



Uniform Mitigation Verification Inspection Form

Maintain a copy of this form and any documentation provided with the insurance policy

Inspection Date: 05/14/2014		
Owner Information		
Owner Name: Pineapple House Condominium Association		Contact Person:
Address: 1437 Pineapple Ave		Home Phone:
City: Melbourne	Zip: 32935	Work Phone:
County: Brevard		Cell Phone: (321) 614-1945
Insurance Company: Ranew Insurance		Policy #:
Year of Home: 2007	# of Stories: 8	Email:

NOTE: Any documentation used in validating the compliance or existence of each construction or mitigation attribute must accompany this form. At least one photograph must accompany this form to validate each attribute marked in questions 3 through 7. The insurer may ask additional questions regarding the mitigated feature(s) verified on this form.

1. **Building Code:** Was the structure built in compliance with the Florida Building Code (FBC 2001 or later) OR for homes located in the HVHZ (Miami-Dade or Broward counties), South Florida Building Code (SFBC-94)?

- ☒ A. Built in compliance with the FBC: Year Built 2007 For homes built in 2002/2003 provide a permit application with a date after 3/1/2002: Building Permit Application Date (MM/DD/YYYY)
- ☐ B. For the HVHZ Only: Built in compliance with the SFBC-94: Year Built . For homes built in 1994, 1995, and 1996 provide a permit application with a date after 9/1/1994: Building Permit Application Date (MM/DD/YYYY)
- ☐ C. Unknown or does not meet the requirements of Answer "A" or "B"

2. **Roof Covering:** Select all roof covering types in use. Provide the permit application date OR FBC/MDC Product Approval number OR Year of Original Installation/Replacement OR indicate that no information was available to verify compliance for each roof covering identified.

2.1 Roof Covering Type:	Permit Application Date	FBC or MDC Product Approval #	Year of Original Installation or Replacement	No Information Provided for Compliance
☐ 1. Asphalt/Fiberglass Shingle				☐
☐ 2. Concrete/Clay Tile				☐
☒ 3. Metal			2007	☐
☐ 4. Built Up				☐
☒ 5. Membrane			2007	☐
☐ 6. Other _____				☐

- ☒ A. All roof coverings listed above meet the FBC with a FBC or Miami-Dade Product Approval listing current at time of installation OR have a roofing permit application date on or after 3/1/02 OR the roof is original and built in 2004 or later.
- ☐ B. All roof coverings have a Miami-Dade Product Approval listing current at time of installation OR (for the HVHZ only) a roofing permit application after 9/1/1994 and before 3/1/2002 OR the roof is original and built in 1997 or later.
- ☐ C. One or more roof coverings do not meet the requirements of Answer "A" or "B".
- ☐ D. No roof coverings meet the requirements of Answer "A" or "B".

3. **Roof Deck Attachment:** What is the weakest form of roof deck attachment?

- ☐ A. Plywood/Oriented strand board (OSB) roof sheathing attached to the roof truss/rafter (spaced a maximum of 24" inches o.c.) by staples or 6d nails spaced at 6" along the edge and 12" in the field. -OR- Batten decking supporting wood shakes or wood shingles. -OR- Any system of screws, nails, adhesives, other deck fastening system or truss/rafter spacing that has an equivalent mean uplift less than that required for Options B or C below.
- ☐ B. Plywood/OSB roof sheathing with a minimum thickness of 7/16" inch attached to the roof truss/rafter (spaced a maximum of 24" inches o.c.) by 8d common nails spaced a maximum of 12" inches in the field. -OR- Any system of screws, nails, adhesives, other deck fastening system or truss/rafter spacing that is shown to have an equivalent or greater resistance than 8d nails spaced a maximum of 12 inches in the field or has a mean uplift resistance of at least 103 psf.
- ☐ C. Plywood/OSB roof sheathing with a minimum thickness of 7/16" inch attached to the roof truss/rafter (spaced a maximum of 24" inches o.c.) by 8d common nails spaced a maximum of 6" inches in the field. -OR- Dimensional lumber/Tongue & Groove decking with a minimum of 2 nails per board (or 1 nail per board if each board is equal to or less than 6 inches in width). -OR-

Inspectors Initials DC Property Address 1437 Pineapple Ave Melbourne

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Any system of screws, nails, adhesives, other deck fastening system or truss/rafter spacing that is shown to have an equivalent or greater resistance than 8d common nails spaced a maximum of 6 inches in the field or has a mean uplift resistance of at least 182 psf.

- ☒ D. Reinforced Concrete Roof Deck.
- ☐ E. Other: _____
- ☐ F. Unknown or unidentified.
- ☐ G. No attic access.

4. **Roof to Wall Attachment:** What is the **WEAKEST** roof to wall connection? (Do not include attachment of hip/valley jacks within 5 feet of the inside or outside corner of the roof in determination of WEAKEST type)

- ☐ A. Toe Nails
 - ☐ Truss/rafter anchored to top plate of wall using nails driven at an angle through the truss/rafter and attached to the top plate of the wall, or
 - ☐ Metal connectors that do not meet the minimal conditions or requirements of B, C, or D

Minimal conditions to qualify for categories B, C, or D. All visible metal connectors are:

- ☐ Secured to truss/rafter with a minimum of three (3) nails, **and**
- ☐ Attached to the wall top plate of the wall framing, or embedded in the bond beam, with less than a 1/2" gap from the blocking or truss/rafter **and** blocked no more than 1.5" of the truss/rafter, **and** free of visible severe corrosion.
- ☐ B. Clips
 - ☐ Metal connectors that do not wrap over the top of the truss/rafter, **or**
 - ☐ Metal connectors with a minimum of 1 strap that wraps over the top of the truss/rafter and does not meet the nail position requirements of C or D, but is secured with a minimum of 3 nails.
- ☐ C. Single Wraps
 - Metal connectors consisting of a single strap that wraps over the top of the truss/rafter and is secured with a minimum of 2 nails on the front side and a minimum of 1 nail on the opposing side.
- ☐ D. Double Wraps
 - ☐ Metal Connectors consisting of 2 separate straps that are attached to the wall frame, or embedded in the bond beam, on either side of the truss/rafter where each strap wraps over the top of the truss/rafter and is secured with a minimum of 2 nails on the front side, and a minimum of 1 nail on the opposing side, **or**
 - ☐ Metal connectors consisting of a single strap that wraps over the top of the truss/rafter, is secured to the wall on both sides, and is secured to the top plate with a minimum of three nails on each side.
- ☒ E. Structural Anchor bolts structurally connected or reinforced concrete roof.
- ☐ F. Other: _____
- ☐ G. Unknown or unidentified
- ☐ H. No attic access

5. **Roof Geometry:** What is the roof shape? (Do not consider roofs of porches or carports that are attached only to the fascia or wall of the host structure over unenclosed space in the determination of roof perimeter or roof area for roof geometry classification).

- ☐ A. Hip Roof Hip roof with no other roof shapes greater than 10% of the total roof system perimeter.
Total length of non-hip features: _____ feet; Total roof system perimeter: _____ feet
- ☒ B. Flat Roof Roof on a building with 5 or more units where at least 90% of the main roof area has a roof slope of less than 2:12. Roof area with slope less than 2:12 _____ sq ft; Total roof area _____ sq ft
- ☐ C. Other Roof Any roof that does not qualify as either (A) or (B) above.

6. **Secondary Water Resistance (SWR):** (standard underlayments or hot-mopped felts do not qualify as an SWR)

- ☐ A. SWR (also called Sealed Roof Deck) Self-adhering polymer modified-bitumen roofing underlayment applied directly to the sheathing or foam adhesive SWR barrier (not foamed-on insulation) applied as a supplemental means to protect the dwelling from water intrusion in the event of roof covering loss.
- ☐ B. No SWR.
- ☒ C. Unknown or undetermined.

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7. **Opening Protection:** What is the **weakest** form of wind borne debris protection installed on the structure? **First**, use the table to determine the weakest form of protection for each category of opening. **Second**, (a) check one answer below (A, B, C, N, or X) based upon the lowest protection level for ALL Glazed openings **and** (b) check the protection level for all Non-Glazed openings (.1, .2, or .3) as applicable.

Opening Protection Level Chart Place an "X" in each row to identify all forms of protection in use for each opening type. Check only one answer below (A thru X), based on the weakest form of protection (lowest row) for any of the Glazed openings and indicate the weakest form of protection (lowest row) for Non-Glazed openings.		Glazed Openings				Non-Glazed Openings	
		Windows or Entry Doors	Garage Doors	Skylights	Glass Block	Entry Doors	Garage Doors
N/A	Not Applicable- there are no openings of this type on the structure		X	X	X		
A	Verified cyclic pressure & large missile (9-lb for windows doors/4.5 lb for skylights)	X				X	X
B	Verified cyclic pressure & large missile (4-8 lb for windows doors/2 lb for skylights)						
C	Verified plywood/OSB meeting Table 1609.1.2 of the FBC 2007						
D	Verified Non-Glazed Entry or Garage doors indicating compliance with ASTM E 330, ANSI/DASMA 108, or PA/TAS 202 for wind pressure resistance						
N	Opening Protection products that appear to be A or B but are not verified						
	Other protective coverings that cannot be identified as A, B, or C						
X	No Windborne Debris Protection						

- ☒ **A. Exterior Openings Cyclic Pressure and 9-lb Large Missile (4.5 lb for skylights only)** All Glazed openings are protected at a minimum, with impact resistant coverings or products listed as wind borne debris protection devices in the product approval system of the State of Florida or Miami-Dade County and meet the requirements of one of the following for "Cyclic Pressure and Large Missile Impact" (Level A in the table above).

- Miami-Dade County PA 201, 202, and 203
- Florida Building Code Testing Application Standard (TAS) 201, 202, and 203
- American Society for Testing and Materials (ASTM) E 1886 and ASTM E 1996
- Southern Standards Technical Document (SSTD) 12
- For Skylights Only: ASTM E 1886 and ASTM E 1996
- For Garage Doors Only: ANSI/DASMA 115

☒ A.1 All Non-Glazed openings classified as A in the table above, or no Non-Glazed openings exist

☐ A.2 One or More Non-Glazed openings classified as Level D in the table above, and no Non-Glazed openings classified as Level B, C, N, or X in the table above

☐ A.3 One or More Non-Glazed Openings is classified as Level B, C, N, or X in the table above

- ☐ **B. Exterior Opening Protection- Cyclic Pressure and 4 to 8-lb Large Missile (2-4.5 lb for skylights only)** All Glazed openings are protected, at a minimum, with impact resistant coverings or products listed as windborne debris protection devices in the product approval system of the State of Florida or Miami-Dade County and meet the requirements of one of the following for "Cyclic Pressure and Large Missile Impact" (Level B in the table above):

- ASTM E 1886 and ASTM E 1996 (Large Missile – 4.5 lb.)
- SSTD 12 (Large Missile – 4 lb. to 8 lb.)
- For Skylights Only: ASTM E 1886 and ASTM E 1996 (Large Missile - 2 to 4.5 lb.)

☐ B.1 All Non-Glazed openings classified as A or B in the table above, or no Non-Glazed openings exist

☐ B.2 One or More Non-Glazed openings classified as Level D in the table above, and no Non-Glazed openings classified as Level C, N, or X in the table above

☐ B.3 One or More Non-Glazed openings is classified as Level C, N, or X in the table above

- ☐ **C. Exterior Opening Protection- Wood Structural Panels meeting FBC 2007** All Glazed openings are covered with plywood/OSB meeting the requirements of Table 1609.1.2 of the FBC 2007 (Level C in the table above).

☐ C.1 All Non-Glazed openings classified as A, B, or C in the table above, or no Non-Glazed openings exist

☐ C.2 One or More Non-Glazed openings classified as Level D in the table above, and no Non-Glazed openings classified as Level N or X in the table above

☐ C.3 One or More Non-Glazed openings is classified as Level N or X in the table above

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- ☐ **N. Exterior Opening Protection (unverified shutter systems with no documentation)** All Glazed openings are protected with protective coverings not meeting the requirements of Answer "A", "B", or "C" or systems that appear to meet Answer "A" or "B" with no documentation of compliance (Level N in the table above).
- ☐ N.1 All Non-Glazed openings classified as Level A, B, C, or N in the table above, or no Non-Glazed openings exist
- ☐ N.2 One or More Non-Glazed openings classified as Level D in the table above, and no Non-Glazed openings classified as Level X in the table above
- ☐ N.3 One or More Non-Glazed openings is classified as Level X in the table above
- ☐ **X. None or Some Glazed Openings** One or more Glazed openings classified and Level X in the table above.

MITIGATION INSPECTIONS MUST BE CERTIFIED BY A QUALIFIED INSPECTOR. Section 627.711(2), Florida Statutes, provides a listing of individuals who may sign this form.		
Qualified Inspector Name: Doug Conte	License Type: Home Inspector	License or Certificate #: HI3231
Inspection Company: Honor Construction Inspection Service		Phone: 321-327-2950

Qualified Inspector – I hold an active license as a: (check one)

- ☒ Home inspector licensed under Section 468.8314, Florida Statutes who has completed the statutory number of hours of hurricane mitigation training approved by the Construction Industry Licensing Board and completion of a proficiency exam.
- ☐ Building code inspector certified under Section 468.607, Florida Statutes.
- ☐ General, building or residential contractor licensed under Section 489.111, Florida Statutes.
- ☐ Professional engineer licensed under Section 471.015, Florida Statutes.
- ☐ Professional architect licensed under Section 481.213, Florida Statutes.
- ☐ Any other individual or entity recognized by the insurer as possessing the necessary qualifications to properly complete a uniform mitigation verification form pursuant to Section 627.711(2), Florida Statutes.

Individuals other than licensed contractors licensed under Section 489.111, Florida Statutes, or professional engineer licensed under Section 471.015, Florida Statutes, must inspect the structures personally and not through employees or other persons. Licensees under s.471.015 or s.489.111 may authorize a direct employee who possesses the requisite skill, knowledge, and experience to conduct a mitigation verification inspection.

I, Doug Conte am a qualified inspector and I personally performed the inspection or (*licensed*
(print name)
contractors and professional engineers only) I had my employee () perform the inspection
(print name of inspector)
and I agree to be responsible for his/her work.

Qualified Inspector Signature: [Signature] Date: 05/14/2014

An individual or entity who knowingly or through gross negligence provides a false or fraudulent mitigation verification form is subject to investigation by the Florida Division of Insurance Fraud and may be subject to administrative action by the appropriate licensing agency or to criminal prosecution. (Section 627.711(4)-(7), Florida Statutes) The Qualified Inspector who certifies this form shall be directly liable for the misconduct of employees as if the authorized mitigation inspector personally performed the inspection.

Homeowner to complete: I certify that the named Qualified Inspector or his or her employee did perform an inspection of the residence identified on this form and that proof of identification was provided to me or my Authorized Representative.

Signature: _____ Date: _____

An individual or entity who knowingly provides or utters a false or fraudulent mitigation verification form with the intent to obtain or receive a discount on an insurance premium to which the individual or entity is not entitled commits a misdemeanor of the first degree. (Section 627.711(7), Florida Statutes)

The definitions on this form are for inspection purposes only and cannot be used to certify any product or construction feature as offering protection from hurricanes.

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Address



Front



Front 2



Right



Rear



Left



Membrane



Membrane



Metal



Concrete roof deck



Impact Rated



Impact Rated



Impact Rated



PGT / Impact rated windows



PGT / Impact rated window



Window engraving / PGT



Impact Rated

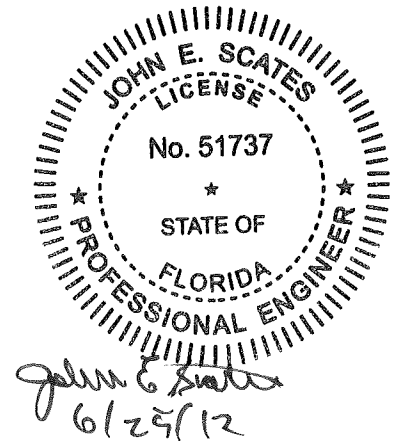
John E. Scates, Professional Engineer

3121 Fairgate Dr.
Carrollton TX 75007
fax (972) 492-0077 | office (972) 492-9500

June 25, 2012

C.H.I. Overhead Doors
1485 Sunrise Dr.
PO Box 260
Arthur, IL 61911

Re: FL 15012-R1
Evaluation Report for Residential Pan doors
Models 2240, 2241, 2250, 2251



At the request of C.H.I. Overhead Doors, I have reviewed the drawings and tests listed below and have concluded that the construction shown on these drawings comply with the structural requirements of the 2010 Florida Building Code. I certify that I meet the requirements of "independence" as detailed in Florida Statutes.

Rational analysis methods have been applied to define psf pressure ratings for each width. Each "static" pressure was evaluated based on its tested size to take the least of the results of bending moment and end load conditions. Each "impact" pressure was evaluated to be the least of the achieved impact psf (with no change or allowance for width variations) and the rationalized static psf. Widths greater than the impact-tested door width were not included.

This product has been tested and constructed to meet PSF specifications, not MPH. The conversion of MPH to PSF requires site-specific information that is unknown to the manufacturer. Estimated MPH values are offered for comparison, but are not certified.

Drawings:

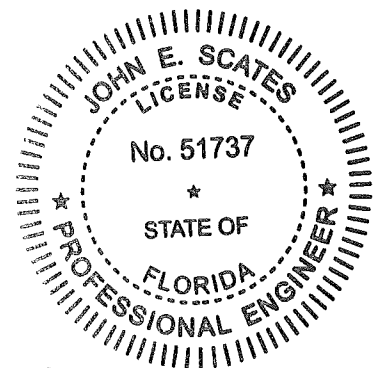
These products are for static pressure only:

FZ3-10-01311	06'-00" through 14'-00"
FZ3-16-01311	08'-00" through 21'-00"
FZ4-09-01311	06'-00" through 13'-08"
FZ4-10-01311	06'-00" through 15'-02"
FZ4-16-01311	14'-02" through 24'-00"

FZ5-10-01311	06'-00" through 16'-06"
FZ5-16-01311	08'-00" through 24'-00"
FZ6-09-01311	06'-00" through 09'-02"
FZ6-10-01311	06'-00" through 17'-08"
FZ6-16-01311	08'-00" through 24'-00"
FZ7-16-01311	08'-00" through 24'-00"
FZ7-18-01311	09'-00" through 24'-00"
FZ8-10-01311	06'-00" through 19'-06"
FZ8-16-01311	08'-00" through 24'-00"
FZ8-18-01311	08'-00" through 24'-00"
FZ9-09-01311	06'-00" through 09'-04"
FZ9-18-01311	08'-08" through 24'-00"
FZ10-09-01311	06'-00" through 14'-02"
FZ10-16-01311	08'-08" through 24'-00"
FZ10-18-01311	09'-10" through 24'-00"

These products are for static and impact (windborne debris):

FZ4i-16-01511	up to 16'-02" wide
FZ4i-18-01511	up to 18'-00" wide
FZ6i-09-01511	up to 09'-00" wide
FZ6i-16-01511	up to 16'-02" wide
FZ7i-09-01511	up to 09'-11" wide
FZ7i-10-01511	up to 10'-06" wide
FZ7i-18-01511	up to 18'-00" wide



Test Reports

Static Tests:

9' wide

ATI 75882.01-602-47

ATI 75884.01-602-47

ATI 75888.01-602-47

ATI 86784.01-602-78

10' wide

ATI 75877.01-602-47

ATI 75880.01-602-47

ATI 75883.01-602-47

ATI 75885.01-602-47

ATI 75893.01-602-47

10'-6" wide

ATI 98398.01-602-44

16' wide

ATI 76338.02-602-47

ATI 76339.01-602-47

ATI 76340.01-602-47

ATI 76341.01-602-47

ATI 76343.01-602-47

ATI 76344.01-602-47

ATI 76345.01-602-47

18' wide

ATI 77052.01-602-47

ATI 77053.01-602-47

ATI 77056.01-602-47

Impact Tests:

9' wide

ATI 86495.01-602-78

16' wide

ATI 86494.01-602-78

ATI 91665.03-602-18

10'-6" wide

ATI 97308.01-602-44

18' wide

ATI 86491.01-602-78

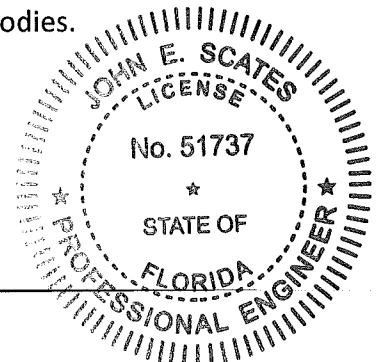
ATI 91667.03-602-18

ATI 97309.01-602-44

Testing

Impact, cyclic and static tests were conducted by Architectural Testing of Schofield, WI at the Schofield location. Static tests were also conducted by ATI at the C.H.I. Overhead Doors "in house" test facility in Arthur, IL. The accreditation of these test facility locations has been certified by Florida listed Product Accreditation Bodies. The accreditation of the Schofield location of Architectural Testing and C.H.I. Overhead Doors "in house" test facility in Arthur, IL, continue to be recertified by the same Florida listed Product Accreditation Bodies.

John E. Scates
3 6/25/12



Static pressure testing was conducted in accordance with ANSI/DASMA 108-02 and/or ANSI/DASMA 108-05. ANSI/DASMA 108-02 is equivalent to 108-05. The testing also complied with the requirements of ASTM E330-02 as an equivalent test procedure for garage doors.

Large Missile impact and cycling tests were conducted in accordance with ANSI/DASMA 115-05 as well as ASTM E1886-05/E1996-09. These doors are not intended for the High Velocity Hurricane Zone (HVHZ).

The designs reflected on the drawings represent the "worst case" construction of the doors if there were slight differences between the DASMA 108 Static and DASMA 115 Impact tested products. The strongest or most reinforced features were incorporated to ensure compliance, as rational engineering analysis.

Installation

The drawings provide installation instructions peculiar to windload reinforcement. "Supplemental_Instructions_Pan" include additional details.

Anchorage Requirements:

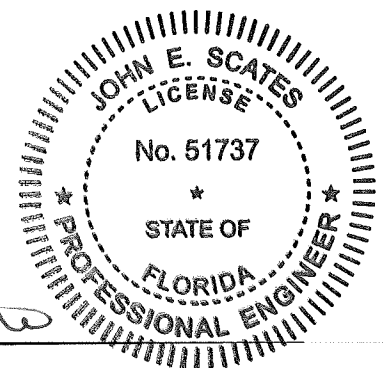
Attachment drawings provided by C.H.I. Overhead Doors detail how to fasten back jambs equivalent in strength to southern pine or spruce pine fir to the structure. Fasteners used to secure the back jambs must be long enough to achieve the minimum embedment as specified.

The direct mounting of door track on top of drywall or other non structural material is outside of the scope of C.H.I. Overhead Doors wind load evaluations. Residential garage door track generally has small metal pads that contact the drywall. The loads generated during high wind events may be concentrated by these pads. C.H.I. Overhead Doors promotes the use of back jambs to effectively absorb and redistribute wind loads.

Mounting of 2x6 wood "Back Jamb" or "bucks" to the building structure as a surface to secure the track brackets are detailed on these C.H.I. attachment drawings, depending upon the type of wall construction:

BJA-101-02 using Concrete Anchors

BJA-102-01 using Lag Screws



If mounting of the track directly to steel building jambs is desired, more fasteners and track brackets may be necessary in addition to those shown on the drawings to obtain sufficient track attachment. This C.H.I. attachment drawing provides guidelines:

BJA-103-01 Steel Attachment Detail
BJA-104-02 CMU Filled Attachment Detail
BJA-105-01 Concrete Attachment Detail

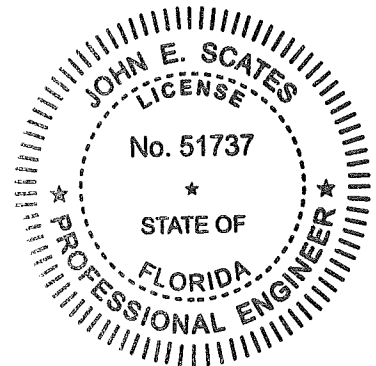
This Evaluation Report does not address design of the wall/jambs themselves. These attachment drawings only illustrate common means to attach the jambs to the wall. Walls and Jambs should be designed (by others) to withstand the loads imposed by door onto the building. Additional information is available in DASMA TDS-161 (Technical Data Sheet) at www.dasma.com.

Model Description

All doors in this evaluation are 2" thick overall. In each family of doors, the weakest or thinnest skin product was tested to prove the entire family line. Thus, all of these door model variations are approved for each family of the drawings:

2250 family includes:

2250 - 25 gage pan with standard emboss
2251 - 2250 w/ insulation
2240 - 2250 but 24 gage pan.
2241 - 2251 but 24 gage pan.



Limitations

The drawings cited above are an explicit part of this evaluation report. The text of this report does not attempt to address all design details, but relies upon the illustrations and text of these drawings and instructions as well.

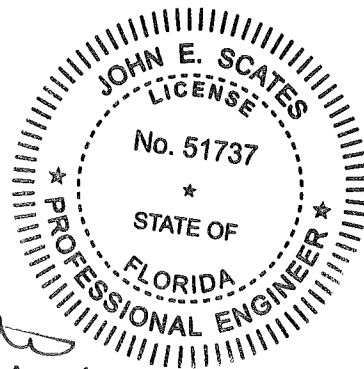
Each door should be chosen based on the "psf" requirement determined for a specific installation or locale.

The horizontal track may be reinforced with an angle as needed to support the door weight. The construction of the horizontal track, including the track thickness and additional support when needed, is determined by C.H.I. Overhead Doors and does not affect this windload evaluation.

The rated pressures may not be achieved unless the door is held closed during the wind event. Both tracks must be engaged with a lock (right and left side), or alternately an electric operator attached to the door prior to the wind event.

Certain doors have been tested to Large Missile Impact requirements of the wind-borne debris regions, designated with an "i" in the drawing name. In addition, steel doors not tested for wind-borne debris *may* be allowed for use in the wind-borne debris region per FBC if they do not contain glazing.

These products have not been fully evaluated for use in the Florida High Velocity Hurricane Zone (HVHZ).



John E. Scates
John E. Scates, P.E. 6/25/12
Florida PE # 51737

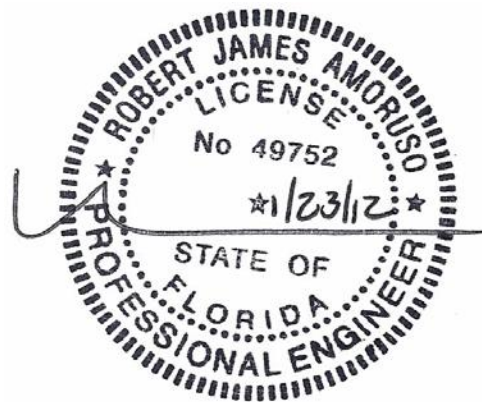


Product Evaluation Report

Date:	January 23, 2012
Report #:	2029
Report Revision No.:	Original Issue
Project #:	411-0918
Product Mfg.:	Surewood Doors 145 Power Sports Dr. Ellijay, GA 30536
Product Description:	1 3/4" IS & OS Glazed/Opaque Single & Double Impact Door W/ & W/Out Sidelites
Product Category:	Exterior Doors
Product Sub-Category:	Swinging Exterior Door Assemblies
Compliance Method:	Product Approval Rule 9N-3.005(1)(d) – Product Evaluation Method by FL P.E.
Prepared By:	Robert J. Amoruso, P.E. Florida P.E. No. 49752 PTC Product Design Group, LLC, PO Box 520775, Longwood, FL 32752-0775 Florida C of A No. 25935

CERTIFICATED OF INDEPENDENCE

PTC Product Design Group, LLC and Robert J. Amoruso, P.E. do not have, nor will acquire, any financial interest in the company manufacturing or distributing product(s) covered by the aforementioned Product Evaluation Report. PTC Product Design Group, LLC and Robert J. Amoruso, P.E. do not have, nor will acquire any financial interest in any other entity involved in the approval process or testing of the product(s) covered by the aforementioned Product Evaluation Report.



Robert J. Amoruso, P.E.
Florida P.E. License Number 49752



SCOPE

PTC Product Design Group, LLC was contracted by Surewood Doors to perform (a) substrate anchor engineering, (b) preparation of the manufacturer's Installation Drawings, and (c) preparation of a Product Evaluation Report for their 1 3/4" IS & OS Glazed/Opaque Single & Double Impact Door W/ & W/Out Sidelites to the 2010 FBC excluding those sections of the code pertaining to the High Velocity Hurricane Zone.

The engineering analysis (Reference 3) determines the anchorage of the product to the supporting substrate and the product evaluation report (this document) summarizes 2010 FBC compliance verification and appropriate Limitations and Conditions of Use.

DESCRIPTION OF PRODUCT – INSTALLATION REQUIREMENTS

See Reference 1 for a description of the product, its installation and other pertinent data related to its approved use.

CODE CONFORMANCE, LIMITATIONS AND CONDITIONS OF USE

1. This product has been evaluated and is in compliance with the 2010 Florida Building Code, excluding the High Velocity Hurricane Zone (HVHZ).
2. Product anchors shall be as designated and located as shown on the installation drawings. Anchor embedment and edge distance exclude wall finishes including, but not limited to sheathing, underlayment and shingles.
3. When installed in locations where impact protection requirements exist, use of an impact protective system complying with the FBC requirements for windborne debris regions is not required for the product herein.
4. The installation details described in the referenced installation drawings are generic and may not reflect actual conditions for a specific site. If site conditions cause installation to deviate from the requirements detailed in the referenced installation drawings, site specific documents shall be prepared for use with this document by a licensed professional engineer or registered architect.
5. See Reference 1 installation instructions for maximum fenestration sizes, design pressure limitations and installation specific details.

QUALITY ASSURANCE

This product is manufactured under a quality assurance program audited by an approved Certification Entity and Quality Assurance Entity **National Accreditation & Management Institute (NAMI)**. See FBC Organization No. CER1773 and QUA1789 respectively for approval under Rule 9N-3.



APPLICATIONS/INSTALLATIONS OUTSIDE THE LIMITATIONS AND CONDITIONS OF USE

Rule 9N-3.005(1)(e) states “Rational engineering analysis cannot be used in lieu of a standard test required by the Code for approval of products within the scope of the standard, except that project specific approval by the local authorities having jurisdiction in accordance with alternate methods and materials authorized in the Code.” Any modification to this product as evaluated in this report and approved by the Florida Building Commission is outside the scope of this evaluation and will be the responsibility of others. As allowed in Rule 9N-3.005(1)(e), a project specific approval by the local authorities having jurisdiction may be used given an appropriate rational analysis is conducted and deemed acceptable to the local authorities having jurisdiction.

PERFORMANCE AND TESTING STANDARDS

Reference 2 conducted testing to the following standard(s).

1. ASTM E283-04, Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
2. ASTM E330-02, Standard Test Method for Structural Performance of Exterior windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.
3. ASTM E331-00, Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
4. ASTM E1886-02, Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by missile(s) and Exposed to Cyclic Pressure Differentials.
5. ASTM E1996-02, Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes.
6. TAS201-94, Impact Test Procedures.
7. TAS202-94, Criteria for Testing Impact & Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure.
8. TAS203-94, Criteria for Testing Products Subjected to Cyclic Wind Pressure Loading.

REFERENCES & SUPPORTING DOCUMENTS

1. Drawings
 - a. Drawing No. SWD0060, Rev, A and SWD0068, Rev. A, both Dated 01/23/12, signed and sealed on 01/23/12 by Robert J. Amoruso, P.E., Surewood Doors, 1 3/4" IS & OS Glazed/Opaque Single & Double Impact Door W/ & W/Out Sidelites *Installation Anchorage Details*.



2. Test Reports

- a. Testing Evaluation Laboratories, Inc., 2002 Wood Court, Plant City, FL. 33563
 - i. TEL #2004-08-30-020
 - ii. TEL #06-0418-1
 - iii. TEL #05-1008-3-A
- b. National Certified Testing Laboratories, 8350 Parkline BLVD., Orlando, FL. 32809
 - i. NCTL-210-3581-1

3. Reports

- a. PTC Report No. 1425 and No. 1426, *Surewood Doors, 1 3/4" IS & OS Glazed/Opaque Single & Double Impact Door W/ & W/Out Sidelites, Anchorage Engineering*, Dated 06/09/2009 signed and sealed by Paul E. Winter, P.E.
- b. PTC Report No. 2029, *Surewood Doors, 1 3/4" IS & OS Glazed/Opaque Single & Double Impact Door W/ & W/Out Sidelites, Equivalency Evaluation to the 2010 FBC*, Dated 1/23/12, signed and sealed by Robert J. Amoruso, P.E.

4. 2010 Florida Building Code

- a. R301.2.1.2 Opening Protection
- b. R612.6 Testing and Labeling
- c. R612.10 Anchorage methods
- d. 1609.1.2 Opening Protection
- e. 1715.5.2 Exterior windows, sliding and patio glass doors
- f. 1715.5.4 Anchorage methods



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

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

PGT Industries
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-701/ 720/ 820" Aluminum Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. MD-720-820, titled "Series Fixed Window Installation Guidelines", sheets 01 through 10 of 10, dated 07/14/03 with the latest revision dated 07/01/13, 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 revises and renews NOA No. 11-1110.15 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.**



J. Gascon
7/5/13

NOA No. 13-0502.03
Expiration Date: February 19, 2019
Approval Date: July 18, 2013
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **MD-720-820**, titled "Series Fixed Window Installation Guidelines", sheets 01 through 10 of 10, dated 07/14/03 with the latest revision dated 07/01/13, prepared by manufacturer, signed and sealed 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 202-94along with marked-up drawings and installation diagram of aluminum fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7212**, dated 03/21/13, signed and sealed by Marlin D. Brinson, P. E.
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 203-94along with marked-up drawings and installation diagram of aluminum fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.'s **FTL-3835** and **FTL-3850**, dated 07/18 and 31/03, all signed and sealed by Joseph C. Chan, P. E.
(Submitted under previous NOA No. 03-1105.01)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-2010**, prepared by manufacture, dated 04/29/13, signed and sealed by Anthony L. Miller, P. E.
2. **Glazing complies with ASTM E1300-09**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).



Jaime D. Gascon, P. E.

Product Control Section Supervisor

NOA No. 13-0502.03

Expiration Date: February 19, 2019

Approval Date: July18, 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. **11-0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
3. TREMCO Part No. **TR-14271E** EPDM exterior glazing gasket complying with the following:
 - a) ASTM C864 Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers with Option II exceptions.
 - b) ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension of 1600 PSI.
 - c) ASTM D395B Test Methods for Rubber Property—Compression Set for 22 HRS 158°F.
 - d) ASTM D 624 Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers of 143 lb/ in.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-2010**, issued by manufacture, dated 04/29/13, signed and sealed by Anthony Lynn Miller, P. E.
2. Statement letter of no financial interest, issued by manufacture, dated 04/29/13, signed and sealed by Anthony Lynn Miller, P.E.
3. Laboratory compliance letter for Test Report No. **FTL-7212**, dated 03/21/13, signed and sealed by Marlin D. Brinson, P. E.
4. Proposal issued by Product Control, dated 07/26/12, signed by Jaime D. Gascon, P. E.
5. Laboratory compliance letter for Test Reports No.'s **FTL-3835** and **FTL-3850**, dated 07/18 and 31/03, all signed and sealed by Joseph C. Chan, P. E.
(Submitted under previous NOA No. 03-1105.01)

G. OTHERS

1. Notice of Acceptance No. **11-1110.15**, issued to PGT Industries for their Series "PW-701 Aluminum Fixed Window – L.M.I." approved on 02/02/12 and expiring on 02/19/14.



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 13-0502.03
Expiration Date: February 19, 2019
Approval Date: July 18, 2013

GENERAL NOTES: SERIES 720/820
IMPACT-RESISTANT FIXED WINDOW

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS. FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ, THE OUTBOARD LITE (CAP) MUST TEMPERED.

3) FOR MASONRY APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED MASONRY ANCHORS. MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, ASTM C90 CONCRETE MASONRY UNITS AND CONCRETE WITH MIN. KSI PER ANCHOR TYPE.

4) 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, (EOR) OR ARCHITECT OF RECORD, (AOR).

5) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT EMBEDMENT. NARROW JOINT SEALANT IS USED ON ALL FOUR CORNERS OF THE FRAME. INSTALLATION ANCHORS SHOULD BE SEALED. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

6) MAX. 1/4" SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.

7) DESIGN PRESSURES:

A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL/CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300-09.

