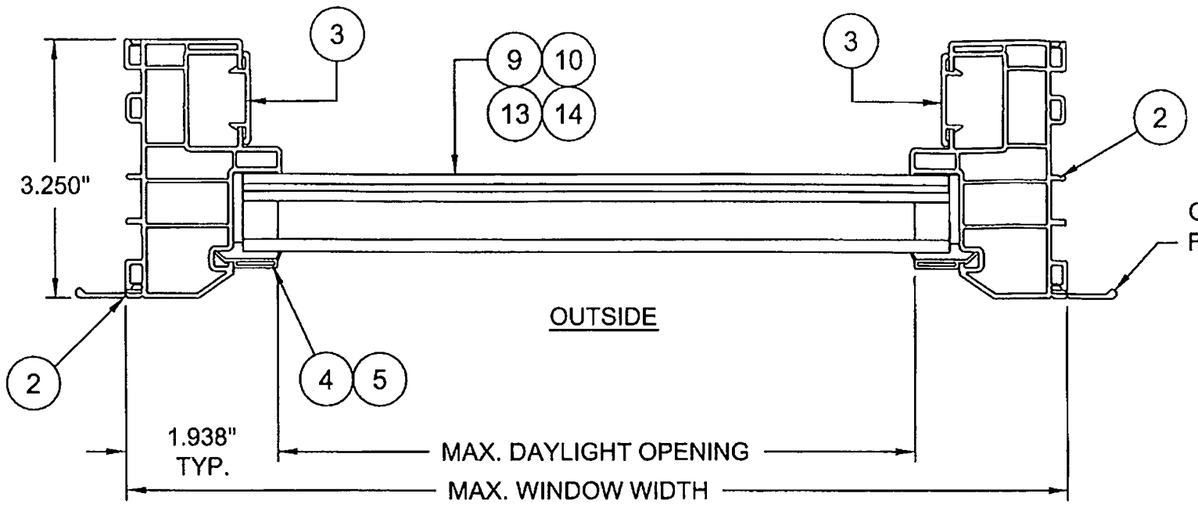
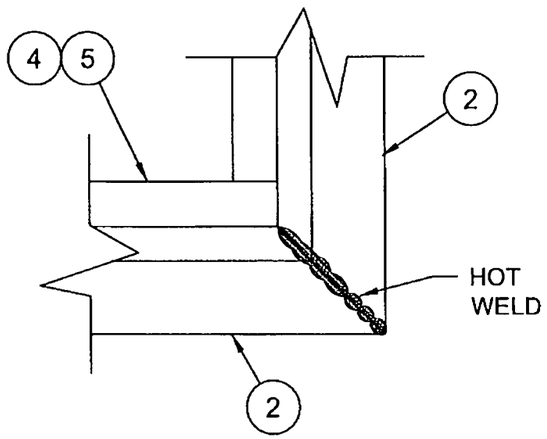
Title: Vinyl Picture Window, Large Missile Impact

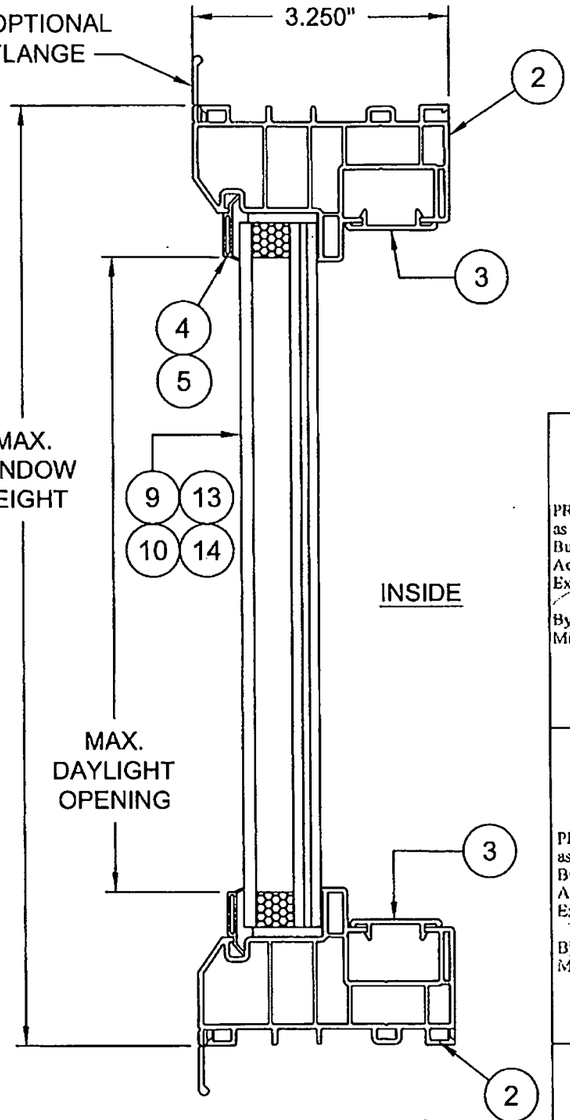
Series/Model	Scale:	Sheet:	Drawing No.	Rev:
PW-520	FULL	5 of 10	5190-1	B



HORIZONTAL SECTION
(BOX FRAME)



HOT WELD CORNER ASSEMBLY
(BOX FRAME)



VERTICAL SECTION
(BOX FRAME)

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 13-1009.04
Expiration Date 01/08/2019
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 11-1114.18
Expiration Date 01/08/2014
By
Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
10/26/11
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
FL P.E.# 58705

Revsd By:	Date:	Revisions:	
D.G.	11/25/08	A	PER MIAMI-DADE LETTER DATED 10/31/08
J.J.	10/18/11	B	NO CHANGE THIS SHEET
Revsd By:	Date:	Revisions:	
Drawn By: D.G.	Date: 8/04/08	Checked By:	Date:

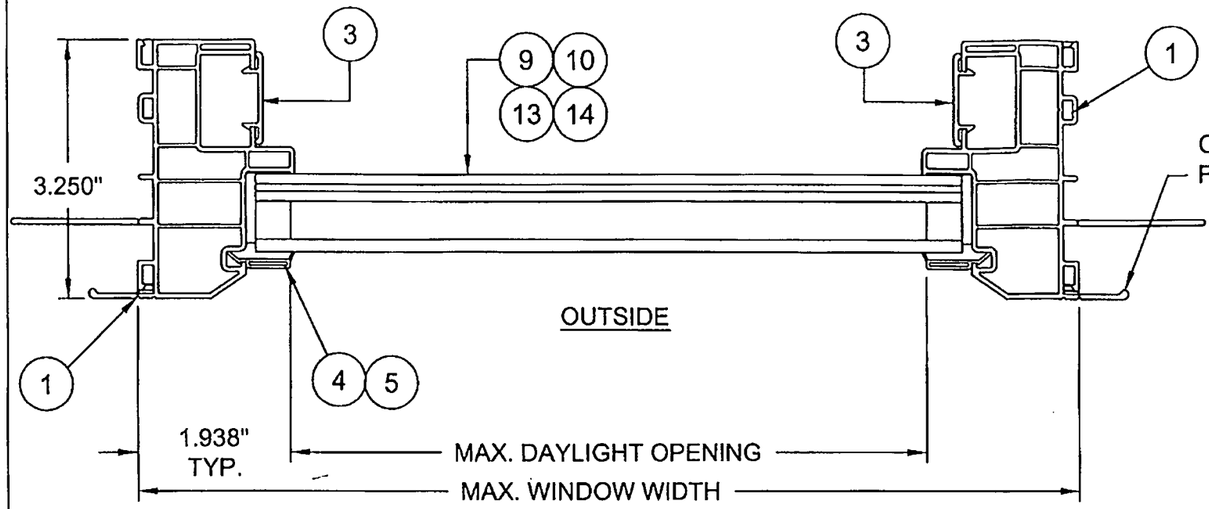
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

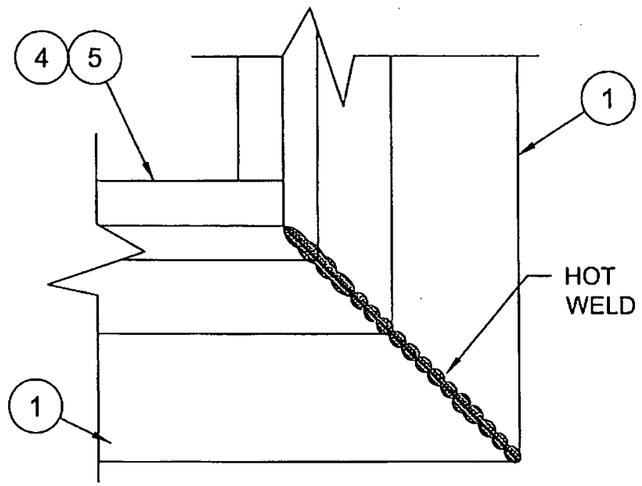
PGT
Visibly Better

Description: SECTIONS & CORNER ASS'Y, BOX FRAME
Title: Vinyl Picture Window, Large Missile Impact

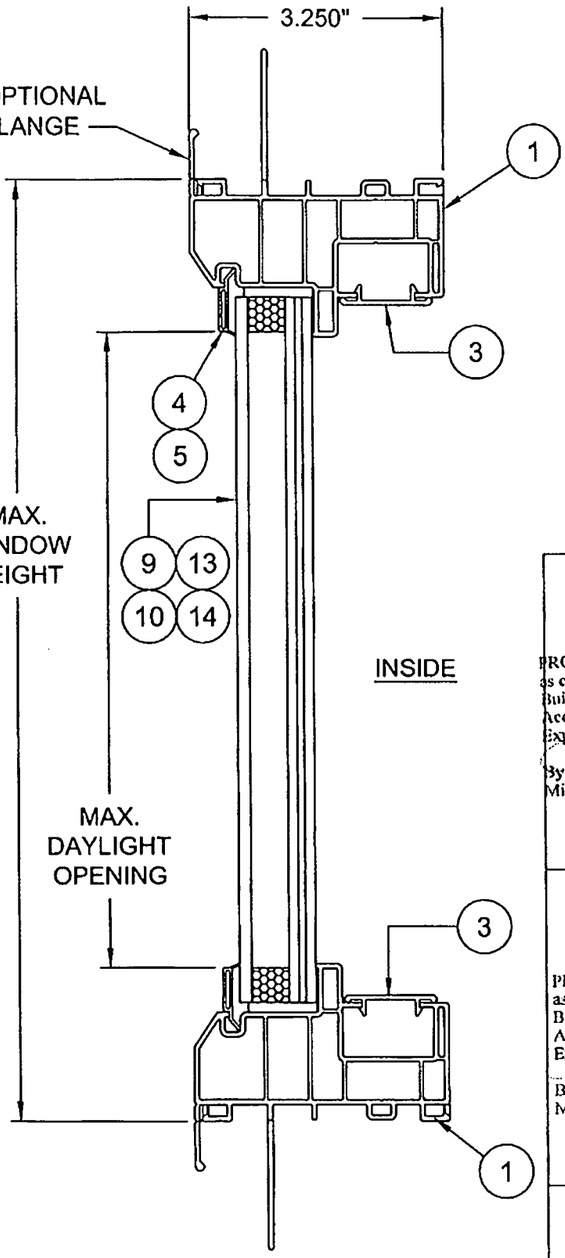
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
PW-520	HALF	6 of 10	5190-1	B



HORIZONTAL SECTION
(INTEGRAL FIN)



HOT WELD CORNER ASSEMBLY
(INTEGRAL FIN)



VERTICAL SECTION
(INTEGRAL FIN)

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ANTHONY LYNN MILLER
LICENSE
No. 58705
10/28/14
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
FL P.E.# 58705

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1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