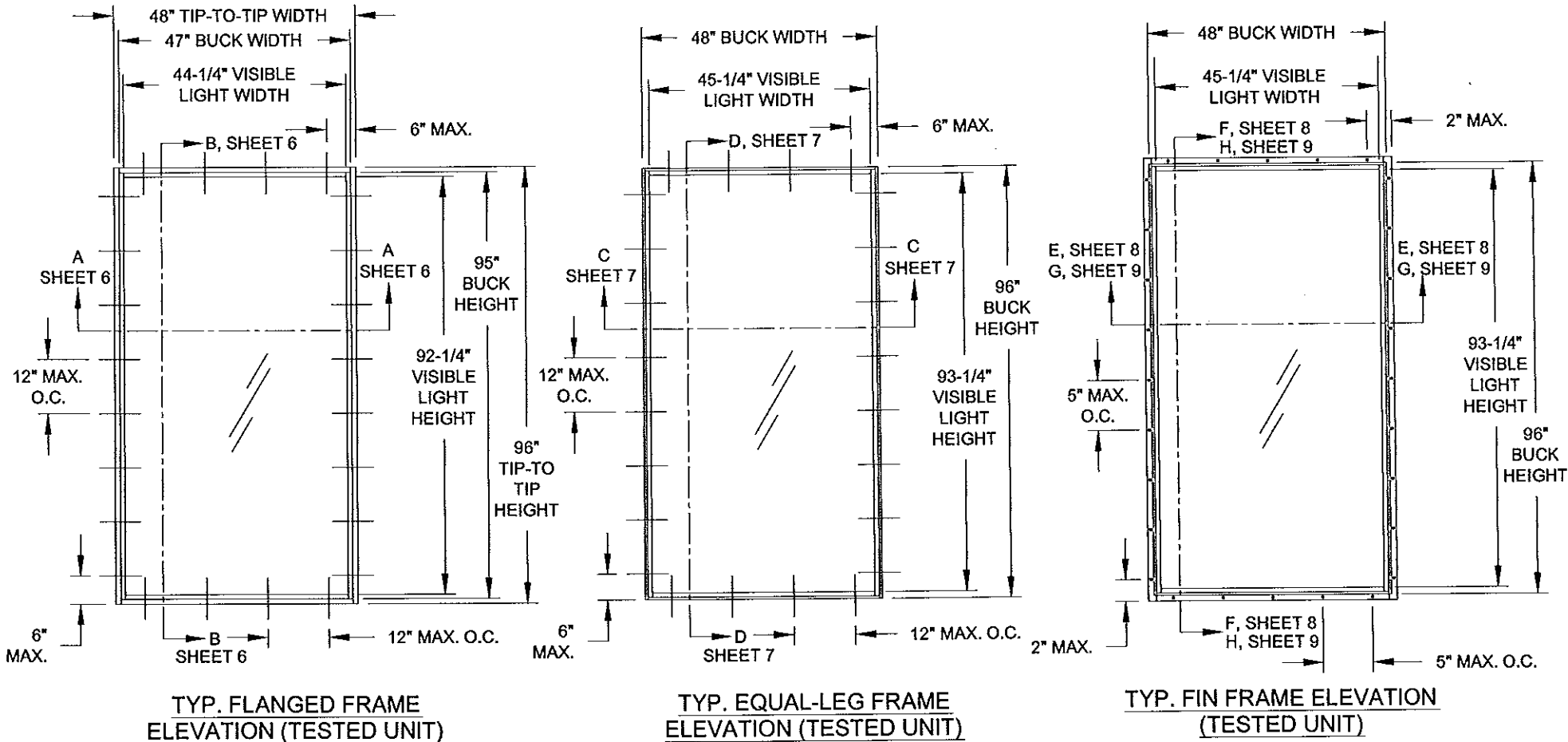
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL/ CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300-09.

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) REFERENCES: TEST REPORTS FTL-3835, 3850 & 7212; ELCO ULTRACON NOA; ELCO CRETEFLEX NOA; ANSI/AF&PA NDS FOR WOOD CONSTRUCTION - (2005) AND ADM ALUMINUM DESIGN MANUAL - (2005).

10) THE 720 SERIES USES A PVB INTERLAYER, THE 820 SERIES USES AN SG INTERLAYER. THE 720 AND 820 SERIES MAY ALSO BE REFERRED AS THE 701 SERIES.

DESIGN PRESSURE RATING	IMPACT RATING
VARIES, SEE SHEETS 2-5	RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE



GUIDE TO SHEETS:

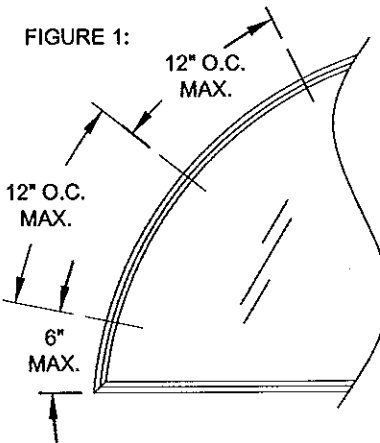
GENERAL NOTES.....	1
ELEVATIONS.....	1
GLAZING DETAILS.....	2-5
DESIGN PRESSURES.....	2-5
INSTALLATION, FLANGE.....	6
INSTALLATION, EQUAL-LEG.....	7
INSTALLATION, INT. FIN A.....	8
INSTALLATION, INT. FIN B.....	9
CORNER ASSEMBLY.....	10
EXTRUSION PROFILES.....	10
PARTS LIST.....	10

TABLE 1:

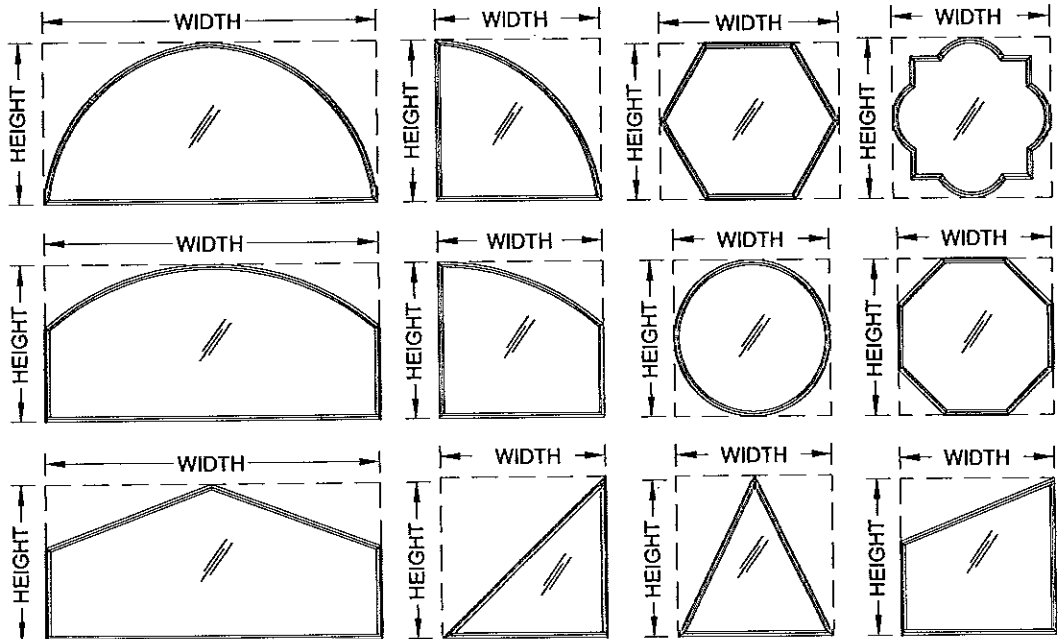
Type #	Description	Sheet #
1	7/16" Lami (3/16" An - .090" PVB - 3/16" HS)	2
2	7/16" Lami (3/16" HS - .090" PVB - 3/16" HS)	2
3	1-1/16" Lami. IG (3/16" T - 7/16" Air - 3/16" An - .090" PVB - 3/16" HS)	3
4	1-1/16" Lami. IG (3/16" T - 7/16" Air - 3/16" HS - .090" PVB - 3/16" HS)	3
5	7/16" Lami (3/16" An - .090" SG - 3/16" An)	4
6	7/16" Lami (3/16" HS - .090" SG - 3/16" HS)	4
7	1-1/16" Lami. IG (3/16" T - 7/16" Air - 3/16" An - .090" SG - 3/16" An)	5
8	1-1/16" Lami. IG (3/16" T - 7/16" Air - 3/16" HS - .090" SG - 3/16" HS)	5

"SG" = "DUPONT® SENTRYGLAS INTERLAYER" BY E.I. DUPONT
DENEMOURS & CO., INC.

FIGURE 1:



SHAPES AS SHOWN BELOW OR SIMILAR, MAY BE USED BY INSCRIBING THE SHAPE IN A BLOCK AND OBTAINING DESIGN PRESSURES FOR THAT BLOCK SIZE FROM THE TABLES ON SHEETS 2-5. ANCHOR SPACING TO BE 6" MAX. FROM CORNERS AND 12" O.C. MAX. FOR ALL CURVED FRAME MEMBERS, SEE FIGURE 1, THIS SHEET.



PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 13-0502.03
Expiration Date 02/19/2019
By *[Signature]*
Miami Dade Product Control

Rev 1	
Rev 2	
Rev 3	

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
(941) 480-1600

4/12/13
Date
J ROSOWSKI
By
Drawn
MD-720-820.1
Rev.
1 OF 10
DWC
No.
1 OF 10
Sheet
NTS
Scale
PW-720
PW-820
Series

PG
CERT. OF AUTH. #29296
FIXED WINDOW INSTALLATION GUIDELINES
GENERAL NOTES & ELEVATION

ANTHONY LYNN MILLER
LICENSE
No. 58705
A-B
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 2:

		Window Design Pressure (+/-, psf) for Glass Type 1										
		Long Side (in)										
		67-7/8	72	76	80	84	88	92	96	100	104	109-1/2
Short Side (in)	30	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	32	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	34	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-79.8	+/-79.4
	36	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-79.7	+/-77.2	+/-75.1	+/-73.4	+/-72.2
	38	+/-80	+/-80	+/-80	+/-80	+/-80	+/-78.1	+/-75.2	+/-72.5	+/-70.3	+/-68.5	+/-66.3
	40	+/-80	+/-80	+/-80	+/-79.8	+/-77.2	+/-74.3	+/-71.3	+/-67.9	+/-65.1	+/-63.4	+/-61.6
	42	+/-80	+/-80	+/-80	+/-77.4	+/-74.3	+/-71.3	+/-68.2	+/-64.7	+/-61.6	+/-59.8	+/-58.2
	44	+/-80	+/-80	+/-78.9	+/-75.4	+/-72.1	+/-68.9	+/-65.6	+/-62.2	+/-59.7	+/-57.5	
	46	+/-80	+/-80	+/-77.2	+/-73.6	+/-70.1	+/-66.8	+/-63.5	+/-60.3	+/-57.7		
	48	+/-80	+/-79.3	+/-75.6	+/-71.9	+/-68.3	+/-64.9	+/-61.5	+/-58.2			
	50	+/-80	+/-77.5	+/-74.1	+/-70.3	+/-66.7	+/-63.1	+/-59.7				
	52	+/-79.1	+/-75.6	+/-72.4	+/-68.8	+/-65.1	+/-61.5					
	54	+/-77.4	+/-73.8	+/-70.5	+/-67.3	+/-63.5						
	56	+/-75.8	+/-72	+/-68.6	+/-65.3							
	58	+/-74.2	+/-70.3	+/-66.8								
	60	+/-72.7	+/-68.7	+/-65								
	62	+/-71.2	+/-67.1									
	64	+/-69.7	+/-65.5									
	66	+/-68.3										
	67-7/8	+/-67										

NOTES:
1) BUCK DIMENSIONS SHOWN. FOR FLANGED WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION TO DETERMINE THE BUCK DIMENSION.
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG DIMENSION.
3) FOR ARCHITECTURAL WINDOWS, FIND THE SMALLEST WINDOW SIZE IN THE TABLE ABOVE WHICH THE OVERALL DIMENSIONS COMPLETELY FIT WITHIN.

TABLE 3:

		Window Design Pressure (+/-, psf) for Glass Type 3										
		Long Side (in)										
		67-7/8	72	76	80	84	88	92	96	100	104	109-1/2
Short Side (in)	30	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	32	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	34	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	36	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	38	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-79.4	+/-76.4	+/-74.3
	40	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-76.7	+/-73.5	+/-70.9	+/-69
	42	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-77	+/-73.1	+/-69.6	+/-66.9	+/-65.2
	44	+/-80	+/-80	+/-80	+/-80	+/-80	+/-77.8	+/-74.1	+/-70.3	+/-67.5	+/-63.9	
	46	+/-80	+/-80	+/-80	+/-80	+/-79.2	+/-75.4	+/-71.7	+/-68.1	+/-65.1		
	48	+/-80	+/-80	+/-80	+/-80	+/-77.2	+/-73.3	+/-69.5	+/-65.8			
	50	+/-80	+/-80	+/-80	+/-79.4	+/-75.3	+/-71.3	+/-67.5				
	52	+/-80	+/-80	+/-80	+/-77.7	+/-73.5	+/-69.5					
	54	+/-80	+/-80	+/-79.6	+/-76	+/-71.8						
	56	+/-80	+/-80	+/-77.5	+/-73.8							
	58	+/-80	+/-79.4	+/-75.4								
	60	+/-80	+/-77.6	+/-73.5								
	62	+/-80	+/-75.8									
	64	+/-78.8	+/-74									
	66	+/-77.2										
	67-7/8	+/-74.9										

NOTES:
1) BUCK DIMENSIONS SHOWN. FOR FLANGED WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION TO DETERMINE THE BUCK DIMENSION.
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG DIMENSION.
3) FOR ARCHITECTURAL WINDOWS, FIND THE SMALLEST WINDOW SIZE IN THE TABLE ABOVE WHICH THE OVERALL DIMENSIONS COMPLETELY FIT WITHIN.

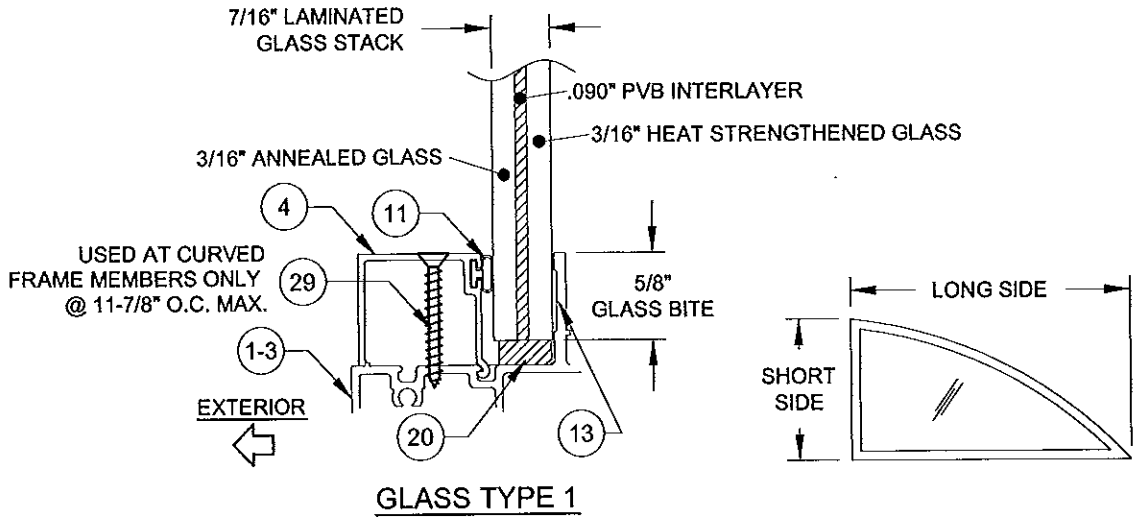
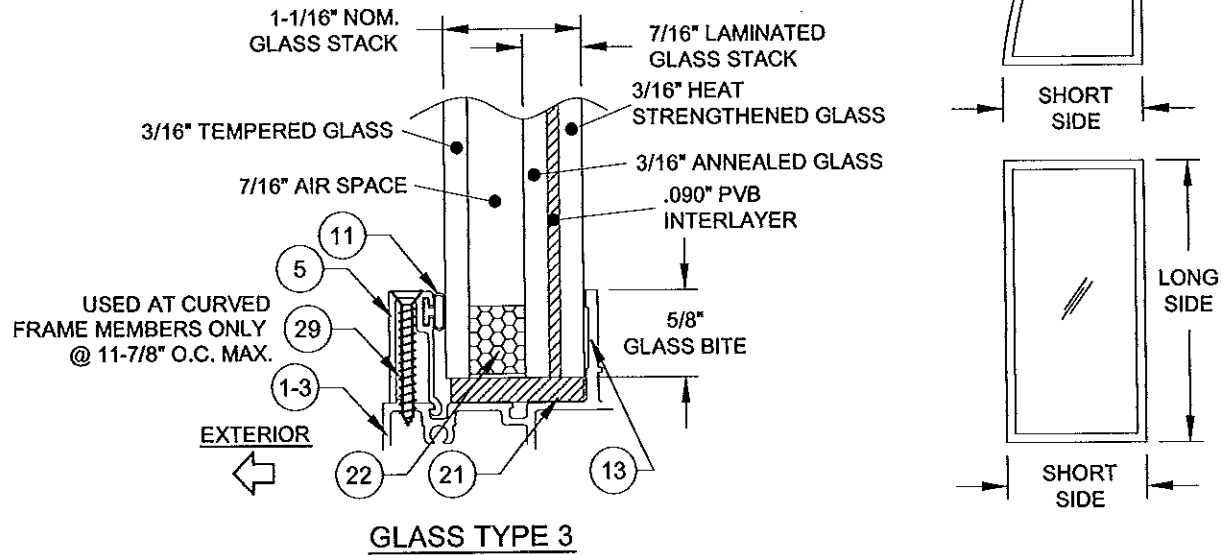


TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.



PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 13-0502.03
Expiration Date 02/19/2019
By Miami Dade Product Control

1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274 (941) 480-1600	4/12/13	J ROSOWSKI	Rev.
FIXED WINDOW INSTALLATION GUIDELINES	Date	By	MD-720-820.1
DESIGN PRESSURE TABLES 1	Drawn	No.	2 OF 10
CERT. OF AUTH. #29296	Scale	DWG	NTS
PW-720	Series	Desc.	
PW-820			

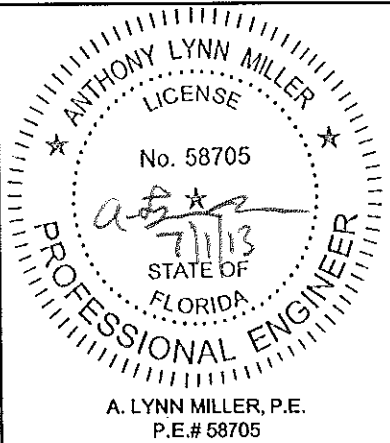
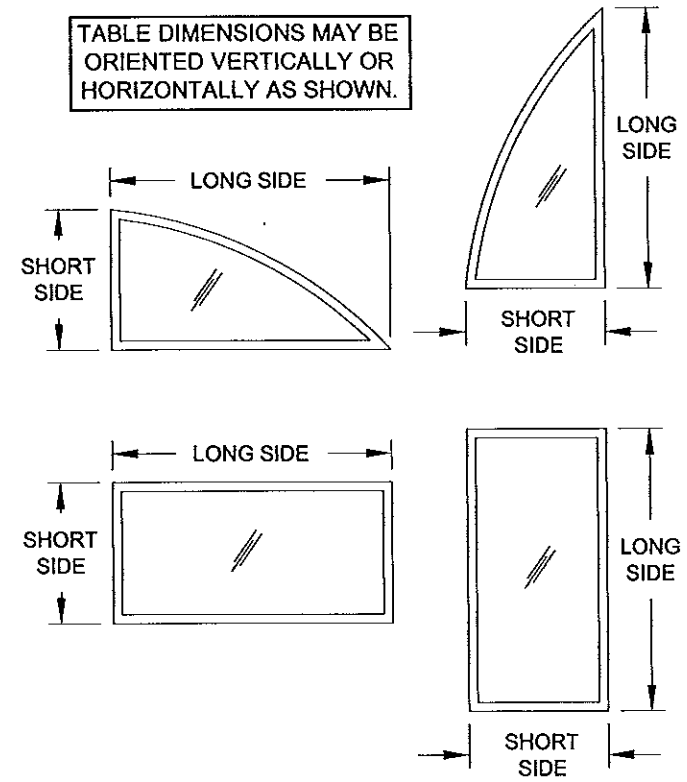
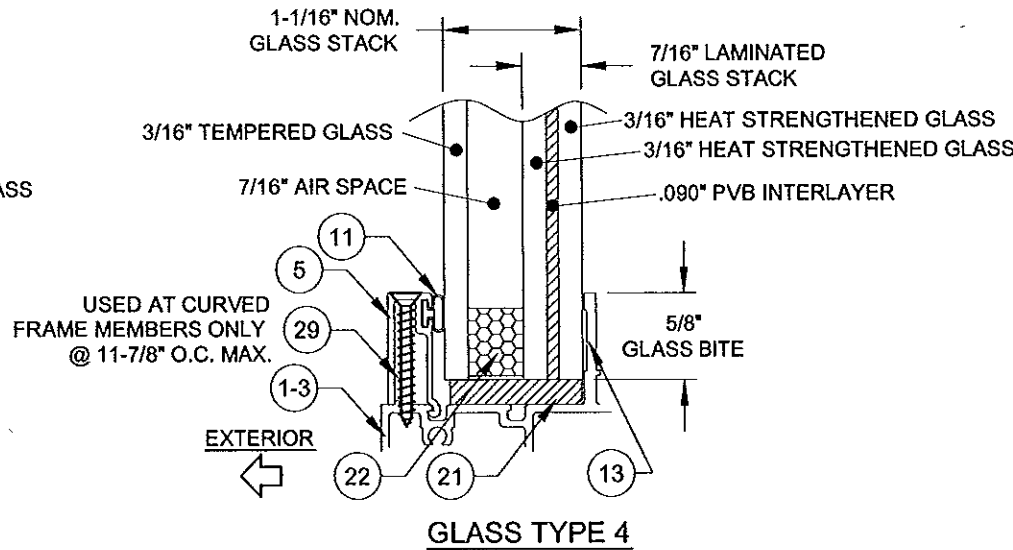
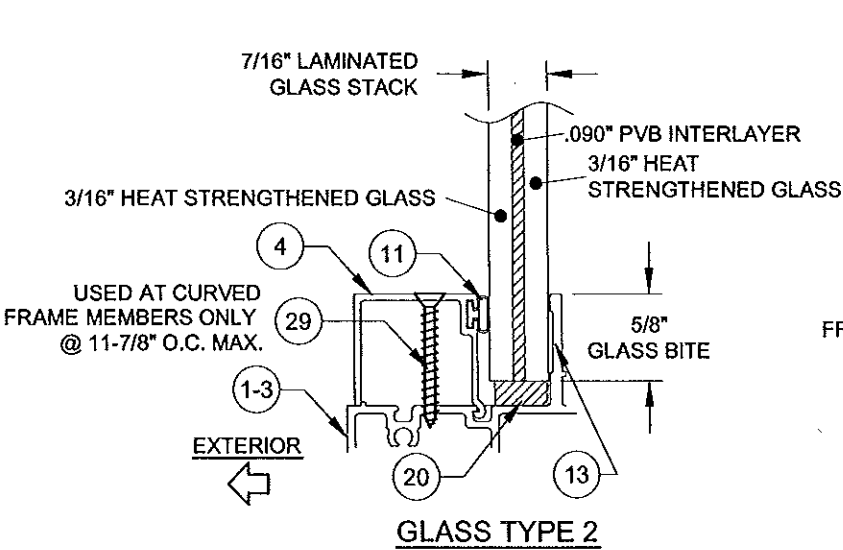


TABLE 4:

		Window Design Pressure (+/-, psf) for Glass Types 2 & 4																			
		Long Side (in)																			
		67-7/8	72	76	80	84	88	92	96	100	104	109-1/2	112	116	120	124	128	132	136	140	144
Short Side (in)	30	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	32	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	34	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	36	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	38	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	40	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	42	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	44	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	46	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	48	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	50	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	52	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	54	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	56	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	58	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	60	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	62	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	64	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	66	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	67-7/8	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80

NOTES:
1) BUCK DIMENSIONS SHOWN. FOR FLANGED WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION TO DETERMINE THE BUCK DIMENSION.
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG DIMENSION.
3) FOR ARCHITECTURAL WINDOWS, FIND THE SMALLEST WINDOW SIZE IN THE TABLE ABOVE WHICH THE OVERALL DIMENSIONS COMPLETELY FIT WITHIN.



PRODUCT RENEWED
as complying with the Florida
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Acceptance No. 13-0502-03
Expiration Date 02/19/2019
By [Signature]
Miami Dade Product Control

Rev.	1	2	3
Rev. 1			
Rev. 2			
Rev. 3			

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
(941)-480-1600

CERT. OF AUTH. #29296

FIXED WINDOW INSTALLATION GUIDELINES
DESIGN PRESSURE TABLES 2

4/12/13
J ROSOWSKI
MD-720-820.1
3 OF 10
PW-720
PW-820

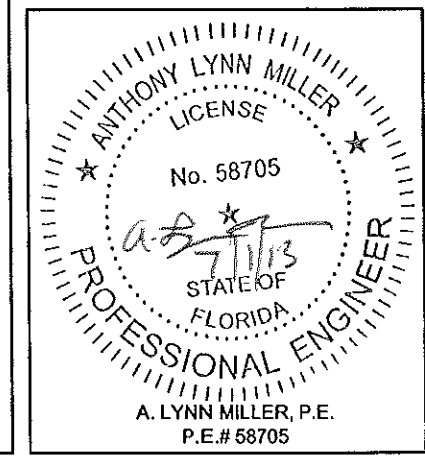


TABLE 5:

Window Design Pressure (+/-, psf) for Glass Type 5											
Short Side (in)	Long Side (in)										
	67-7/8	72	76	80	84	88	92	96	100	104	109-1/2
30	+90/-125.4	+90/-120	+90/-115.5	+90/-111.5	+90/-108.5	+90/-106	+90/-104.5	+90/-103.5	+90/-102.5	+90/-100.7	+90/-97.9
32	+90/-116.9	+90/-110.8	+90/-105.3	+90/-101.6	+90/-98.7	+90/-95.7	+90/-92.3	+90/-90.6	+90/-90.3	+/-89.9	+/-89
34	+90/-108.9	+90/-103	+90/-98.8	+90/-95.1	+90/-91.8	+/-88.2	+/-84.4	+/-81.5	+/-80.1	+/-79.8	+/-79.4
36	+90/-102.6	+90/-97.1	+90/-92.8	+/-88.9	+/-85.5	+/-82.6	+/-79.7	+/-77.2	+/-75.1	+/-73.4	+/-72.2
38	+90/-98.4	+90/-92.2	+/-86.7	+/-83.2	+/-80.7	+/-78.1	+/-75.2	+/-72.5	+/-70.3	+/-68.5	+/-66.3
40	+90/-94.6	+/-88.2	+/-82.6	+/-79.8	+/-77.2	+/-74.3	+/-71.3	+/-67.9	+/-65.1	+/-63.4	+/-61.6
42	+90/-91.3	+/-84.7	+/-80.7	+/-77.4	+/-74.3	+/-71.3	+/-68.2	+/-64.7	+/-61.6	+/-59.8	+/-58.2
44	+/-88.3	+/-82.4	+/-78.9	+/-75.4	+/-72.1	+/-68.9	+/-65.6	+/-62.2	+/-59.7	+/-57.5	
46	+/-85.4	+/-80.8	+/-77.2	+/-73.6	+/-70.1	+/-66.8	+/-63.5	+/-60.3	+/-57.7		
48	+/-82.7	+/-79.3	+/-75.6	+/-71.9	+/-68.3	+/-64.9	+/-61.5	+/-58.2			
50	+/-80.9	+/-77.5	+/-74.1	+/-70.3	+/-66.7	+/-63.1	+/-59.7				
52	+/-79.1	+/-75.6	+/-72.4	+/-68.8	+/-65.1	+/-61.5					
54	+/-77.4	+/-73.8	+/-70.5	+/-67.3	+/-63.5						
56	+/-75.8	+/-72	+/-68.6	+/-65.3							
58	+/-74.2	+/-70.3	+/-66.8								
60	+/-72.7	+/-68.7	+/-65								
62	+/-71.2	+/-67.1									
64	+/-69.7	+/-65.5									
66	+/-68.3	+/-67									
67-7/8	+/-67										

- NOTES:
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 - 2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG DIMENSION.
 - 3) FOR ARCHITECTURAL WINDOWS, FIND THE SMALLEST WINDOW SIZE IN THE TABLE ABOVE WHICH THE OVERALL DIMENSIONS COMPLETELY FIT WITHIN.
 - 4) THIS SHEET APPLIES ONLY TO FLANGE AND EQUAL-LEG WINDOWS. DO NOT USE WITH FIN-FRAMED WINDOWS.

TABLE 6:

Window Design Pressure (+/-, psf) for Glass Type 7											
Short Side (in)	Long Side (in)										
	67-7/8	72	76	80	84	88	92	96	100	104	109-1/2
30	+90/-130	+90/-130	+90/-130	+90/-126	+90/-122.6	+90/-119.8	+90/-118.1	+90/-117	+90/-115.8	+90/-112.7	+90/-109.9
32	+90/-130	+90/-125.1	+90/-118.9	+90/-114.8	+90/-111.5	+90/-108.1	+90/-104.3	+90/-102.4	+90/-102	+90/-101.4	+90/-99.7
34	+90/-123.1	+90/-116.4	+90/-111.7	+90/-107.5	+90/-103.8	+90/-99.7	+90/-95.3	+90/-92.1	+90/-90.5	+/-90	+/-89.6
36	+90/-116	+90/-109.8	+90/-104.8	+90/-100.5	+90/-96.6	+90/-93.3	+/-90	+/-87.3	+/-84.9	+/-82.3	+/-81.2
38	+90/-111.2	+90/-104.2	+90/-97.9	+90/-94	+90/-91.1	+/-88.2	+/-84.9	+/-81.9	+/-79.4	+/-76.4	+/-74.3
40	+90/-106.9	+90/-99.6	+90/-93.4	+90/-90.1	+/-87.2	+/-84	+/-80.5	+/-76.7	+/-73.5	+/-70.9	+/-69
42	+90/-103.2	+90/-95.7	+90/-91.2	+/-87.4	+/-84	+/-80.6	+/-77	+/-73.1	+/-69.6	+/-66.9	+/-65.2
44	+90/-99.7	+90/-93.1	+/-89.1	+/-85.2	+/-81.4	+/-77.8	+/-74.1	+/-70.3	+/-67.5	+/-63.9	
46	+90/-96.5	+90/-91.3	+/-87.2	+/-83.2	+/-79.2	+/-75.4	+/-71.7	+/-68.1	+/-65.1		
48	+90/-93.5	+/-89.6	+/-85.4	+/-81.2	+/-77.2	+/-73.3	+/-69.5	+/-65.8			
50	+90/-91.4	+/-87.6	+/-83.7	+/-79.4	+/-75.3	+/-71.3	+/-67.5				
52	+/-89.4	+/-85.5	+/-81.8	+/-77.7	+/-73.5	+/-69.5					
54	+/-87.5	+/-83.4	+/-79.6	+/-76	+/-71.8						
56	+/-85.6	+/-81.4	+/-77.5	+/-73.8							
58	+/-83.8	+/-79.4	+/-75.4								
60	+/-82.1	+/-77.6	+/-73.5								
62	+/-80.4	+/-75.8									
64	+/-78.8	+/-74									
66	+/-77.2										
67-7/8	+/-74.9										

- NOTES:
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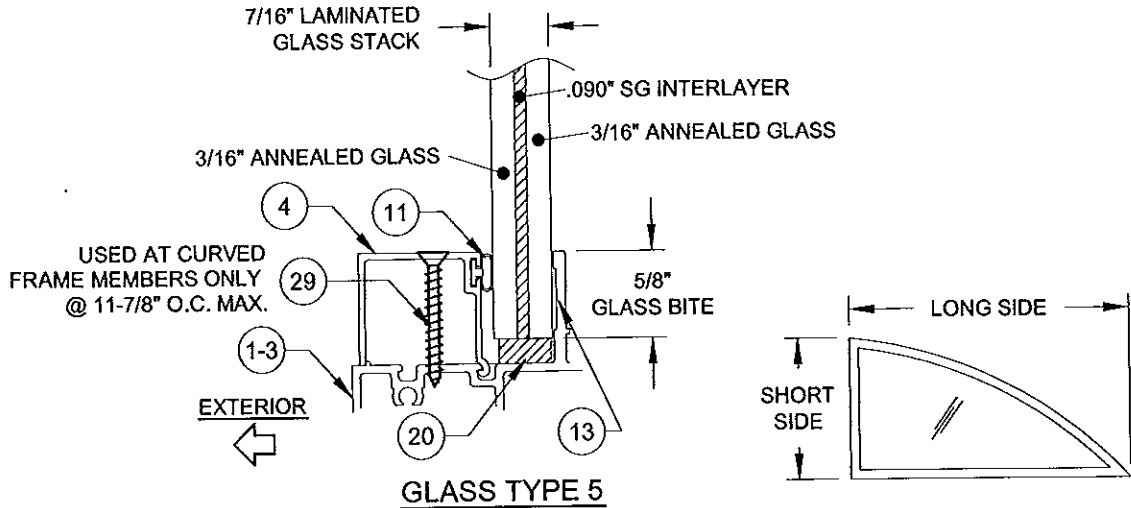
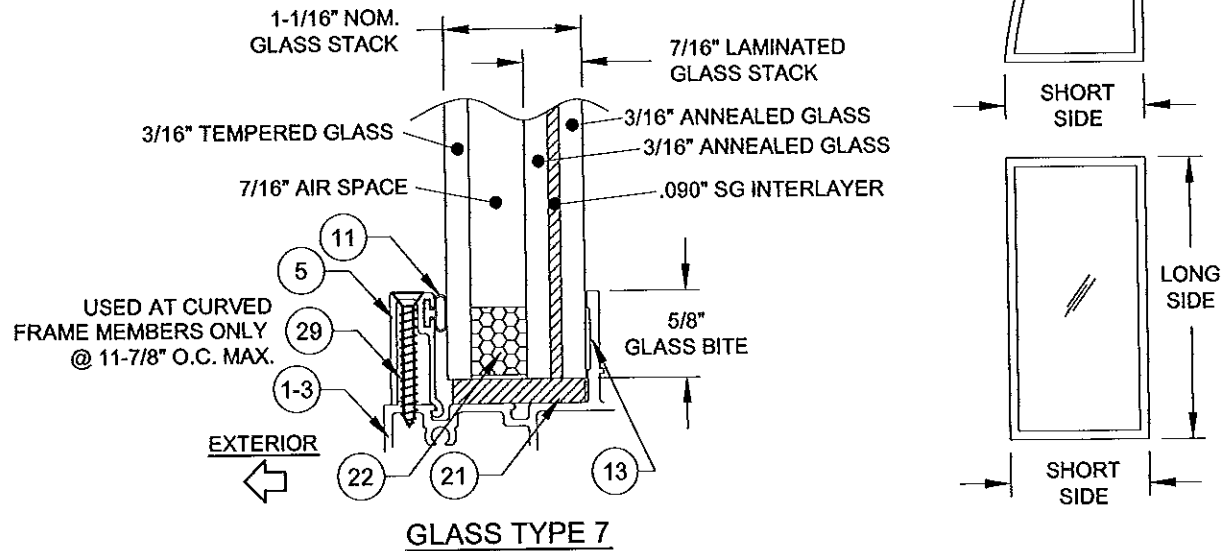


TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.