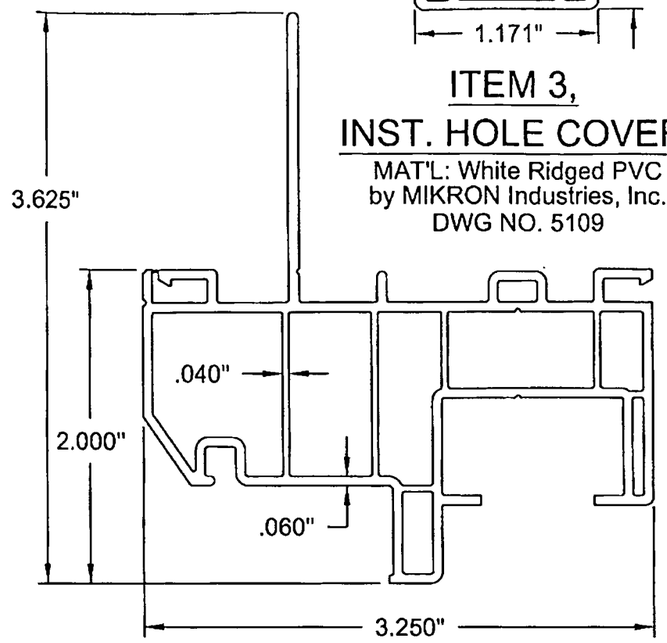
P.O. BOX 1529
NOKOMIS, FL 34274

PGT
Visibly Better

Description: SECTIONS, INTEGRAL FIN
Title: Vinyl Picture Window, Large Missile Impact

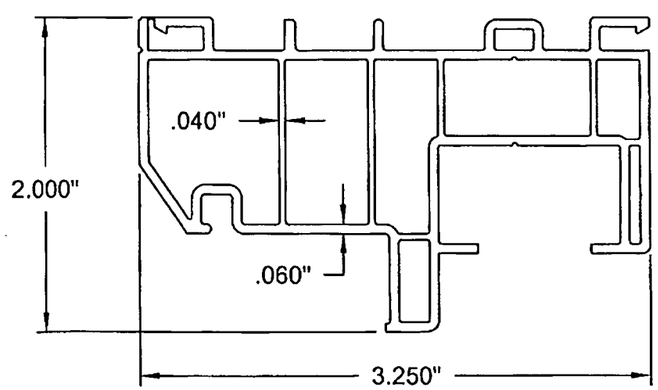
Series/Model	Scale:	Sheet	Drawing No.	Rev:
PW-520	HALF	7 of 10	5190-1	B

ITEM	DWG NO.	PART #	DESCRIPTION
1	5165	65165	INTEGRAL FIN FRAME HEAD, SILL & JAMB
2	5135	65135	BOX FRAME HEAD, SILL & JAMB
3	5109	65109	FILLER - INSTALL HOLE COVER
4	8483	65148	SDL 7/8" I.G. BEAD
5	6492	65112	STD 1" I.G. BEAD
6			DOW 1199 SILICONE
7			
8			
9			7/8" LAMI I.G. GLASS: 3/16" TEMPERED OUTBOARD - AIRSPACE - 1/8" ANNEALED - .090 PVB INTERLAYER - 1/8" ANNEALED (5/16" LAMI)
10			7/8" LAMI I.G. GLASS: 3/16" ANNEALED OUTBOARD - AIRSPACE - 1/8" ANNEALED - .090 PVB INTERLAYER - 1/8" ANNEALED (5/16" LAMI)
11			
12			
13			1" LAMI I.G. GLASS: 3/16" TEMPERED OUTBOARD - AIRSPACE - 1/8" ANNEALED - .090 PVB INTERLAYER - 1/8" ANNEALED (5/16" LAMI)
14			1" LAMI I.G. GLASS: 3/16" ANNEALED OUTBOARD - AIRSPACE - 1/8" ANNEALED - .090 PVB INTERLAYER - 1/8" ANNEALED (5/16" LAMI)



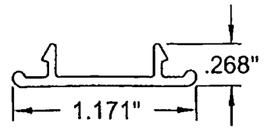
ITEM 1, INTEGRAL FIN FRAME

MAT'L: White Ridged PVC by MIKRON Industries, Inc.
DWG NO. 5165



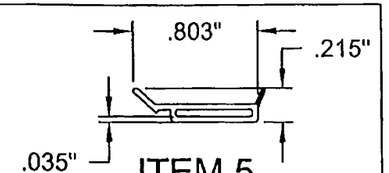
ITEM 2, BOX FRAME

MAT'L: White Ridged PVC by MIKRON Industries, Inc.
DWG NO. 5135



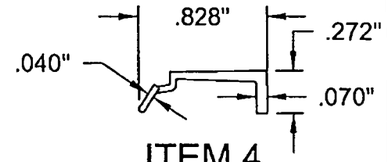
ITEM 3, INST. HOLE COVER

MAT'L: White Ridged PVC by MIKRON Industries, Inc.
DWG NO. 5109



ITEM 5, 1" I.G. BEAD

MAT'L: White Ridged PVC by MIKRON Industries, Inc.
DWG NO. 6492



ITEM 4, 7/8" SDL BEAD

MAT'L: White Ridged PVC by MIKRON Industries, Inc.
DWG NO. 8483

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By
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By
Miami Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
10/26/11
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
FL P.E.# 58705

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J.J.	10/18/11	B	NO CHANGE THIS SHEET
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Drawn By: D.G.	Date: 8/04/08	Checked By:	Date:

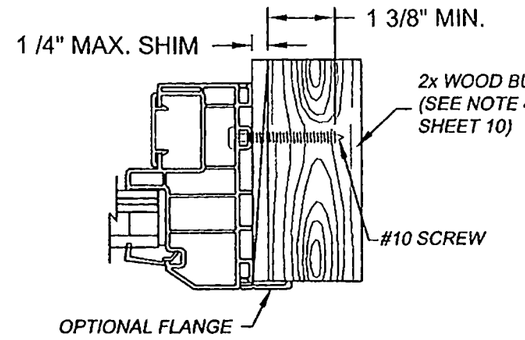
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274

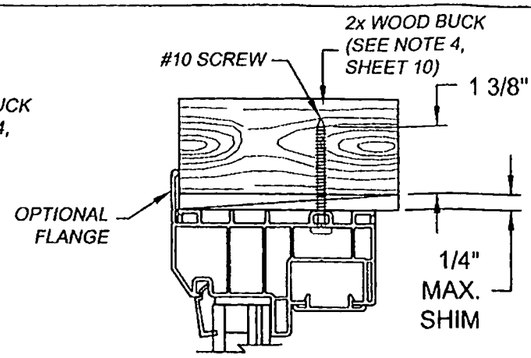
PGT Visibly Better

Description: EXTRUSION PROFILES & PARTS LIST
Title: Vinyl Picture Window, Large Missile Impact

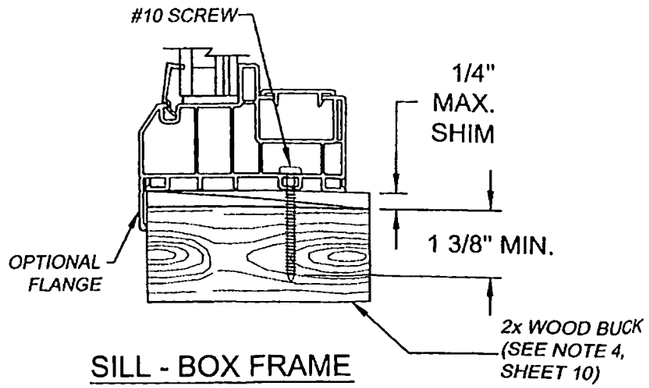
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
PW-520	HALF	8 of 10	5190-1	B



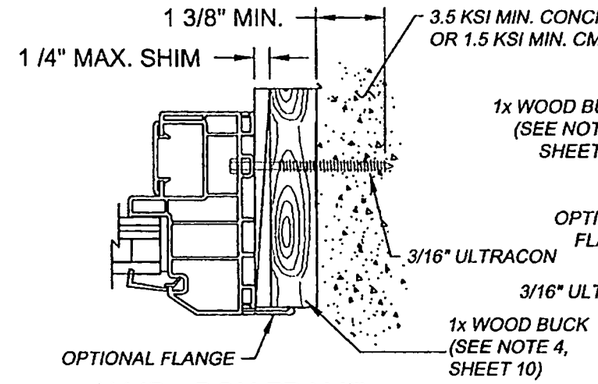
JAMB - BOX FRAME
THROUGH FRAME INTO 2x WOOD



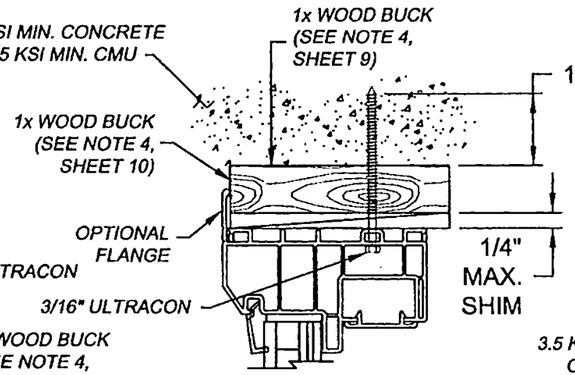
HEAD - BOX FRAME
THROUGH FRAME INTO 2x WOOD



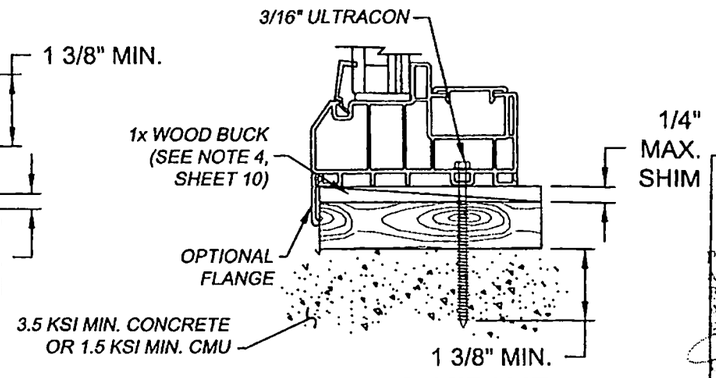
SILL - BOX FRAME
THROUGH FRAME INTO 2x WOOD



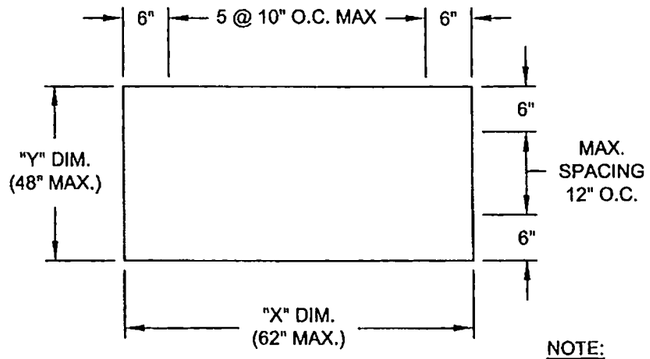
JAMB - BOX FRAME
THROUGH FRAME INTO CONCRETE
1x BUCK OPTIONAL



HEAD - BOX FRAME
THROUGH FRAME INTO CONCRETE
1x BUCK OPTIONAL



SILL - BOX FRAME
THROUGH FRAME INTO CONCRETE
1x BUCK OPTIONAL



* FOR WINDOWS LESS THAN 40", USE 12" ON CENTER DIMENSION.

NOTE:
1. FOR ALL 1/2 CIRCLES START ANCHORS 6" FROM THE CORNERS AND A MAX. OF 12" O.C..

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Drawn By: D.G.	Date: 8/04/08	Checked By:	Date:

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

PGT
Visibly Better

Description: ANCHORAGE DETAILS, BOX FRAME
Title: Vinyl Picture Window, Large Missile Impact

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
PW-520	NTS	9 of 10	5190-1	B

PRODUCT RENEWED
as complying with the Florida
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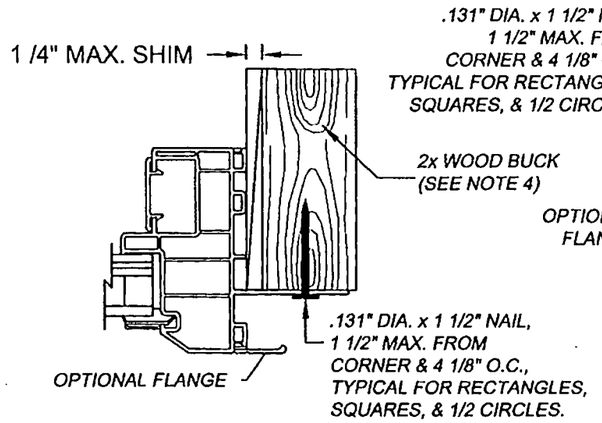
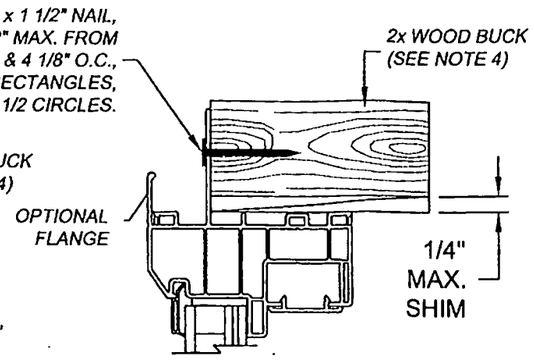
10/26/11

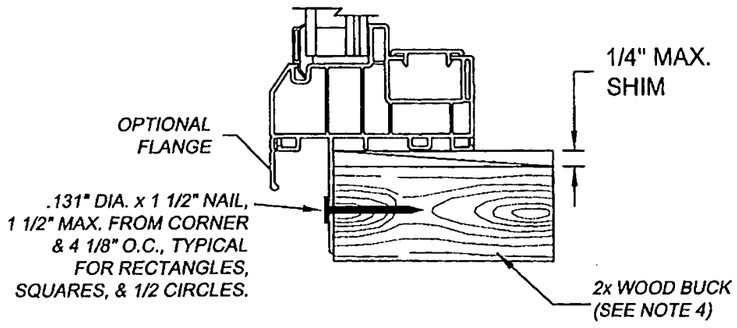
A. LYNN MILLER, P.E.
FL P.E.# 58705



JAMB W/ NAIL FIN
THRU NAIL FIN INTO WOOD FRAMING



HEAD W/ NAIL FIN
THRU NAIL FIN INTO WOOD FRAMING



SILL W/ NAIL FIN
THRU NAIL FIN INTO WOOD FRAMING

NOTES:

1. FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED 3/16" ULTRACON, EMBEDED 1 3/8" MIN., DISTANCE FROM ANCHOR TO CONCRETE EDGE IS 1" MINIMUM.
2. FOR WOOD APPLICATIONS IN MIAMI-DADE COUNTY, USE #10 STEEL SCREW, EMBEDED 1 3/8" MIN..
3. FOR INTEGRAL FIN APPLICATIONS IN MIAMI-DADE COUNTY, USE 1/8" DIA. x 1 1/2" NAIL.
4. WOOD BUCKS DEPICTED IN THE SECTIONS ON THIS PAGE AS 1x ARE BUCKS WHOSE TOTAL THICKNESS IS LESS THAN 1 1/2". 1x WOOD BUCKS ARE OPTIONAL IF UNIT CAN BE INSTALLED DIRECTLY TO SOLID CONCRETE. WOOD BUCKS DEPICTED AS 2x ARE 1 1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY AUTHORITY HAVING JURISDICTION.
5. FOR ATTACHMENT TO ALUMINUM: THE MATERIAL SHALL BE A MINIMUM STRENGTH OF 6063-T5 AND A MINIMUM OF 1/8" THICK. THE ALUMINUM STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE WINDOW FRAME SIMILAR TO THAT SHOWN IN THESE DETAILS FOR 2x WOOD BUCKS. THE ANCHOR SHALL BE A #10 SHEET METAL SCREW WITH FULL ENGAGEMENT INTO THE ALUMINUM. IF THESE CRITERIA ARE MET, THE RESPECTIVE DESIGN PRESSURES AND ANCHORAGE SPACING FOR ULTRACONS MAY BE USED.

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NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

PGT Visibly Better

Description: ANCHORAGE DETAILS, INTEGRAL FIN
Title: Vinyl Picture Window, Large Missile Impact

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
PW-520	NTS	10 of 10	5190-1	B

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

PGT Industries, Inc.
1070 Technology Drive
North Venice, FL 34275

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "PW-520 Vinyl" White PVC Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **5190-1** titled "Vinyl Picture Window, Large Missile Impact", sheets 01 through 10 of 10, prepared by manufacturer, dated 08/04/08 with the latest revision "**B**" dated 10/18/11, prepared by PGT Industries, Inc., signed and sealed by Anthony Lynn Miller, P. E., bearing the Miami-Dade County Product Control Section Renewal stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

REVISION of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews NOA No. 11-1114.18 and** consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**

REVIEWED AND APPROVED!

MIAMI-DADE COUNTY APPROVED

J. Gascon Architectural Studio, Inc.
11/5/13
Signature _____ Date 12/23/14

NOA No. 13-1009.04
Expiration Date: January 08, 2019
Approval Date: November 14, 2013

Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.

RE: 27951 - Batson Res

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:
Customer Info: Batson, Todd Project Name: Batson Residence Model:
Lot/Block: Subdivision:
Address: 3 Palmetto Drive
City: Stuart State: FL

Name Address and License # of Structural Engineer of Record, If there is one for the building.
Name: License #:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2010/TPI2007 Design Program: MiTek 20/20 7.5
Wind Code: ASCE 7-10 [All HeighII Wind Speed: 170 mph
Roof Load: 55.0 psf Floor Load: N/A psf

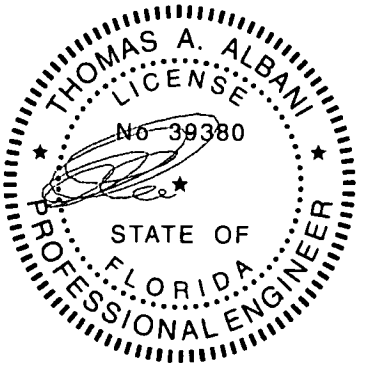
This package includes 90 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T6722222	~CJ1	12/30/014	18	T6722239	~HJ2A	12/30/014
2	T6722223	~CJ1A	12/30/014	19	T6722240	~HJ2B	12/30/014
3	T6722224	~CJ3	12/30/014	20	T6722241	~HJ2C	12/30/014
4	T6722225	~CJ3A	12/30/014	21	T6722242	~HJ3	12/30/014
5	T6722226	~CJ5	12/30/014	22	T6722243	~HJ4	12/30/014
6	T6722227	~EJ2	12/30/014	23	T6722244	~HJ5	12/30/014
7	T6722228	~EJ2A	12/30/014	24	T6722245	~HJ7	12/30/014
8	T6722229	~EJ2C	12/30/014	25	T6722246	A01G	12/30/014
9	T6722230	~EJ3A	12/30/014	26	T6722247	A02	12/30/014
10	T6722231	~EJ3B	12/30/014	27	T6722248	A03	12/30/014
11	T6722232	~EJ5	12/30/014	28	T6722249	A04G	12/30/014
12	T6722233	~EJ5A	12/30/014	29	T6722250	A05G	12/30/014
13	T6722234	~EJ5C	12/30/014	30	T6722251	A06	12/30/014
14	T6722235	~EJ5D	12/30/014	31	T6722252	A07G	12/30/014
15	T6722236	~EJ5E	12/30/014	32	T6722253	B01G	12/30/014
16	T6722237	~EJ7	12/30/014	33	T6722254	B02	12/30/014
17	T6722238	~HJ2	12/30/014	34	T6722255	B03	12/30/014

The truss drawing(s) referenced above have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by East Coast Truss.

Truss Design Engineer's Name: Albani, Thomas
My license renewal date for the state of Florida is February 28, 2017.

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.



FL Cert. 6634

December 30,2014

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- A/V Equipment
- Plasmas
- Generators
- Control4 Automation

November 4th, 2015

Town of Sewalls Point

One South Sewall's Point Road

Sewalls Point, FL 34996

RECEIVED
NOV - 9 2015
Sewall's Point Town Hall

Re: 3 Palmetto Drive Sewalls Point, FL 34996

All doors and windows providing direct access from the home to the pool are equipped with an exit alarm complying with UL 2017 that has a minimum sound pressure rating of 85dB A at 10 feet (3048 mm). Any deactivation switches are located at least 54 inches (1372) mm) above the threshold of the access. Alarms for each door or window are sensors wired to a central alarm sound when contact is broken at any opening.

Mark Lurtz - Qualifier

EC 13002784

STATE OF FLORIDA

COUNTY OF PALM BEACH

Sworn to or affirmed and subscribed before me this 6th day of November by A. Medina who is personally known by me.

Notary Public

(Seal)

ANNETTY MEDINA
MY COMMISSION #FF167951
EXPIRES October 12, 2018
(407) 398-0153 FloridaNotaryService.com

MIAMI-DADE COUNTY
DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

NOTICE OF ACCEPTANCE (NOA)

Clopay Building Products Company
8585 Duke Boulevard
Mason, OH 45040

SCOPE: This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

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This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Steel Pan Sectional Garage Door up to 9'-0" Wide with Impact Lites

APPROVAL DOCUMENT: Drawing No. **103547**, titled "Single Car W8 Pan Door with Impact Resistant Lites", dated 10/23/2006, with last revision dated 12/15/2011, sheet 1 of 1, prepared by Clopay Building Products Company, signed and sealed by Scott Hamilton, P.E., bearing the Miami-Dade County Product Control renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: A permanent label with the manufacturer's name or logo, manufacturing address, model number, the positive and negative design pressure rating, indicate impact rated if applicable, installation instruction drawing reference number, approval number (NOA), the applicable test standards, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on the door's side track, bottom angle, or inner surface of a panel.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

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LIMITATION: This approval requires the manufacturer to test all coils used to fabricate door panels under this Notice of Acceptance. A minimum of 2 specimens shall be cut from each coil and tensile tested according to ASTM E-8 by a Miami Dade County approved laboratory selected and paid by the manufacturer. Every 3 months, four times a year, the manufacturer shall mail to this office: a copy of the test reports with confirmation that the specimen were selected from coils at the manufacturer production facilities and a notarized statement from the manufacturer that only coils with yield strength of 30,600 psi or more shall be used to make door panels under this NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews NOA # 07-1120.06** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**

MIAMI-DADE COUNTY APPROVED

02/23/2012

NOA No 12-0105.01
Expiration Date: February 21, 2017
Approval Date: March 1, 2012
Page 1

REVIEWED AND APPROVED!

Architectural Studio, Inc.

Signature _____ Date 12/23/14

Clopay Building Products Company

NOTICE OF ACCEPTANCE: - EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **103547**, titled "Single Car W8 Pan Door with Impact Resistant Lites", dated 10/23/2006, with last revision dated 12/15/2011, sheet 1 of 1, prepared by Clopay Building Products Company, signed and sealed by Scott Hamilton, P.E.

B. TESTS *"Submitted under NOA # 06-1107.02"*

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202
   2) Large Missile Impact Test per FBC, TAS 201
   3) Cyclic Wind Pressure Loading per FBC, TAS 203

   along with marked-up drawings and installation diagram of Clopay 9'x 8' 24 ga. Steel Door, Model 94W8, prepared by American Testing Lab, Inc., Test Report No. **ATLNC 1008.01-07**, dated 11/05/2007, signed and sealed by David W. Johnson, P.E.

"Submitted under NOA # 06-1107.02"

2. Test report on Accelerated Weathering Using Xenon Arc Light Apparatus, per ASTM G 155, Test Report No. **HETI-06-A002,** prepared by Hurricane Engineering and Testing, Inc, dated 11/08/2006, signed and sealed by Rafael E. Droz-Seda, P.E.
3. Tensile Test on GE Lexan SLX2432T, per ASTM D 638 and ASTM E 8, Test Reports No. **HETI-06-T566** and **HETI-06-T634,** prepared by Hurricane Engineering and Testing, Inc., dated 07/14/2006 and 11/08/2006, signed and sealed by Rafael E. Droz-Seda, P.E.
4. Test report on Self-Ignition Temperature (ASTM D 1929), Rate of Burn (ASTM D 635) and Smoke Density (ASTM D 2843), Test Report No. **ETC-06-1024-17496.0,** dated 05/26/2006, signed and sealed by Joseph L. Doldan, P.E.

C. CALCULATIONS *"Submitted under NOA # 06-1107.02"*

1. Anchoring calculations prepared by Clopay Building Products Company, dated 10/24/2006, signed and sealed by Scott Hamilton, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

E. MATERIAL CERTIFICATIONS

1. Tensile tests on Painted Embossed Steel, per ASTM E 8, Test Reports No. **HETI-06-T596, T597** and **T598,** dated 08/24/2006, signed by Rafael E. Droz-Seda, P.E.
2. Salt Spray Exposure Test Report No. **30160-04-63365**, prepared by Stork Twin City Testing Corporation, dated 01/26/2005, signed by John D. Lee, P.E.