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1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
(941)-480-1600

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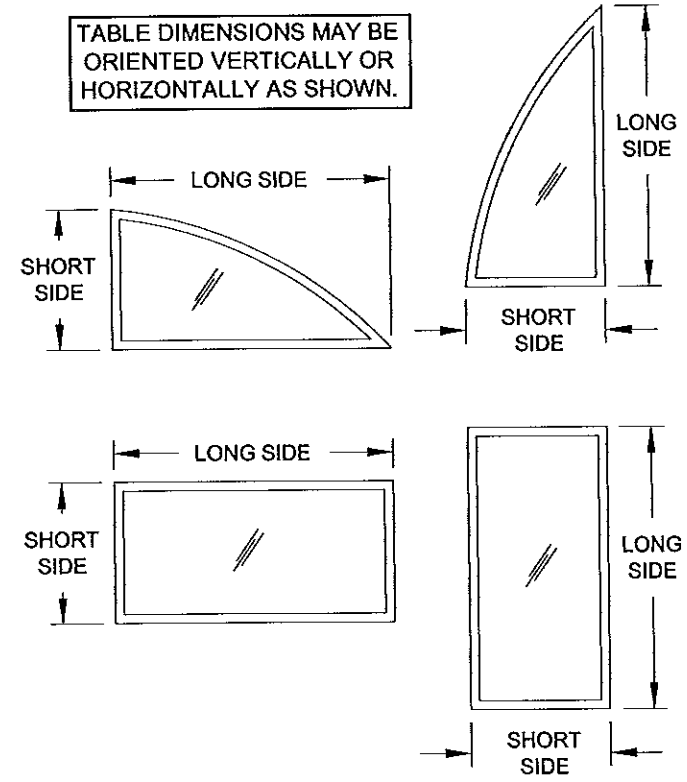
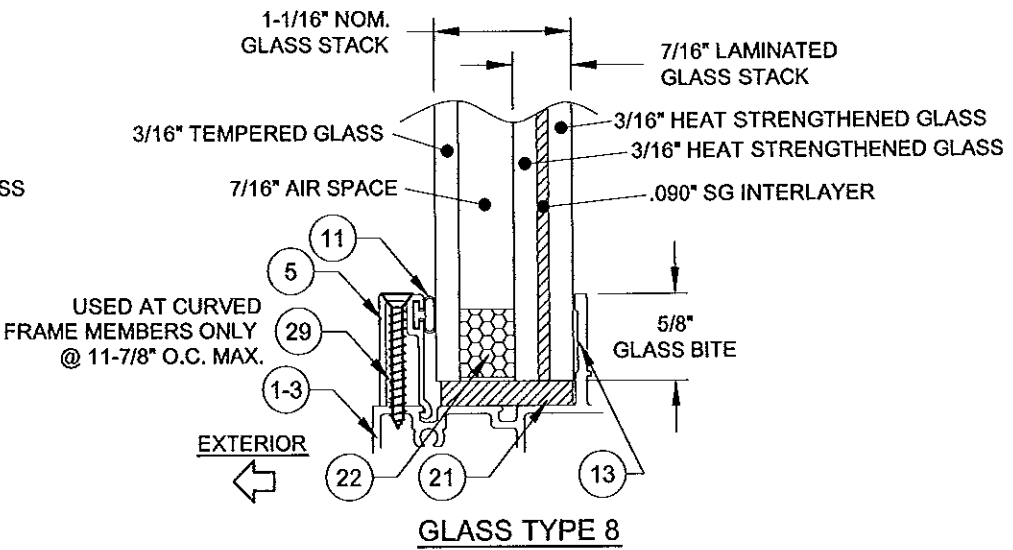
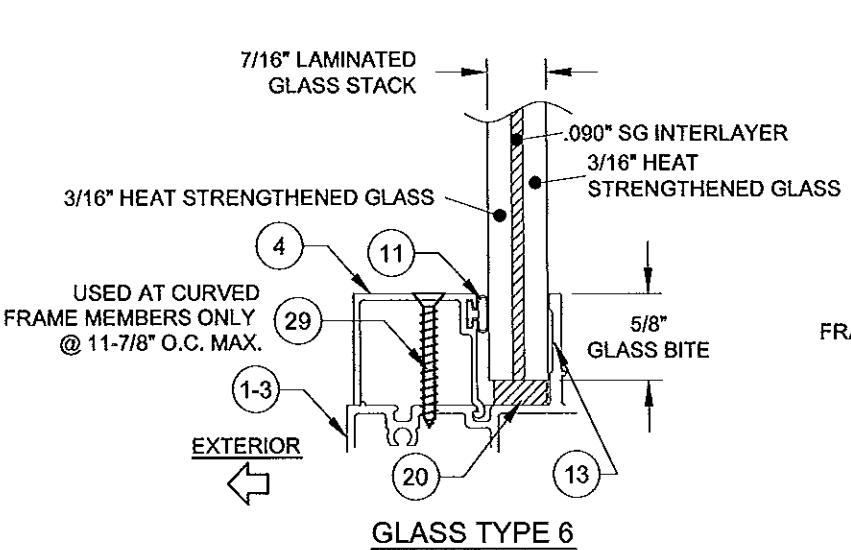
FIXED WINDOW INSTALLATION GUIDELINES 4/12/13
DESIGN PRESSURE TABLES 3
J ROSOWSKI
MD-720-820.1
4 OF 10
PW-720
PW-820

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 7:

		Window Design Pressure (+/-, psf) for Glass Types 6 & 8																			
		Long Side (in)																			
		67-7/8	72	76	80	84	88	92	96	100	104	109-1/2	112	116	120	124	128	132	136	140	144
Short Side (in)	30	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	32	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	
	34	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130		
	36	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130				
	38	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130				
	40	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-126.8	+90/-123.2	+90/-122								
	42	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-129.3	+90/-123.2	+90/-119.7	+90/-116.4								
	44	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-124.5	+90/-119.4	+90/-115									
	46	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-126.9	+90/-120.5	+90/-115.3										
	48	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-129.7	+90/-123	+90/-116.5											
	50	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-126.2	+89.4/-119.5												
	52	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+88.8/-123													
	54	+90/-130	+90/-130	+90/-130	+90/-130	+88.8/-127.1															
	56	+90/-130	+90/-130	+90/-130	+89.4/-129																
	58	+90/-130	+90/-130	+90/-130																	
	60	+90/-130	+90/-130	+89.6/-129.3																	
	62	+90/-130	+90/-130																		
	64	+90/-130	+90/-130																		
	66	+90/-130																			
	67-7/8	+90/-130																			

- NOTES:
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Expiration Date **02/19/2019**
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Miami Dade Product Control

Rev 1	
Rev 2	
Rev 3	

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
(941)-480-1600

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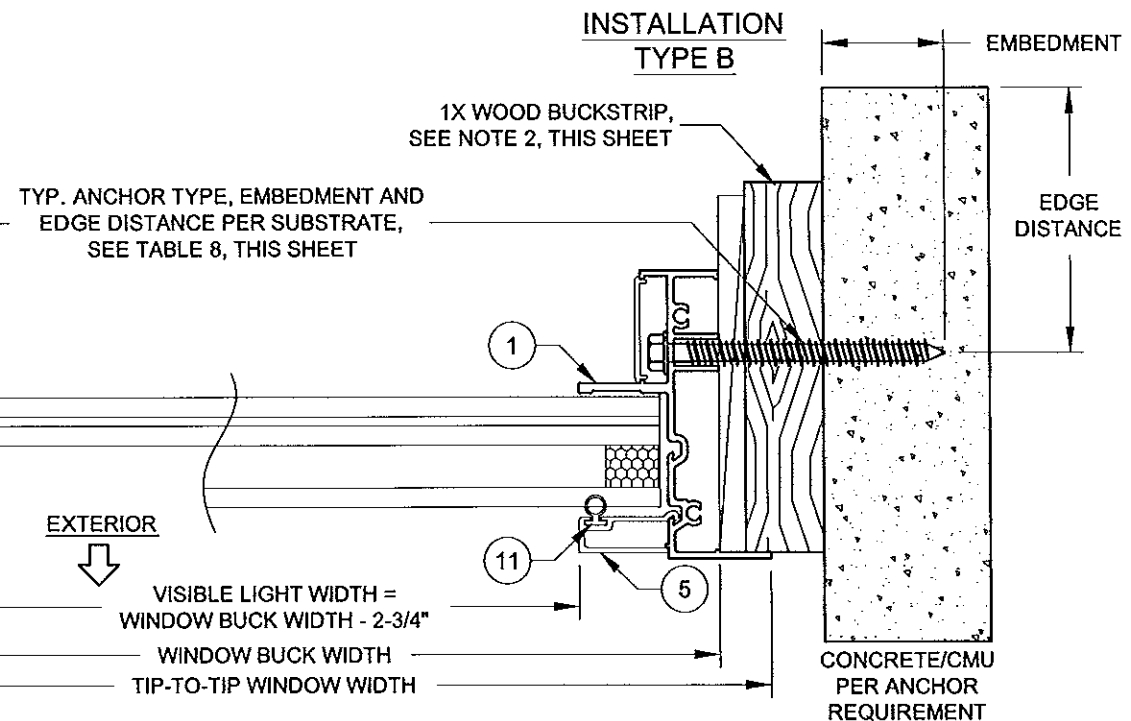
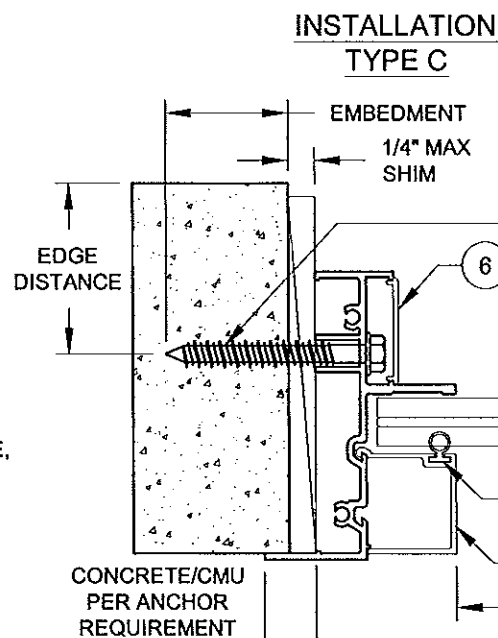
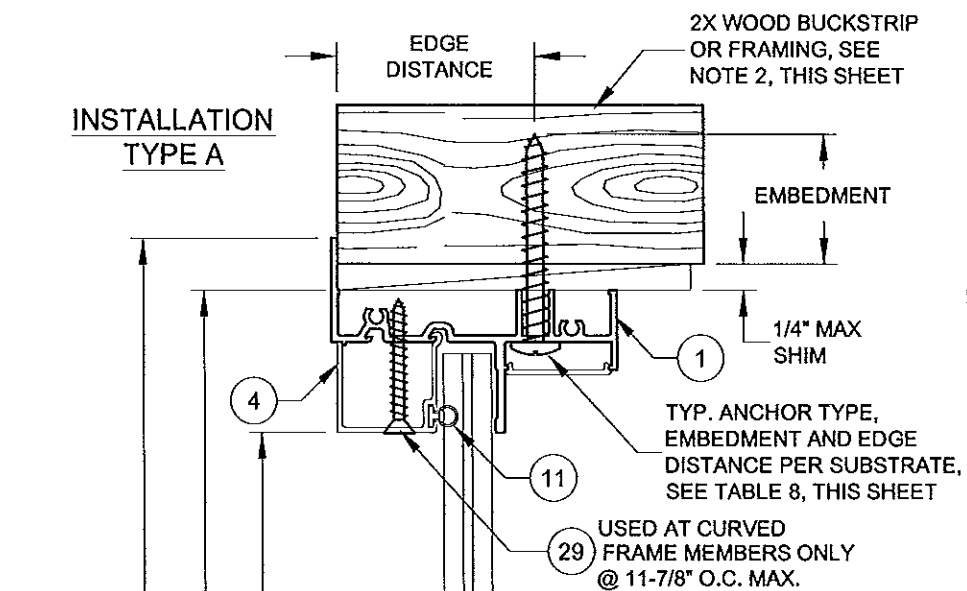
FIXED WINDOW INSTALLATION GUIDELINES
DESIGN PRESSURE TABLES 4

4/12/13
J ROSOWSKI
MD-720-820.1

5 OF 10
NTS
PW-720
PW-820

Rev
No.
Dwg
Scale
Title

ANTHONY LYNN MILLER
LICENSE
No. 58705
A. LYNN MILLER, P.E.
P.E.# 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

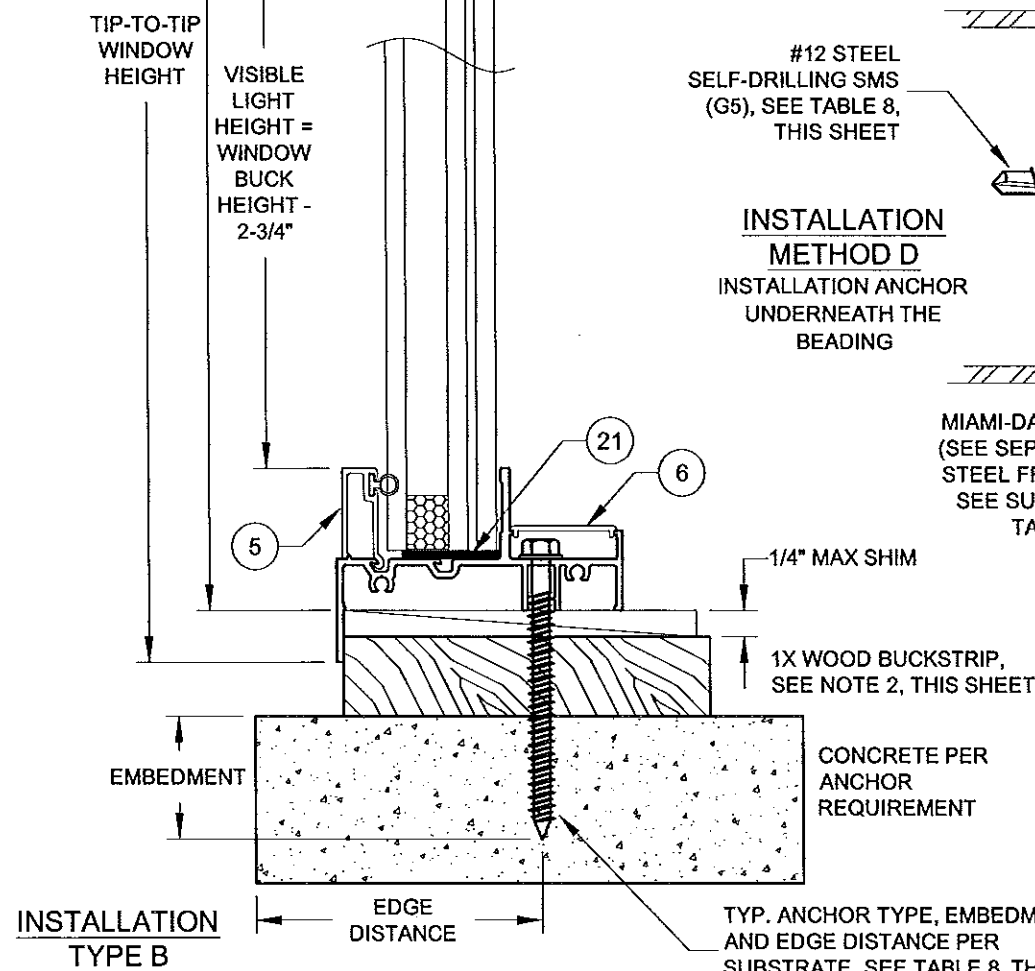
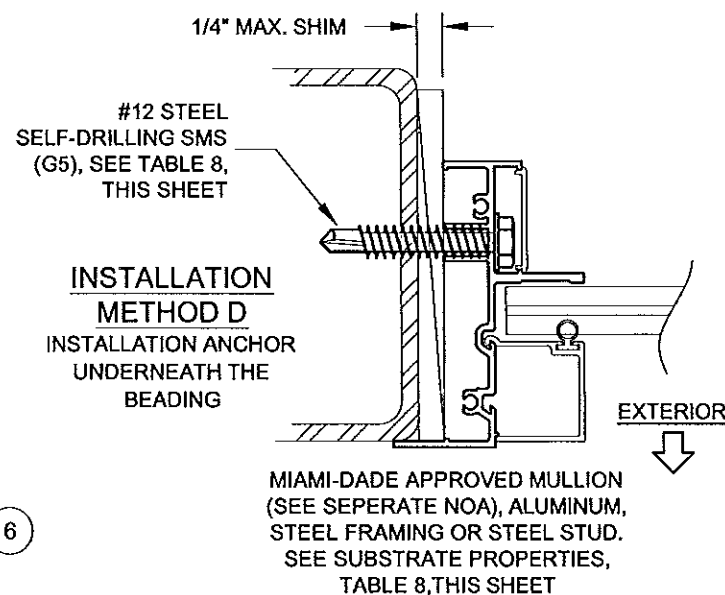


HORIZONTAL SECTION A-A

TABLE 8:

Anchor	Substrate	Min. Edge Distance	Min. Embedment	Max O.C. Spacing
#12 or #14 410 SS Screw	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"	12"
	Aluminum, 6063-T5 min.	3/8"	0.063" *	12"
	A36 Steel	3/8"	0.063" *	12"
	Steel Stud, Gr. 33 min.	3/8"	0.045" (18 Ga) *	12"
#12 or #14 Steel Screw (G5)	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"	12"
	Aluminum, 6063-T5 min.	3/8"	0.063" *	12"
	A36 Steel	3/8"	0.063" *	12"
	Steel Stud, Gr. 33 min.	3/8"	0.045" (18 Ga) *	12"
1/4" 410 SS CreteFlex	UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"	12"
	Concrete (min. 3.35 ksi)	1"	1-3/4"	12"
1/4" Steel Ultracon	Concrete (min. 2.85 ksi)	1"	1-3/4"	12"
	Concrete (min. 2.85 ksi)	2-1/2"	1-3/8"	12"
	UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"	12"
	Grouted CMU, (ASTM C-90)	2-1/2"	1-3/4"	12"
5/16" Steel Ultracon	Concrete (min. 3.5 ksi)	1-1/4"	1-3/4"	12"
	Grouted CMU, (ASTM C-90)	2-1/2"	1-3/4"	12"

* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.



VERTICAL SECTION B-B

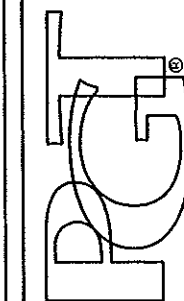
INSTALLATION NOTES:

- USE ONLY ANCHORS LISTED ON THIS SHEET. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS.
- WOOD BUCKS DEPICTED ON THIS SHEET 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.
- FOR ATTACHMENT TO METAL: THE STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE WINDOW FRAME.
- IF APPLICABLE, LOWER DESIGN PRESSURE FROM EITHER WINDOW OR MULLION NOA APPLIES TO WHOLE SYSTEM.

PRODUCT RENEWED
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Expiration Date 02/19/2019
By Miami Dade Product Control

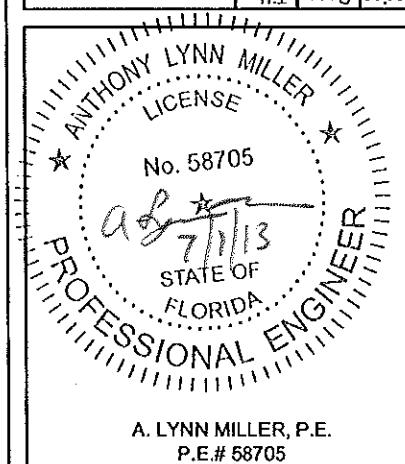
Rev 1
Rev 2
Rev 3

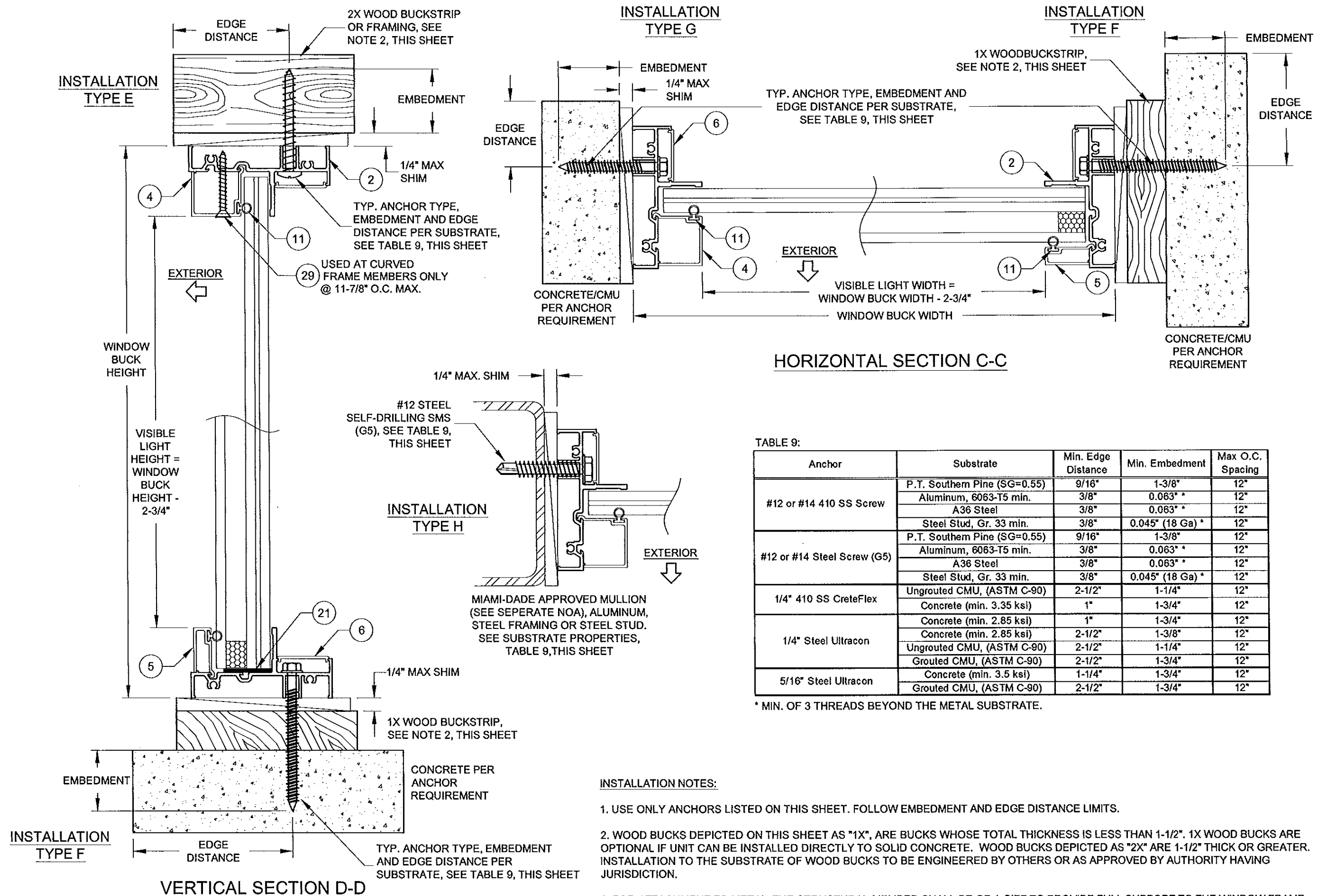
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
(941) 480-1600



CERT. OF AUTH. #29296

FIXED WINDOW INSTALLATION GUIDELINES
4/12/13
J ROSOWSKI
MD-720-820.1
6 OF 10
NTS
PW-720
PW-820





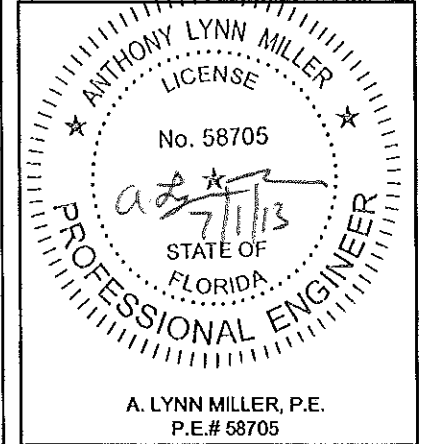
INSTALLATION NOTES:

- USE ONLY ANCHORS LISTED ON THIS SHEET. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS.
- WOOD BUCKS DEPICTED ON THIS SHEET 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.
- FOR ATTACHMENT TO METAL: THE STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE WINDOW FRAME.
- IF APPLICABLE, LOWER DESIGN PRESSURE FROM EITHER WINDOW OR MULLION NOA APPLIES TO WHOLE SYSTEM.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 13-0502.03
Expiration Date 02/19/2019
By *[Signature]*
Miami Dade Product Control

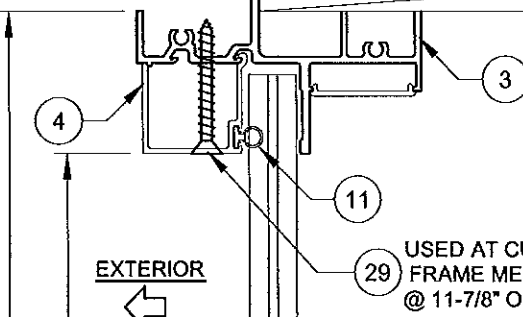
Rev 1
Rev 2
Rev 3

1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274 (941)-480-1600		4/12/13	J ROSOWSKI	MD-720-820.1
FIXED WINDOW INSTALLATION GUIDELINES		Date	By	Rev.
EQUAL-LEG INSTALLATION		Drawn	7 OF 10	MD-720-820.1
PW-720		Sheet	NTS	7 OF 10
PW-820		Scale	NTS	7 OF 10
A. LYNN MILLER, P.E.		Series	Desc.	Title



TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE 10, THIS SHEET

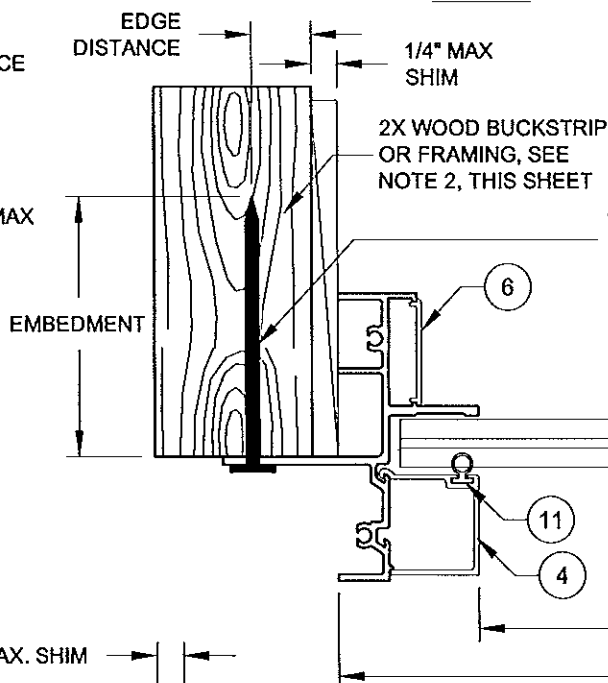
INSTALLATION TYPE I



2X WOOD BUCKSTRIP OR FRAMING, SEE NOTE 2, THIS SHEET

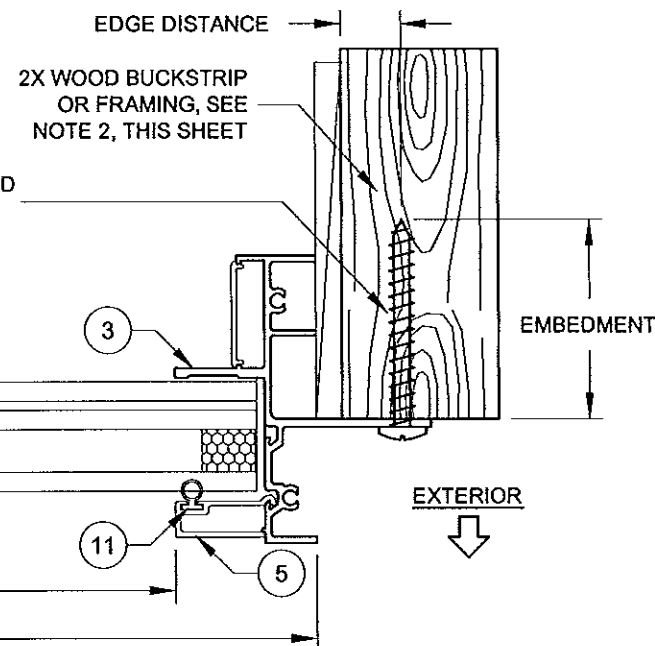
EDGE DISTANCE
1/4" MAX SHIM

INSTALLATION TYPE J



TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE 10, THIS SHEET

INSTALLATION TYPE K



HORIZONTAL SECTION E-E

TABLE 10:

Anchor	Substrate	Min. Edge Distance	Max. O.C. Spacing
2-1/2" x .113" Box Nail	P.T. Southern Pine (SG=0.55)	5/16"	5"
2-1/2" x .131" Common Nail	P.T. Southern Pine (SG=0.55)	3/8"	5"
2-1/2" x .145" Roofing Nail	P.T. Southern Pine (SG=0.55)	3/8"	5"
#10 x 1" Steel Screw*	P.T. Southern Pine (SG=0.55)	1/2"	5"
	0.093" Aluminum, 6063-T5 min.	5/16"	5"
	1/16" A36 Steel	5/16"	5"
	0.045" (18 Ga) Steel Stud, Gr. 33	5/16"	5"

* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

INSTALLATION TYPE L

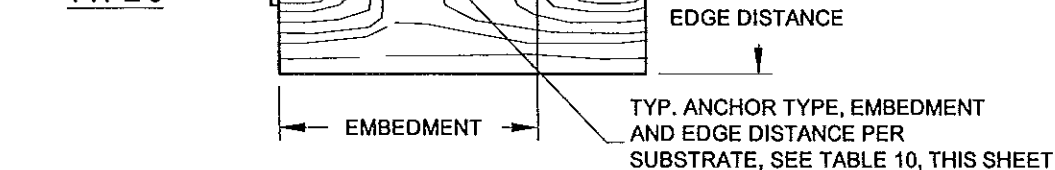
#10 STEEL SELF-DRILLING SMS (G5), SEE TABLE 10, THIS SHEET

2X WOOD BUCKSTRIP OR FRAMING, SEE NOTE 2, THIS SHEET

1/4" MAX SHIM

MIAMI-DADE APPROVED MULLION (SEE SEPERATE NOA), ALUMINUM, STEEL FRAMING OR STEEL STUD. SEE SUBSTRATE PROPERTIES, TABLE 10, THIS SHEET

INSTALLATION TYPE J



VERTICAL SECTION F-F

INSTALLATION NOTES:

1. USE ONLY ANCHORS LISTED ON THIS SHEET. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS.
2. WOOD BUCKS DEPICTED ON THIS SHEET 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 METAL: THE STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE WINDOW FRAME.
4. IF APPLICABLE, LOWER DESIGN PRESSURE FROM EITHER WINDOW OR MULLION NOA APPLIES TO WHOLE SYSTEM.

PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 13-0502.03
Expiration Date 07/19/2019
By Miami Dade Product Control

Rev 1
Rev 2
Rev 3

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
(941)-480-1600

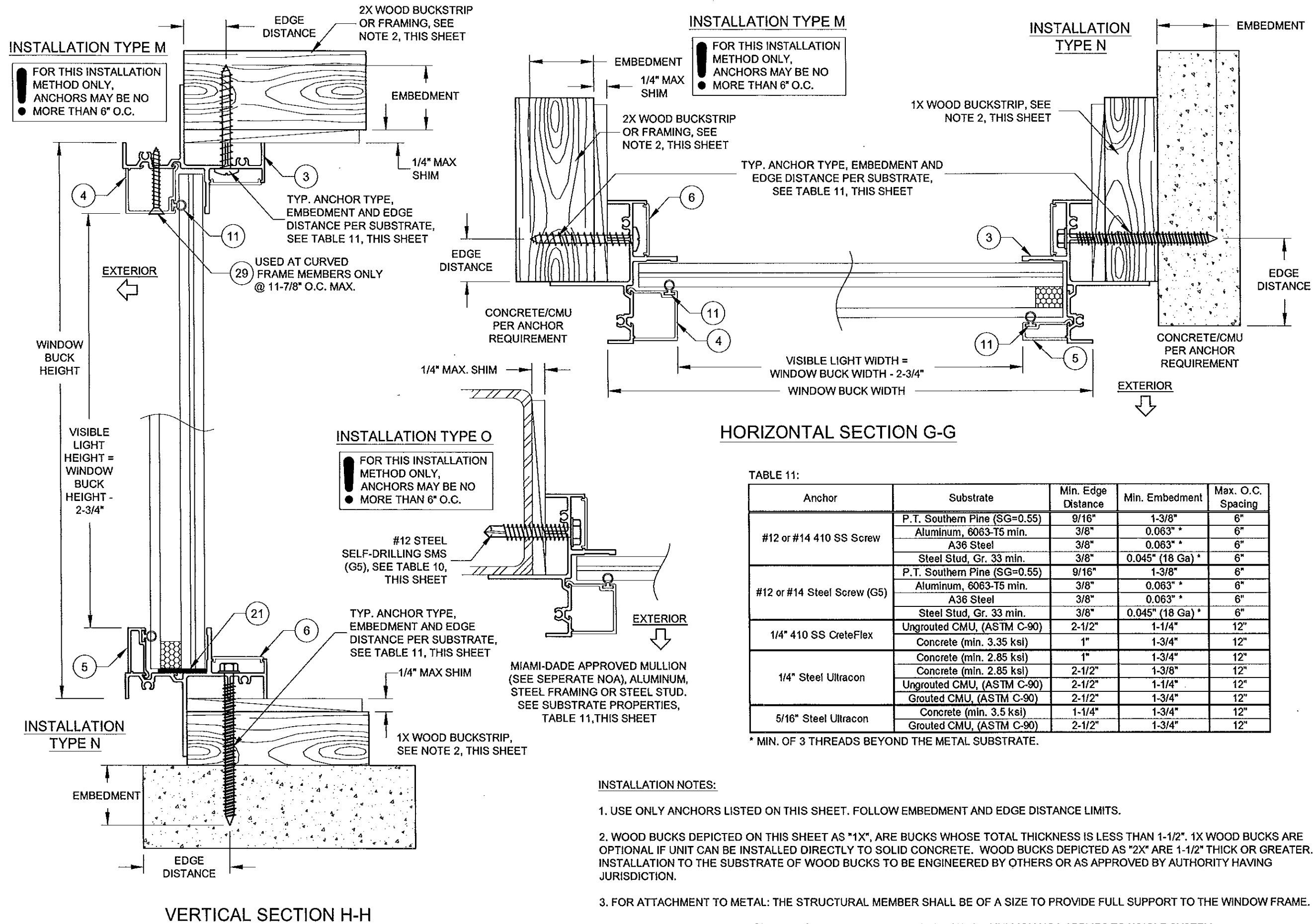
CERT. OF AUTH. #29296

FIXED WINDOW INSTALLATION GUIDELINES

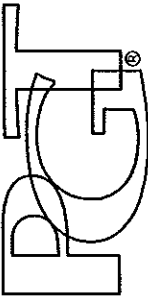
FIN INSTALLATION

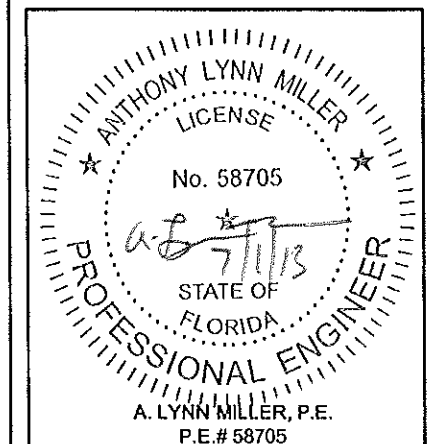
DATE 4/12/13
DRAWN BY J ROSOWSKI
NO. MD-720-820.1
8 OF 10
NTS
PW-720
PW-820

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

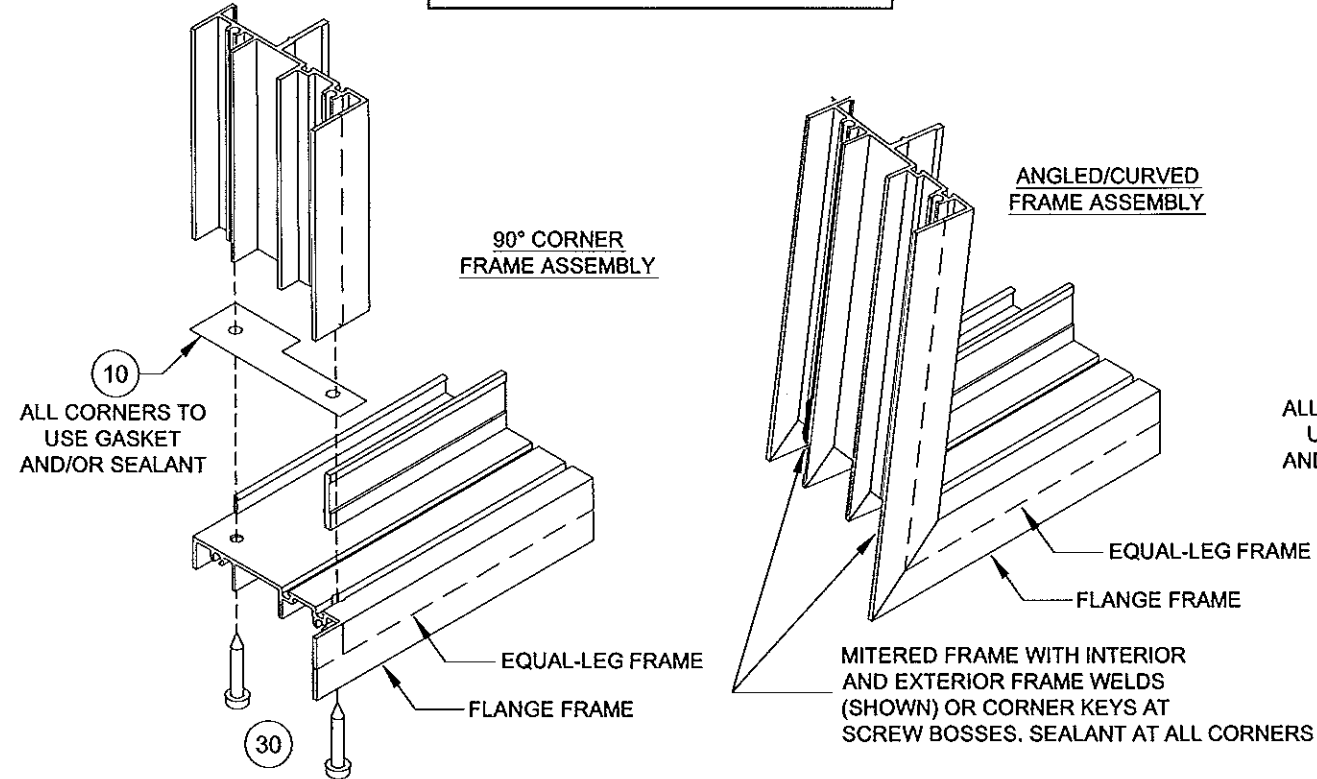


PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 13-0502.03
Expiration Date 02/19/2019
By Miami Dade Product Control

										1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274 (941)-480-1600							
CERT. OF AUTH. #29296																	
FIXED WINDOW INSTALLATION GUIDELINES										Date		4/12/13					
FIN INSTALLATION										Drawn By		J ROSOWSKI					
PW-720		PW-820		Scale		NTS		Sheet		9 OF 10		DWC No.		MD-720-820.1		Rev.	