F. STATEMENTS

1. Statement letter of code conformance with 2007 and 2010 FBC, issued by Clopay Building Products Company, dated 02/17/2012, signed and sealed by Scott Hamilton, P.E.
2. Statement letter of no financial interest issued by Clopay Building Products Company, dated 01/04/2012, signed and sealed by Scott Hamilton, P.E.

02/23/2012

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No 12-0105.01
Expiration Date: February 21, 2017
Approval Date: March 1, 2012

CLOPAY MODELS 84A, 94, 98, H94
IDEAL MODELS: 4RST, H4ST, 4F
HOLMES MODELS: 48, 480

END STILES ATTACHED TO DOOR SKIN WITH PATENTED TOG-L-LOC SYSTEM. END STILES HAVE (2) TOG-L-LOC CLINCHES AT TOP AND (3) AT BOTTOM. ALONG THE FRONT FACE:
- 21" SECTIONS HAVE (6) TOG-L-LOC CLINCHES.
- 18" SECTIONS HAVE (4) TOG-L-LOC CLINCHES.

(1) INTERMEDIATE STILE BETWEEN EACH EMBOSS, ATTACHED WITH TOG-L-LOC (2) AT TOP & BOTTOM AND URETHANE ADHESIVE (ALONG CENTER).

ONE ROW OF IMPACT-RESISTANT GLAZING IN EITHER TOP SECTION (SHOWN) OR INLET-TO-THE-TOP SECTION (NOT SHOWN). MAX. GLAZING SIZE IS 18-1/2" x 11". GLAZING IS INJECTION MOLDED OF LEXAN SLX34327, AN APPROVED CC2 PLASTIC IN ACCORDANCE WITH ANSI/ASC Z97.1. SEE SECTION B-B FOR ASSEMBLY DETAILS.

SEE INTERMED. HINGE DETAIL.

SEE END HINGE DETAIL

LOCK PORTION (BOTH SIDES). SEE LAYOUT OF EACH LOCK FOR DETAILS.

INSTALLER DETAIL NUMBER		
WOOD 84A, 48, 4RST, H4ST	84A, 48	WOODGRAIN TEXTURE, RAISED PANEL, GALV. INTER. STILES
ALL "4"	-	WOODGRAIN TEXTURE, FLUSH PANEL, GALV. INTER. STILES

LOCATION OF OPTIONAL VENTS
MAX. DOOR WIDTH = 9'-0"
MAX. DOOR HEIGHT = 16'-0"

SECTION B-B

DETAIL 'A'

OPTIONAL DECORATIVE SNAP-IN INSERT.

MULTIPURPOSE HIGH BOND TAPE.

OPTIONAL DECORATIVE FRONT FRAME FACADE.

OR EXCEEDING STRUCTURAL SILICONE SEALANT.

6188

SURFACE RESISTANCE ONE-PIECE INJECTION MOLDED OF LEXAN SLX34327 FRONT FRAME & GLAZING.

POLYETHYLENE FOAMSEAL FASTENED TO FRAME WITH (10) #8 x 3/4" PAN HEAD MACHINE SCREWS.

DOOR HEIGHT	NUMBER OF SECTIONS *
80" TO 7'0"	4
7'0" TO 8'0"	5
8'0" TO 9'0"	6
9'0" TO 10'3"	7
10'3" TO 11'0"	8
11'0" TO 11'9"	9
11'9"	10

* SECTIONS ARE EITHER 18" OR 21"

THIS DOOR MEETS THE REQUIREMENTS OF THE LARGE MISSILE IMPACT AND CYCLIC TESTING.

REV	DATE	DESCRIPTION
00	10/2006	INITIAL RELEASE
01	02/12/07	"MULTIPURPOSE" HIGH BOND WAS HMB. FACADE IS OPTIONAL
02	11/14/07	REMOVED RIVETS/SCREWS FROM END STILE.
03	12/12/13	INCREASED MAX. HT.

TRACK CONFIGURATION

HORIZONTAL TRACK SUPPORT BY DOOR INSTALLER (TO SUIT).
CENTER HANG REQUIRED FOR DOORS OVER 8' HIGH.

LIGHT TOP BRACKET
DOUBLE HORIZONTAL TRACK
DOUBLE TRACK FOR HORIZONTAL OPTION

VERTICAL TRACK ATTACHED TO FLAG BRACKET WITH (1) 3/8"-3/4" CARRIAGE BOLT.

13 GA. GALV. STEEL FLAG BRACKET, EACH FASTENED TO WOOD JAMB WITH (2) 5/16"x1-1/2" WOOD LAG SCREWS.

VERTICAL TRACK ATTACHED TO HORIZONTAL TRACK WITH (2) 1/4"x3/4" MACH BOLTS.

2" GALV. STEEL TRACK, TRACK THICKNESS: 0.060".

TYP. 3-1/2"x12 GA. GALV STEEL TRACK BRACKET.

OPENING HEIGHT = DOOR HEIGHT + 7"

DOOR HEIGHT	BRACKET SPACING							
	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"
7'-0"	24"	1-1/2"	10"	34"	34"	-	-	-
7'-3"	24"	1-1/2"	10"	34"	34"	-	-	-
7'-6"	24"	1-1/2"	10"	34"	34"	-	-	-
7'-9"	24"	1-1/2"	10"	34"	34"	-	-	-
8'-0"	24"	1-1/2"	10"	34"	34"	-	-	-
8'-3"	24"	1-1/2"	10"	34"	34"	-	-	-
8'-6"	24"	1-1/2"	10"	34"	34"	-	-	-
8'-9"	24"	1-1/2"	10"	34"	34"	-	-	-
9'-0"	24"	1-1/2"	10"	34"	34"	-	-	-
9'-3"	24"	1-1/2"	10"	34"	34"	-	-	-
9'-6"	24"	1-1/2"	10"	34"	34"	-	-	-
9'-9"	24"	1-1/2"	10"	34"	34"	-	-	-
10'-0"	24"	1-1/2"	10"	34"	34"	-	-	-
10'-3"	24"	1-1/2"	10"	34"	34"	-	-	-
10'-6"	24"	1-1/2"	10"	34"	34"	-	-	-
10'-9"	24"	1-1/2"	10"	34"	34"	-	-	-
11'-0"	24"	1-1/2"	10"	34"	34"	-	-	-
11'-3"	24"	1-1/2"	10"	34"	34"	-	-	-
11'-6"	24"	1-1/2"	10"	34"	34"	-	-	-
11'-9"	24"	1-1/2"	10"	34"	34"	-	-	-
12'-0"	24"	1-1/2"	10"	34"	34"	-	-	-

PREPARATION OF JAMBS BY OTHERS

NOTE: THE DESIGN OF THE SUPPORTING STRUCTURAL ELEMENTS SHALL BE THE RESPONSIBILITY OF THE PROFESSIONAL OF RECORD FOR THE BUILDING OR STRUCTURE AND IN ACCORDANCE WITH CURRENT BUILDING CODES FOR THE LOADS LISTED ON THIS DRAWING.

INSIDE ELEVATION

SNAP LATCH ENGAGES ONTO VERTICAL TRACK. ONE SNAP LATCH ON EACH SIDE OF DOOR.

INTER. STILE
OUTSIDE KEYED HANDLE
END STILE
INSIDE HANDLE
OUTSIDE HANDLE
END STILE
LOCK BAR ENGAGES IN TRACK ON EACH SIDE OF DOOR.

OUTSIDE KEYED LOCK SNAP LATCH LOCK OPTION

OUTSIDE KEYED LOCK T-BAR LOCK OPTION

END STILE
SLIDE BOLT LOCK ENGAGES INTO VERTICAL TRACK. ONE LOCK ON EACH SIDE OF DOOR.

INSIDE SLIDE BOLT LOCK OPTION

2-3/4"
2-1/4"
(2) #14x5/8" SHEET METAL SCREWS
7-1/2"
7-1/2"
(1) 1/4"x3/4" SELF TAPPING SCREWS
14 GA. END HINGES MIN. W
18 GA. INTERMEDIATE HINGE MIN. W

JAMB CONFIGURATION

STOP MOULDING BY DOOR INSTALLER (TO SUIT)
20 GA. MIN. GALV. STEEL END STILE, 2-5/8"x2".
20 GA. MIN. GALV. STEEL, INTERM. STILE, 2"x2".
12 GA. GALV. STEEL TRACK BRACKET FASTENED TO WOOD JAMB WITH ONE 5/16"x3-1/2" WOOD LAG SCREW PER BRACKET.
3" GALV. STEEL TRACK FASTENED TO TRACK BRACKETS. EACH BRACKET ATTACHED WITH ONE 1/4"x3/8" BOLT & NUT OR TWO 1/4" RIVETS.
7/16" ROUND PUSHNUT IS INSTALLED ON EACH ROLLER SHAFT.
16 GA. GALV. STEEL W/LD. HINGE FASTENED TO CENTER STILE W/(4) EACH #14x3/8" SHEET METAL SCREWS.
14 GA. GALV. STEEL END HINGE FASTENED TO END STILES W/(4) EACH #14x5/8" SHEET METAL SCREWS & (1) 1/4" SELF TAPPING SCREW.
3" 10 BALL STEEL ROLLER (1-3/16"x7/16"x1") WITH STEEL OR NYLON TIRE.

SECTION A-A

24 GA. (0.023" MIN. THICK) DDS STEEL EXTERIOR SKIN WITH G-40 GALVANIZING, BAKED-ON PRIMER AND A BAKED-ON POLYESTER PAINTED TOP COAT APPLIED TO BOTH SIDES OF STEEL SKIN. (ASTM No. A653).

3" THICK

SHIP LAP JOINTS.

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No. 12-0105.01
Expiration Date 02/21/2017
By
Miami-Dade Product Control

12 GA. GALV. STEEL TOP ROLLER BRACKET (3-1/2" x 3-3/8"). EACH BRACKET ATTACHED W/(4) #14x3/8" SHEET METAL SCREWS.

14 GA. GALV. STEEL END HINGE. EACH FASTENED TO END STILES W/(4) #14x5/8" SHEET METAL SCREWS & (1) 1/4" SELF TAPPING SCREWS. (2) SCREWS AT EACH END AND INTERMED. STILE LOCATION.

3" TALL x 20 GA. GALV. STEEL U-BAR. TWO U-BARS PER SECTION. EACH U-BAR ATTACHED WITH 1/4" SELF TAPPING SCREWS. (2) SCREWS AT EACH END AND INTERMED. STILE LOCATION.

13 GA. GALV. STEEL BOTTOM BRACKET (3-1/2" x 3-1/2") ATTACHED WITH (2) #14x3/8" SHEET METAL SCREWS.

ALUMINUM EXTRUSION & VINYL WEATHERSTRIP EXTRUSION ATTACHED WITH #8x1/2" SELF TAPPING SCREWS AT 18" ON CENTER SPACING ((6) SCREWS ON 8'W DOOR).

JAMB TO SUPPORTING STRUCTURE ATTACHMENT

NOTES:
1. ALL DIE LOAD FROM THE DOOR IS TRANSFERRED TO THE TRACK AND THEN FROM THE TRACK TO THE 2x6 VERTICAL STP (GRADE #2 OR BETTER) JAMBS. NO LOAD FROM THE DOOR IS TRANSFERRED TO THE HORIZONTAL (TOP) JAMB.
2. ALL JAMB FASTENERS MAY BE (BUT ARE NOT REQUIRED TO BE) COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
3. A 1/3 STRESS INCREASE FOR WIND LOAD WAS NOT USED IN THE CALCULATION OF ALLOWABLE LOADS FOR ANCHORS AND FASTENERS FOR STEEL, CONCRETE AND MASONRY.

WOOD FRAME BUILDINGS

STUD WALLS OF DOOR OPENING SHALL BE FRAMED SOLID BY NOT LESS THAN (3) 2x6 PRESSURE TREATED SYP (GRADE #2 OR BETTER) WOOD STUDS OF A STRESS GRADE NOT LESS THAN 1200 PSI NOMINAL EXTREME FIBER STRESS IN BENDING (Fb). STUD WALLS TO BE CONTINUOUS FROM FOOTING TO RF BEAMS.

BLOCK WALL OR CONCRETE

2x8 SYP (GRADE #2 OR BETTER) WOOD JAMB SHALL BE ANCHORED TO GROUT REINFORCED BLOCK WALL OR CONCRETE COLUMN. BLOCK WALL CELLS SHALL BE FILLED WITH CONCRETE AND REINFORCED WITH REINFORCING BARS EXTENDING INTO THE FOOTING AND INTO TIE BEAMS. ALL BARS SHALL BE CONTINUOUS FROM TIE TO BEAMS TO FOOTING. PER BLOCK WALL OR CONCRETE COLUMN. BLOCK WALLS AND CONCRETE COLUMNS TO BE DESIGNED BY THE BUILDING ENGINEER OR ARCHITECT OF RECORD.

HORIZONTAL (TOP) JAMB (NO LOAD FROM DOOR)
FASTENER TYPE
MAX. O.C.
2x6 VERTICAL JAMB

2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT
(NOT TO BE USED FOR ATTACHMENT OF TRACK BRACKETS)

BUILDING TYPE (C-40 BLOCK (PORTION OF CROUTON))	FASTENER TYPE	MAXIMUM * ON CENTER DISTANCE BETWEEN FASTENERS	STEEL WASHERS REQUIRED?
	1/4" x 3" (1-1/4" EMBED) ITW TAPCON CONCRETE ANCHOR (1-1/2" MIN. EDGE DISTANCE)	10-1/2"	1" O.D.
2000 PSI MIN. CONCRETE	1/4" x 4" (1-3/4" EMBED) ITW TAPCON CONCRETE ANCHOR (1-1/2" MIN. EDGE DISTANCE)	24"	1" O.D.
2,500 PSI MIN. CONCRETE	1/4" x 4" (1-3/4" EMBED) SIMPSON STRONG-TIE WEDGE-ALL 1/4"x4" ANCHOR (2" MIN. EDGE DISTANCE)	21-1/2"	REQUIRED
WOOD FRAME	1/4" x 4" (1-3/4" EMBED) LAG SCREW (WITH 5/32" SHANK AT 1-1/2" MIN. EDGE DISTANCE)	24"	1" O.D.
12,000 PSI MIN. CONCRETE	1/4" x 4" (1-3/4" EMBED) HILTI KWIK HUS-EZ (3-1/2" MIN. EDGE DISTANCE)	24"	INCLUDED

* - FIRST ANCHOR/SCREW STARTING FROM BOTTOM AT NO MORE THAN HALF OF MAXIMUM ON CENTER DISTANCE. HIGHEST ANCHOR/SCREW INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING HEIGHT.

Scott M. Hamilton, P.E.
FLORIDA P.E. No. 63288

DESIGN LOADS: +48.0 PSF & -54.0 PSF.

Clopay Building Products Company

TOLERANCES (Unless Stated Otherwise)	
.00 =	±.03
.000 =	±.015
.0000 =	±.007
Degrees =	±1/2°

CLOPAY BUILDING PRODUCTS
8585 DUKE BLVD.
MASON, OHIO 45040
(513) 770-4800

SCALE: NOTED
DATE: 10/23/06
DRAWN BY: SH
CHECKED BY: SH

PAGE: 1 OF 1
MAX SIZE: 8'0"W x 16'0"H
DESCRIPTION: SINGLE CAR WB PAN DOOR WITH IMPACT RESISTANT LITES
DRAWING NUMBER: B 103547
VER: MD

MIAMI-DADE COUNTY
DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

NOTICE OF ACCEPTANCE (NOA)

Clopay Building Products Company
8585 Duke Boulevard
Mason, OH 45040

SCOPE: This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

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DESCRIPTION: Steel Pan Sectional Garage Door up to 9'-0" Wide with Impact Lites

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MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: A permanent label with the manufacturer's name or logo, manufacturing address, model number, the positive and negative design pressure rating, indicate impact rated if applicable, installation instruction drawing reference number, approval number (NOA), the applicable test standards, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on the door's side track, bottom angle, or inner surface of a panel.

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INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews NOA # 07-1120.06** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**

MIAMI-DADE COUNTY APPROVED

02/23/2012

NOA No 12-0105.01
Expiration Date: February 21, 2017
Approval Date: March 1, 2012
Page 1

REVIEWED AND APPROVED!
Architectural Studio, Inc.
Signature _____ Date 12/23/14

Clopay Building Products Company

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **103547**, titled "Single Car W8 Pan Door with Impact Resistant Lites", dated 10/23/2006, with last revision dated 12/15/2011, sheet 1 of 1, prepared by Clopay Building Products Company, signed and sealed by Scott Hamilton, P.E.

B. TESTS *"Submitted under NOA # 06-1107.02"*

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202
   2) Large Missile Impact Test per FBC, TAS 201
   3) Cyclic Wind Pressure Loading per FBC, TAS 203

   along with marked-up drawings and installation diagram of Clopay 9'x 8' 24 ga. Steel Door, Model 94W8, prepared by American Testing Lab, Inc., Test Report No. **ATLNC 1008.01-07**, dated 11/05/2007, signed and sealed by David W. Johnson, P.E.

   "Submitted under NOA # 06-1107.02"
2. Test report on Accelerated Weathering Using Xenon Arc Light Apparatus, per ASTM G 155, Test Report No. **HETI-06-A002,** prepared by Hurricane Engineering and Testing, Inc, dated 11/08/2006, signed and sealed by Rafael E. Droz-Seda, P.E.
3. Tensile Test on GE Lexan SLX2432T, per ASTM D 638 and ASTM E 8, Test Reports No. **HETI-06-T566** and **HETI-06-T634,** prepared by Hurricane Engineering and Testing, Inc., dated 07/14/2006 and 11/08/2006, signed and sealed by Rafael E. Droz-Seda, P.E.
4. Test report on Self-Ignition Temperature (ASTM D 1929), Rate of Burn (ASTM D 635) and Smoke Density (ASTM D 2843), Test Report No. **ETC-06-1024-17496.0,** dated 05/26/2006, signed and sealed by Joseph L. Doldan, P.E.

C. CALCULATIONS *"Submitted under NOA # 06-1107.02"*

1. Anchoring calculations prepared by Clopay Building Products Company, dated 10/24/2006, signed and sealed by Scott Hamilton, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

E. MATERIAL CERTIFICATIONS

1. Tensile tests on Painted Embossed Steel, per ASTM E 8, Test Reports No. **HETI-06-T596, T597** and **T598,** dated 08/24/2006, signed by Rafael E. Droz-Seda, P.E.
2. Salt Spray Exposure Test Report No. **30160-04-63365**, prepared by Stork Twin City Testing Corporation, dated 01/26/2005, signed by John D. Lee, P.E.

F. STATEMENTS

1. Statement letter of code conformance with 2007 and 2010 FBC, issued by Clopay Building Products Company, dated 02/17/2012, signed and sealed by Scott Hamilton, P.E.
2. Statement letter of no financial interest issued by Clopay Building Products Company, dated 01/04/2012, signed and sealed by Scott Hamilton, P.E.

02/23/2012

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No 12-0105.01
Expiration Date: February 21, 2017
Approval Date: March 1, 2012

CLOPAY MODELS 84A, 94, 98, H94
IDEAL MODELS: 4RST, H4ST, 4F
HOLMES MODELS: 48, 488

REV	DATE	DESCRIPTION
00	10/7/06	INITIAL RELEASE
01	02/13/07	"MULTIPURPOSE HIGH BOND" TAPE WAS "HBT"
02	11/14/07	REMOVED RIVETS/SCREWS FROM END STILE.
03	12/15/11	INCREASED MAX. HT.

END STILES ATTACHED TO DOOR SKIN WITH PATENTED TOG-L-LOC SYSTEM. END STILES HAVE (7) TOG-L-LOC CLINCHES AT TOP AND (2) AT BOTTOM, ALONG THE FRONT FACE:
- 21" SECTIONS HAVE (6) TOG-L-LOC CLINCHES.
- 18" SECTIONS HAVE (4) TOG-L-LOC CLINCHES. ⚠

THIS DOOR MEETS THE REQUIREMENTS OF THE LARGE MISSILE IMPACT AND CYCLIC TESTING.

(1) INTERMEDIATE STILE BETWEEN EACH ENDSTILE, ATTACHED WITH TOG-L-LOC ((2) AT TOP & BOTTOM) AND URETHANE ADHESIVE (ALONG CENTER).

ONE ROW OF IMPACT-RESISTANT GLAZING IN EITHER TOP SECTION (19-LITE) OR MID-TO-THE-TOP SECTION (NOT SHOWN).
MAX. GLAZING SIZE IS 15-1/2" x 11".
GLAZING IS INJECTION MOLDED GE LEXAN 9A9430ST, OR APPROVED DC&S PLASTIC IN ACCORDANCE WITH DC/TDC 9804.
SEE SECTION B-B FOR ASSEMBLY DETAILS.

SEE INTERMED. HINGE DETAIL.

SEE END HINGE DETAIL

LOCK POSITION (BOTH SIDES). SEE LAYOUT OF EACH LOCK FOR DETAILS.

INSTALLER MODEL	RETAIL MODEL	DESCRIPTION
84, 98*, 4RST, H4ST	84A, 488	WOODGRAIN TEXTURE, RAISED PANEL, GALV. WITH STUCCO EMBOSSED FINISH
94, 94*	-	WOODGRAIN TEXTURE, FLUSH PANEL, GALV. WITH STUCCO EMBOSSED FINISH

MAX. DOOR HEIGHT = 10'-0"

LOCATION OF OPTIONAL VENTS

MAX. DOOR WIDTH = 8'-0"

SECTION B-B

DETAIL 'D'

DETAIL 'E'

MULTIPURPOSE HIGH BOND TAPE. ⚠

OPTIONAL DECORATIVE FRONT FRAME FACER.

OPTIONAL DECORATIVE SNAP-IN INSERT.

DC 534 HYDROSTATIC STRUCTURAL SILICONE SEALANT.

0.188

IMPACT RESISTANT ONE-PIECE INJECTION MOLDED GE LEXAN 9A9430ST FROM FRAME & GLAZING.

POLYSTYRENE RETAINER FASTENED TO FRAME WITH (10) #8 x 3/4" PAN HEAD MACHINE SCREWS.

TRACK CONFIGURATION

LOW TOP BRACKET

DOUBLE HORIZONTAL TRACK

CENTER HANGS REQUIRED FOR DOORS OVER 6' HIGH.

HORIZONTAL TRACK SUPPORT BY DOOR INSTALLER (TO SUIT)

DOUBLE TRACK LOW HEADROOM OPTION

VERTICAL TRACK ATTACHED TO PLATE BRACKET WITH (1) 3/8"x1-1/4" CARRIAGE BOLT.

12 GA. GALV. STEEL FLAG BRACKET, EACH FASTENED TO WOOD JAMB WITH (4) #14x1-1/2" WOOD LAG SCREWS.

VERTICAL TRACK ATTACHED TO HORIZONTAL TRACK WITH (2) 1/4"x3/4" BRACE BOLTS.

2" GALV. STEEL TRACK, TRACK THICKNESS: 0.040".

TYP. 7-1/2"x12 GA. GALV. STEEL TRACK BRACKET.