ASSEMBLY DETAILS FOR FLANGE & EQUAL-LEG FRAMES



ASSEMBLY DETAILS FOR FIN FRAMES

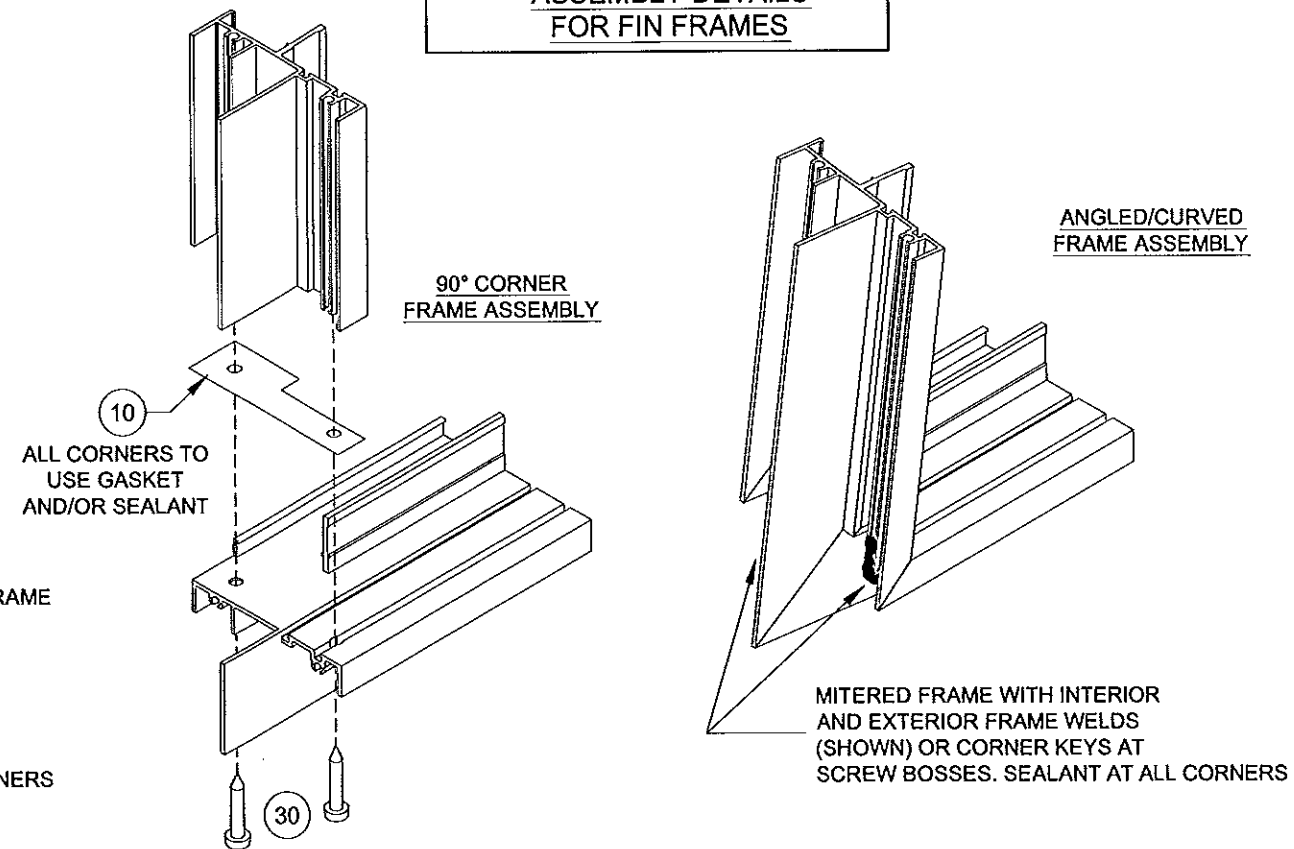
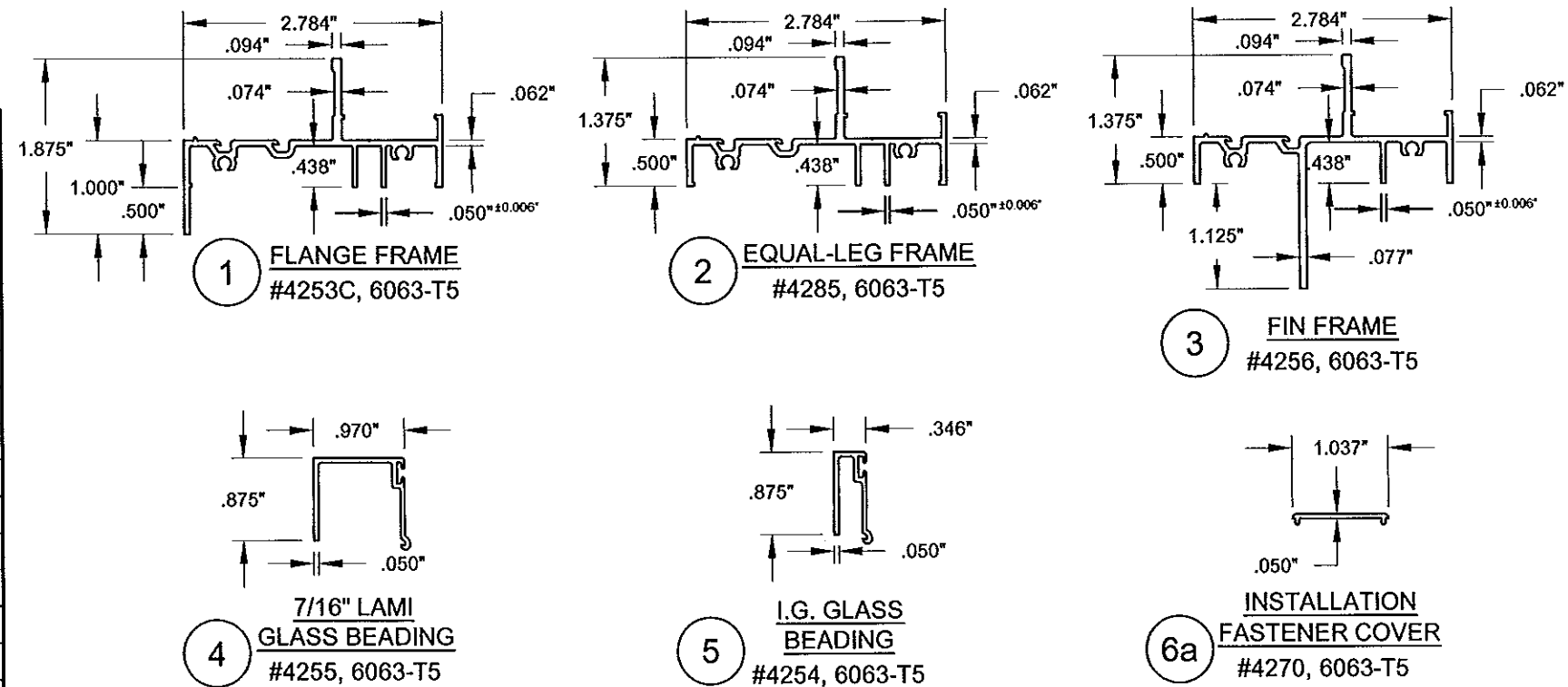


TABLE 12:

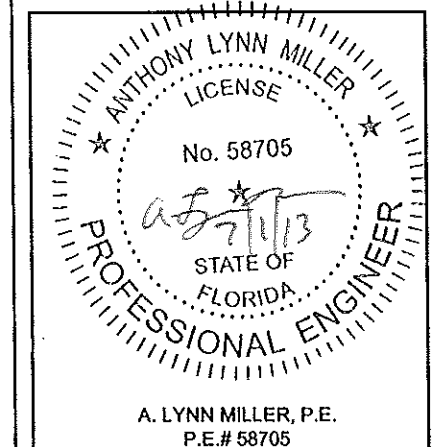
Item #	PGT Part #	Description	Material
1	4253C	Flanged Frame	Alum. 6063-T5
2	4285	Equal-leg Frame	Alum. 6063-T5
3	4256	Integral Fin Frame	Alum. 6063-T5
4	4255	7/16" Lami. Glass Beading	Alum. 6063-T5
5	4254	I.G. Glass Beading	Alum. 6063-T5
6a	4270	Installation Fastener Cover	Alum. 6063-T5
6b	4224	Installation Fastener Cover	Rigid PVC
10	70589C	Gasket (at 90° corner joints)	Polyethylene
11	TP247/8	Vinyl Bulb Weatherstrip	Flex PVC, Duro. 65 +/-1
13		Dow 899, GE 7700 Silicone or Equiv.	
20	71652K	Setting Block, Mono. 3/16" x 7/16" x 4"	Neoprene, Duro. 85 +/-1
21	71704AK	Setting Block, I.G. 3/16" x 1-3/32" x 4"	Neoprene, Duro. 85 +/-1
22	DURAK716	7/16" DuraSeal Spacer	
29		#6 x 1-1/4" FH SMS	Stainless Steel
30	781PQX	#8 x 1" Quad PH SMS	Stainless Steel



PRODUCT RENEWED
as complying with the Florida
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Acceptance No. 13-0502.03
Expiration Date 02/19/2019
By *[Signature]*
Miami Dade Product Control

Rev 1	
Rev 2	
Rev 3	

1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274 (941)-480-1600	4/12/13	J ROSOWSKI	MD-720-820.1
FIXED WINDOW INSTALLATION GUIDELINES	Date	By	Rev.
BOM, EXTRUSIONS AND CORNERS			
PW-720	10 OF 10	DWG	
PW-820	NTS	Scale	
CERT. OF AUTH. #29296			



A. LYNN MILLER, P.E.
P.E.# 58705



**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 "FD-750" Outswing Aluminum French Door w/Sidelites - L.M.I.

APPROVAL DOCUMENT: Drawing No. **8000-11**, titled "Alum. French Door & Side Lites, Impact", sheets 1 through 12 of 12, dated 12/23/04, with revision **E** dated 10/12/11, prepared by manufacturer, signed and sealed by Anthony Lynn 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

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.

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 # **09-1028.10** and consists of this page 1 and evidence pages E-1, E-2, and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



NOA No 11-1013.24
Expiration Date: February 24, 2015
Approval Date: November 24, 2011
Page 1

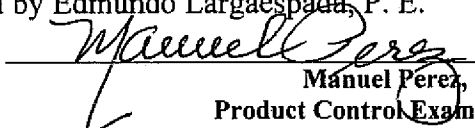
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections
2. Drawing No. **8000-11**, titled "Alum. French Door & Side Lites, Impact", sheets 1 through 12 of 12, dated 12/23/04, with revision **E** dated 10/12/11, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test,
2) Uniform Static Air Pressure Test,
3) Water Resistance Test,
4) Forced Entry Test, per SFBC 3603.2 (b)
along with marked-up drawings and installation diagram of an aluminum sliding glass door using a low sill threshold, glazed with 7/16" laminated glass, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5941**, dated 05/20/09, signed and sealed by Julio E. Gonzalez, P.E.
(Submitted under NOA # 09-1028.10)
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 and TAS 202-94
along with marked-up drawings and installation diagram of aluminum doors of OXXO configuration, prepared by Fenestration Testing Laboratory, Inc., Test Report No.
(Submitted under NOA # 09-1028.10)
3. Test reports on: 1) Uniform Static Air Pressure Test, per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with marked-up drawings and installation diagram of aluminum doors of OXXX configuration, prepared by Fenestration Testing Laboratory, Test Reports No. **FTL-4527**, dated 02/10/05, signed and sealed by Edmundo Largaespada, P. E.
(Submitted under NOA # 05-0419.03)
4. Test reports 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) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with marked-up drawings and installation diagram of aluminum doors of OXXO configuration, prepared by Fenestration Testing Laboratory, Test Reports No. **FTL-4528**, dated 02/14/05, signed and sealed by Edmundo Largaespada, P. E.
(Submitted under NOA # 05-0419.03)

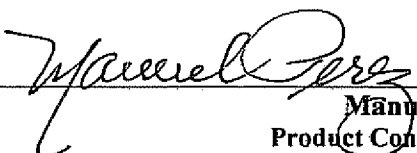

Manuel Perez, P.E.
Product Control Examiner
NOA No 11-1013.24

Expiration Date: February 24, 2015
Approval Date: November 24, 2011

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

5. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of aluminum doors of XXXO configuration, prepared by Fenestration Testing Laboratory, Test Reports No. **FTL-4529**, dated 02/14/05, signed and sealed by Edmundo Largaespada, P. E.
(Submitted under NOA # 05-0419.03)
6. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of aluminum outswing French door, prepared by Fenestration Testing Laboratory, Test Reports No. **FTL-4530**, dated 02/14/05, signed and sealed by Edmundo Largaespada, P. E.
(Submitted under NOA # 05-0419.03)
7. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of aluminum outswing French door, prepared by Fenestration Testing Laboratory, Test Reports No. **FTL-4311**, dated 09/01/04, signed and sealed by Edmundo Largaespada, P. E.
(Submitted under NOA # 05-0103.03)
8. Test reports on: 1) Uniform Static Air Pressure Test, per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of aluminum outswing French door, prepared by Fenestration Testing Laboratory, Test Reports No. **FTL-4312**, dated 09/13/04, signed and sealed by Edmundo Largaespada, P. E.
(Submitted under NOA # 05-0103.03)
9. Test reports 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) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with marked-up drawings and installation diagram of aluminum outswing French door, prepared by Fenestration Testing Laboratory, Test Reports No. **FTL-4315**, dated 09/13/04, signed and sealed by Edmundo Largaespada, P. E.
(Submitted under NOA # 05-0103.03)



Manuel Perez, P.E.
Product Control Examiner
NOA No 11-1013.24

Expiration Date: February 24, 2015
Approval Date: November 24, 2011

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, dated 10/01/09, prepared, signed and sealed by Robert L. Clark, P.E, updated to the FBC-2010 on 10/11/11, signed and sealed by A. Lynn Miller, P.E.
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

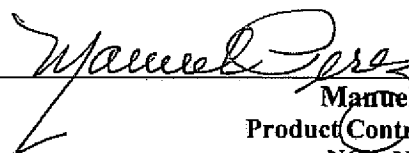
1. Notice of Acceptance No. **10-0922.09** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB, Interlayer**" dated 12/24/10, expiring on 12/11/11.
2. Notice of Acceptance No. **09-0223.05** issued to **Solutia, Inc.** for their "**Saflex Multi-layer Glass Interlayer**" dated 04/08/09, expiring on 04/08/14.
3. Notice of Acceptance No. **08-1224.04** issued to Solutia, Inc. for their "**Saflex Composites Glass Interlayer with PET Core**" dated 02/25/09, expiring on 12/11/13.

F. STATEMENTS

1. Statement letter dated 10/07/11, Successor Engineer adopting the another engineer's work per FAR 61G15-27-001, signed & sealed by A. Lynn Miller, P.E.
2. Statement letter of conformance with the FBC-2007 and FBC-2010, prepared by manufacturer, dated 10/11/11, signed & sealed by A. Lynn Miller, P.E.
3. Statement letter of "No financial interest", prepared by manufacturer, dated 10/11/11, signed & sealed by A. Lynn Miller, P.E.
4. Letter of lab compliance, part of the above test reports.
5. Proposal No. **08-1891** issued by BCCO, dated January 26, 2009, signed by Ishaq Chanda, P.E.

G. OTHER

1. Notice of Acceptance No. **09-1028.10**, issued to PGT Industries for their Series "FD-750" Outswing Aluminum French Door w/Sidelites – L.M.I., approved on 02/10/10 and expiring on 02/24/15.



Manuel Perez, P.E.
Product Control Examiner
NOA No 11-1013.24

Expiration Date: February 24, 2015
Approval Date: November 24, 2011

NOTES: OUTSWING IMPACT FRENCH DOOR(S) AND SIDE LITE(S)

1. GLAZING OPTIONS:

- A. 7/16" LAMI CONSISTING OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 PVB INTERLAYER OF DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM.
- B. 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 PVB INTERLAYER OF DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM.
- C. 7/16" LAMI CONSISTING OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS WITH AN .075 VANCEVA INTERLAYER.
- D. 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH AN .075 VANCEVA INTERLAYER.
- E. 7/8" LAMI I.G. CONSISTING OF (1) LITE OF 3/16" TEMPERED GLASS OUTSIDE, 1/4" AIR SPACE AND (1) 7/16" LAMI GLASS ASSEMBLY INSIDE (3/16" A.,.090 PVB, 3/16" HS).
- F. 7/8" LAMI I.G. CONSISTING OF (1) LITE OF 3/16" TEMPERED GLASS OUTSIDE, 1/4" AIR SPACE AND (1) 7/16" LAMI GLASS ASSEMBLY INSIDE (3/16" HS,.090 PVB, 3/16" HS).
- G. 7/8" LAMI I.G. CONSISTING OF (1) LITE OF 3/16" TEMPERED GLASS OUTSIDE, 1/4" AIR SPACE AND (1) 7/16" LAMI GLASS ASSEMBLY INSIDE (3/16" A.,.075 VANCEVA, 3/16" HS).
- H. 7/8" LAMI I.G. CONSISTING OF (1) LITE OF 3/16" TEMPERED GLASS OUTSIDE, 1/4" AIR SPACE AND (1) 7/16" LAMI GLASS ASSEMBLY INSIDE (3/16" HS,.075 VANCEVA, 3/16" HS).

2. DESIGN PRESSURES: TABLE 1, SHEET 3.

- A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E1300-02.



- B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E1300-02.

3. CONFIGURATIONS: X, O, XX, XO, OX, XXX, XXO, OXX, OXO, XXXX, XXOX, OXXX, OR OXXO WHERE O REPRESENTS EITHER THE NARROW JAMB OR FULL JAMB SIDE LITE. ANY TWO ADJACENT X UNITS CAN BE EITHER TWO SINGLE, X DOORS OR A DOUBLE, XX DOOR. BOTH USING EITHER THE STANDARD OR THE LOW-RISE SILL. THE FRENCH DOOR ASSEMBLY BEAM IS USED TO ASSEMBLE X, XX, AND O UNITS TO MAKE THE ABOVE CONFIGURATIONS.

4. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. FOR ANCHORAGE REQUIREMENTS SEE SHEETS 9 THRU 11.



5. SHUTTERS ARE NOT REQUIRED.

6. SEALANT: INSTALLATION SCREWS, FRAME AND PANEL CORNERS SEALED WITH CLEAR COLORED SEALANT. VERTICAL ASSEMBLY BEAM SEAMS SEALED ON THE INTERIOR AND EXTERIOR WITH CONTRACTOR'S SEALANT.

7. REFERENCES: TEST REPORTS: FTL-4311, FTL-4312, FTL-4315, FTL-4527, FTL-4528, FTL-4529, FTL-4530, FTL-4921 AND FTL-5941.



ANSI/AF&PA NDS-2005 FOR WOOD CONSTRUCTION
ADM-2005 ALUMINUM DESIGN MANUAL

8. 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 MAP

TOPIC	SHEET
GENERAL NOTES.....	1
CONFIGURATIONS.....	1
GLAZING DETAILS.....	2
DESIGN PRESSURES.....	3
ELEVATIONS.....	4
VERT. SECTIONS.....	5
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PRODUCT REVIEWED
as complying with the Florida
Building Code
Amendment No. 11-1013.24
Expiration Date FEB. 24, 2015
Whitney J. Miller
State: Product Control

Revised By: J.R. Date: 08/22/09 Revisions: C UPDATED BUILDING CODE AND DESIGN MANUAL YEARS.
ADDED TEST REPORT NUMBERS.

Revised By: J.R. Date: 01/25/10 Revisions: D NO CHANGES THIS SHEET

Revised By: J.J. Date: 10/12/11 Revisions: E FBC 2010 CODE CHANGE

Drawn By: F.K. Date: 12/23/04 Checked By: L.T. Date: 4/8/05

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1529
NOKOMIS, FL 34274



Description:

GENERAL NOTES AND DRAWING MAP

Title:

ALUM. FRENCH DOOR & SIDE LITES, IMPACT

Series/Model:

FD750

Scale:

FULL

Sheet:

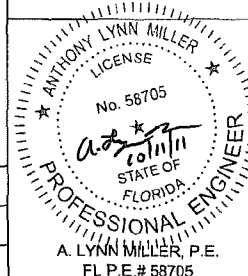
1 of 12

Drawing No.

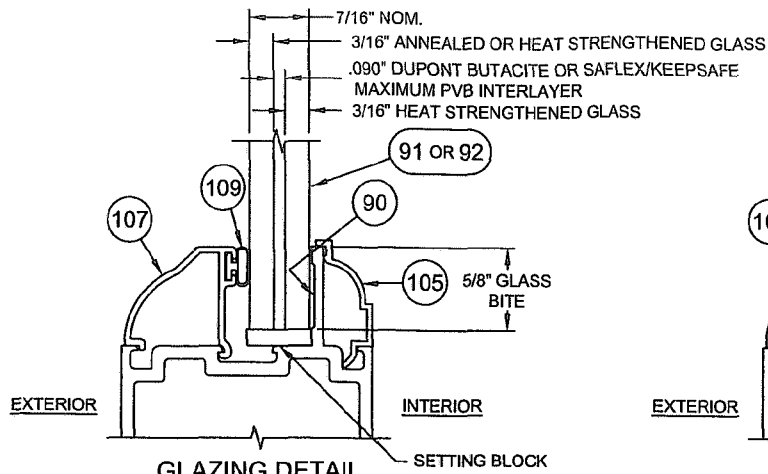
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Rev:

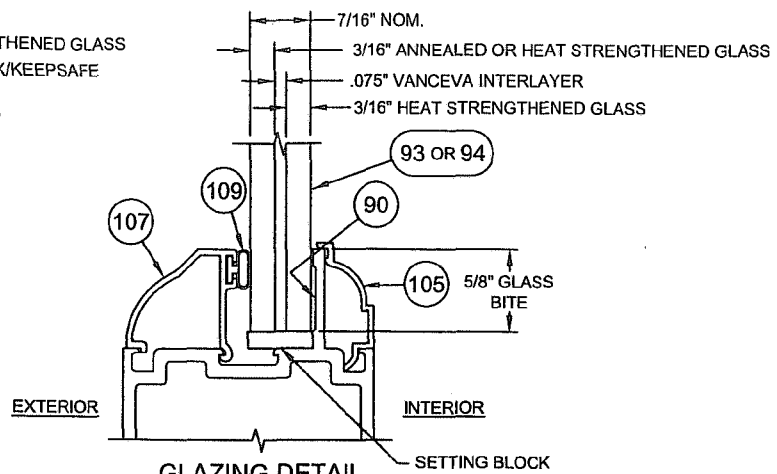
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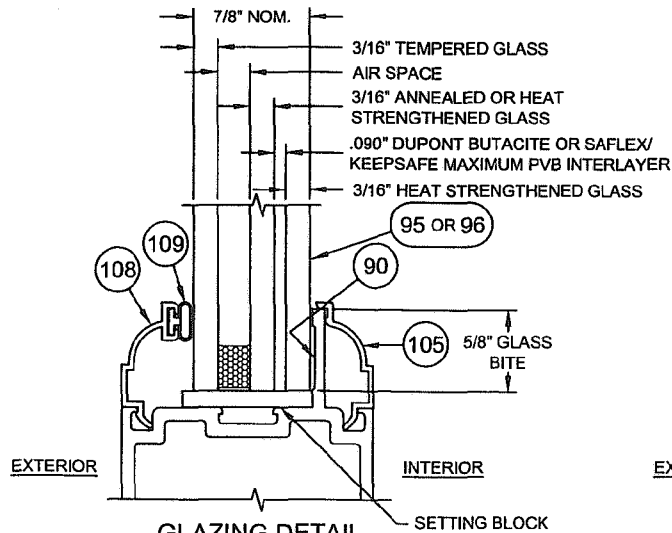
A. LYNN MILLER, P.E.
FL P.E.# 58705



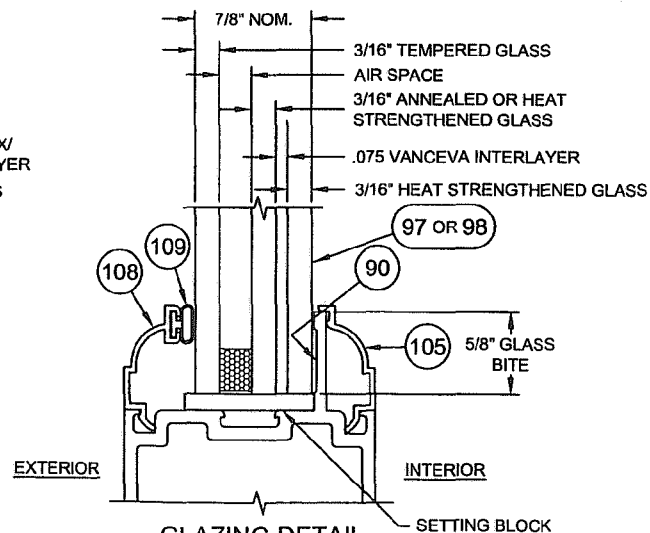
GLAZING DETAIL
7/16" LAMI GLASS W/ PVB INTERLAYER



GLAZING DETAIL
7/16" LAMI GLASS W/ VANCEVA INTERLAYER

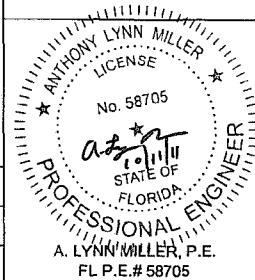


GLAZING DETAIL
7/8" LAMI I.G. GLASS W/ PVB INTERLAYER



GLAZING DETAIL
7/8" LAMI I.G. GLASS W/ VANCEVA INTERLAYER

PRODUCT REVISED
to comply with the Florida
Building Code
Amendment No. 11-1013, 24
Expiration Date: 12/24/2015
By: *Anthony Lynn Miller*
Initials: *ALM*



Revised By: F.K.	Date: 10/12/06	Revision: B	NO CHANGE THIS SHEET
Revised By: J.R.	Date: 08/22/09	Revision: C	NO CHANGE THIS SHEET
Revised By: J.R.	Date: 01/25/10	Revision: D	NO CHANGES THIS SHEET
Drawn By: F.K.	Date: 12/23/04	Checked By: L.T.	Date: 4/8/05

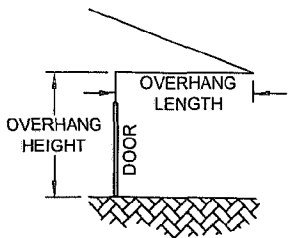
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274



Description: GLAZING DETAILS			
Title: ALUM. FRENCH DOOR & SIDE LITES, IMPACT			
Series/Model: FD750	Scale: FULL	Sheet: 2 of 12	Drawing No: 8000-11
Rev: E			

Table 1. Maximum Design Pressures (psf)

Configuration		Width (in)	Allowed Glass Types	Height (in)									
				79 3/4" (6 ⁸)		83 3/4" (7 ⁰)		87 3/4"		91 3/4"		95 3/4" (8 ⁰)	
French Door	X	37" (3 ⁰)	A,E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
			C,G	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0
	XX	71 3/4" (6 ⁰)	A,E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
			C,G	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0
Sidelite	Full Jamb	36 11/16"	A,E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
			C,G	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0
	Narrow Jamb	30 11/16"	C,G	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0
		33 11/16"	C,G	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+97.4	-97.4
		36 11/16"	A, B, E, F	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0
			C,G	+100.0	-100.0	+99.9	-99.9	+95.3	-95.3	+91.4	-91.4	+87.9	-87.9
			D,H	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0

**NOTES:**

1. IF USING THE OPTIONAL LOW-RISE SILL (PART 10, SHEET 8 OF 12), THE OVERHANG HEIGHT MUST BE GREATER THAN THE OVERHANG LENGTH (SEE DIAGRAM). IF NOT, THE MAXIMUM POSITIVE (+) DESIGN PRESSURE IS LIMITED TO +50.0 PSF FOR ALL STYLES AND SIZES OF THE DOOR AND ANY ADJOINING SIDELITES. (REF. FTL-5941)

Table 1a. Glass Type and Test Report Number

A - 7/16" LAMI (3/16"A,.090 PVB, 3/16"HS)	FTL-4311, 4312, 4315
B - 7/16" LAMI (3/16"HS,.090 PVB, 3/16"HS)	UPGRADE FTL-4311, 4312, 4315
C - 7/16" LAMI (3/16"A,.075 VANCEVA, 3/16"HS)	FTL-4527, 4528, 4529, 4530
D - 7/16" LAMI (3/16"HS,.075 VANCEVA, 3/16"HS)	UPGRADE FTL-4527, 4528, 4529, 4530
E - 7/8" LAMI I.G. (3/16"T, 1/4" AIR SPACE, 3/16"A,.090 PVB, 3/16"HS)	FTL-4311, 4312, 4315
F - 7/8" LAMI I.G. (3/16"T, 1/4" AIR SPACE, 3/16"HS,.090 PVB, 3/16"HS)	UPGRADE FTL-4311, 4312, 4315
G - 7/8" LAMI I.G. (3/16"T, 1/4" AIR SPACE, 3/16"A,.075 VANCEVA, 3/16"HS)	FTL-4527, 4528, 4529, 4530
H - 7/8" LAMI I.G. (3/16"T, 1/4" AIR SPACE, 3/16"HS,.075 VANCEVA, 3/16"HS)	UPGRADE FTL-4527, 4528, 4529, 4530

PRODUCT REVIEWED
in compliance with the Florida
Building Code
Approval No. 11-1013-24
Expiration Date Feb. 24, 2015
Manuel Perez
Product Review Council

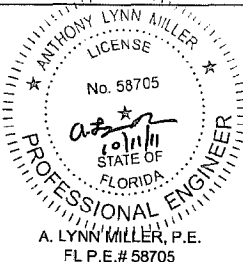
Revised By: F.K.	Date: 10/12/06	Revisions: B	UPDATE TABLE 1 TO ASTM E 1300-02
Revised By: J.R.	Date: 09/22/09	Revisions: C	ADDED NOTE/DIAGRAM FOR LOW RISE SILL
Revised By: J.R.	Date: 01/25/10	Revisions: D	NO CHANGES THIS SHEET
Drawn By: F.K.	Date: 12/23/04	Checked By: L.T.	Date: 4/8/05

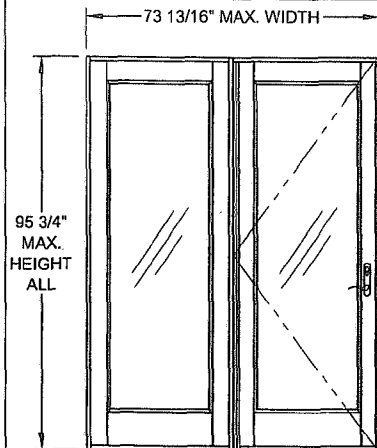
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

**DESCRIPTION:**
DESIGN PRESSURES

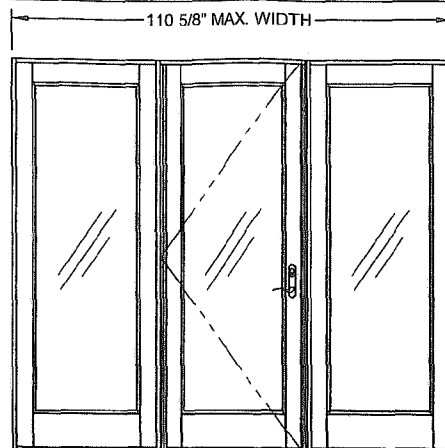
TYPE: **ALUM. FRENCH DOOR & SIDE LITES, IMPACT**

Series/Model: FD750	Scale: NTS	Sheet: 3 of 12	Drawing No. 8000-11	Rev. E
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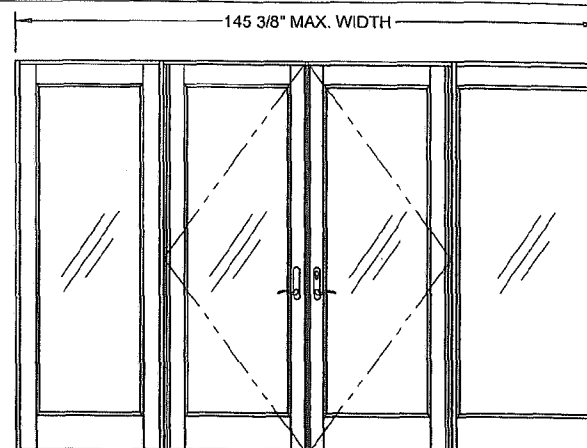




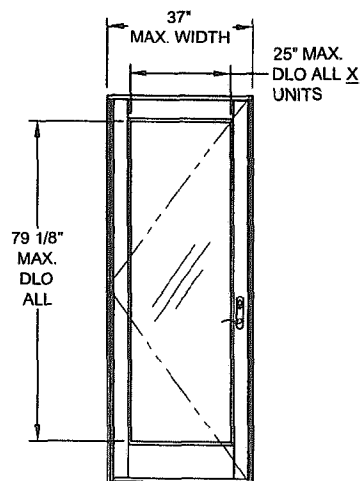
OX OR XO



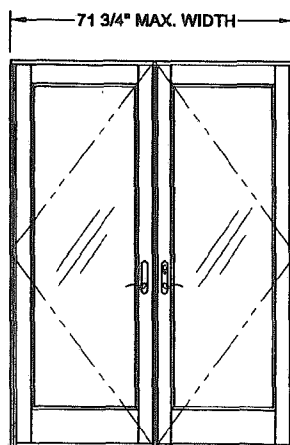
OXO



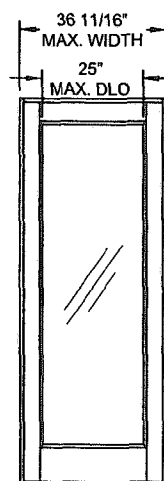
OXXO (SHOWING EACH VERSION SIDELITE)



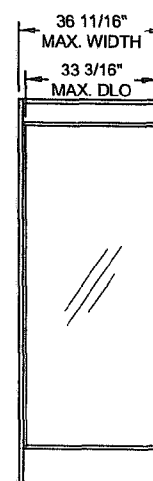
X



XX



O (FULL JAMB)



O (NARROW JAMB)

NOTES:

1. CONFIGURATIONS WITH SIDE LITES CAN BE EITHER NARROW JAMB OR FULL JAMB VERSION.
2. FOR ANCHOR SPACING AND DETAILS SEE SHEETS 9 THROUGH 11.
3. FOR VERTICAL SECTIONS SEE SHEET 5 AND FOR HORIZONTAL SECTIONS SEE SHEET 6.