DOOR HEIGHT

OPENING HEIGHT + 12"

"A"

"B"

"C"

DOOR HEIGHT	NUMBER OF SECTIONS *
7'0" TO 7'9"	7
7'10" TO 8'9"	8
8'10" TO 9'9"	9
9'10" TO 10'9"	10
10'10" TO 11'9"	11
11'10" TO 12'0"	12

* SECTIONS ARE EITHER 16" OR 21"

DOOR WIDTH	"A"	"B"	"C"	BRACKET PLACEMENTS 1ST	2ND	3RD	4TH	5TH	6TH
7'-0"	84"	3-1/2"	10"	3"	15"	-	-	-	-
8'-0"	96"	3-1/2"	10"	3"	15"	-	-	-	-
9'-0"	108"	3-1/2"	10"	3"	15"	-	-	-	-
10'-0"	120"	3-1/2"	10"	3"	15"	-	-	-	-
11'-0"	132"	3-1/2"	10"	3"	15"	27"	-	-	-
12'-0"	144"	3-1/2"	10"	3"	15"	27"	-	-	-
7'-0"	84"	3-1/2"	10"	3"	15"	27"	39"	-	-
8'-0"	96"	3-1/2"	10"	3"	15"	27"	39"	-	-
9'-0"	108"	3-1/2"	10"	3"	15"	27"	39"	51"	-
10'-0"	120"	3-1/2"	10"	3"	15"	27"	39"	51"	63"
11'-0"	132"	3-1/2"	10"	3"	15"	27"	39"	51"	63"
12'-0"	144"	3-1/2"	10"	3"	15"	27"	39"	51"	63"
7'-0"	84"	3-1/2"	10"	3"	15"	27"	39"	51"	63"
8'-0"	96"	3-1/2"	10"	3"	15"	27"	39"	51"	63"
9'-0"	108"	3-1/2"	10"	3"	15"	27"	39"	51"	63"
10'-0"	120"	3-1/2"	10"	3"	15"	27"	39"	51"	63"
11'-0"	132"	3-1/2"	10"	3"	15"	27"	39"	51"	63"
12'-0"	144"	3-1/2"	10"	3"	15"	27"	39"	51"	63"
7'-0"	84"	3-1/2"	10"	3"	15"	27"	39"	51"	63"
8'-0"	96"	3-1/2"	10"	3"	15"	27"	39"	51"	63"
9'-0"	108"	3-1/2"	10"	3"	15"	27"	39"	51"	63"
10'-0"	120"	3-1/2"	10"	3"	15"	27"	39"	51"	63"
11'-0"	132"	3-1/2"	10"	3"	15"	27"	39"	51"	63"
12'-0"	144"	3-1/2"	10"	3"	15"	27"	39"	51"	63"

PREPARATION OF JAMBS BY OTHERS

(NOTE) THE DESIGN OF THE SUPPORTING STRUCTURAL ELEMENTS SHALL BE THE RESPONSIBILITY OF THE PROFESSIONAL OF RECORD FOR THE BUILDING OR STRUCTURE AND IN ACCORDANCE WITH CURRENT BUILDING CODES FOR THE LOADS LISTED ON THIS DRAWING.

INSIDE ELEVATION

SNAP LATCH ENGAGES INTO VERTICAL TRACK. ONE SNAP LATCH ON EACH SIDE OF DOOR.

INTER. STILE

END STILE

OUTSIDE HANDLE

OUTSIDE KEYED HANDLE

OUTSIDE KEYED LOCK
SNAP LATCH LOCK OPTION

OUTSIDE KEYED LOCK
LOCK BAR LOCKING

LOCK BAR ENGAGES IN TRACK ON EACH SIDE OF DOOR.

INSIDE SLIDE BOLT
LOCK OPTION

SLIDE BOLT LOCK ENGAGES INTO VERTICAL TRACK. ONE LOCK ON EACH SIDE OF DOOR.

SECTION A-A

24 GA. (0.0238" MIN. THICK) DDS STEEL EXTERIOR SKIN WITH G-40 GALVANNEAL BASE-ON PRIMER AND A BAKED-ON POLYESTER PAINTED TOP COAT APPLIED TO BOTH SIDES OF STEEL SKIN. (ASTM No. A653).

3" THICK

12 GA. GALV. STEEL TOP ROLLER BRACKET (2-1/2" x 3-5/8"). EACH BRACKET ATTACHED W/(4) #14x5/8" SHEET METAL SCREWS.

14 GA. GALV. STEEL END HINGE. EACH FASTENED TO END STILES W/(4) #14x5/8" SHEET METAL SCREWS & (1) 1/4" SELF TAPPING SCREWS.

3" TALL x 20 GA. GALV. STEEL U-BAR. TWO U-BARS PER SECTION: EACH U-BAR ATTACHED WITH 1/4" SELF TAPPING SCREWS (7) SCREWS AT EACH END, AND INTERMED. STILE LOCATION.

13 GA. GALV. STEEL BOTTOM BRACKET (3-1/2" x 3-1/2") ATTACHED WITH (2) #14x5/8" SHEET METAL SCREWS.

ALUMINUM EXTRUSION & VINYL WEATHERSTRIP, EXTRUSION ATTACHED WITH #8x1/2" SELF TAPPING SCREWS AT 18" ON CENTER SPACING ((6) SCREWS ON 8'W DOOR).

SHIP LAP JOINTS

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No. 12-0105.01
Expiration Date 02/11/2019
By
Miami-Dade Product Control

JAMB TO SUPPORTING STRUCTURE ATTACHMENT

NOTES:
1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE TRACK AND THEN FROM THE TRACK TO THE 2x8 VERTICAL SYP (GRADE #2 OR BETTER) JAMBS. NO LOAD FROM THE DOOR IS TRANSFERRED TO THE HORIZONTAL (TOP) JAMB.
2. ALL JAMB FASTENERS MAY BE (BUT ARE NOT REQUIRED TO BE) COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
3. A 1.61 STRESS INCREASE FOR WIND LOAD WAS NOT USED IN THE CALCULATION OF ALLOWABLE LOADS FOR ANCHORS AND FASTENERS FOR STEEL, CONCRETE AND MASONRY.

WOOD FRAME BUILDINGS

STUD WALLS OF DOOR OPENING SHALL BE FRAMED SOLID BY NOT LESS THAN (3) 2x6 PRESSURE TREATED SYP (GRADE #2 OR BETTER) WOOD STUDS OF A STRESS GRADE NOT LESS THAN 1200 PSI NOMINAL EXTREME FIBER STRESS IN BENDING (F_b). STUD WALLS TO BE CONTINUOUS FROM FOOTING TO TOP BEAMS.

BLOCK WALL OR CONCRETE

THE SYP (GRADE #2 OR BETTER) WOOD JAMB SHALL BE ANCHORED TO GROUT REINFORCED BLOCK WALL OR CONCRETE COLUMN. BLOCK WALL CELLS SHALL BE FILLED WITH CONCRETE AND REINFORCED WITH REINFORCING BARS EXTENDING INTO THE FOOTING AND INTO THE BEAMS. ALL BARS SHALL BE CONTINUOUS FROM THE TIE BARS TO FOOTING IN A BLOCK WALL OR CONCRETE COLUMN. BLOCK WALLS AND CONCRETE COLUMNS TO BE DESIGNED BY THE BUILDING ENGINEER OR ARCHITECT OF RECORD.

HORIZONTAL (TOP) JAMB (NO LOAD FROM DOOR)

FASTENER TYPE

MAX. O.C.

2x6 VERTICAL JAMB

2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

(NOT TO BE USED FOR ATTACHMENT OF TRACK BRACKETS)

BUILDING TYPE	FASTENER TYPE	MAXIMUM * ON CENTER DISTANCE BETWEEN FASTENERS	STEEL WASHERS REQUIRED(?)
C-O-O BLOCK (HOLLOW OR GROUTED)	1/4" x 3" (1-1/4" EMBED) flo TAPCON CONCRETE ANCHOR (2-1/2" MIN. EDGE DISTANCE)	10-1/2"	1" O.D.
3,000 PSI MIN. CONCRETE	1/4" x 4" (1-1/4" EMBED) flo TAPCON CONCRETE ANCHOR (2-1/2" MIN. EDGE DISTANCE)	24"	1" O.D.
3,000 PSI MIN. CONCRETE	1/4" x 4" (1-1/4" EMBED) KAPTON STRONG-TIE TITEN-HD WEDGE ANCHOR (2-1/2" MIN. EDGE DISTANCE)	21-1/2"	PROVIDED
4"x12" TRUSS	1/4" x 4" (1-1/4" EMBED) LAG SCREW (ASTM A307, DIN 571) (2-1/2" MIN. EDGE DISTANCE)	24"	1" O.D.
7,000 PSI MIN. CONCRETE	1/4" x 4" (1-1/4" EMBED) SAS-H4 BLOCK ANCHOR (2-1/2" MIN. EDGE DISTANCE)	24"	INCLUDED

* - FIRST AND NON-ZERO STARTING FROM BOTTOM AT NO MORE THAN HALF OF MAXIMUM ON CENTER DISTANCE. HIGHEST ANCHOR/SCREW INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING HEIGHT.

SCOTT HAMILTON, P.E.
FLORIDA P.E. No. 63186

DESIGN LOADS: +48.0 PSF & -54.0 PSF.

JAMB CONFIGURATION

STOP MOULDING BY DOOR INSTALLER (TO SUIT)

20 GA. MIN. GALV. STEEL END STILE, 2-3/8"x2".

20 GA. MIN. GALV. STEEL INTERM. STILE, 2"x2".

12 GA. GALV. STEEL TRACK BRACKET FASTENED TO WOOD JAMB WITH ONE 5/16"x1-1/2" WOOD LAG SCREW PER BRACKET.

3" GALV. STEEL TRACK FASTENED TO TRACK BRACKETS. EACH BRACKET ATTACHED WITH ONE 1/4"x5/8" BOLT & NUT OR TWO 1/4" RIVETS.

10 GA. GALV. STEEL HINGE FASTENED TO CENTER STILE W/(4) EACH #14x5/8" SHEET METAL SCREWS.

7/16" ROUND PUSHNUT IS INSTALLED ON EACH ROLLER SHAFT.

14 GA. GALV. STEEL END HINGE FASTENED TO END STILES W/(4) EACH #14x5/8" SHEET METAL SCREWS & (1) 1/4" SELF TAPPING SCREWS.

3" I.D. BALL STEEL ROLLER (1x3/16"x1/8"x4") WITH STEEL OR NYLON TIRE.

TOLERANCES	
Unless Stated Otherwise	.00 = ±.03
	.000 = ±.015
	.0000 = ±.007
	Degrees = ±1/2°

Clopay Building Products Company

CLOPAY BUILDING PRODUCTS
8585 DUKE BLVD.
MASON, OHIO 45040
(513) 770-4800

SCALE:	NOTED
DATE:	10/23/06
DRAWN BY:	SH
CHECKED BY:	SH

PROJ.	1 OF 1
RAN. SIZE	9'0"W x 18'0"H
DESCRIPTION	SINGLE CAR WB PAN DOOR WITH IMPACT RESISTANT LITES
SIZE	B
DRAWING NUMBER	103547
VER.	MD

Mission:
To protect, promote & improve the health of all people in Florida through integrated state, county & community efforts.

Florida HEALTH
Martin County

Rick Scott
Governor

John H. Armstrong, MD, FACS
State Surgeon General & Secretary

Vision: To be the Healthiest State in the Nation

FOR FINAL APPROVAL TO BUILDING DEPARTMENT:

___ **MARTIN COUNTY:** FAX 419-6934, PHONE 288-5489 __ **CITY OF STUART:** Fax 288-5388 Phone 288-5328

___ **JUPITER ISLAND:** Fax 545-0188 Phone 545-0150 ✓ **SEWALLS POINT:** Fax 220-4765 Phone 2872455

FROM: R. Ball DATE: 11/12/15

✓ **SEPTIC SYSTEMS (SS)** ___ **LIMITED USE PUBLIC WATER SYSTEM (57)**

HEALTH DEPT. PERMIT #	BUILDING DEPT. PERMIT #	LOCATION
43-SS- 1561564	BP# 11146	3 Palmetto Dr. Stuart 34997
43-57-		
43-SS-		
43-57-		
43-SS-		
43-57-		

J:environmental health/ostds/forms/fax

U.S. DEPARTMENT OF HOMELAND SECURITY
FEDERAL EMERGENCY MANAGEMENT AGENCY
National Flood Insurance Program

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1–9.