Revised By: F.K.	Date: 10/12/06	Revisions: B	NO CHANGE THIS SHEET
Revised By: J.R.	Date: 09/22/09	Revisions: C	NO CHANGE THIS SHEET
Revised By: J.R.	Date: 01/23/10	Revisions: D	NO CHANGES THIS SHEET
Drawn By: F.K.	Date: 12/23/04	Checked By: L.T.	Date: 4/8/05

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274



Description:

EXAMPLE ELEVATIONS

Title:

ALUM. FRENCH DOOR & SIDE LITES, IMPACT

Series/Model:
FD750

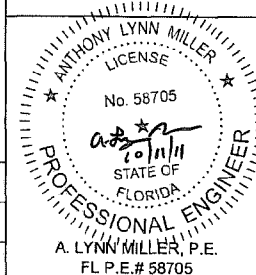
Scale:
NTS

Sheet:
4 of 12

Drawing No.
8000-11

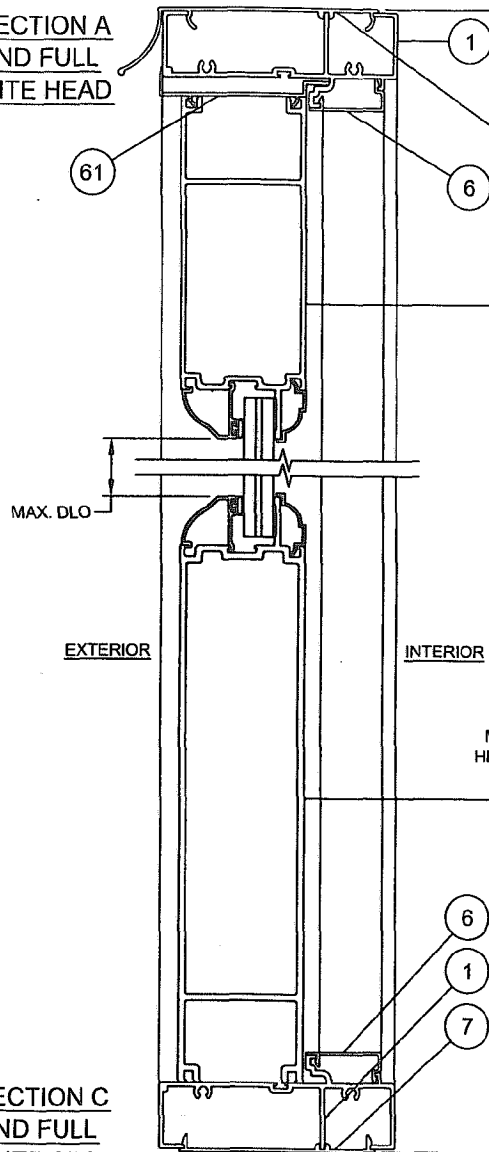
Rev:
E

PRODUCT REVISED
to comply with the Florida
Building Code
Amendment No. 11-1013.24
Expiration Date FEB. 24, 2015
By *Theresa Ruiz*
Signed/Seal: Product Control

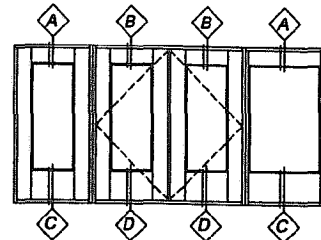
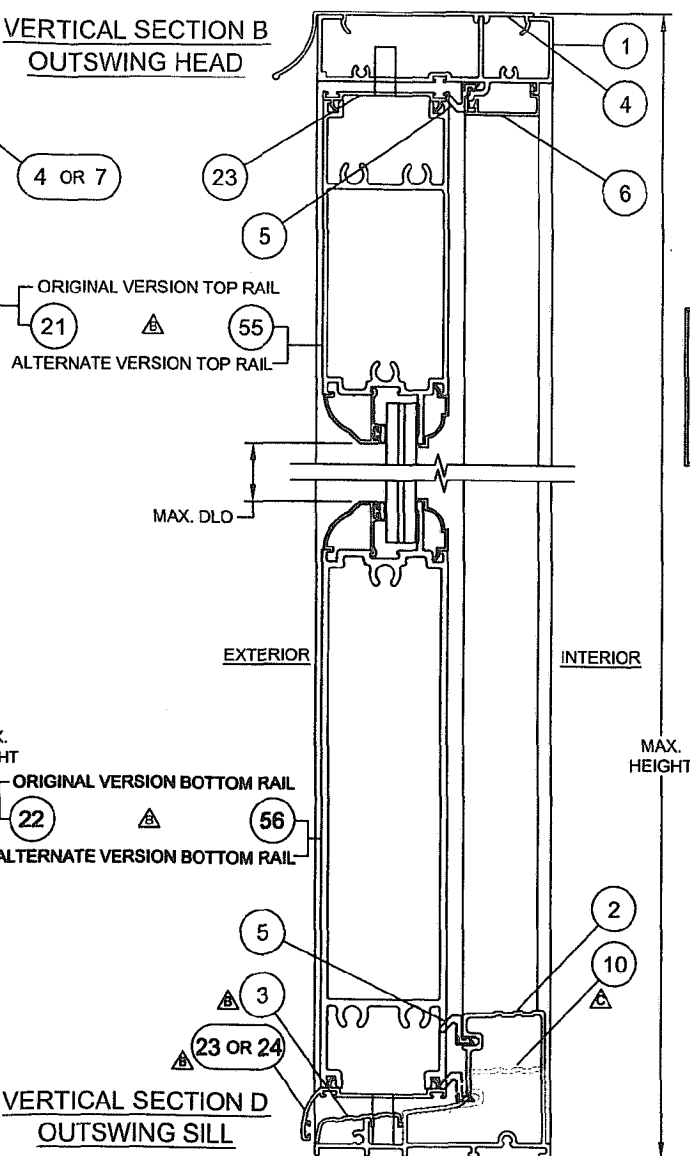


A. LYNN MILLER, P.E.
FL P.E.# 58705

**VERTICAL SECTION A
NARROW AND FULL
JAMB SIDE LITE HEAD**



**VERTICAL SECTION B
OUTSWING HEAD**



**VERTICAL SECTION C
NARROW AND FULL
JAMB SIDE LITE SILL**

**VERTICAL SECTION D
OUTSWING SILL**

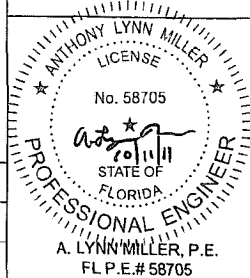
Revised By: F.K.	Date: 10/12/08	Revisions: B	REVISE ITEM 3. SHOW ALTERNATE TOP AND BOTTOM RAIL EXTRUSION.
Revised By: J.R.	Date: 08/22/09	Revisions: C	ADDED LOW RISE SILL
Revised By: J.R.	Date: 01/25/10	Revisions: D	NO CHANGES THIS SHEET
Drawn By: F.K.	Date: 12/23/04	Checked By: L.T.	Date: 4/8/05

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

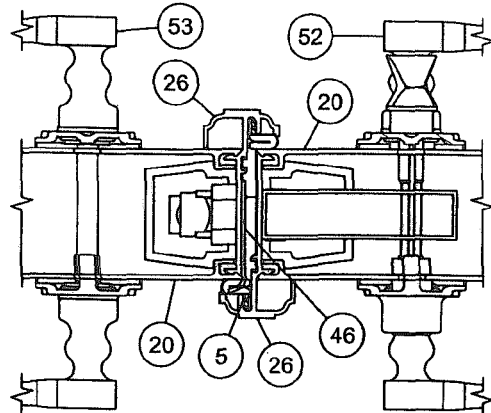
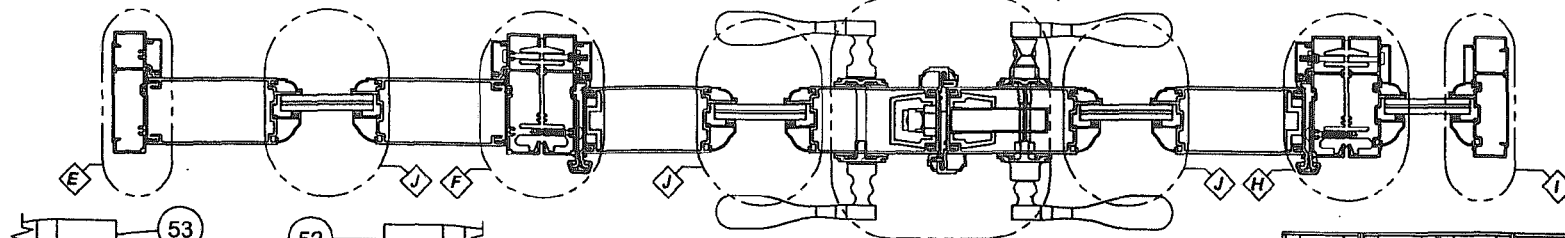


Manufacturer: FD750	Scale: 1/2	Sheet: 5 of 12	Drawing No: 8000-11	Rev: E
Description: VERTICAL SECTIONS ALUM. FRENCH DOOR & SIDE LITES, IMPACT				

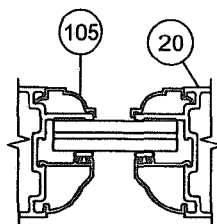
PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 11-1013-24
Expiration Date FEB. 24, 2015
Walter R. Cruz
Florida State Product Control



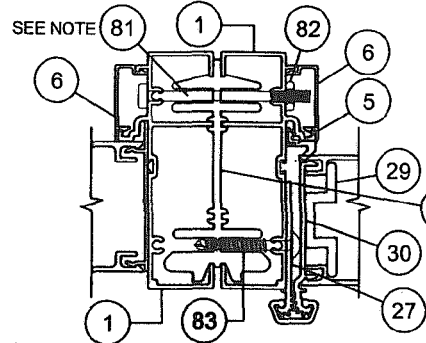
OXO HORIZONTAL SECTION SHOWING (1) OF EACH SIDE LITE TYPE



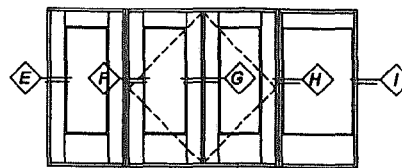
DETAIL G STILES AT ASTRAGAL



DETAIL J
SLAB AT
GLASS BED



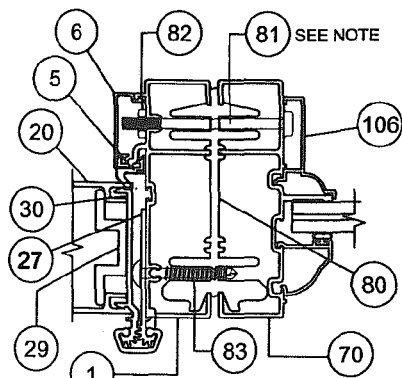
DETAIL F
FULL JAMB SIDE LITE
(AT HINGE JAMB)



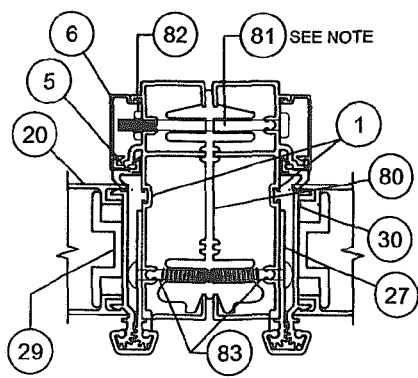
NOTE: ASSEMBLY HARDWARE QTY (3), 11" FROM TOP & BOTTOM AND ONE AT MIDSPAN

INTERIOR
↑
↓
EXTERIOR

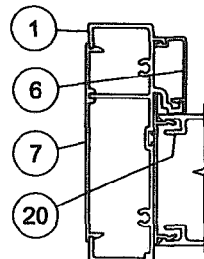
PRODUCT REVISED
to comply with the Florida
Building Code
Amendment No. 11-1013.24
Expiration Date FEB. 24, 2015
Anthony Lynn Miller
State of Florida Professional Engineer



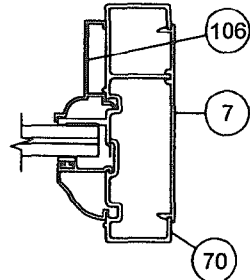
DETAIL H
NARROW JAMB SIDE LITE
(AT HINGE JAMB)



DETAIL K
HINGE JAMB TO HINGE JAMB
(NOT SHOWN ABOVE)



DETAIL E
JAMB, FULL JAMB
SIDE LITE



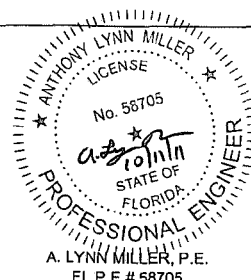
DETAIL I
JAMB, NARROW
JAMB SIDE LITE

Revised By: F.K.	Date: 10/12/08	Revised By: B	Date: NO CHANGE THIS SHEET
Revised By: J.R.	Date: 08/22/09	Revised By: C	Date: NO CHANGE THIS SHEET
Revised By: J.R.	Date: 01/23/10	Revised By: D	Date: NO CHANGES THIS SHEET
Drawn By: F.K.	Date: 12/23/04	Checked By: L.T.	Date: 4/8/05

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274



Description: HORIZONTAL SECTION DETAILS			
Title: ALUM. FRENCH DOOR & SIDE LITES, IMPACT			
Series/Model: FD750	Scale: 1/2	Sheet: 6 of 12	Drawing No.: 8000-11
Rev:			E



FD750 DOOR(S)

ITEM	DWG#	DESCRIPTION	PGT#
FRAME KIT PARTS			
1	8006	FRAME - HEAD & HINGE JAMB	68006
2	8003A	OUT-SWING SILL	68003A
3	8004C	OUT-SWING SILL COVER	68004C
4	8008	DRIP CAP	68008
5	-----	HEAD, SILL & JAMB WEATHERSTRIP (SCHLEGAL)	U83337T8500
6	8007	SCREW COVER	68007
7	8009	INSTALL PLATE	68009
8	-----	FRAME ASSEMBLY SCREW #8 X 1" PH QUAD	781PQA
9	8032	ASTRAGAL END SEAL	48032
10	8058	OUT-SWING SILL (LOW RISE)	48058
DOOR PANEL			
5	-----	HEAD, SILL & JAMB WEATHERSTRIP (SCHLEGAL)	U83337T8500
20	8012	STILE	68012
21	8014	TOP RAIL, (THREADED ROD DESIGN)	68014
22	8013	BOTTOM RAIL, (THREADED ROD DESIGN)	68013
23	8017	TOP SWEEP	68017
24	8016	BOTTOM SWEEP	68016
25	-----	SWEEP SCREWS, #4 X 1/2" PHIL PH	
26	8015	ASTRAGAL, ACTIVE & INACTIVE	68015
27	8021B	GEAR HINGE, JAMB SIDE	68021B
28	8020A	GEAR HINGE, COVER	68020A
29	8018	GEAR HINGE, BACK-UP PLATE	68018
30	8019A	GEAR HINGE, DOOR SIDE	68019A
31	8035	GEAR HINGE, BEARING	68035
32	-----	GEAR HINGE, SET-SCREW #6-32 x 1/4"	
33	-----	GEAR HINGE, MTG SCREW #12 X 3/4" TRUSS HD.	
34	-----	GEAR HINGE, MTG SCREW #12 X 1 1/2" TRUSS HD.	
35	-----	THREADED ROD 5/16-18 X 36"	6TRODA
36	-----	FLANGED HEX NUT 5/16-18	7990NUTA
37	8039	TRUSS CLAMP	60378M
38	8043	S/S GEAR LATCH MECHANISM (ASHLAND)	
39	8030	LOCK BLOCK	48030
40	-----	LATCH ASSY SCREWS #8 X 2" SS PHILL TR HD	78X2TPA X
41	8037	S/S SHOOT BOLT ROD (SULLIVAN)	
42	8045	STANDARD FLUSH BOLTS W/ SS ROD (SULLIVAN)	
43	8031	SHOOT BOLT GUIDE	48031
44	-----	SHOOT BOLT GUIDE & STRIKE SCREW 8-32 X 3/8" SS PHILL TR HD	78X38PFTX
45	8038R	RIGHT - STRIKE PLATE AT ASTRAGAL (ACTIVE HINGED LEFT)	W5110-43S1
46	8038L	LEFT - STRIKE PLATE AT ASTRAGAL (ACTIVE HINGED RIGHT)	W5110-44S1
47	-----	STRIKE PLATE SCREWS 8-32 X 3/8" SS PHILL TR HD	78X38PFTX
48	-----	STRIKE PLATE MIDDLE SCREW 6-24 X 1/2" FH	7612PFTX
49	8036	STRIKE PLATE AT HEAD & SILL	
50	-----	HEAD STRIKE SCREWS SS 8 X 1/2 PHILL FH	7858ZAX
51	-----	STRIKE PLATE SCREWS @SILL SS 8 X 1/2 PHILL UNDERCUT FH	78X12PFHUX
52	8041	ACTIVE TRIM SET (ASHLAND)	
53	8042	PASSIVE TRIM SET (ASHLAND)	
54	8044	STAINLESS STEEL PASSIVE LOCK GEAR (ASHLAND)	
55	8014A	TOP RAIL (LAG BOLT DESIGN)	68014A
56	8013A	BOTTOM RAIL (LAG BOLT DESIGN)	68013A
57	-----	5/16" x 2 1/2" LAG BOLTS	7516LBOLT X

Revised By:	Date:	Revisions:	
F.K.	10/12/08	B	UPDATE ITEM 3. ADD ITEMS 55, 56, 57 AND 84.
Revised By:	Date:	Revisions:	
J.R.	08/22/09	C	ADDED LOW RISE SILL
Revised By:	Date:	Revisions:	
J.R.	01/25/10	D	NO CHANGES THIS SHEET
Drawn By:	Date:	Checked By:	Date:
F.K.	12/23/04	L.T.	4/8/05

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275P.O. BOX 1529
NOKOMIS, FL 34274

Description:

PARTS LIST

Title:

ALUM. FRENCH DOOR & SIDE LITES, IMPACT

Series/Model:

FD750

Scale:

NA

Sheet:

7

of

12

Drawing No.

8000-11

Rev:

E

FD750 FULL JAMB SIDE LITE

ITEM	DWG#	DESCRIPTION	PGT#
1	8006	FRAME - HEAD, SILL & JAMB	68006
4	8008	DRIP CAP	68008
6	8007	SCREW COVER	68007
7	8009	INSTALL PLATE	68009
8	-----	FRAME ASSEMBLY SCREW #8 X 1" PH QUAD	781PQA
20	8012	STILE	68012
21	8014	TOP RAIL	68014
22	8013	BOTTOM RAIL	68013
35	-----	THREADED ROD 5/16-18 X 36"	6TRODA
36	-----	FLANGED HEX NUT 5/16-18	7990NUTA
37	8039	TRUSS CLAMP	60378M
60	-----	#8 X 3/4" PH SQ DRIVE TEK SCREW	78X34PSTW
61	8028	SIDE LITE HEAD TRIM	68028
62	8029	SIDE LITE JAMB TRIM	68029

FD750 NARROW JAMB SIDE LITE

1	8006	FRAME - HEAD & SILL	68006
4	8008	DRIP CAP	68008
6	8007	SCREW COVER	68007
7	8009	INSTALL PLATE	68009
8	-----	FRAME ASSEMBLY SCREW #8 X 1" PH QUAD	781PQA
21	8014	TOP RAIL	68014
22	8013	BOTTOM RAIL	68013
35	-----	THREADED ROD 5/16-18 X 36"	6TRODA
36	-----	FLANGED HEX NUT 5/16-18	7990NUTA
37	8039	TRUSS CLAMP	60378M
60	-----	#8 X 3/4" PH SQ DRIVE TEK SCREW	78X34PSTW
61	8028	SIDE LITE HEAD TRIM	68028
70	8010	FRAME, JAMB	68010

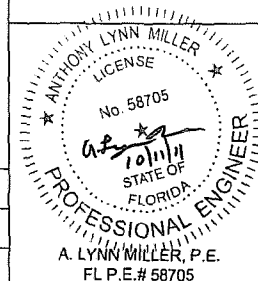
ASSEMBLY KIT

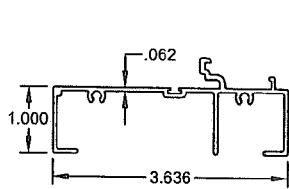
80	8033B	FRENCH DOOR ASSEMBLY BEAM	68033B
81	-----	#10-24 X 2 1/2" PH SCREW	
82	-----	#10-24 HEX NUT	
83	-----	#12 X 1 1/2" TR HD TEK SCREW	
84	8056	SUBSILL (OPTIONAL)	68056

GLASS, BEADS & SILICONE

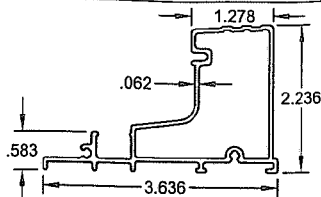
90	-----	GLAZING SEALANT, DOW CORNING 899, 983, 995 OR EQUIVALENT	
91	-----	7/16" LAMINATED GLASS (3/16" ANN., .090 PVB, 3/16" HS)	
92	-----	7/16" LAMINATED GLASS (3/16" HS., .090 PVB, 3/16" HS)	
93	-----	7/16" LAMINATED GLASS (3/16" ANN., .075 VANCEVA, 3/16" HS)	
94	-----	7/16" LAMINATED GLASS (3/16" HS., .075 VANCEVA, 3/16" HS)	
95	-----	7/8" LAMI I.G. (3/16" T, 1/4" SPACE, 3/16" ANN., .090 PVB, 3/16" HS)	
96	-----	7/8" LAMI I.G. (3/16" T, 1/4" SPACE, 3/16" HS., .090 PVB, 3/16" HS)	
97	-----	7/8" LAMI I.G. (3/16" T, 1/4" SPACE, 3/16" ANN., .075 VANCEVA, 3/16" HS)	
98	-----	7/8" LAMI I.G. (3/16" T, 1/4" SPACE, 3/16" HS., .075 VANCEVA, 3/16" HS)	
105	8022	BACK BEAD	68022
106	8026A	SL BACK BEAD	68026A
107	8023A	7/16" BEAD	68023A
108	8024A	7/8" IG BEAD	68024A
109	1224	VINYL BULB WSTP (THICK)	6TP247

PRODUCT REVIEWED
in compliance with the Florida
Building Code
Amendment No. 11-1013-24
Registration Date FEB. 24, 2015
By: *Manuel P. Ly*
Official State Product Control

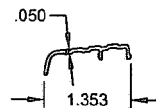




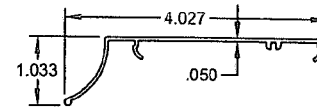
① #8006 6063-T6
FRAME, HEAD, JAMB
AND SIDELITE SILL



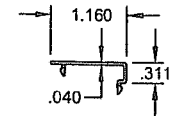
② #8003A 6063-T6
OUT-SWING SILL



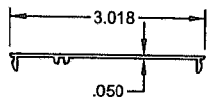
③ #8004C 6063-T5
OS SILL COVER



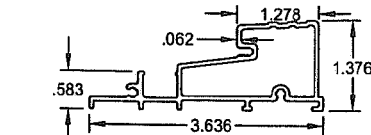
④ #8008 6063-T5
DRIP CAP



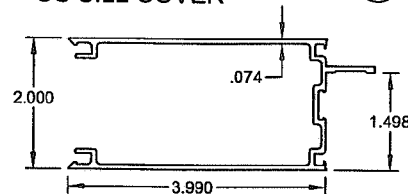
⑥ #8007 6063-T6
SCREW COVER



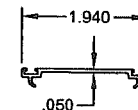
⑦ #8009 6063-T5
INSTALL PLATE



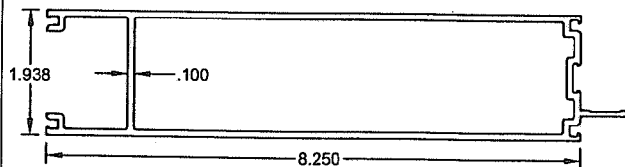
⑩ #8056 6063-T6
OUT-SWING LOW SILL



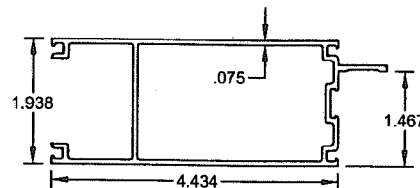
⑳ #8012 6063-T6
STILE



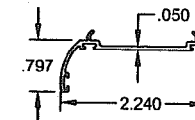
㉓ #8017 6063-T5
TOP SWEEP



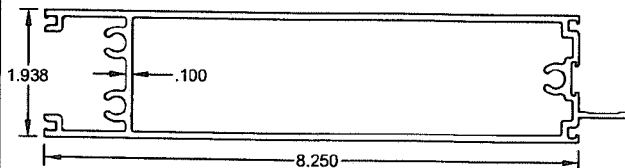
㉒ #8013 6063-T6
BOTTOM RAIL



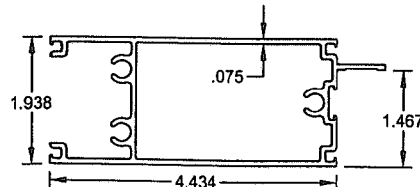
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TOP RAIL



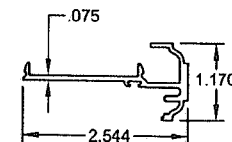
㉔ #8016 6063-T5
BOTTOM SWEEP



⑤⑥ #8013A 6063-T6
BOTTOM RAIL, LAG BOLT DESIGN

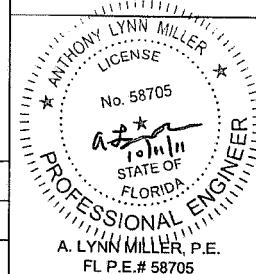


⑤⑤ #8014A 6063-T5
TOP RAIL, LAG BOLT DESIGN



②⑥ #8015 6063-T6
ASTRAGAL

PRODUCT REVIEWED
in compliance with the Florida
Building Code
Acceptance No. 11-1013-24
Expiration Date FEB-24-2015
Walter Perez
Impact Plastic Products



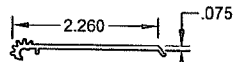
Revised By: F.K.	Date: 10/12/08	Revisions: B	UPGRADE ITEMS 3.
Revised By: J.R.	Date: 09/22/09	Revisions: C	ADDED LOW RISE SILL AND SECOND EXTRUSION SHEET.
Revised By: J.R.	Date: 01/25/10	Revisions: D	NO CHANGES THIS SHEET
Drawn By: F.K.	Date: 12/23/04	Checked By: L.T.	Date: 4/8/05

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

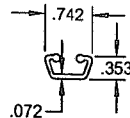


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Title: ALUM. FRENCH DOOR & SIDE LITES, IMPACT	Series/Model: FD750			

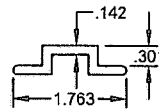
A. LYNN MILLER, P.E.
FL P.E.# 58705



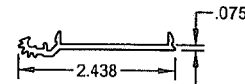
(27) #8021B 6063-T6
GEAR HINGE, JAMB



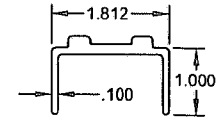
(28) #8020A 6063-T6
GEAR HINGE, COVER



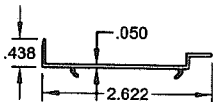
(29) #8018 6063-T5
HINGE, BACK-UP



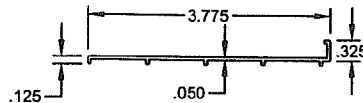
(30) #8019A 6063-T6
GEAR HINGE, DOOR



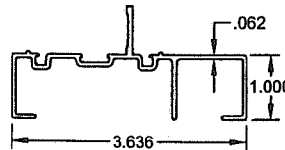
(37) #8039 6063-T6
TRUSS CLAMP



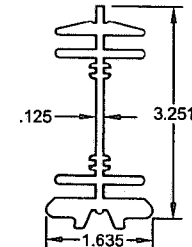
(61) #8028 6063-T5
SL HEAD TRIM



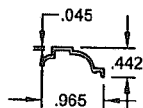
(84) #8056 6063-T4
SUBSILL, OPTIONAL



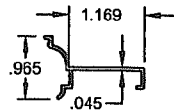
(70) #8010 6063-T6
NARROW SL JAMB



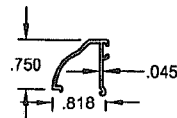
(80) #8033B 6105-T5
FD ASS'Y BEAM



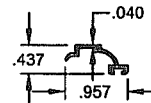
(105) #8022 6063-T5
BACKBEAD



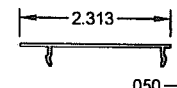
(106) #8026A 6063-T5
SL BACKBEAD



(107) #8023A 6063-T5
7/16" BEAD



(108) #8024A 6063-T5
I.G. BEAD



(62) #8029 6063-T5
SL JAMB TRIM

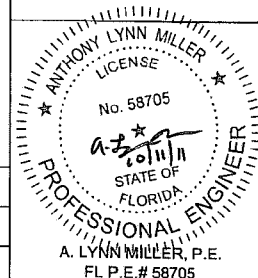
PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 11-1013-24
Registration Date FEB 04 2015
By *[Signature]*
Professional Engineer

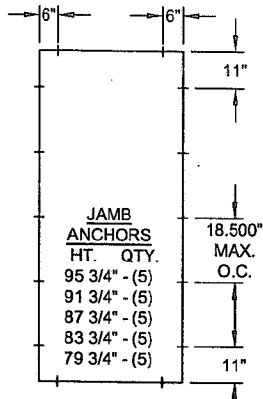
Revised By:	Date:	Revisions:	
F.K.	10/12/06	B	UPGRADE ITEMS 3.
Revised By:	Date:	Revisions:	
J.R.	09/22/09	C	NEW PAGE
Revised By:	Date:	Revisions:	
J.R.	01/25/10	D	NO CHANGES THIS SHEET
Drawn By:	Date:	Checked By:	Date:
F.K.	12/23/04	L.T.	4/8/05

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

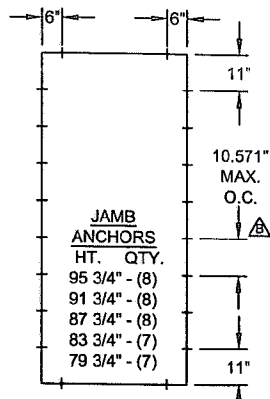


Description:			
EXTRUSION PROFILES			
Title:			
ALUM. FRENCH DOOR & SIDE LITES, IMPACT			
Series/Model:	Scale:	Sheet:	Drawing No.
FD750	1/2	9 of 12	8000-11
Rev:			E

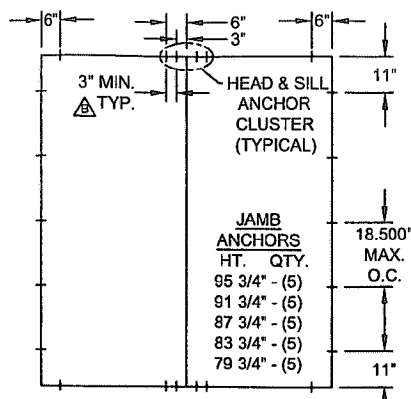




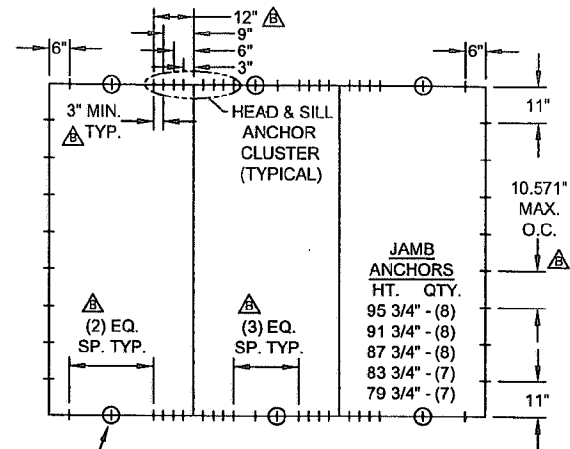
DETAIL A (CONCRETE)
 (SINGLE PANEL)
 ANCHOR TYPES:
 1 OR 2



DETAIL B (WOOD)
 (SINGLE PANEL)
 ANCHOR TYPES:
 2 OR 3



DETAIL C (CONCRETE)
 (2 OR MORE PANELS)
 ANCHOR TYPES:
 1 OR 2



DETAIL D (WOOD)
 (2 OR MORE PANELS)
 ANCHOR TYPES:
 2 OR 3

SEE NOTE 5
 REGARDING
 APPLICABILITY
 OF ENCIRCLED
 ANCHOR
 LOCATIONS

ANCHORAGE SPACING REQUIREMENTS:

1. DETAILS A AND B ABOVE REPRESENT ANCHORING OF SINGLE X DOORS, OR INDIVIDUAL SIDE LITE O PANELS WITH FULL OR NARROW WIDTH JAMBS. DETAILS C AND D ABOVE REPRESENT ANCHORING OF ANY MIXTURE OF DOUBLE XX DOORS, SINGLE X DOORS, NARROW JAMB OR FULL JAMB SIDE LITE PANELS, FOR MULTIPLE-PANEL INSTALLATIONS OF TWO OR MORE PANELS. UNLESS OTHERWISE STATED, DIMENSIONS OF DETAILS A THROUGH D ARE MAXIMUMS.

2. ANCHOR TYPES: 1 - 1/4" ELCO ULTRA CON 2 - 1/4" ELCO SS4 CRETE-FLEX 3 - #12 STEEL SCREW (G5)

CONCRETE SUBSTRATE USE TYPE 1 AT 1 3/8" MIN. EMBEDMENT OR TYPE 2 AT 1 3/4" EMBEDMENT. 1 3/4" MIN. EDGE DISTANCE FOR BOTH.
 WOOD SUBSTRATE - USE TYPE 2 OR TYPE 3 AT 1 3/8" MIN. EMBEDMENT.

3. SINGLE PANEL CONFIGURATIONS: (DETAIL A, CONCRETE SUBSTRATE. DETAIL B, WOOD SUBSTRATE)

HEAD AND SILL.....6" MAX. FROM FRAME CORNERS.

JAMBS.....11" MAX. FROM FRAME CORNERS, 18.500" MAX. O.C. CONCRETE SUBSTRATE (DETAIL A) AND 10.571" MAX. O.C. WOOD SUBSTRATE (DETAIL B).

4. TWO OR MORE PANEL CONFIGURATIONS: (DETAIL C, CONCRETE SUBSTRATE)

HEAD AND SILL.....6" MAX. FROM FRAME CORNERS, AND AT 3" AND 6" MAX. ON EACH SIDE OF ASSEMBLY BEAM AND/OR ASTRAGAL LOCATIONS (CLUSTER OF 4).

JAMBS.....11" MAX. FROM FRAME CORNERS AND 18.500" MAX. O.C.

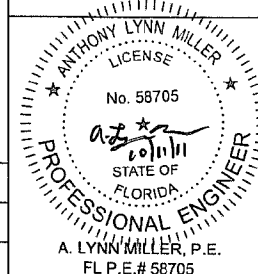
5. TWO OR MORE PANEL CONFIGURATIONS: (DETAIL D, WOOD SUBSTRATE)

HEAD AND SILL.....6" MAX. FROM FRAME CORNERS, AND AT 3", 6", 9" AND 12" MAX. ON EACH SIDE OF ASSEMBLY BEAM AND/OR ASTRAGAL LOCATIONS (CLUSTER OF 8).

PLUS ENCIRCLED ANCHORS OUTSIDE CLUSTERS, REQUIRED ONLY ON PANEL WIDTHS OVER 27 3/4".

JAMBS.....11" MAX. FROM FRAME CORNERS AND 10.571" MAX. O.C.

PRODUCT REVIEWED
 in compliance with the Florida
 Building Code
 Approval No. 11-013-24
 Expiration Date FEB. 24, 2015
Theresa Perez
 State Seal Product Control

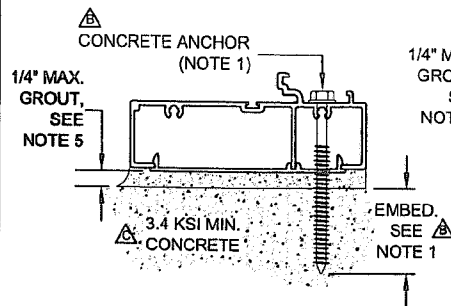


Revised By: F.K.	Date: 10/12/06	Revision: B	REMOVE NOTE PERTAINING TO ANCHORAGE OUTSIDE M-D COUNTY. REVISE ANCHORAGE PER FBC2004 AND REVISE NOTES 2, 3 & 5.
Revised By: J.R.	Date: 09/22/09	Revision: C	NO CHANGE THIS SHEET
Revised By: J.R.	Date: 01/25/10	Revision: D	CHANGED "TAPCON" TO "ULTRA CON".
Drawn By: F.K.	Date: 12/23/04	Checked By: L.T.	Date: 4/8/05

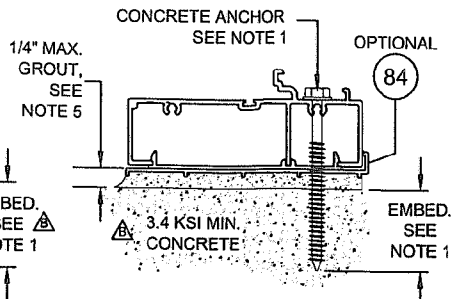
1070 TECHNOLOGY DRIVE
 NOKOMIS, FL 34275
 P.O. BOX 1529
 NOKOMIS, FL 34274



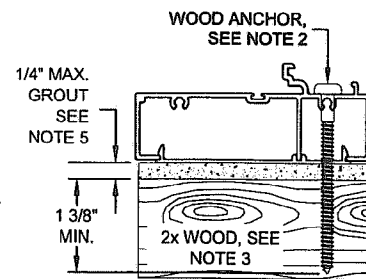
Description:	ANCHORAGE SPACING		
Title:	ALUM. FRENCH DOOR & SIDE LITES, IMPACT		
Series/Model:	FD750	Scale:	1/4"
Sheet:	10 of 12	Drawing No:	8000-11
Rev:	E		



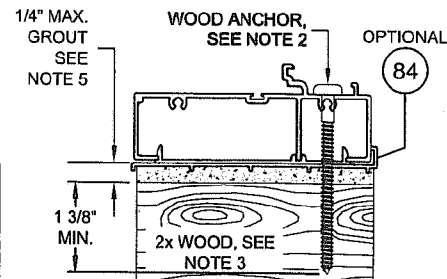
**TYPICAL SIDE LITE SILL
(DIRECT TO CONCRETE)**



**OPTIONAL SIDE LITE SILL
(SUBSILL TO CONCRETE)**

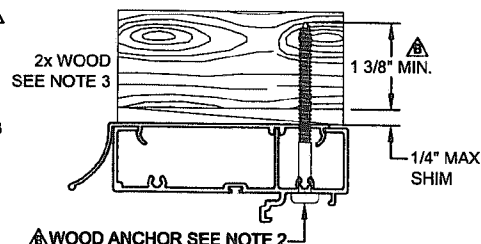
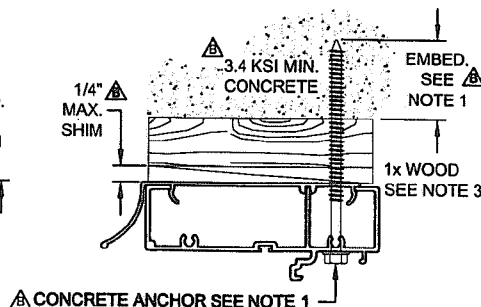
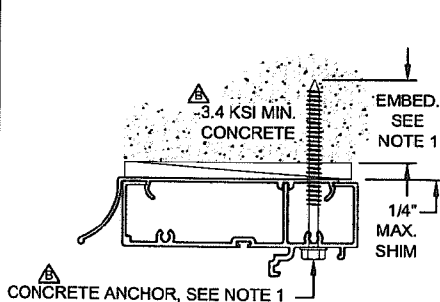


**TYPICAL SIDE LITE SILL
(DIRECT TO WOOD)**



**OPTIONAL SIDE LITE SILL
(SUBSILL TO WOOD)**

← **EXTERIOR** **INTERIOR** →
(ALL HEAD & SILL SECTIONS)



TYPICAL DOOR & SIDE LITE HEAD



NOTES:

- FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ELCO 1/4" ULTRACONS OR 1/4" SS4 CRETE-FLEX. MIN. DISTANCE FROM ANCHOR TO CONCRETE EDGE IS 1 3/4" MIN. EMBEDMENT: 1/4" ULTRA-CON - 1 3/8", 1/4" SS4 CRETE-FLEX - 1 3/4".
- FOR WOOD APPLICATIONS USE #12 STEEL SCREWS (G5) OR ELCO 1/4" SS4 CRETE-FLEX - 1 3/8" MIN. EMBEDMENT FOR EITHER.
- WOOD BUCKS DEPICTED AS 1x ARE LESS THAN 1 1/2" THICK. 1x WOOD BUCKS ARE OPTIONAL IF UNIT IS 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 THE AUTHORITY HAVING JURISDICTION (AHJ).
- FOR ATTACHMENT TO ALUM: THE MAT'L SHALL BE A MIN. STRENGTH OF 6063-T5 AND A MIN. OF 1/8" THICK. THE ALUM. STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE DOOR FRAME SIMILAR TO THAT SHOWN IN THE DETAILS ON THIS SHEET FOR 2x WOOD BUCKS. THE ANCHOR SHALL BE A #12 SMS WITH FULL ENGAGEMENT INTO THE ALUM. IF THESE CRITERIA ARE MET, THE PRESSURES SHOWN ON SHEET 3 AND ANCHORAGE SPACING FOR WOOD SHOWN ON SHEET 10 MAY BE USED.
- IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, 3400 PSI MIN., (DONE BY OTHERS) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE.

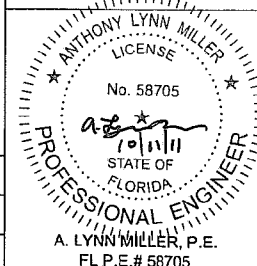
Revised By:	Date:	Revisions:	Notes:
F.K.	10/12/08	B	UPDATE ANCHORAGE AND NOTES
J.R.	09/22/09	C	CHANGED MIN KSI OF CONCRETE
J.R.	01/25/10	D	CHANGED "TAPCON" TO "ULTRA-CON".
Drawn By:	Date:	Checked By:	Date:
F.K.	12/23/04	L.T.	4/8/05

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274



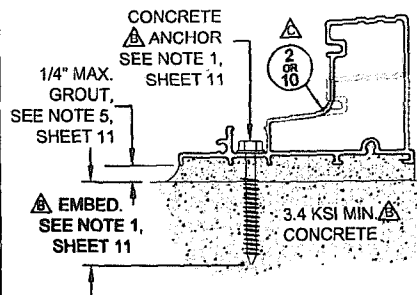
Anchor:	ANCHORAGE DETAILS
Title:	ALUM. FRENCH DOOR & SIDE LITES, IMPACT
Series/Model:	FD750
Scale:	1/4
Sheet:	11 of 12
Drawing No.	8000-11
Rev:	E

PRODUCT DIVISION
in compliance with the Florida
Building Code
Aspiration No. 11-1013.24
Expiration Date FEB. 14, 2015
By: *[Signature]*
Miami Code Product Control

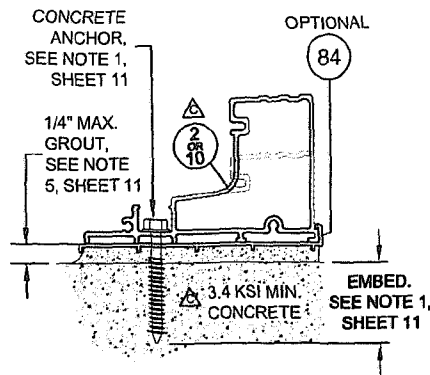


← EXTERIOR INTERIOR →

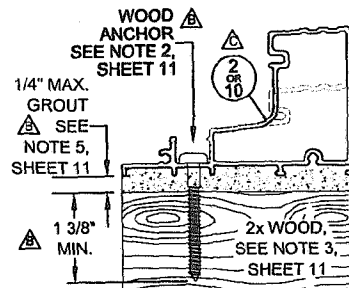
(ALL SILL SECTIONS)



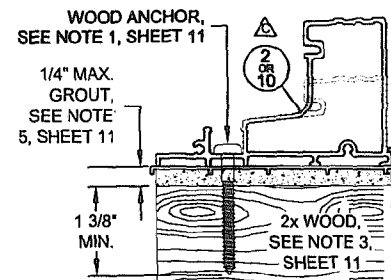
TYPICAL DOOR SILL
(DIRECT TO CONCRETE)



OPTIONAL DOOR SILL
(SUBSILL TO CONCRETE)

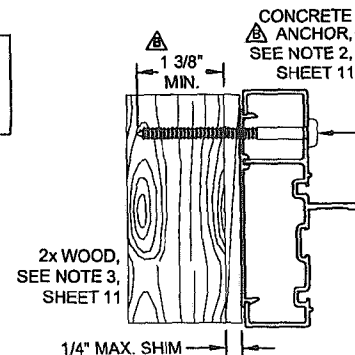
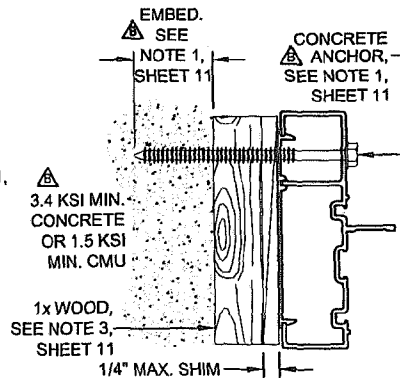
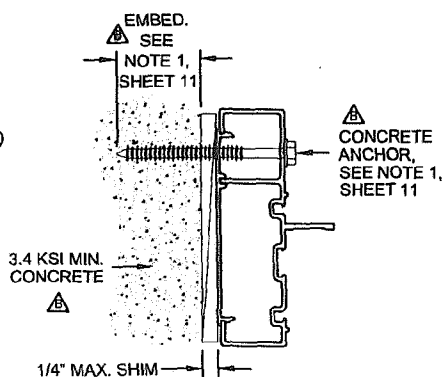


TYPICAL DOOR SILL
(DIRECT TO WOOD)



OPTIONAL DOOR SILL
(SUBSILL TO WOOD)

↑
INTERIOR
(ALL JAMB SECTIONS)
EXTERIOR
↓



TYPICAL DOOR & SIDE LITE JAMB

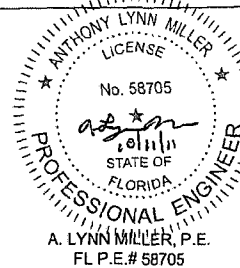
PRODUCT REVIEW
on complying with the Florida
Building Code
Expiration Date 11-10-13, 24
12-24-2015
By *Maurice Perry*
Building Code Project Control

Revised By: F.K.	Date: 10/12/08	Revisions: B	NEW SHT. ADD SUBSILL AND ALTERNATE TOP & BOTTOM RAIL EXTRUSIONS.
Revised By: J.R.	Date: 09/22/09	Revisions: C	CHANGED MIN KSI OF CONCRETE. ADDED LOW RISE SILL OPTION. REORGANIZED DETAILS.
Revised By: J.R.	Date: 01/25/10	Revisions: D	NO CHANGES THIS SHEET
Drawn By: F.K.	Date: 12/23/04	Checked By: L.T.	Date: 4/8/05

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274



Description: ANCHORAGE DETAILS			
Title: ALUM. FRENCH DOOR & SIDE LITES, IMPACT			
Series/Model: FD750	Scale: 1/4	Sheet: 12 of 12	Drawing No. 8000-11
Rev.:			E





DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 S.W. 26th 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 "SH-700" Aluminum Single Hung Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. 4040-20, titled "Alum. Single Hung Window, Impact", sheets 1 through 11 of 11, dated 09/01/2005, with revision "D" dated 10/07/2011, prepared by manufacturer, signed and sealed by Anthony Lynn 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: Miami-Dade County Product Control Approved Shutters Or Protection Devices shall be required for Glazing Option "M" at installations above 30 Ft. above ground (See sheet 1 of 11).

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.

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. 11-0405.10 and consists of this page 1, evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**

MIAMI-DADE COUNTY
APPROVED

J. Gascon
10/27/11

NOA No. 11-1013.14
Expiration Date: March 26, 2016
Approval Date: November 03, 2011
Page 1

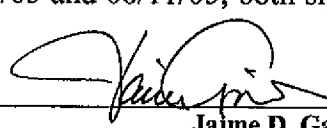
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **4040-20**, titled "Alum. Single Hung Window, Impact", sheets 1 through 11 of 11, dated 09/01/2005, with revision "**D**" dated 10/07/2011, prepared by manufacturer, signed and sealed 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, TAS 202-94
along with marked-up drawings and installation diagram of an aluminum single hung window, with fin frame, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4957**, dated 10/03/06, signed and sealed by Edmundo Largaespada, P. E.
(Submitted under previous NOA No.07-0322.06)
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum single hung window, with fin frame, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.'s **FTL-4958** and **FTL-5063**, dated 10/03 and 11/21/06, both signed and sealed by Edmundo Largaespada, P. E.
(Submitted under previous NOA No.07-0322.06)
3. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum single hung window, with fin frame, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4645**, dated 08/11/05, signed and sealed by Edmundo Largaespada, P. E.
(Submitted under previous NOA No.07-0322.06)
4. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum single hung window, with fin frame, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.'s **FTL-4649** and **FTL-4723**, dated 10/05 and 08/11/05, both signed and sealed by Edmundo Largaespada, P. E.
(Submitted under previous NOA No. 05-1018.01)


Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 11-1013.14
Expiration Date: March 26, 2016
Approval Date: November 03, 2011

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

- 3) 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) Small 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 an aluminum single hung window, with fin frame, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.'s **FTL-4947** and **FTL-4650**, dated 08/11/05, both signed and sealed by Edmundo Largaespada, P. E.
(Submitted under previous NOA No.05-1018.01)
- 4) Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum single hung window, with fin frame, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.'s **FTL-4948** and **FTL-4646**, dated 08/10/05, both signed and sealed by Edmundo Largaespada, P. E.
(Submitted under previous NOA No.05-1018.01)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, dated 01/11/2011, prepared, signed and sealed by Robert L. Clark, P. E.
Complies with ASTM E1300-04
(Submitted under previous NOA No.11-0128.03)

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.01** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite® PVB Interlayer**" dated 09/08/11, expiring on 12/11/16.
2. Notice of Acceptance No. **11-0325.05** issued to Solutia Inc. for their "**Saflex and Vanceva clear and color interlayers**" dated 05/05/2011, expiring on 05/21/2016.



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 11-1013.14
Expiration Date: March 26, 2016
Approval Date: November 03, 2011

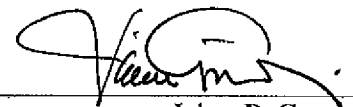
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance and compliances with the FBC-2007 and FBC-2010, dated October 07, 2011, signed and sealed by Anthony Lynn Miller, P. E.
2. Statement letter of no financial interest and independency, dated October 07, 2011, signed and sealed by Anthony Lynn Miller, P. E.
3. Laboratory compliance letter for Test Reports No.'s **FTL-4957, FTL-4958, FTL-5063, FTL-4645, FTL-4649, FTL-4723, FTL-4947, FTL-4650, FTL-4948** and **FTL-4646**, issued by Fenestration Testing Laboratory, dated 10/03/06 through 08/10/05, all signed and sealed by Edmundo Largaespada, P. E.
(Submitted under previous NOA No. 07-0322.06 and 05-1018.01)

G. OTHERS

1. Notice of Acceptance No. **11-0405.10**, issued to PGT Industries for their Series **"SH-700 Aluminum Single Hung Window - L.M.I."**, approved on 04/21/2011 and expiring on 03/23/2016.



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 11-1013.14
Expiration Date: March 26, 2016
Approval Date: November 03, 2011

GENERAL NOTES: IMPACT SINGLE HUNG FLANGED AND INTEGRAL FIN WINDOWS

1. GLAZING OPTIONS: (SEE DETAILS ON SHEET 2)

- A. 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" ANNEALED GLASS WITH A .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
B. 5/16" LAMI CONSISTING OF (1) LITE OF 1/8" ANNEALED GLASS AND (1) LITE OF 1/8" HEAT STRENGTHENED GLASS WITH A .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
C. 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" HEAT STRENGTHENED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
D. 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" ANNEALED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
E. 7/16" LAMI CONSISTING OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB.
F. 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
G. 13/16" LAMI IG: (1) LITE OF 1/8" TEMPERED GLASS, AN AIR SPACE AND 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" ANNEALED GLASS WITH A .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
H. 13/16" LAMI IG: (1) LITE OF 1/8" TEMPERED GLASS, AN AIR SPACE AND 5/16" LAMI CONSISTING OF (1) LITE OF 1/8" ANNEALED GLASS AND (1) LITE OF 1/8" HEAT STRENGTHENED GLASS WITH A .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
I. 13/16" LAMI IG: (1) LITE OF 1/8" TEMPERED GLASS, AN AIR SPACE AND 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" HEAT STRENGTHENED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
J. 13/16" LAMI IG: (1) LITE OF 1/8" TEMPERED GLASS, AN AIR SPACE AND 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" ANNEALED GLASS WITH A .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
K. 13/16" LAMI IG: (1) LITE OF 1/8" TEMPERED GLASS, AN AIR SPACE AND 7/16" LAMI CONSISTING OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB.
L. 13/16" LAMI IG: (1) LITE OF 1/8" TEMPERED GLASS, AN AIR SPACE AND 7/16" LAMI CONSISTING OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.
M. 13/16" LAMI IG: (1) LITE OF 1/8" ANNEALED GLASS, AN AIR SPACE AND 5/16" LAMI CONSISTING OF (2) LITES OF 1/8" ANNEALED GLASS WITH AN .090 DUPONT BUTACITE OR SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER.

2. CONFIGURATIONS: "OX" (1/1, VIEW AND RADIUS TOP, ALL W/ LOW OR HIGH SILL OPTION)

3. DESIGN PRESSURES: (SEE TABLES, SHEETS 3)

- 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.

4. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEETS 8 THROUGH 11 FOR ANCHORAGE DETAILS.

5. SHUTTERS ARE NOT REQUIRED.

6. FRAME AND PANEL CORNERS SEALED WITH NARROW JOINT SEALANT OR GASKET.

**7. REFERENCES: TEST REPORTS FTL-4645, FTL-4646, FTL-4647, FTL-4648, FTL-4649, FTL-4650, FTL-4651, FTL-4723, FTL-4957, FTL-4958 AND FTL-5063.
ANSI/AF&PA NDS-2001 FOR WOOD CONSTRUCTION
ADM-2000 ALUMINUM DESIGN MANUAL**

8. SERIES/MODEL DESIGNATION SH700, ALSO REFERRED TO AS SH701.

9. THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

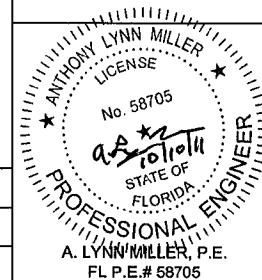
NOA DRAWING MAP

SHEET

GENERAL NOTES.....	1
GLAZING DETAILS.....	2
DESIGN PRESSURES.....	3
ELEVATIONS.....	4
VERT. SECTIONS.....	5
HORIZ. SECTIONS.....	5
PARTS LIST.....	6
EXTRUSIONS.....	7
CORNER DETAIL.....	7
ANCHORAGE.....	8-11

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **11-1913-1A**
Expiration Date **03/26/2016**

By **[Signature]**
Miami Dade Product Control



Revised By: J.J.	Date: 10/07/11	Revisions: D	2010 FBC UPDATE
Revised By: J.R.	Date: 04/01/11	Revisions: C	CHANGED CAP GLASS TYPE TO TEMPERED FROM HS
Revised By: F.K.	Date: 11/13/08	Revisions: B	CHANGE NOTES 3 & 7. ADD NOTE 8. ADD GLASS TYPE M TO NOTE 1. GLAZING OPTIONS
Drawn By: F.K.	Date: 9/1/05	Checked By: J.J.	Date: 2/23/07

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274



GENERAL NOTES

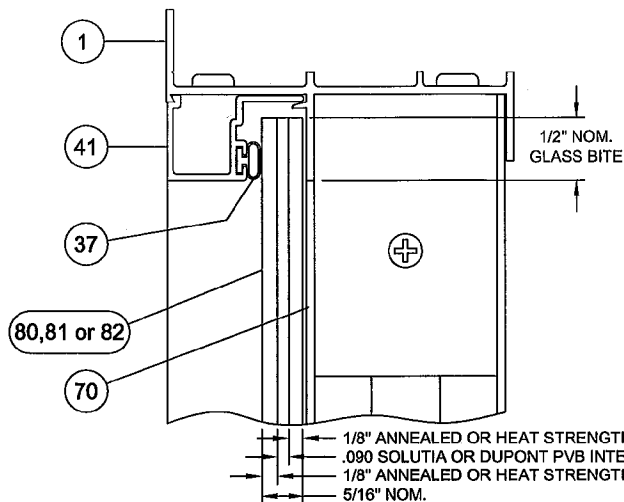
ALUM. SINGLE HUNG WINDOW, IMPACT

Series/Model: SH700	Scale: NTS	Sheet: 1 of 11	Drawing No. 4040-20	Rev: D
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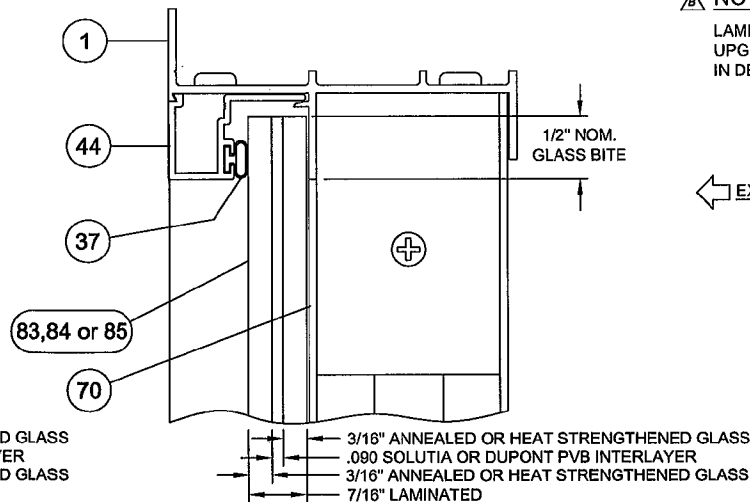
NOTE:

LAMI IG OUTBOARD LITES MAY BE
UPGRADED TO 3/16" WITH NO CHANGE
IN DESIGN PRESSURE.

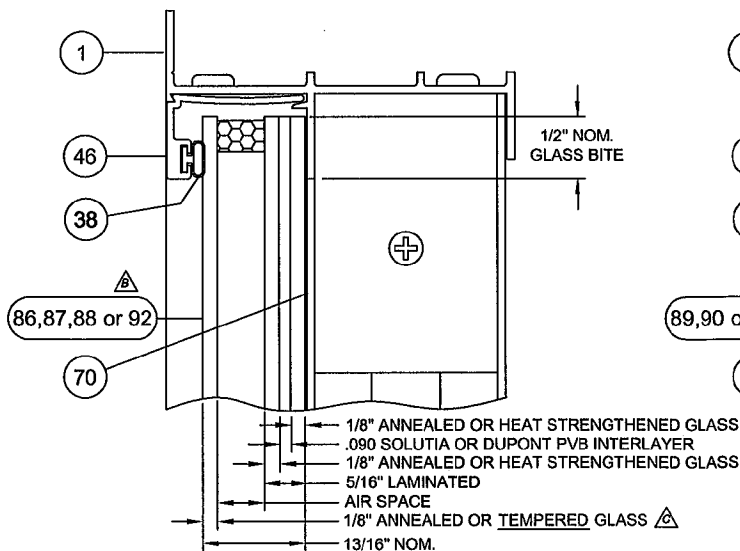
← EXTERIOR INTERIOR →
(ALL SECTIONS)



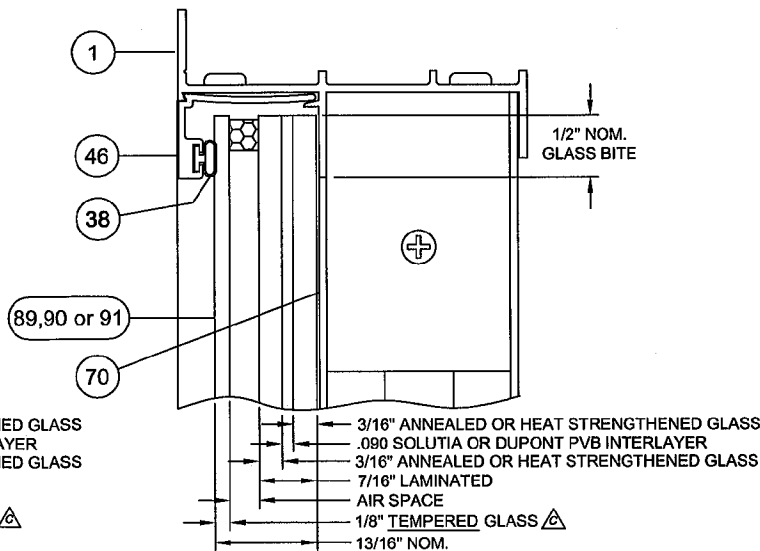
5/16" LAMINATED GLASS



7/16" LAMINATED GLASS

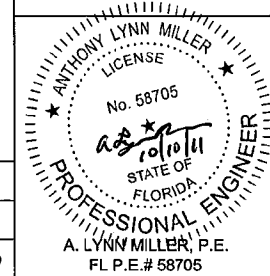


13/16" LAMI IG GLASS W/ 5/16" LAMI



13/16" LAMI IG GLASS W/ 7/16" LAMI

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1013, 14
Expiration Date 03/26/2016
By *[Signature]*
Miami Dade Product Control



Revised By: J.J.	Date: 10/07/11	Revisions: D	NO CHANGES THIS SHEET
Revised By: J.R.	Date: 04/01/11	Revisions: C	CHANGED CAP GLASS TYPE TO TEMPERED FROM HS
Revised By: F.K.	Date: 11/13/06	Revisions: B	ADD ITEM 92 TO 5/16 LAMI I.G. GLASS (A,A,A) & LAMI IG NOTE
Drawn By: F.K.	Date: 9/1/05	Checked By: J.J.	Date: 2/23/07

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

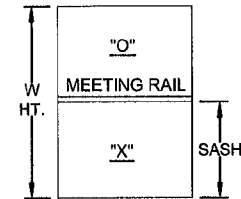


Description: GLAZING DETAILS	Series/Model: SH700	Scale: Full	Sheet: 2 of 11	Drawing No. 4040-20	Rev: D
Title: ALUM. SINGLE HUNG WINDOW, IMPACT					

1/1 FLANGE OR INTEGRAL FIN WINDOWS W/ HIGH SILL OPTION 
BASED ON FLANGED WINDOW TIP-TO-TIP FRAME DIMENSIONS

TABLE 1.

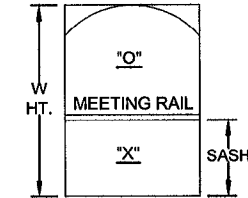
WIDTH	GLASS TYPE	WINDOW HEIGHT											
		63"	66"	68"	70"	72"	74"	76"					
48"	A,B,M 	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0
50"	A,B,M 	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+79.0	-79.0
52"	A,B,M 	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+78.8	-78.8	+77.3	-77.3	+75.9	-75.9
53 1/8"	A,B,M 	+80.0	-80.0	+80.0	-80.0	+79.6	-79.6	+78.2	-78.2	+76.9	-76.9	+74.0	-74.0
UP TO 53 1/8"	C,D,E,F,G,H,I,J,K,L	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0



STANDARD VIEW & RADIUS TOP FLANGE OR INTEGRAL FIN WINDOWS W/ HIGH SILL OPTION 
BASED ON FLANGED WINDOW TIP-TO-TIP FRAME DIMENSIONS

TABLE 2.

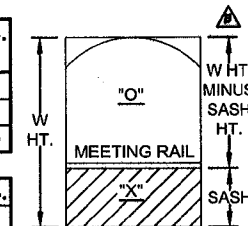
WIDTH	GLASS TYPE	WINDOW HEIGHT											
		36 3/8"	44"	50 5/8"	63"	72"	74"	76"					
48"	A,B,M 	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0
50"	A,B,M 	+80.0	-80.0	+80.0	-80.0	+79.9	-79.9	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0
52"	A,B,M 	+80.0	-80.0	+80.0	-80.0	+76.9	-76.9	+70.0	-70.0	+68.8	-68.8	+67.6	-67.6
53 1/8"	A,B,M 	+80.0	-80.0	+80.0	-80.0	+75.0	-75.0	+68.0	-68.0	+66.7	-66.7	+65.5	-65.5
UP TO 53 1/8"	C,D,E,F,G,H,I,J,K,L	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0



CUSTOM VIEW & RADIUS TOP FLANGE OR INTEGRAL FIN WINDOWS W/ HIGH SILL OPTION 
BASED ON FLANGED WINDOW TIP-TO-TIP FRAME DIMENSIONS

TABLE 3.

WIDTH	GLASS TYPE	WINDOW HEIGHT MINUS SASH HEIGHT (MAX. WINDOW HT. W/ SASH = 76" FLANGED AND 75" INTEGRAL FIN)											
		17 1/8"	22 11/16"	28 3/16"	33 3/4"	39 5/16"	44 13/16"	50 3/8"	55 15/16"				
53 1/8"	D,E,F,J,K,L	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0



GLASS TYPES:

TEST REPORTS

TABLE 4.

A. 5/16" LAMI - (1/8"A.,.090,1/8"A)	FTL-4647, 4648, 4723, 4957
B. 5/16" LAMI - (1/8"A.,.090,1/8"HS)	FTL-4647, 4648
C. 5/16" LAMI - (1/8"HS,.090,1/8"HS)	FTL-4647, 4648
D. 7/16" LAMI - (3/16"A.,.090, 3/16"A)	FTL-4645, 4885
E. 7/16" LAMI - (3/16"A.,.090, 3/16"HS)	FTL-4645
F. 7/16" LAMI - (3/16"HS,.090, 3/16"HS)	FTL-4645
G. 13/16" LAMI IG - 1/8" T, AIR SPACE, 5/16" LAMI - (1/8"A.,.090,1/8"A)	FTL-4646, 4723
H. 13/16" LAMI IG - 1/8" T, AIR SPACE, 5/16" LAMI - (1/8"A.,.090,1/8"HS)	FTL-4646
I. 13/16" LAMI IG - 1/8" T, AIR SPACE, 5/16" LAMI - (1/8"HS,.090,1/8"HS)	FTL-4646
J. 13/16" LAMI IG - 1/8" T, AIR SPACE, 7/16" LAMI - (3/16"A.,.090, 3/16"A)	FTL-4649, 4650
K. 13/16" LAMI IG - 1/8" T, AIR SPACE, 7/16" LAMI - (3/16"A.,.090, 3/16"HS)	FTL-4649, 4650, 4958
L. 13/16" LAMI IG - 1/8" T, AIR SPACE, 7/16" LAMI - (3/16"HS,.090, 3/16"HS)	FTL-4649, 4650
M. 13/16" LAMI IG - 1/8"A, AIR SPACE, 5/16" LAMI - (1/8"A.,.090, 1/8"A) 	FTL-5063

- NOTES:**
1. WINDOWS WITH THE LOW SILL OPTION ARE LIMITED TO A POSITIVE DESIGN PRESSURE OF +64.0 PSF OR LOWER AS SHOWN IN THE TABLES. NEGATIVE DESIGN PRESSURES ARE UNEFFECTED.
 2. FOR INTEGRAL FIN WINDOW DESIGN PRESSURES USE THE ABOVE TABLES BY DEDUCTING 1" FROM THE FLANGED TIP-TO-TIP FRAME DIMENSIONS. 
 3. AVAILABLE SASH HEIGHTS FOR CUSTOM WINDOWS ARE 12 5/8" MINIMUM TO 38" MAXIMUM. 

Revised By: J.J.	Date: 10/07/11	Revisions: D	NO CHANGES THIS SHEET
Revised By: J.R.	Date: 04/01/11	Revisions: C	CHANGED CAP GLASS TYPE TO TEMPERED FROM HS
Revised By: F.K.	Date: 11/13/08	Revisions: B	UPDATE TO ASTM E 1300-02. REMOVE STD VIEW SASH HT REF, TABLE 2. REVISED CUSTOM FORMAT DPS. ADD INT. FIN. UPDATE TEST NOS.
Drawn By: F.K.	Date: 9/1/05	Checked By: J.J.	Date: 2/23/07

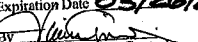
1070 TECHNOLOGY DRIVE
 NOKOMIS, FL 34276
 P.O. BOX 1529
 NOKOMIS, FL 34274

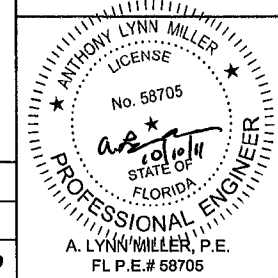
PGT
 Visibly Better

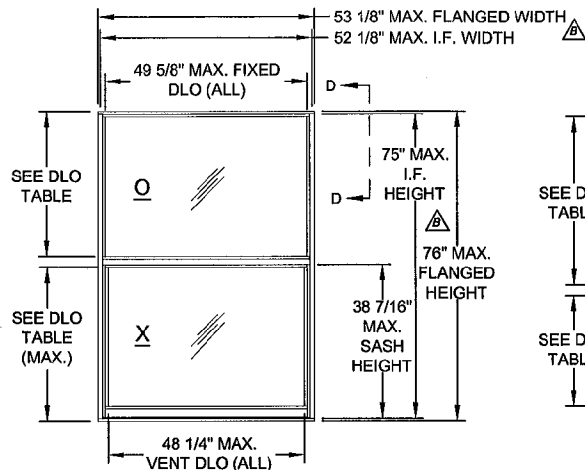
DESIGN PRESSURES

ALUM. SINGLE HUNG WINDOW, IMPACT

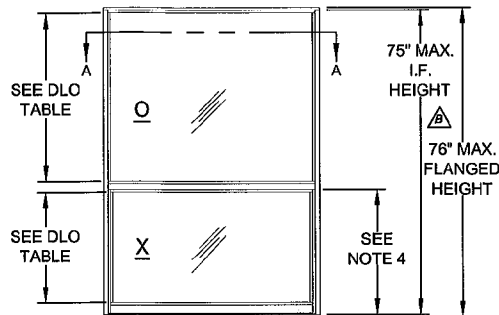
Series/Model: SH700	Scale: NTS	Sheet: 3 of 11	Drawing No. 4040-20	Rev: D
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PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 11-1013, 1A
 Expiration Date 03/26/2016
 By: 
 Miami Dade Product Control

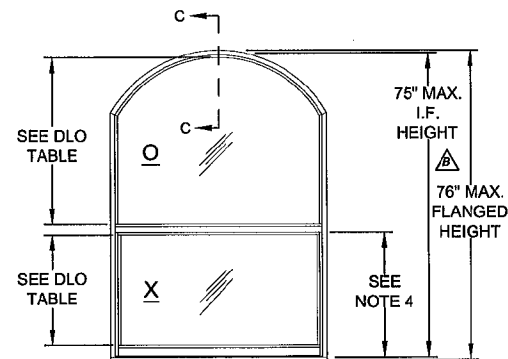




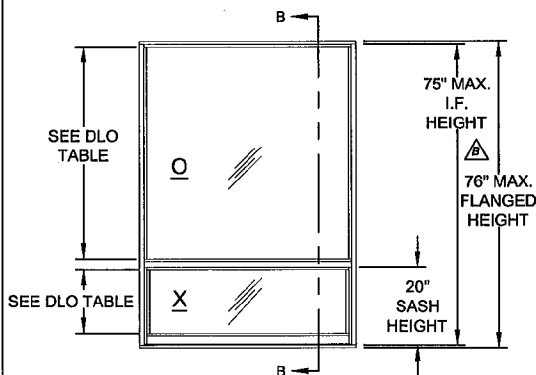
DETAIL A
1/1



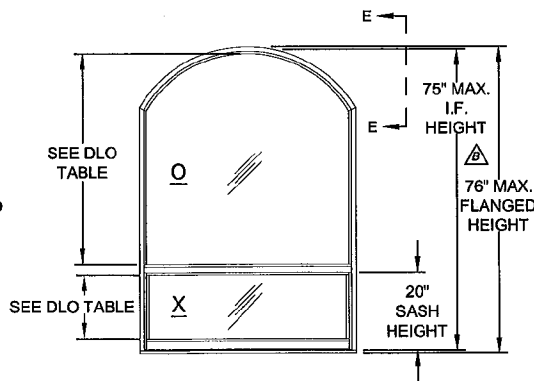
DETAIL B
VIEW (STANDARD SASH)



DETAIL C
RADIUS TOP (STANDARD SASH)



DETAIL D
VIEW (CUSTOM SASH)



DETAIL E
RADIUS TOP (CUSTOM SASH)

VERTICAL DAYLIGHT OPENING		
FIXED LITE		
DETAIL	LOW SILL	HIGH SILL
A	34 1/2"	34 3/16"
B	41 5/8"	41 1/4"
C	41 1/4"	40 7/8"
D	52 5/8"	52 11/16"
E	52 1/4"	52 5/16"
SASH		
DETAIL	LOW SILL	HIGH SILL
A	34 1/2"	34 3/16"
B	27 7/16"	27 1/8"
C	27 7/16"	27 1/8"
D	16 3/8"	15 3/4"
E	16 3/8"	15 3/4"

TABLE 5.