OMB No. 1660-0008
Expiration Date: July 31, 2015

SECTION A – PROPERTY INFORMATION

FOR INSURANCE COMPANY USE

A1. Building Owner's Name TOD & ROBYN BATSON #3275-956 — Policy Number:

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.
3 PALMETTO DRIVE — Company NAIC Number:

City STUART State FL ZIP Code 34996

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
LOT 16, PALMETTO PARK

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL

A5. Latitude/Longitude: Lat. 27°11'48.0732"N Long. -80°11'52.1952"W Horizontal Datum: ☒ NAD 1927 ☐ NAD 1983

A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number 1A

A8. For a building with a crawlspace or enclosure(s):
- a) Square footage of crawlspace or enclosure(s) N/A sq ft
- b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade N/A
- c) Total net area of flood openings in A8.b N/A sq in
- d) Engineered flood openings? ☐ Yes ☒ No

A9. For a building with an attached garage:
- a) Square footage of attached garage 674 sq ft
- b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 5
- c) Total net area of flood openings in A9.b 1050 sq in
- d) Engineered flood openings? ☒ Yes ☐ No

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number	B2. County Name	B3. State
TOWN OF SEWALL'S POINT 120164	MARTIN	FLORIDA

B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	B7. FIRM Panel Effective/Revised Date	B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use base flood depth)
12085C0154	G	03/16/15	03/16/15	AE	7.0

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.
☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other/Source: _____

B11. Indicate elevation datum used for BFE in Item B9: ☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/Source: _____

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☒ No
Designation Date: _____ ☐ CBRS ☐ OPA

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO. Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: Q 236 Vertical Datum: NAVD 1988

Indicate elevation datum used for the elevations in items a) through h) below. ☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/Source: _____
Datum used for building elevations must be the same as that used for the BFE.

		Check the measurement used.	
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	7.72	☒ feet	☐ meters
b) Top of the next higher floor	N/A	☐ feet	☐ meters
c) Bottom of the lowest horizontal structural member (V Zones only)	N/A	☐ feet	☐ meters
d) Attached garage (top of slab)	7.08	☒ feet	☐ meters
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	7.67	☒ feet	☐ meters
f) Lowest adjacent (finished) grade next to building (LAG)	6.52	☒ feet	☐ meters
g) Highest adjacent (finished) grade next to building (HAG)	7.32	☒ feet	☐ meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	N/A	☐ feet	☐ meters

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. *I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.*

☒ Check here if comments are provided on back of form.
☒ Check here if attachments.

Were latitude and longitude in Section A provided by a licensed land surveyor? ☒ Yes ☐ No

PLACE SEAL HERE

Certifier's Name STEPHEN J. BROWN License Number 4049

Title SURVEYOR & MAPPER Company Name STEPHEN J. BROWN, INC.

Address 619 EAST 5TH STREET City STUART State FL ZIP Code 34994

Signature STEPHEN J. BROWN Date 12/02/15 Telephone (772) 288-7176

IMPORTANT: In these spaces, copy the corresponding information from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 3 PALMETTO DRIVE	Policy Number:
City STUART State FL ZIP Code 34996	Company NAIC Number:

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments C2 e IS THE A/C UNIT

Signature STEPHEN J. BROWN Date 12/02/15

SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____.____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.
b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____.____ ☐ feet ☐ meters ☐ above or ☐ below the LAG.

E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8–9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____.____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E3. Attached garage (top of slab) is _____.____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E4. Top of platform of machinery and/or equipment servicing the building is _____.____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown. The local official must certify this information in Section G.

SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner's or Owner's Authorized Representative's Name

Address City State ZIP Code

Signature Date Telephone

Comments

☐ Check here if attachments.

SECTION G – COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

G1. ☐ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.

G3. ☐ The following information (Items G4–G10) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued

G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building: _____.____ ☐ feet ☐ meters Datum _____

G9. BFE or (in Zone AO) depth of flooding at the building site: _____.____ ☐ feet ☐ meters Datum _____

G10. Community's design flood elevation: _____.____ ☐ feet ☐ meters Datum _____

Local Official's Name Title

Community Name Telephone

Signature Date

Comments

☐ Check here if attachments.

Building Photographs

See Instructions for Item A6.

IMPORTANT: In these spaces, copy the corresponding information from Section A.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 3 PALMETTO DRIVE	FOR INSURANCE COMPANY USE Policy Number:
City STUART State FL ZIP Code 34996	Company NAIC Number:

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.

DATE OF PHOTOGRAPHS:12/02/15

Building Photographs

Continuation Page

IMPORTANT: In these spaces, copy the corresponding information from Section A.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 3 PALMETTO DRIVE	FOR INSURANCE COMPANY USE Policy Number:
City STUART State FL ZIP Code 34996	Company NAIC Number:

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.

DATE OF PHOTOGRAPHS:12/02/15

- Termite Inspection
- Termite Pretreatment
- Pest Control
- Rodent Service
- Fire Ant Lawn Service
- Whitefly Treatment
- Licensed & Insured

Jesus Christ is Lord
Evict-A-Bug Termite & Pest Control, Inc.
Lic. JB175775

772-323-7921
Toll Free: 1-877-365-9990
Fax: 772-340-5990
Email: Evictabug@gmail.com
2373 SW Woodridge St.
Port St. Lucie, FL 34953

Notice of Preventative Treatment for Termites

(as required by Florida Building Code (FBC) 104.26 and Broward County Chapter FBC 105.2.2)

PEST PREVENTION | FIRE ANT SERVICE | TERMITE SERVICE | RODENT EXCLUSION & REMOVAL | WHITEFLY TREATMENT

DATE OF SERVICE 12-8-15 TIME 12-1

DEVELOPMENT NAME (PROJECT)	CONTRACTOR'S NAME	CONTACT PERSON
Tod Batson Residence	HoB - Tod Batson	Tod Batson
STRUCTURE ADDRESS (LOT/BLOCK) 3 Palmetto Drive	CITY, STATE, ZIP CODE Stuart, Martin	COUNTY
NOTES * Final Termite Treatment 34996		

TREATMENT TYPE/AREA

☐ FLOATING ☐ MONOLITHIC ☐ PATIO ☐ GARAGE ☐ DRIVEWAY ☐ STEM WALL/FOOTERS ☐ ADDITION
☐ CUTOUTS ☐ FOOTER ☐ FRONT ENTRY ☐ RETREAT ☐ BORA CARE TREATMENT ☐ PLUMBING CUT OUTS ☐ SIDEWALKS
☐ TAMP & TREAT ☐ TREAT ONLY ☒ FINAL ☐ POOL DECK ☐ OTHER _____

PRODUCTS

☑ BASELINE ☐ DOMINION 2L ACTIVE INGREDIENT ☐ TERMIDOR SC ☐ BORACARE ☐ PREMISE
☐ OTHER _____

ACTIVE INGREDIENT _____ ☐ IMIDACLAPRID ☑ BIFENTHRIN ☐ DISODIUM OCTABORATE TETRAHYDRATE

CONCENTRATION

☑ .06% ☐ .12% ☐ .25% ☐ .05% ☐ 23% ☐ 9% ☐ OTHER _____ GALLONS APPLIED 165

SQUARE FOOTAGE _____ **LINEAR FOOTAGE** 400 L/F

SQUARE FOOTAGE VERIFIED

☐ YES ☐ NO ☑ MEASURED OR VERIFIED PER PLANS

JOB READY CONDITIONS MET

☑ YES ☐ NO DETAILS _____

As per 104.2.6 FBC - If soil chemical barrier method for termite prevention is used. Final exterior treatment shall be completed prior to final building approval.

Certificate of Compliance: The building has received a complete treatment for the prevention of subterranean termites. Treatment is in accordance with rules and laws established by the Florida Department of Agriculture and Consumer Services. (Per the Florida Building Code.)

If this notice is for the **final** exterior treatment, initial and date this line TSR 12-8-15

FINAL STICKER

☑ ELECTRICAL PANEL ☐ WATER HEATER ☐ OTHER _____

Payment Terms: Payment due at time of service.

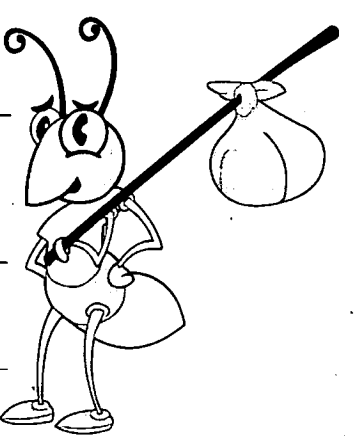
12-8-15
Date

Applicator: (Evict A Bug Termite and Pest Control, Inc.)

_____
Date

left on site
Customer (Property Owner or Agent)

$175.00 Due



ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 79

The lower the EnergyPerformance Index, the more efficient the home.

3 PALMETTO DRIVE, SEWALLS POINT, FL,

1. New construction or existing		New (From Plans)
2. Single family or multiple family		Single-family
3. Number of units, if multiple family		1
4. Number of Bedrooms		4
5. Is this a worst case?		No
6. Conditioned floor area (ft²)		3257
7. Windows**	Description	Area
a. U-Factor:	Sgl. U=1.07	606.00 ft²
SHGC:	SHGC=0.50	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		2.000 ft.
Area Weighted Average SHGC:		0.500

8. Floor Types	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	3257.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types	Insulation	Area
a. Concrete Block - Ext Insul, Exterior	R=4.1	2570.00 ft²
b. Frame - Wood, Adjacent	R=11.0	200.00 ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types	Insulation	Area
a. Under Attic (Vented)	R=38.0	3257.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts	R	ft²
a. Sup: Attic, Ret: Attic, AH: MAIN	6	250
b. Sup: Attic, Ret: Attic, AH: MAIN	6	150

12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	59.0	SEER:16.00
b. Central Unit	18.0	SEER:16.00

13. Heating systems	kBtu/hr	Efficiency
a. Electric Strip Heat	34.0	COP:1.00
b. Electric Strip Heat	17.0	COP:1.00

14. Hot water systems
a. Electric — Cap: 40 gallons, EF: 0.92
b. Conservation features
None

15. Credits — Pstat

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: 12-10-2015

Address of New Home: _____ City/FL Zip: _____

*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida EnergyGauge Rating. Contact the EnergyGauge Hotline at (321) 638-1492 or see the EnergyGauge web site at energygauge.com for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section 303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

Sunbelt Sprinkler & Well Drilling Inc.

968 Stallion Drive

Loxahatchee, Florida 33470

Phone (561) 795-9234 Fax (561) 798-9979

To: Sewalls Point Town Hall

Re: Irrigation 12-9-2015

At: 3 Palmetto Drive

Attn: Building & Facilities Department

To Whom it May Concern:

The Sprinkler System for 3 Palmetto Drive, Sewalls Point Fl.

Was installed using Low- Volume Sprinkler Heads.

License: # MCIS6053

Sincerely,

Howard Hathaway

TOWN OF SEWALL'S POINT

Building Department – Inspection Log

Date of Inspection ☒ Mon ☐ Tue ☐ Wed ☐ Thur ☐ Fri 6/1/15 Page 1 of 1

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11236	Kaplan			
	11 River Crest Ct	Roof final	Pass	CLOSE
	JA Taylor Roofing			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11241	Truitt	Underground		
AM requested	39 S River Rd	Plumbing	Pass	
	Ken Wendell Gen Contract.			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11246	Batson			
	3 Palmetto	Insulation	Pass	
	O/B			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11269	Diaz	Final		
BIS-000021	15 Palm Road	Garage Door	Pass	CLOSE
	D+D Garage Door			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
Tree	Janson	Tree		
	132 S River Road	Removal	OK	
				INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR

TOWN OF SEWALL'S POINT

Building Department – Inspection Log

Date of Inspection ☐ Mon ☐ Tue ☒ Wed ☐ Thur ☐ Fri 6/3/15 Page 1 of

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
[redacted]	Batson			
	3 Palmetto Drive	Final Roof	[redacted]	
	O/B			INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11290	Winzurk	Dry-in		
B15-000041	11 Middle Rd	+ Metal	PASS	
	Capps Roofing			INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11208	Milici	Pool		
	14 E High Pt Rd	Plumbing [redacted]	PASS	
	A+G Concrete Pools			INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11241	Truitt	Column + Beam		
PM Requested	39 S River Rd	S/ab	PASS	
	Ken Wendell Contractors			INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR

TOWN OF SEWALL'S POINT

Building Department – Inspection Log

Date of Inspection ☒ Mon ☐ Tue ☐ Wed ☐ Thur ☐ Fri 6/8/15 Page 1 of 4

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11071	Resnick	Electrical		
AM Requested	614 Middle Rd	Rough Front	PASS	
	Cdentano Dev.	+ Rear Porch		INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
[illegible]	Batson	Drywall		NOT
	[illegible] Palmetto [illegible] Dr	Screws	[illegible]	REQUIRED
	O/B			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11282	Pierson	Fence		
B15-000030	8 Palmetto Dr	Final	PASS	CLOSE
	Treasure Coast Fence			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
10973	Conch Property Holdings			
	19 Lantana	Roof Final	PASS	
	Conch Property Holdings			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11283	Massey			
B15-000037	1 Mindoro St	Roof Final	PASS	CLOSE
	All American Roof	REPAIR		INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11284	Scheplens	Fence		
B15-000036	110 Abbie Court	Final	PASS	CLOSE
	Stuart Fence			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11208	Milici	Niche		
	14E High Pt Rd	UG Electric	PASS	
	A+G Concrete Pools	Equipotential Bond		INSPECTOR

TOWN OF SEWALL'S POINT

Building Department – Inspection Log

Date of Inspection ☐ Mon ☐ Tue ☒ Wed ☐ Thur ☐ Fri 2/18/15 Page 1 of ___

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11167	Melosh	Slab		
AM Requested	132 S Sewall Pt Rd	~~Final~~ Pre Pour	BNS	
	Richard Haaser, Inc	(overpour)		INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11175	Burr	A/C		
AM Requested	21 Riverview Dr	Final	BNS	CLOSE
	Clean Air Technologies			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11156	Burr	A/C		
AM Requested	21 Riverview Dr	Final	BNS	CLOSE
	Clean Air Technologies			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11121	Rohloff	A/C	FAIL	NEEDS STEP
AM Requested	20 Riverview Drive	Final		LADDER
	Seacoast Air			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11169	Licari	Underground		
	18 Periwinkle lane	Plumbing	BNS	
	Joseph Lina Services			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
[redacted]	Batson	Temp		[redacted]
	3 Palmetto Drive	Electric	BNS	
	O/B			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11149	Newbury REO	Final		
	46 N River Rd	Roof	BNS	CLOSE
	Tradewinds	Repairs		INSPECTOR

TOWN OF SEWALL'S POINT

Building Department – Inspection Log

Date of Inspection ☐ Mon ☐ Tue ☐ Wed ☒ Thur ☐ Fri 2/26/15 Page 1 of ___

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11130	Nichols			
AM Requested	17 Palmetto Drive	A/C Final	Pass	Close
	Advantage Air			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
[illegible]	Batson	Underground		
	3 Palmetto Drive	Plumbing	Pass	
	O/B			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11071	Resnick	Masonry wall		
PM Requested	14 Middle Road	Tie Beam	Pass	
	Celentano Dev			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11184	146 S Sea Rd	Silt Fence		
			Pass	
	Driftwood			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11101	Barnes	A/C Rough	Pass	
	7 Margarita Rd	Insulation	"	
	DW Rich Const			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR

TOWN OF SEWALL'S POINT

Building Department – Inspection Log

Date of Inspection ☐ Mon ☒ Tue ☐ Wed ☐ Thur ☐ Fri 3/3/15 Page 1 of 1

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
10680	Winslow	Underground		
	10 S Sewall's Pt Rd	Plumbing Rough	Pass	
	Green Building			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
[illegible]	Batson		Cancel	
PM Requested	3 Palmetto	Slab	Reschedule AM	
	O/B			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR

TOWN OF SEWALL'S POINT

Building Department – Inspection Log

Date of Inspection ☐ Mon ☐ Tue ☒ Wed ☐ Thur ☐ Fri 3/4/12 Page 1 of ___

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
[redacted]	Batson			
AM Requested	3 Palmetto	Slab	[redacted]	
	O/B			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11027	Lino	Equipotential		NOT VISIBLE
	14 Heron's Nest	Bond	FAIL	
	Schiller Pools			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11187	Buro	window/		
PM Requested	101 Henry Sewall Way	Door	PASS	
	GM Construction			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11185	Milici	Temp		
	14E High Point Rd	Electrical	PASS	
	Scott Holmes Building	Pole		INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
10944	Stern			BLENDING PLAN
	181 S River Road	Footings	PASS	REVISION
	Freedom Home Builders			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
10549	Chontos	Final	WALK THROUGH W/FDEM	
10:30	835 Sewalls Pt Rd	FEMA		
	Modern Mover	Elevation		INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR

TOWN OF SEWALL'S POINT

Building Department – Inspection Log

Date of Inspection ☐ Mon ☐ Tue ☐ Wed ☐ Thur ☒ Fri 3/13/15 Page 1 of 1

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
10934	Fabricy	Temp		
	6 Oak Hill Way	Electric	PASS	* FPL
	Seagate Builders			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
[redacted]	Batson	Tie		
	3 Palmetto Drive	Beam	[redacted]	
	O/B			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11180	Allen	Final		
	6 St. Lucie Ct	Bathtub	PASS	CLOSE
	Gulf Atlantic Home Solutions Inc.			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11190	Jochem			
PM Requested	22 Ridgeland Drive	A/C Final	PASS	CLOSE
	Nis Air			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11166	Zucker	Boatlift		
	18 E High Point Rd	Final	PASS	CLOSE
	Wilco Construction			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
10935	Heramis			* FPL
	172 S River Road	Pre-Power	PASS	
	J. Conroy, Inc.			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
	Josephine Cafe	FINAL		
	3714 SE Ocean Blvd		PASS	
	Gary Kuenaber			INSPECTOR

TOWN OF SEWALL'S POINT

Building Department – Inspection Log

Date of Inspection ☒ Mon ☐ Tue ☐ Wed ☐ Thur ☐ Fri 3/30/15 Page 1 of ___

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11200	Leighton			NO ACCESS
AM Requested	43 W High Pt Rd	A/C Final	FAIL	
	Grime A/c			INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
[illegible]	Batson	Strapping		
	[illegible]	+ Engineering	[illegible]	
	O/B			INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
10694	Westcott	Pre-Pour		
	53 N River Road	Retaining Wall	PASS	
	San George Construction	Cap		INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11193	Christie	Final		
PM Requested	103 S Sewalls Pt Rd	Windows	PASS	CLOSE
	Class Plus			INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR

TOWN OF SEWALL'S POINT

Building Department – Inspection Log

Date of Inspection ☐ Mon ☐ Tue ☒ Wed ☐ Thur ☐ Fri 4/8/15 Page 1 of ___

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11209	Kuhns	Garage		
AM Requested	94 S River Rd	Door Final	Pass	close
	American Garage Door			INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
~~11204~~	~~Wexler~~		Cancel	
~~AM Requested~~	~~19 N Ridgeview Rd~~	Roof final	Inspected	4/7/15
	~~Stuart Roofing~~			INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
~~11146~~	Batson	Dry-in +		
	~~8 Palmetto Drive~~	Metal	[redacted]	
	0/B			INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11127	Armstrong	Dry-in &	Cancel per roofer	
	82 S Sewalls Pt Rd	Metal	not ready. Will call to	
	Seagate Builders		reschedule	INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR

TOWN OF SEWALL'S POINT

Building Department – Inspection Log

Date of Inspection ☐ Mon ☒ Tue ☐ Wed ☐ Thur ☐ Fri 4/14/15 Page 1 of ___

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11215	Winslow	Insulation		
	10 S Sewall's Pt. Rd		Pass	
	O/B			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
[illegible]	Batson	Window/		
	8 Palmetto Drive	Door Buck	Pass	
	O/B			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11110	Gaydos	Final Plumbing,		
	15 W High Pt. Rd.	Electric +	FAIL	NOT READY
	TC Floors, Inc	Window/Doors		INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11226	Elder	Service		* E-MAIL FPL
	110 S Sewall's Pt Rd	Change	Pass	CLOSE
	Comet Electric			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11182	Madris	Underground		
	34E High Pt Rd	gas lines	Pass	
	Paulie Propane			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR

TOWN OF SEWALL'S POINT

Building Department – Inspection Log

Date of Inspection ☒ Mon ☐ Tue ☐ Wed ☐ Thur ☐ Fri 5/18/15 Page 1 of 1

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
8936	Cotton	A/C		
	177 S Sewalls Pt Rd	Final	PASS	CLOSE
	Flynn's A/C	Expired Permit		INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
9146	Batson		A/C	A/C STAND-NOT PE
	3 Palmetto	Framing #	FAIL	CODE
	O/B	ALL TRADES	ALL OTHER PASS	INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR

TOWN OF SEWALL'S POINT

Building Department – Inspection Log

Date of Inspection ☐ Mon ☐ Tue ☐ Wed ☒ Thur ☐ Fri 5/14/15 Page 1 of ___

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11174	Chodera	Window/		CLOSE
	54 N River Road	Door Final	PASS	
	Florida Home Improvement			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11223	Dunn	Final		
	31 N River Rd	Wood Trellis	PASS	CLOSE
	Winchip			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11446	Batson	Wire		
	13 Palmetto Drive	Lath	PASS	
	O/B			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11253	Hoffman			
	42 Rio Vista Drive	Final Pavers	PASS	CLOSE
	Felice Giuliani Hardscape			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
10672	Duke	Underground		
	25 Island Road	gaslines + Tank	PASS	
	CDR Bldrs			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
10694	Westcott	Partial		
PM Requested	53 N River Rd	Planter Footer	RESET	NOT READY
	San George			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR

TOWN OF SEWALL'S POINT

Building Department – Inspection Log

Date of Inspection ☐ Mon ☐ Tue ☐ Wed ☒ Thur ☐ Fri 5/21/15 Page 1 of 2

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11147	Darrow			
	7 Oak Hill Way	Pool Final	Pass	Close
	Pools by Greg			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11060	Fabricy			
	6 Oak Hill Way	Pool Final	Pass	Close
	Pools by Greg			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11210	Pare			
	61 N River Road	A/C Final	Pass	Close
	Jensen Beach A/C			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11463	Batson			
	3 Palmetto	Gas Lines	Pass	
	O/B			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11228	McKinley			WRONG LADDER
	48 Rio Vista	A/C Final	FAIL	
	Jack Frost A/C			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
11188	Morris			E. MAIL
	64 S Sewalls Pt Rd	Temp Electric	Pass	FPL
	Electric Connections			INSPECTOR
PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
Tree	Schepleng	Tree		
	110 Abbie Court	Permit	Pass	
				INSPECTOR

TOWN OF SEWALL'S POINT

Building Department – Inspection Log

Date of Inspection ☐ Mon ☒ Tue ☐ Wed ☐ Thur ☐ Fri 5/26/15 Page 2 of ___

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
[redacted]	Batson	Roof in		
	[redacted] Palmetto	Progress	[redacted]	
	O/B			
				INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
Tree	Sweeney-Golnik	Tree		
	45 Via Lucindia	Removal	gw	
				INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR

PERMIT #	OWNER/ADDRESSS/CONTRACTOR	INSEPECTION TYPE	RESULTS	COMMENTS
				INSPECTOR

TOWN OF SEWALL'S POINT
BUILDING DEPARTMENT
One S. Sewall's Point Road
Sewall's Point, Florida 34996
Tel 772-287-2455 Fax 772-220-4765

CERTIFICATE OF OCCUPANCY

☑ Single Family Residence ☐ Other _____

OWNER: BATSON TOD & ROBYN PROPERTY ADDRESS: 3 PALMETTO DRIVE

LEGAL DESCRIPTION:

PARCEL CONTROL NUMBER 01-38-41-010-000-00160-6 SUBDIVISION PALMETTO PARK

GENERAL CONTRACTOR: OWNER/BUILDER LIC/CERT NO: _____

ARCHITECT OR ENGINEER: SCOTT BLAKESLEE DISHER LIC/CERT NO: AR0011586

PERMIT NO: 11146 DATE OF ISSUE: 01/21/2015

CODE EDITION: 2010 CONST. TYPE: CBS USE: SFR OCCUPANCY: N/A

OCCUPANT LOAD: N/A SPRINKLERS REQUIRED: N/A SPRINKLERS USED: N/A

The described portion of the structure has been inspected for compliance with the requirements of this Code for occupancy and division of occupancy and the use for which the proposed occupancy is classified.

In accordance with the requirements of the Florida Building Code and the Codes and Ordinances of the Town of Sewall's Point, Florida, this Certificate of Occupancy is hereby issued for the foregoing described property.

Entered at Sewall's Point, Florida, this 14th day of December, 2015

John R. Adams, CBO
Building Official, Town of Sewall's Point