NOTES:

- SEE SHEET 5 FOR VERTICAL AND HORIZONTAL SECTION DETAILS.
- SEE SHEET 7 FOR CORNER DETAIL VIEWS.
- SEE SHEETS 8 THROUGH 11 FOR ANCHORAGE INFORMATION. Δ
- SASH HEIGHTS FOR STANDARD SASH WINDOWS (DETAILS B & C) ARE BASED ON A THREE OVER TWO FORMAT. Δ

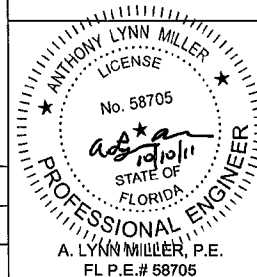
Revised By: J.J.	Date: 10/07/11	Revisions: D	NO CHANGES THIS SHEET
Revised By: J.R.	Date: 04/01/11	Revisions: C	NO CHANGES THIS SHEET
Revised By: F.K.	Date: 11/13/06	Revisions: B	ADD INTEGRAL FIN (I.F.) VERSION, CHG. NOTE 3. ADD NOTE 4.
Drawn By: F.K.	Date: 9/1/05	Checked By: J.J.	Date: 2/23/07

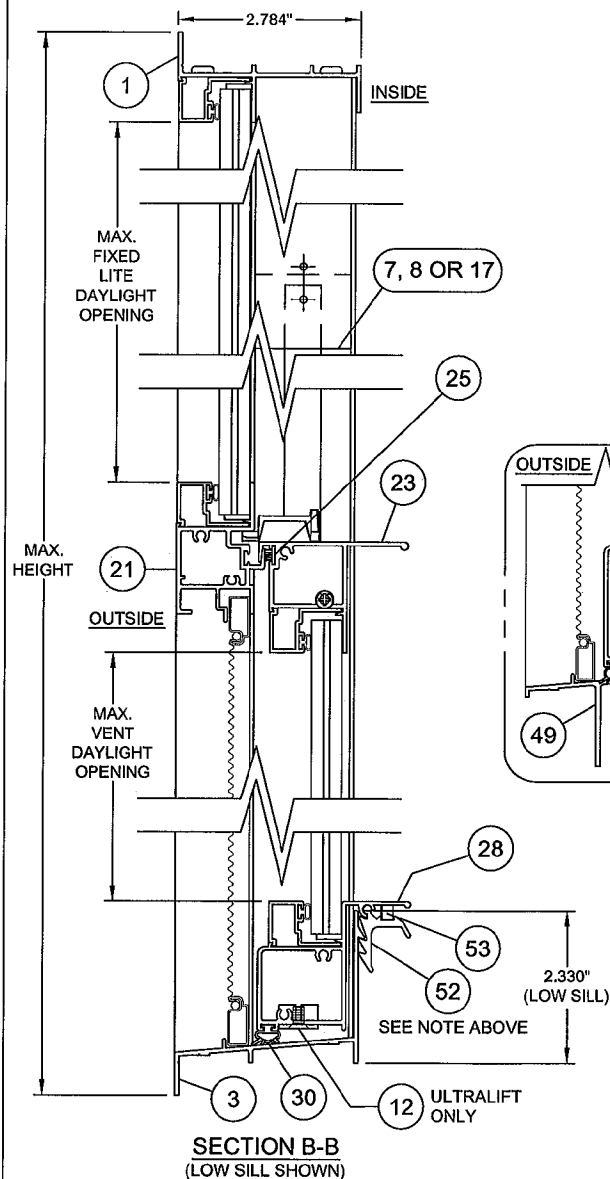
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1629
NOKOMIS, FL 34274

PGT
Visibly Better

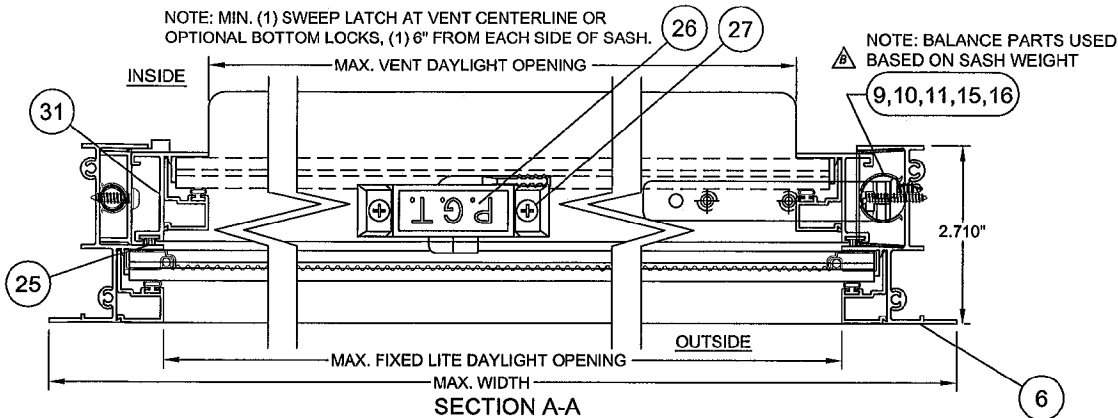
Description: ELEVATIONS	Series/Model: SH700	Scale: NTS	Sheet: 4 of 11	Drawing No. 4040-20	Rev: D
Title: ALUM. SINGLE HUNG WINDOW, IMPACT					

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **11-1013.4**
Expiration Date **03/26/2016**
By *[Signature]*
Miami Trade Product Control

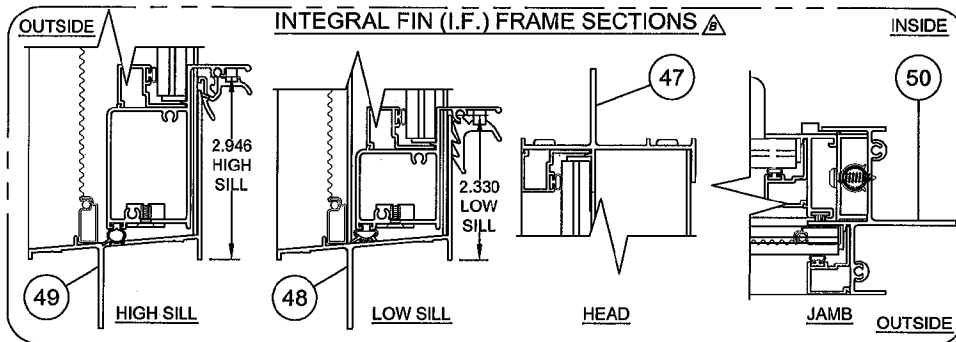




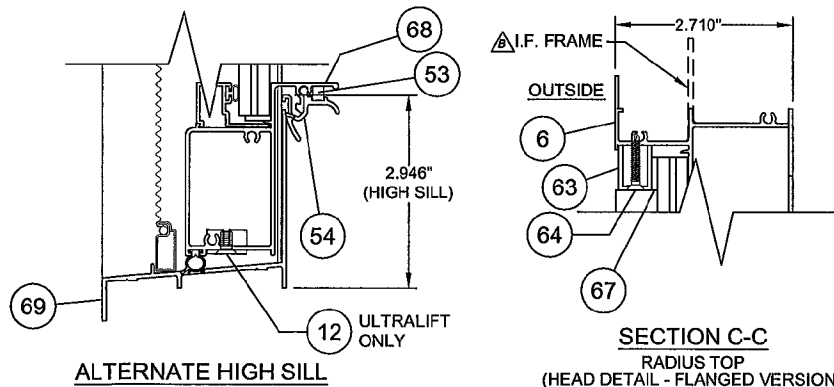
SECTION B-B
(LOW SILL SHOWN)



SECTION A-A



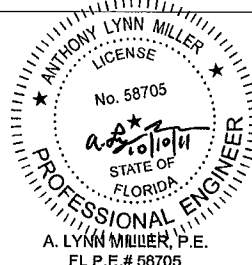
INTEGRAL FIN (I.F.) FRAME SECTIONS



ALTERNATE HIGH SILL

SECTION C-C
RADIUS TOP
(HEAD DETAIL - FLANGED VERSION)

PRODUCT REVISED
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Building Code
Acceptance No. 11-101314
Expiration Date 03/26/2016
By *[Signature]*
Miami Dade Product Control



Revised By: J.J.	Date: 10/07/11	Revisions: D	NO CHANGES THIS SHEET
Revised By: J.R.	Date: 04/01/11	Revisions: C	NO CHANGES THIS SHEET
Revised By: F.K.	Date: 11/13/08	Revisions: B	ADD I.F. SECTIONS & CONSOLIDATE BAL. COMPONENTS
Drawn By: F.K.	Date: 9/1/05	Checked By: J.J.	Date: 2/23/07

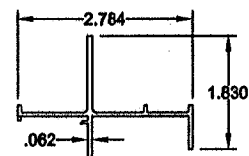
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274



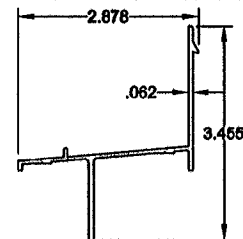
Description: SECTIONS	Title: ALUM. SINGLE HUNG WINDOW, IMPACT
Series/Model: SH700	Scale: Half
Sheet: 5 of 11	Drawing No. 4040-20
Rev: D	

ITEM	DWG.#	DESCRIPTION	PGT#
1	4002A	FLANGE FRAME HEAD	61222S
2	1155	#8 X 1.000 QUAD PN. SMS	781PQA
3	4003C	FLANGE FRAME SILL (LOW SILL)	61222B
5	1626	ADHESIVE OPEN CELL FOAM PAD	7PAD1626
6	4004	FLANGE FRAME JAMB	612227
7	4025	SASH STOP	612244
8	4025	SASH STOP (EGRESS) 1.125 LONG	612244
9	4029	SPIRAL BALANCE, 3/8", 5/8", OR 11/16"	
10	1080	BALANCE COVER, 3/8" OR 5/8"	6BALCVR916
11		#8 X .750 PH. PN. SMS	7834AA
12		BALANCE BOTTOM BRACKET	7BALTBKT
13	1085/1086	SASH TOP GUIDE	42504
15		#8 X 1 PHILLIPS FLAT HEAD S. STL	78X1FFAX
16	1080-1	BALANCE COVER, 11/16"	6BALCVR870
17	4053	SASH STOP COVER	64053
18	4029-1	SASH BRACKET	7ULBRKT
19		#6-32 X 1/2" LG. PH. FH. TYPE F S. STL	7832X12FFFX
21	4054C	FIXED MEETING RAIL	64054C
23	4006C	SASH TOP RAIL	64006
25	1235	WSTP., 170 X .270 BACK, FIN SEAL	67S16G
26	1096	SWEEP LATCH	71096
27	1016	#8 X .625 PH. FL. SMS	7858
28	4007	SASH BOTTOM RAIL (LOW SILL)	612230
30	1226	WSTP., BULB VINYL	6TP249
31	4008	SASH SIDE RAIL	612231
34	1268	SASH FACE GUIDE	42501
35	1622	LAMI SETTING BLOCK 3/32" X 25/64" X 1"	71822K
36	1052	LAMI IG SETTING BLOCK 1" X 3/4" X 1/16"	71052K
37	1224	VINYL GLAZ. BEAD BULB (THICK)	6TP247WK
38	1225	VINYL GLAZ. BEAD BULB (THIN)	6TP248K
41	4039B	GLAZING BEAD, 5/16 LAM. GLASS.	64039B
42	4044B	GLAZING BEAD, 5/16 LAMI W/GRILL KIT	644703
44	4222A	GLAZING BEAD, 7/16" LAMI	64222
45	985C	GLAZING BEAD, 7/16" LAMI W/GRILL KIT	6985
46	4067	GLAZING BEAD, 13/16" LAMI I.G.	64067
47	4071A	FRAME, I.F. HEAD	64071
48	4072A	FRAME, I.F. LOW SILL	64072
49	4073A	FRAME, I.F. HIGH SILL	64073
50	4074B	FRAME, I.F. JAMB	64074
52	4009	SILL LATCH (EGRESS) (LOW SILL)	764009
53	1088	SPRING, SILL LATCH (EGRESS)	7SPRNG
54	2740	SILL LATCH (EGRESS) (HIGH SILL)	62740
55	1014	SCREEN FRAME (HOR. & VER.)	61014
56	1630	SCREEN CORNER KEY W/GRILLS	71630
57	1631	SCREEN CORNER KEY W/OUT RINGS	71631
58	1073	SCREEN SPRING	7CASP
59	1624	SCREEN SPLINE - .135 DIA. FOAM	61624K

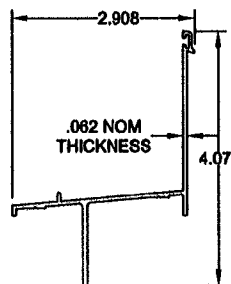
ITEM	DWG.#	DESCRIPTION	PGT#
60	1635	SCREEN SPLINE - .135 DIA. HARD	61635K
61		SCREEN CLOTH	61816
63	505	GLAZING CHANNEL (.688 X .500)	6533402
64	1161	#6 X 1.000 PH. BUGLE TEK	706X1
67		GLAZING TAPE, 1/16 X 1/2 - 7/16 LAMI	62BV1510
68	4051A	SASH BOTTOM RAIL (HIGH SILL)	64051
69	4050A	FLANGE FRAME SILL (HIGH SILL)	64050
70		SILICONE, DOW 899, 995 OR EQUIV.	
80		A. GLASS, 5/16" LAMI, (1/8"A, .090 PVB, 1/8"A)	
81		B. GLASS, 5/16" LAMI, (1/8"A, .090 PVB, 1/8"HS)	
82		C. GLASS, 5/16" LAMI, (1/8"HS, .090 PVB, 1/8"HS)	
83		D. GLASS, 7/16" LAMI, (1/8"A, .090 PVB, 1/8"A)	
84		E. GLASS, 7/16" LAMI, (1/8"A, .090 PVB, 1/8"HS)	
85		F. GLASS, 7/16" LAMI, (1/8"HS, .090 PVB, 1/8"HS)	
86		G. GLASS, 13/16" LAMI IG; 1/8" T, AIR SPACE, 5/16" LAMI, (1/8"A, .090 PVB, 1/8"A)	
87		H. GLASS, 13/16" LAMI IG; 1/8" T, AIR SPACE, 5/16" LAMI, (1/8"A, .090 PVB, 1/8"HS)	
88		I. GLASS, 13/16" LAMI IG; 1/8" T, AIR SPACE, 5/16" LAMI, (1/8"HS, .090 PVB, 1/8"HS)	
89		J. GLASS, 13/16" LAMI IG; 1/8" T, AIR SPACE, 7/16" LAMI, (3/16"A, .090 PVB, 3/16"A)	
90		K. GLASS, 13/16" LAMI IG; 1/8" T, AIR SPACE, 7/16" LAMI, (3/16"A, .090 PVB, 3/16"HS)	
91		L. GLASS, 13/16" LAMI IG; 1/8" T, AIR SPACE, 7/16" LAMI, (3/16"HS, .090 PVB, 3/16"HS)	
92		M. GLASS, 13/16" LAMI IG; 1/8" A, AIR SPACE, 5/16" LAMI, (1/8"A, .090 PVB, 1/8"A)	



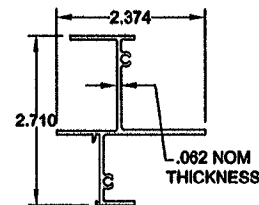
47 FRAME, I.F. HEAD
#4071A, 6063-T6



48 FRAME, I.F. LOW SILL
#4072A, 6063-T6

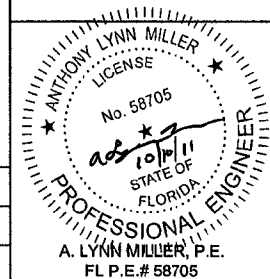


49 FRAME, I.F. HIGH SILL
#4073A, 6063-T6



50 FRAME, I.F. JAMB
#4074B, 6063-T6
(USED AS RADIUS TOP HEAD)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1013-14
Expiry Date 03/26/2012
By *[Signature]*
Miami Dade Product Control

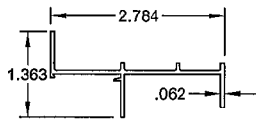


Revised By: J.J.	Date: 10/07/11	Revisions: D	NO CHANGES THIS SHEET
Revised By: J.R.	Date: 04/01/11	Revisions: C	CHANGED CAP GLASS TYPE TO TEMPERED FROM HS
Revised By: F.K.	Date: 11/13/06	Revisions: B	ADD I.F. FRAME ITEMS 47, 48, 49 AND 50. UPGRADE ITEM 21. ADD ITEM 92. CHG. DESCRIPTION ITEMS 7.9 & 13
Drawn By: F.K.	Date: 8/1/05	Checked By: J.J.	Date: 2/23/07

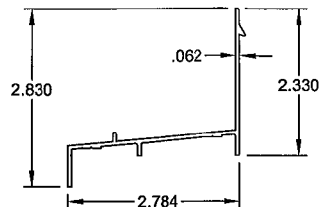
1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

PGT
Visibly Better

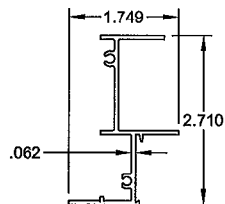
Describe: PARTS LIST	Title: ALUM. SINGLE HUNG WINDOW, IMPACT
Series/Model: SH700	Scale: NTS
Sheet: 6	of 11
Drawing No: 4040-20	Rev: D



1 **FLANGE FRAME HEAD**
#4002A, 6063-T6



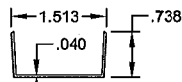
3 **FLANGE FRAME SILL (LOW)**
#4003C, 6063-T6



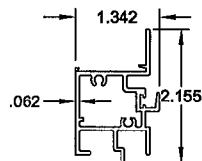
6 **FLANGE FRAME JAMB**
#4004, 6063-T5
(USED AS RADIUS TOP HEAD)



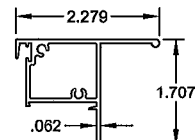
7 **SASH STOP**
#4025, 6063-T5



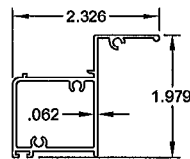
17 **SASH STOP COVER**
#4053, 6063-T5



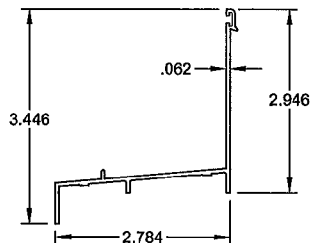
21 **FIXED MEETING RAIL**
#4054A, 6063HD-T6



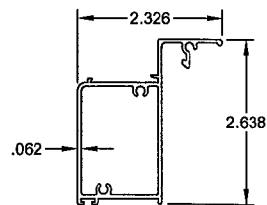
23 **SASH TOP RAIL**
#4006C, 6063HS-T6



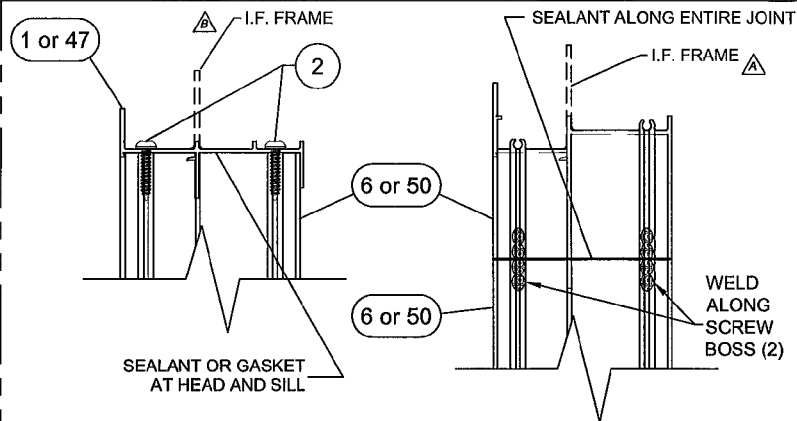
28 **SASH BOTTOM RAIL (LOW)**
#4007, 6063-T5



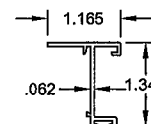
69 **FLANGE FRAME SILL (HIGH)**
#4050A, 6063-T6



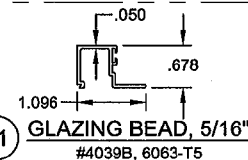
68 **SASH BOTTOM RAIL (HIGH)**
#4051A, 6063-T5



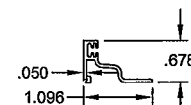
VIEW D-D
(1/1 & VIEW HEAD & SILL, RADIUS TOP SILL)
VIEW E-E
(RADIUS TOP HEAD ONLY)
FRAME CORNER CONSTRUCTION



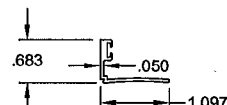
31 **SASH SIDE RAIL**
#4008, 6063-T5



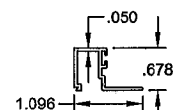
41 **GLAZING BEAD, 5/16"**
#4039B, 6063-T5



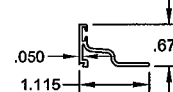
42 **GLAZING BEAD, 5/16"**
#4044B, 6063-T5
(USED W/ GRILL KIT)



46 **GLAZING BEAD, 13/16" IG**
#4067, 6063-T5

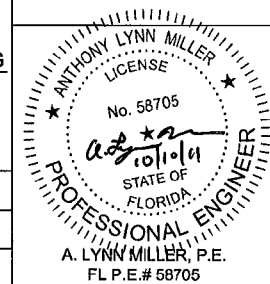


44 **GLAZING BEAD, 7/16"**
#4222, 6063-T5



45 **GLAZING BEAD, 7/16"**
#985C, 6063-T5
(USED W/ GRILL KIT)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1013 14
Expiration Date 03/26/2016
By *[Signature]*
Miami Trade Product Control



Revised By: J.J.	Date: 10/07/11	Revision: D	NO CHANGES THIS SHEET
Revised By: J.R.	Date: 04/01/11	Revision: C	NO CHANGES THIS SHEET
Revised By: F.K.	Date: 11/13/06	Revision: B	UPDATE FRAME CORNER ASSEMBLY TO INCLUDE I.F. AND UPGRADE ITEM 21 ALLOY.
Drawn By: F.K.	Date: 9/1/05	Checked By: J.J.	Date: 2/23/07

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274



Description: **EXTRUSIONS & FRAME CORNER DETAIL**

Title: **ALUM. SINGLE HUNG WINDOW, IMPACT**

Series/Model: SH700	Scale: Half	Sheet: 7 of 11	Drawing No. 4040-20	Rev: D
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ANCHOR QUANTITIES FOR 1/1 FLANGED WINDOWS

TABLE 5.

SUBSTRATE: ANCHOR TYPE: WINDOW WIDTH		WINDOW HEIGHT																													
		28.603			34.603			40.603			46.603			52.603			58.603			64.603			76.000								
		2 ³	WOOD	2	CONC	1	CONC	2 ³	WOOD	2	CONC	1	CONC	2 ³	WOOD	2	CONC	1	CONC	2 ³	WOOD	2	CONC	1	CONC	2 ³	WOOD	2	CONC	1	CONC
19.125	C,D,E,F,G, H,I,J,K,L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		1	2	1	1	1	1	2	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
	A,B,M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.000	C,D,E,F,G, H,I,J,K,L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		1	2	1	1	1	2	1	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
	A,B,M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32.000	C,D,E,F,G, H,I,J,K,L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	1	1	2	1	1	2	1	1	1
		1	2	1	2	2	2	3	1	2	2	2	3	1	2	2	3	2	3	3	3	4	3	2	3	3	4	3	3	4	4
	A,B,M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37.000	C,D,E,F,G, H,I,J,K,L	1	1	1	1	1	1	2	1	1	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2
		2	2	1	2	2	2	3	1	2	2	3	2	2	3	2	3	2	3	3	4	2	3	3	3	4	3	5	3	3	4
	A,B,M	1	1	1	1	1	1	2	1	1	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2
40.000	PSF	79																													
	C,D,E,F,G, H,I,J,K,L	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	A,B,M	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
44.000	PSF	79																													
	C,D,E,F,G, H,I,J,K,L	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	A,B,M	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
48.000	PSF	79			79																										
	C,D,E,F,G, H,I,J,K,L	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	2	2	2
	A,B,M	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	2	2	2
53.125	PSF	72			79	79																									
	C,D,E,F,G, H,I,J,K,L	2	2	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
	A,B,M	2	2	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	

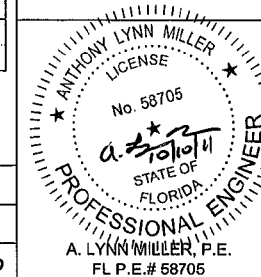
ANCHORAGE NOTES:

- ANCHOR TYPES: 1 - 1/4" ELCO TAPCONS
2 - 1/4" ELCO SS4 CRETE-FLEX
3 - #12 SCREWS
- ANCHOR LOCATIONS ARE BASED ON THE FOLLOWING DIMENSIONS.
HEAD - 18 1/2" MAX. FROM TOP CORNERS
JAMBS - 17 1/2" MAX. FROM TOP CORNERS
15" MAX. FROM BOTTOM CORNERS
6" MAX. BELOW MTG. RAIL
SILL - ANCHORS NOT REQUIRED
- INSTALL PER THE ADJACENT TABLE ANCHOR QUANTITIES USING THE DIMENSIONAL CRITERIA OF NOTE 2.
- TABLE WIDTH AND HEIGHT DIMENSION ARE FOR FLANGED WINDOWS. INTEGRAL FIN DIMENSIONS ARE 1" LESS.
- DESIGN PRESSURE LIMITATIONS:
SIZE BLOCKS OF THE ADJACENT TABLE WITH A BOLD ITALICIZED VALUE ABOVE THEM, INDICATE A MAXIMUM DESIGN PRESSURE WITH THE QUANTITY OF ANCHORS SHOWN IN BOLD. OTHERWISE, THE MAXIMUM DESIGN PRESSURE FOR THE RESPECTIVE SIZE AND GLASS TYPE IS AVAILABLE.

TABLE KEY:

	MAX. PSF
(DP LIMITED)	118
HEAD	2
JAMB ABOVE	2 3
MTG. RAIL	
JAMB BELOW	
MTG. RAIL	
(FULL DP)	
HEAD	2
JAMB ABOVE	2 3
MTG. RAIL	
JAMB BELOW	
MTG. RAIL	

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **11-1013.14**
Expiry Date: **03/26/2016**
by *[Signature]*
Miami Dade Product Control



Revised By: J.J.	Date: 10/07/11	Revisions: D	NO CHANGES THIS SHEET
Revised By: J.R.	Date: 04/01/11	Revisions: C	NO CHANGES THIS SHEET
Revised By: F.K.	Date: 11/13/08	Revisions: B	REVISE ANCHORAGE TABLE AND NOTES. ADD DP MAX. WHERE ANCHOR QTY IS RESTRICTED BY SIZE.
Drawn By: F.K.	Date: 7/29/05	Checked By: J.J.	Date: 2/23/07

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274



Description:	ANCHORAGE SPACING, 1/1 WINDOWS		
Title:	ALUM. SINGLE HUNG WINDOW, IMPACT		
Sheet No:	SH1700	Scale:	NTS
Sheet:	8	of	11
Drawing No.	4040-20	Rev:	D

ANCHOR QUANTITIES FOR STANDARD VIEW AND RADIUS TOP FLANGED WINDOWS

TABLE 6.

SUBSTRATE: ANCHOR TYPE:		WINDOW HEIGHT																							
		29.655			37.155			44.655			52.155			59.655			67.155			74.655			76.000		
WINDOW WIDTH	GLASS TYPE	23	2	1	23	2	1	23	2	1	23	2	1	23	2	1	23	2	1	23	2	1	23	2	1
		WOOD	CONC	CONC	WOOD	CONC	CONC	WOOD	CONC	CONC	WOOD	CONC	CONC	WOOD	CONC	CONC	WOOD	CONC	CONC	WOOD	CONC	CONC	WOOD	CONC	CONC
19.125	C,D,E,F,G, H,I,J,K,L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	A,B,M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	PSF	79																							
24.000	C,D,E,F,G, H,I,J,K,L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	A,B,M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	PSF	68		77																					
32.000	C,D,E,F,G, H,I,J,K,L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	A,B,M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	PSF	59		67	79																				
37.000	C,D,E,F,G, H,I,J,K,L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	A,B,M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	PSF	54	79	62	79																				
40.000	C,D,E,F,G, H,I,J,K,L	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	A,B,M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	PSF	49	79	56	79		79																		
44.000	C,D,E,F,G, H,I,J,K,L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	A,B,M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	PSF	45	74	51	74		79	79																	
48.000	C,D,E,F,G, H,I,J,K,L	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	A,B,M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	PSF	41	67	46	67		76	79																	
53.125	C,D,E,F,G, H,I,J,K,L	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	A,B,M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	PSF	41	67	46	67		76	79																	

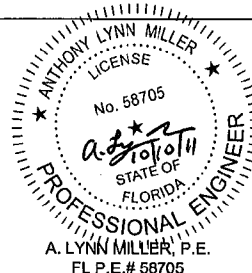
ANCHORAGE NOTES:

- ANCHOR TYPES: 1 - 1/4" ELCO TAPCONS
2 - 1/4" ELCO SS4 CRETE-FLEX
3 - #12 SCREWS
- ANCHOR LOCATIONS ARE BASED ON THE FOLLOWING DIMENSIONS:
HEAD - 18 1/2" MAX. FROM TOP CORNERS
JAMBS - 17 1/2" MAX. FROM TOP CORNERS
15" MAX. FROM BOTTOM CORNERS
6" MAX. BELOW MTG. RAIL
SILL - ANCHORS NOT REQUIRED
- INSTALL PER THE ADJACENT TABLE ANCHOR QUANTITIES USING THE DIMENSIONAL CRITERIA OF NOTE 2.
- TABLE WIDTH AND HEIGHT DIMENSION ARE FOR FLANGED WINDOWS. INTEGRAL FIN DIMENSIONS ARE 1" LESS.
- DESIGN PRESSURE LIMITATIONS:
SILE BLOCKS OF THE ADJACENT TABLE WITH A BOLD ITALICIZED VALUE ABOVE THEM, INDICATE A MAXIMUM DESIGN PRESSURE WITH THE QUANTITY OF ANCHORS SHOWN IN BOLD. OTHERWISE, THE MAXIMUM DESIGN PRESSURE FOR THE RESPECTIVE SIZE AND GLASS TYPE IS AVAILABLE.

TABLE KEY:

MAX. PSF	
(DP LIMITED)	117
HEAD	3
JAMB ABOVE	3
MTG. RAIL	
JAMB BELOW	
MTG. RAIL	
(FULL DP)	
HEAD	2
JAMB ABOVE	2
MTG. RAIL	
JAMB BELOW	
MTG. RAIL	

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1013.14
Expiration Date 03/26/2016
By *[Signature]*
Miami Dade Product Control



Revised By: J.J. Date: 10/07/11
Revised By: J.R. Date: 04/01/11
Revised By: F.K. Date: 11/13/06
Drawn By: F.K. Date: 7/29/05

Revisions: D NO CHANGES THIS SHEET
Revisions: C ADD ANCHORS WHERE ANCHOR QTY IS RESTRICTED BY SIZE.
Revisions: B REVISE ANCHORAGE TABLE AND NOTES. ADD DP MAX. WHERE ANCHOR QTY IS RESTRICTED BY SIZE.

Checked By: J.J. Date: 2/23/07

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34276
P.O. BOX 1529
NOKOMIS, FL 34274



Description: ANCHORAGE SPACING, STANDARD VIEW
Title: ALUM. SINGLE HUNG WINDOW, IMPACT
Series/Model: SH700
Dash: NTS
Sheet: 9 of 11
Drawing No. 4040-20
Rev. D

ANCHOR QUANTITIES ABOVE MEETING RAIL (HEAD & JAMBS), CUSTOM FLANGED WINDOW HEIGHT MINUS SASH HEIGHT TABLE 7.																													
		WINDOW HEIGHT MINUS SASH HEIGHT FROM TABLE 8.																											
SUBSTRATE:		17.125			22.668			28.211			33.754			39.296			44.839			50.382			55.925						
ANCHOR TYPE:		WOOD			WOOD			WOOD			WOOD			WOOD			WOOD			WOOD			WOOD						
WINDOW WIDTH	GLASS TYPE	2 ³	2	1	2 ³	2	1	2 ³	2	1	2 ³	2	1	2 ³	2	1	2 ³	2	1	2 ³	2	1	2 ³	2	1				
19.125	D,E,F,J,K,L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
24.000	D,E,F,J,K,L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
		1	1	1	2	2	2	2	2	2	2	2	3	3	2	3	3	2	3	3	3	3	3	3	4				
32.000	D,E,F,J,K,L	1	1	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
		1	1	1	2	2	2	3	2	3	3	3	3	3	2	3	4	3	4	4	3	4	5	3	5				
37.000	PSF				79																								
	D,E,F,J,K,L	1	1	1	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2				
40.000	PSF	79			79	79			79																				
	D,E,F,J,K,L	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
		1	1	1	2	2	2	3	3	3	3	4	3	4	4	3	4	4	3	5	4	4	5	5	4	6			
44.000	PSF	79	76			79	77			79	79																		
	D,E,F,J,K,L	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
48.000	PSF	78	79	70	79	79	71	79	73			76																	
	D,E,F,J,K,L	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	3	2	2	3	2	2	2	2				
		1	1	1	2	2	2	3	3	3	4	4	4	5	4	5	5	4	6	5	4	6	6	5	6				
53.125	PSF	71	79	63	71	79	64	74	66			77	69						69										
	D,E,F,J,K,L	2	2	2	2	2	2	3	2	2	3	2	3	3	2	3	3	2	3	3	2	3	3	2	3				
		1	1	1	2	2	2	3	3	3	3	4	4	4	5	4	5	6	5	6	6	5	7	6	5	7			

ANCHOR QUANTITIES AT JAMBS BELOW MEETING RAIL, CUSTOM FLANGED WINDOWS BASED ON SASH HT.																																					
		TABLE 8.																																			
		SASH HEIGHT																																			
SUBSTRATE:		12.776				15.776				18.776				21.776				24.776				27.776				30.776				31.106							
ANCHOR TYPE:		2.3	WOOD	2	CONC	1	CONC	2.3	WOOD	2	CONC	1	CONC	2.3	WOOD	2	CONC	1	CONC	2.3	WOOD	2	CONC	1	CONC	2.3	WOOD	2	CONC	1	CONC						
WINDOW WIDTH		2.3	WOOD	2	CONC	1	CONC	2.3	WOOD	2	CONC	1	CONC	2.3	WOOD	2	CONC	1	CONC	2.3	WOOD	2	CONC	1	CONC	2.3	WOOD	2	CONC	1	CONC						
19.125		1		1		1		2		1		2		2		1		2		2		2		2		2		2		2		2					
24.000		2		1		1		2		1		2		2		2		2		2		2		2		2		2		2		2					
32.000		2		1		2		2		2		2		3		2		2		3		2		3		3		3		3		3					
37.000						79																															
		2		1		2		2		2		2		3		2		3		3		2		3		3		3		3		3					
40.000						74																															
		2		2		2		2		2		2		3		2		3		3		3		3		4		3		3		4					
44.000						68				78																											
		2		2		2		2		2		2		3		2		3		3		3		3		4		3		3		4					
48.000						63				72				79																							
		2		2		2		2		2		2		3		2		3		4		3		3		4		3		4		4					
53.125						58				66				72																							
		2		2		2		2		2		2		3		3		3		4		3		4		4		3		4		5					

Revised By: J.J.	Date: 10/07/11	Revisions: D	NO CHANGES THIS SHEET
Revised By: J.R.	Date: 04/01/11	Revisions: C	NO CHANGES THIS SHEET
Revised By: F.K.	Date: 11/13/08	Revisions: B	REVISE ANCHORAGE TABLE AND NOTES. ADD DP MAX. WHERE ANCHOR QTY IS RESTRICTED BY SIZE.
Drawn By: F.K.	Date: 7/29/05	Checked By: J.J.	Date: 2/23/07

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274



Description: ANCHORAGE SPACING, CUSTOM VIEW			
Title: ALUM. SINGLE HUNG WINDOW, IMPACT			
Series/Model: SH700	Scale: NTS	Sheet: 10 of 11	Drawing No. 4040-20
Rev: D			

ANCHORAGE NOTES:

- ANCHOR TYPES: 1 - 1/4" ELCO TAPCONS
2 - 1/4" ELCO SS4 CRETE-FLEX
3 - #12 SCREWS
- ANCHOR LOCATIONS ARE BASED ON THE FOLLOWING DIMENSIONS:
HEAD - 18 1/2" MAX. FROM CORNERS
JAMBS - 17 1/2" MAX. FROM TOP CORNERS
11 1/2" MAX. ABOVE THE MEETING RAIL
6" MAX. BELOW MTG. RAIL
15" MAX. FROM BOTTOM CORNERS
SILL - ANCHORS NOT REQUIRED
- DETERMINE THE ANCHOR QUANTITIES FOR CUSTOM VIEW WINDOWS FROM TABLES 7. AND 8. USING THE DIMENSIONAL CRITERIA OF NOTE 2. USE TABLE 7. FOR ABOVE THE MEETING RAIL AND TABLE 8. FOR BELOW.
- AVAILABLE SASH HEIGHTS FOR CUSTOM VIEW WINDOWS ARE 12 5/8" MIN. TO 38" MAX.
- TABLE WIDTH AND HEIGHT DIMENSION ARE FOR FLANGED WINDOWS. INTEGRAL FIN DIMENSIONS ARE 1" LESS.
- DESIGN PRESSURE LIMITATIONS:
SIZE BLOCKS OF THE ADJACENT TABLE WITH A BOLD ITALICIZED VALUE ABOVE THEM, INDICATE A MAXIMUM DESIGN PRESSURE WITH THE QUANTITY OF ANCHORS SHOWN IN BOLD. OTHERWISE, THE MAXIMUM DESIGN PRESSURE FOR THE RESPECTIVE SIZE AND GLASS TYPE IS AVAILABLE.

TABLE 7. KEY:

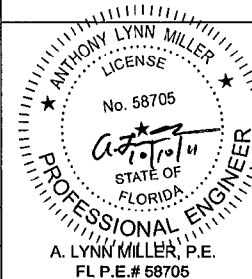
	MAX. PSF
(DP LIMITED)	112
HEAD	2
JAMB ABOVE	2
MTG. RAIL	

(FULL DP)	
HEAD	2
JAMB ABOVE	4
MTG. RAIL	

TABLE 8. KEY:

	MAX. PSF
(DP LIMITED)	112
JAMB BELOW	2
MTG. RAIL	
(FULL DP)	
JAMB BELOW	2
MTG. RAIL	

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1013.1A
Expiration Date 03/26/2016
By: [Signature]
Miami Trade Product Control



△

3.35 KSI MIN. CONCRETE

OPTIONAL 1x
WOOD BUCK
(SEE NOTE 4)

CONCRETE ANCHOR
(SEE NOTE 1 & 3)

1 3/8" MIN., 1/4" TAPCON
1-3/4" MIN., 1/4" CRETE-FLEX

2x WOOD BUCK
(SEE NOTE 4)

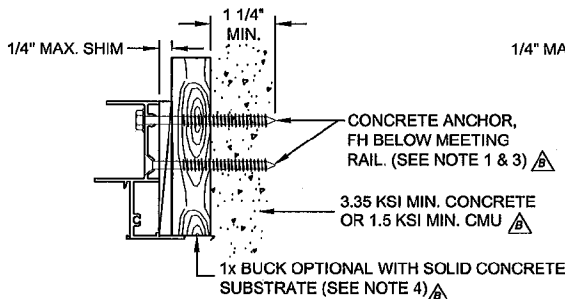
WOOD ANCHOR
(SEE NOTE 2 & 3)

1 3/8" MIN.
1/4" MAX. SHIM

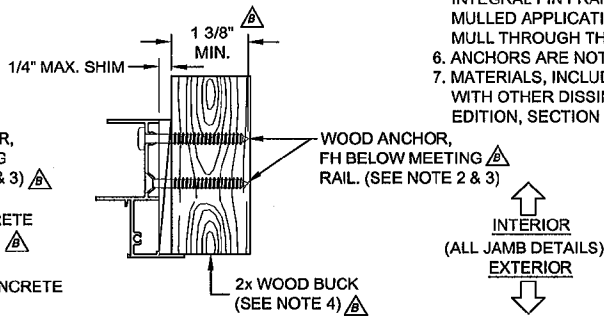
DETAIL A

DETAIL B

TYPICAL FLANGED HEAD ANCHORAGE

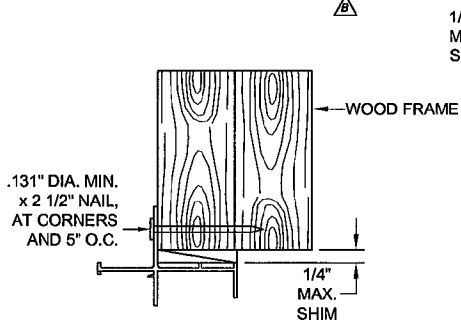


DETAIL C

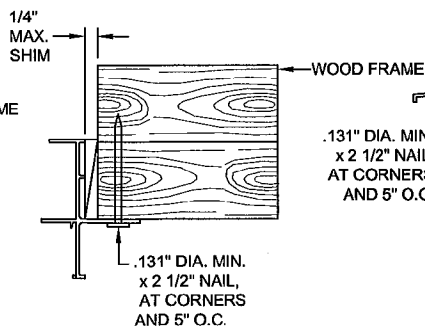


DETAIL D

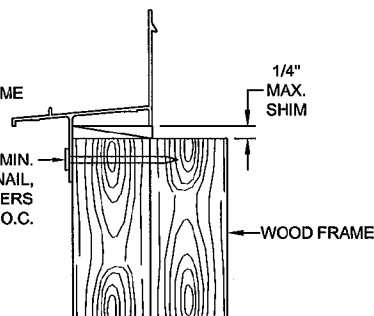
TYPICAL FLANGED JAMB ANCHORAGE



DETAIL F, (HEAD)



DETAIL E, (JAMB)



DETAIL G, (SILL)

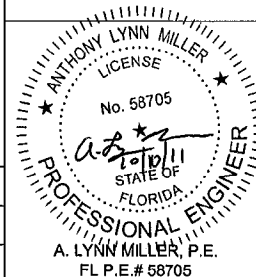
TYPICAL INTEGRAL FIN ANCHORAGE

△ NOTES:

1. FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED 1/4" ELCO TAPCONS OR 1/4" SS4 CRETE-FLEX. MINIMUM DISTANCE FROM ANCHOR TO CONCRETE EDGE IS 1 3/4".
2. FOR WOOD APPLICATIONS IN MIAMI-DADE COUNTY, USE #12 STEEL SCREWS (G5) OR 1/4" SS4 CRETE-FLEX.
3. FLAT HEAD ANCHORS, WHERE REQUIRED, MUST HAVE #12 TRIMFIT HEADS.
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 #12 SHEET METAL SCREW WITH FULL ENGAGEMENT INTO THE ALUMINUM. IF THESE CRITERIA ARE MET, THE RESPECTIVE DESIGN PRESSURES AND ANCHORAGE SPACING FOR TAPCONS MAY BE USED. A FLANGED FRAME COMPONENT MAY BE SUBSTITUTED FOR AN INTEGRAL FIN FRAME COMPONENT FOR MULLED APPLICATIONS. FOR INTEGRAL FIN MULLED APPLICATIONS IT IS EXCEPTABLE TO REMOVE THE FIN AND ATTACH TO THE MULL THROUGH THE FRAME USING THE FLANGED FRAME ANCHORAGE REQUIREMENT.
6. ANCHORS ARE NOT REQUIRED AT THE SILL OF FLANGED UNITS.
7. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FBC CURRENT EDITION, SECTION 2003.8.4 (SUPPLEMENT 2005).

INTERIOR
(ALL JAMB DETAILS)
EXTERIOR

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 11-1013.14
Expiration Date 03/26/2016
By *[Signature]*
Miami Dade Product Control



Revised By: J.J.	Date: 10/07/11	Revisions: D	NO CHANGES THIS SHEET
Revised By: J.R.	Date: 04/01/11	Revisions: C	NO CHANGES THIS SHEET
Revised By: F.K.	Date: 11/13/06	Revisions: B	ADD INTEGRAL FIN ANCHORAGE, UPDATE & REORDER NOTES. ADD NOTES 7, UPDATE CONCRETE EMBEDMENT DIM.
Drawn By: F.K.	Date: 9/1/05	Checked By: J.J.	Date: 2/23/07

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

PGI
Visibly Better

Description:	ANCHORAGE DETAILS		
Title:	ALUM. SINGLE HUNG WINDOW, IMPACT		
Series/Model:	SH700	Scale:	NTS
Sheet:	11 of 11	Drawing No.	4040-20
Rev:	D		

R W
B C

R W Building Consultants, Inc.
Consulting and Engineering Services for the Building Industry
P.O. Box 230 Valrico, FL 33595 Phone 813.659.9197 Facsimile 813.754.9989
Florida Board of Professional Engineers Certificate of Authorization No. 9813

Product Evaluation Report

Report No.: FL 3030.1
Date: November 29, 2005
Product Category: Exterior Doors
Product sub-category: Swinging
Product Name: Distinction Series 3'0 x 8'0 Fiberglass Door Inswing / Outswing
Manufacturer: Nan Ya Plastics Corporation
Plastpro Inc.
9 Peach Tree Hill Road
Livingston, NJ 07039
Phone: 800.779.0561 Facsimile: 973.758.4001

Scope: This is a Product Evaluation report issued by R W Building Consultants, Inc. and Wendell W. Haney, P.E. (System ID # 1993) for Nan Ya Plastics Corporation, Plastpro Inc. based on Rule Chapter No. 9B-72.070, Method 1d of the State of Florida Product Approval, Department of Community Affairs-Florida Building Commission.

RW Building Consultants and Wendell W. Haney, P.E. do not have nor will acquire financial interest in the company manufacturing or distributing the product or in any other entity involved in the approval process of the product named herein.

This product has been evaluated for use in locations adhering to the Florida Building Code (2004 Edition) and where pressure requirements, as determined by Chapter 16 of The Florida Building Code, do not exceed the following design pressures:

Design Pressure Rating:

Maximum Design Pressure Rating Positive 65.0 PSF Negative 70.0 PSF
(See Limitations for size restrictions)

See Drawing No.: FL 307 prepared by R W Building Consultants, Inc. and signed and sealed by Wendell W. Haney, P.E. (FL # 54158) for specific use parameters.

*Stainless Steel Hinges
on Fiberglass doors*

Wendell W. Haney, P.E.
Wendell W. Haney, P.E.
FL No. 54158
November 29, 2005

8'

Limitations

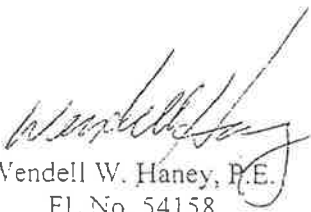
1. The Distinction Series 3'0 x 8'0 Fiberglass Door Inswing / Outswing has been evaluated and meets the requirements for use within the State of Florida excluding the "High Velocity Hurricane Zone".
2. When used in wind borne debris regions, this product complies with Section 1609.1.4 as an impact resistant product and does not require protection from an impact resistant covering.

3. Size Limitations:

<u>Configurations</u>		<u>MAX. Frame Width</u>	<u>MAX. Frame Height</u>
Single	X	37.5"	98.0"

4. The Design Pressure Rating for the various size units are as follows:

<u>Configurations</u>	<u>Positive PSF</u>	<u>Negative PSF</u>
Inswing Unit	+ 65.0 PSF	- 70.0 PSF
Outswing Unit	+ 65.0 PSF	- 65.0 PSF


Wendell W. Haney, P.E.
FL No. 54158
November 29, 2005

Supporting Documents

A Drawing

1. Drawing No. FL-307 titled Distinction Series 3'0 x 8'0 Fiberglass Door Inswing / Outswing prepared by R W Building Consultants, Inc. (Florida Board of Professional Engineers Certificate of Authorization No. 9813), signed and sealed by Wendell W. Haney, P.E.

B Test

1. Testing per *ASTM E330-97, ASTM E1886-02, ASTM E1996-02, ASTM E283-91, & E547-00 as performed by Testing Evaluation Laboratories, Inc. and reported in test report number TEL 2004-09-24-029, witnessed by Wendell W. Haney, P.E.

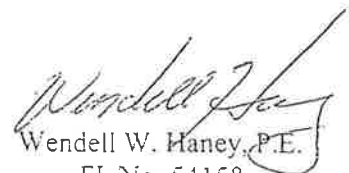
*ASTM E 330-02 is referenced in the Florida Building Code; test report TEL 2004-09-24-029 list the loads applied to the test specimens as ½ test load positive and negative, design load positive and negative, test load positive and negative, which for the intent of the Florida Building Code meets ASTM E 330-02.

C Calculations

1. Product anchoring is in accordance with manufacturer's published recommendations as substantiated by tested specimens reported in test report TEL 2004-09-24-029.
2. Buck anchor analysis for loading conditions, prepared, signed and sealed by Wendell W. Haney, P.E.

D Other

Certificate of Participation issued by National Accreditation & Management Institute, Inc., certifying that Nan Ya Plastics Corporation, Plastpro Inc. is manufacturing products within a quality assurance program.


Wendell W. Haney, P.E.
FL No. 54158
November 29, 2005

**Ingersoll-Rand
6810 Hillsdale Court
Indianapolis, IN 46250**

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: IR/Falcon 25 Series 25-R, 25-V, 25-C & 25-M" Panic Exit Hardware-Component Approval

APPROVAL DOCUMENT: Drawing No. "3580-2" Rev C, titled "Falcon 25 series", sheets 1 through 8 of 8, dated 05/17/12, prepared by manufacturer, signed and sealed by Gordon Thomas, P. E. , bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact**Limitations:**

1. The Component Hardware to be used as a substitution in a 16 ga single or double doors assembly.
2. Door assembly under separate approval and must meet specifications per sheet 1. Lower Design Pressure of this component approval or the door assembly shall control.
3. Double Door application of Falcon series 25-R (Rim exit) requires use of Von-Duprin 9954 mullion.
4. Falcon series 25-M (Mortise Panic) is limited to Single door system only.
5. Electrical / Electronic functions are not part of the approval, such installation to be reviewed by AHJ.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Indianapolis, Indiana, and series and following statement: "Miami-Dade County Product Control Approved", 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 consists of this page 1 and evidence pages E-1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

8
6/19/12

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's parts and sections drawings
2. **DOCUMENT:** Drawing No. "3580-2" Rev C, titled "Falcon 25 series", sheets 1 through 8 of 8, dated 05/17/12, prepared by manufacturer, signed and sealed by Gordon Thomas, P.E.

B. TESTS

1. Test report on 1) Air Infiltration Test, per TAS 202-94
2) Water Resistance Test per FBC TAS 202-94
3) Uniform Static Air Pressure Test, Loading per 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, TAS 202-94

Along with marked-up drawings and installation diagram of Falcon 25 series Panic exit Devices, 25-C (Concealed Vertical Rods), 25-V (Surface mount Vertical Rod) and 25-M (Mortise), prepared by National Certified Testing Laboratory, Test Report No. **NCTLA-210-3654-1**, dated 12/01/09, signed and sealed by Gerald J. Ferrara, P.E.

2. Test report on 1) Air Infiltration Test, per TAS 202-94(Not conducted)
2) Water Resistance Test per FBC TAS 202-94(Not conducted)
3) Uniform Static Air Pressure Test, Loading per 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, TAS 202-94

Along with marked-up drawings and installation diagram of series Falcon 25-R (Rim Panic exit device), prepared by National Certified Testing Laboratory, Test Report No. **NCTLA-210-3580-2**, dated 03/25/09, signed and sealed by Gerald J. Ferrara, P.E.

C. CALCULATIONS:

1. Anchor verification and mullion structural analysis dated 10/15/11 and revised on 05/06/12, prepared, signed and sealed by Gordon Thomas, P.E.

D. QUALITY ASSURANCE BY

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

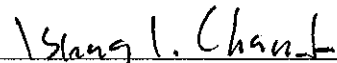
1. None

F. STATEMENTS

1. Letter of conformance to FBC 2007, FBC 2010 and "No financial interest" dated 10/16/11, prepared, signed and sealed by Gordon Thomas, P.E.
2. Lab statement of compliance, part of the above referenced test report.

G. OTHER

1. Test proposal # **09-0754** dated 03/11/10 approved by BCCO.
2. Falcon 25 series Panic Exit Devices brochures.

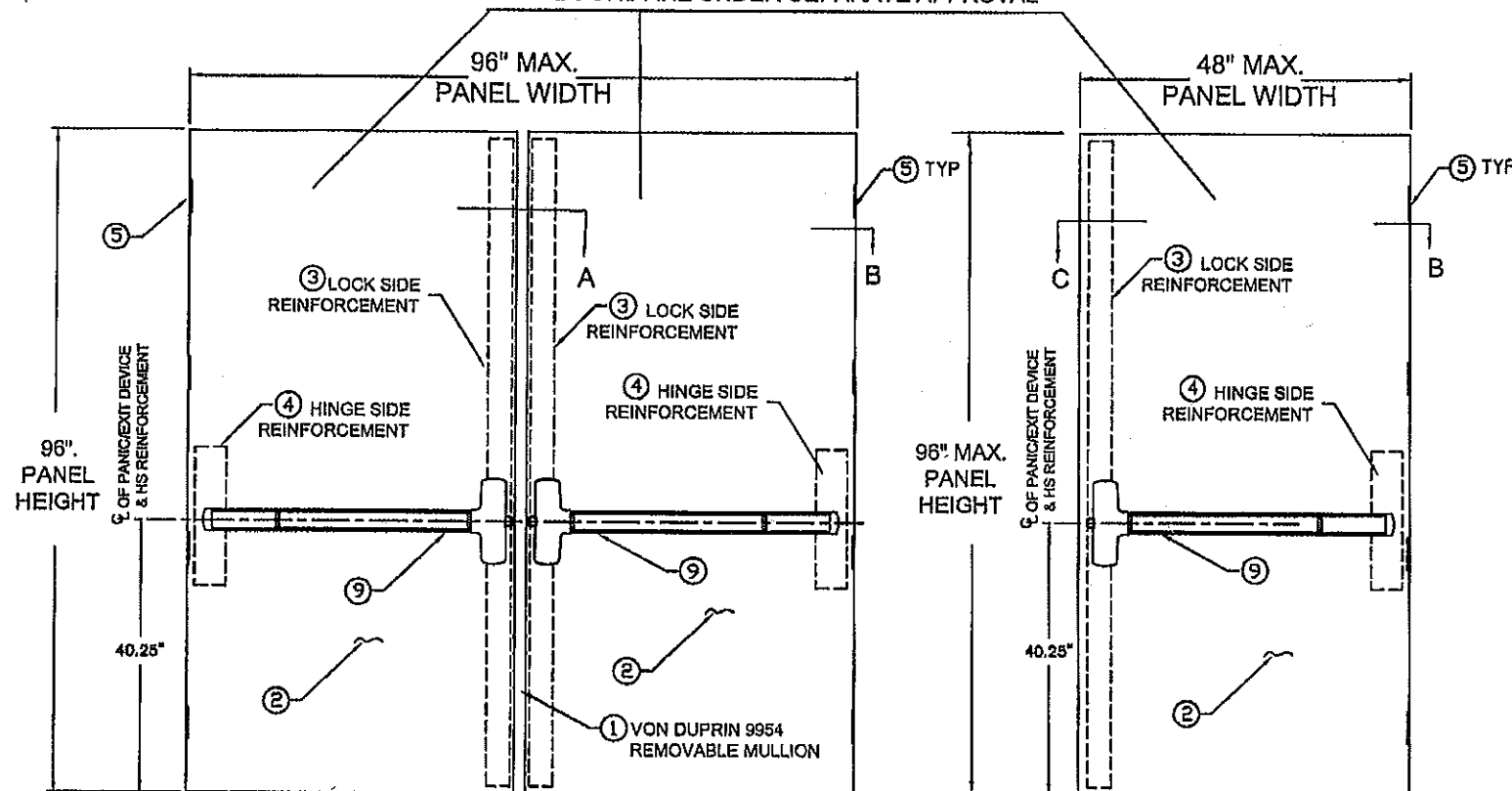


Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 09-0723.01

Expiration Date: June 21, 2017

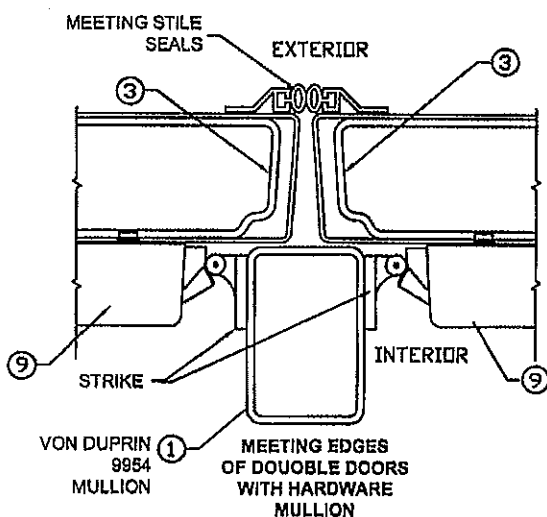
Approval Date: June 21, 2012

DOORS ARE UNDER SEPARATE APPROVAL

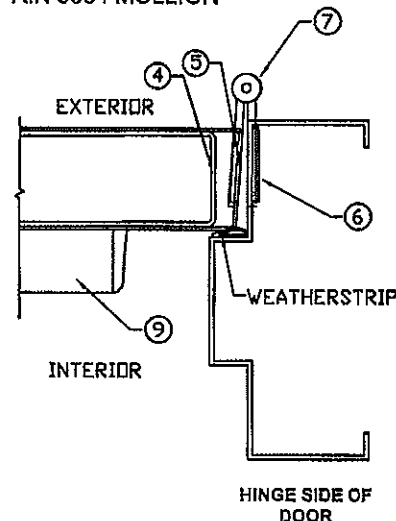


(INTERIOR VIEW)
DOUBLE OUTSWING DOORS WITH (2) FALCON(F)25-R RIM
PANIC/EXIT DEVICES WITH VON DUPRIN 9954 MULLION

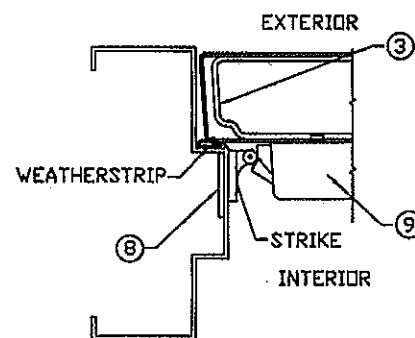
(INTERIOR VIEW)
SINGLE OUTSWING DOOR WITH FALCON
(F)25-R RIM PANIC/EXIT DEVICE



DETAIL A



DETAIL B



STRIKE SIDE OF
SINGLE DOOR

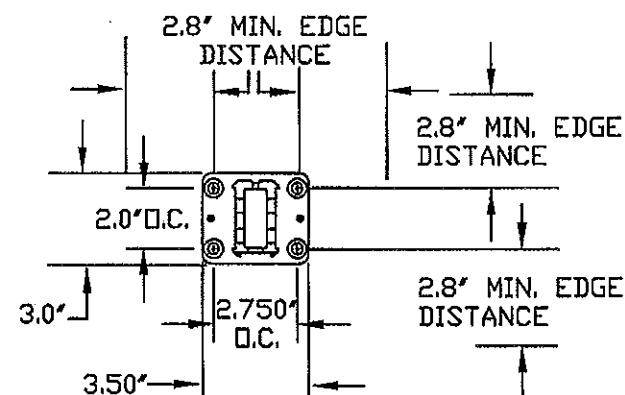
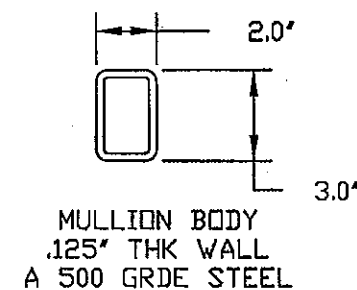
DETAIL C

DESIGN PRESSURE RATING
FALCON (F)25-R RIM PANIC/EXIT
DEVICE COMPONENT APPROVAL

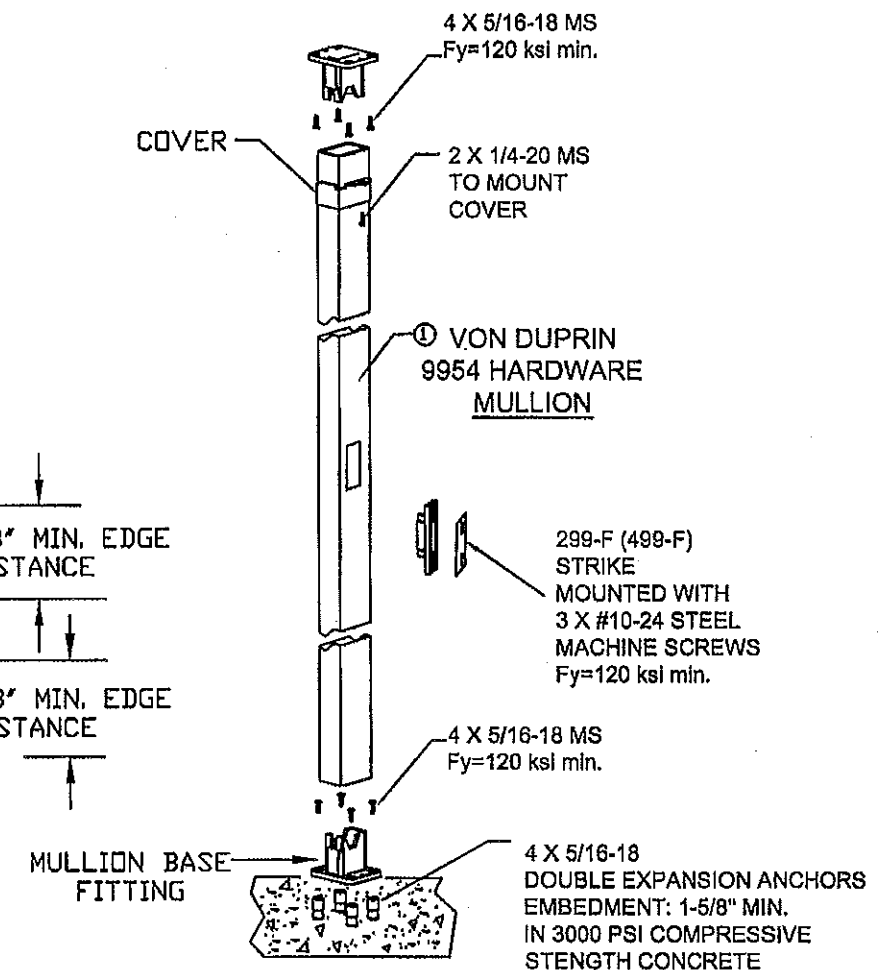
POSITIVE	+70 PSF
NEGATIVE	-55 PSF

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	NEW	05/22/09	
B	REVISED	03/23/11	
C	REVISED	02/28/12	



MULLION FITTING
BASE & HEAD
8620 STEEL
EDGE DISTANCE AND
O.C. SPACING SHOWN FOR
BASE FITTING INSTALLATION



NOTES:

1. ALL FINISHES, 3' AND 4' DOOR WIDTH MODELS OFFERED.
2. AVAILABLE FUNCTIONAL OPTIONS: F, EL, FSA/FSE, EA, HWEA, DM, LM, AND AE.
3. ELECTRICAL INSTALLATION IS UNDER SEPARATE APPROVAL AND MUST BE REVIEWED BY CORRESPONDING AUTHORITY.
4. THIS DEVICE IS APPROVED AS AN EQUAL ALTERNATE FOR SINGLE OR DOUBLE 16 GA. STEEL COMMERCIAL DOORS HOLDING CURRENT A NOA OR HVHZ COMPLIANT FBC APPROVAL. DOUBLE DOORS ARE REQUIRED TO USE A VON DUPRIN 9954 HARDWARE MULLION. THE DESIGN PRESSURE RATING OF THE ASSEMBLY SHALL BE EQUAL TO THAT OF THE LOWEST RATED COMPONENT, EITHER THE PANIC DEVICE OR THE DOOR.
5. THE DEVICE SHOULD BE INSTALLED IN COMMERCIAL STEEL DOOR NO WIDER THAN 48" AND NO HIGHER THAN 96".
6. OPTIONAL SIGNAL SWITCH AND POWER TRANSFER UNITS MAY BE USED AS ALLOWED BY CODE AND IF IT DOESN'T AFFECT THE MECHANICAL PROPERTIES OF THIS PANIC/EXIT DEVICE AND/OR INHIBIT EGRESS.
7. ALL ELECTRICAL COMPONENTS MUST BE UL APPROVED.
8. THIS PANIC/EXIT DEVICE CAN BE INSTALLED AS PART OF IMPACT RESISTANT UNIT.

TYPICAL INSTALLATION
SEE COMPONENT DETAIL - SHEET 2

5/17/12
Gordon Thomas, P.E.
3759 Blossom Court
Mason, OH 45040
Florida # 45718

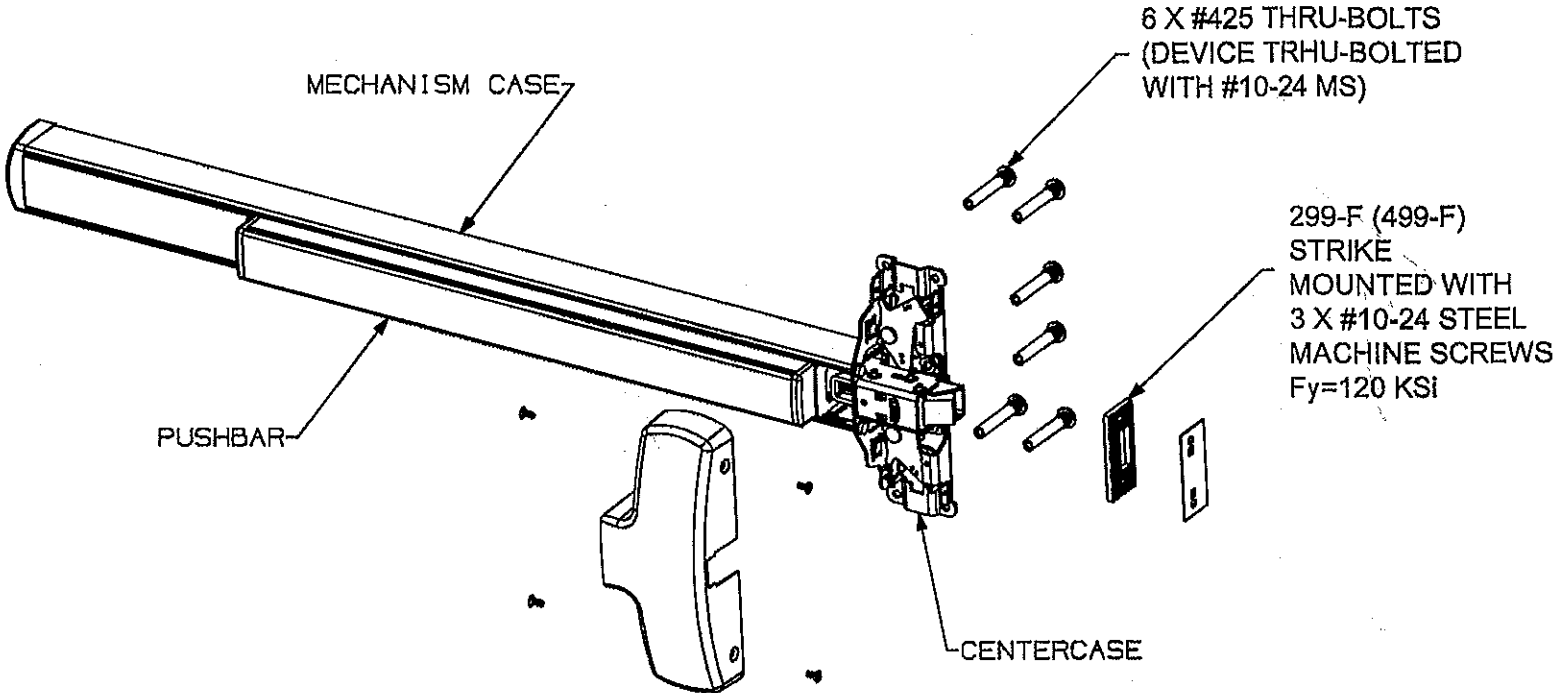
Approved as complying with the
Florida Building Code
Date JUNE 21, 2012
NOA 09-0723-01
Miami Dade Product Control
By Ishag I. Chande

ITEM	DESCRIPTION	MATERIAL	SIZE
1	VON DUPRIN 9954 HARDWARE MULLION	.125" A500 STL	MAX. 96"
2	DOOR SLAB	.053" MIN. STL	48" X 96" MAX.
3	LOCK SIDE REINFORCEMENT CHANNEL	.099" MIN. STL	3.5 X 93.44 MAX
4	HINGE SIDE PANIC REINFORCEMENT	.067" MIN. STL	MAX. 20"
5	HINGE REINFORCEMENT DOOR ASTM A621	.171" MIN. STL	1.23" X 9.187" MIN.
6	HINGE REINFORCEMENT FRAME ASTM A621	.171" MIN. STL	1.5" X 9.187" MIN.
7	4.5" X 4.5" BUTT HINGES	.134 MIN.	(8) #12-24 MS PER HINGE
8	RIM STRIKE REINFORCEMENT	.067" MIN. STL	1.5" X 8.5" MIN.
9	FALCON (F)25-R RIM PANIC/EXIT DEVICE		

BEND RADIUS				Ingersoll Rand Security Technologies		FALCON 2720 TOBEY DRIVE INDIANAPOLIS, IN 46219	
THIRD ANGLE PROJECTION		TITLE FALCON 25 SERIES PANIC/EXIT DEVICES - COMPONENT APPROVAL (CM)					
DRAWN YMF		DATE 05/22/09		MIAMI-DADE COUNTY COMPONENT PRODUCT APPROVAL FALCON 25-R SERIES RIM PANIC/EXIT DEVICE			
CHECKED				SIZE FLAT		DWG NO. 3580-2 SHEET 1 OF 8	
APPROVED						REV C	
ENG. APPVL				SCALE NTS		AUTOCAD	
				SHEET		OF	

DESIGN PRESSURE RATING FALCON (F)25-R RIM PANIC/EXIT DEVICE COMPONENT APPROVAL	
POSITIVE	+70 PSF
NEGATIVE	-55 PSF

R E V I S I O N S			
LTR	DESCRIPTION	DATE	APPROVED
A	NEW YMF	05/26/09	
B	REVISED	03/23/11	
C	REVISED	02/28/12	



FALCON (F)25-R PANIC/EXIT DEVICE
COMPONENT APPROVAL
DOUBLE DOOR APPLICATION REQUIRES
VON DUPRIN 9954 MULLION

DIMENSIONS

TOUCHBAR PROJECTION:	
NEUTRAL	2.784"
DEPRESSED	1.914"
CENTER CASE: 8.928" X 2.642" X 1.914"	
DEVICE LENGTH:	
FOR UP TO 3' WIDE DOORS	33.596"
FOR DOORS WIDER THAN 3' UP TO 4'	45.596"

FALCON OUTSIDE TRIM OPTIONS	
	510L
	510L BE
	510L NL
	510L DT
	510L FSA
	510L FSE
	510L FSA LK
	510L FSE LK
	510L LK
	511L
	511L FSA
	511L FSE
	511L FSA LK
	511L FSE LK
	511L LK
	512T
	512T BE
	512T NL
	512T DT
	512T FSA
	512T FSE
	512T FSA LK
	512T FSE LK
	512T LK
	513K
	513K BE
	513K NL
	513K DT
	513K FSA
	513K FSE
	513K FSA LK
	513K FSE LK
	513K LK

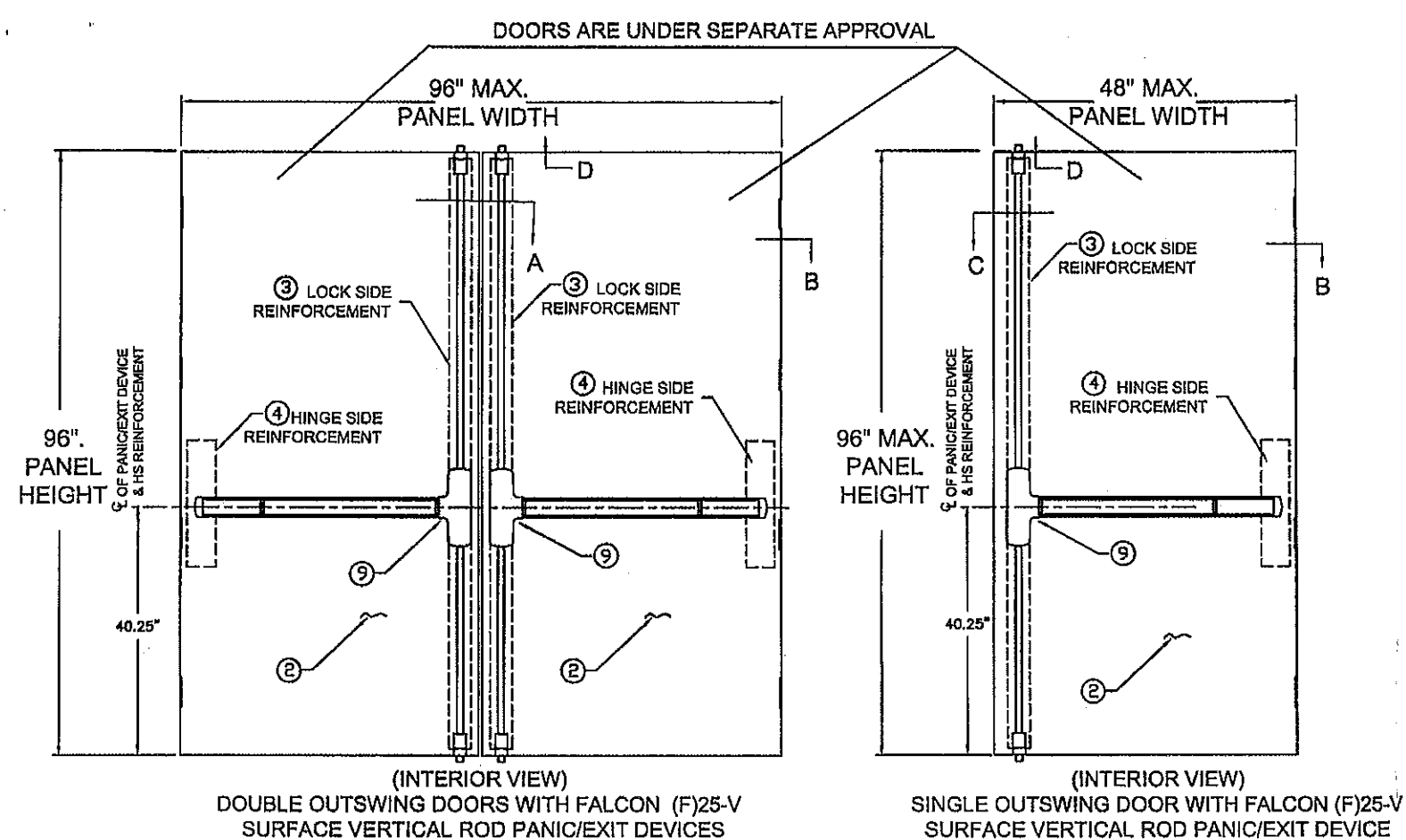
NOTES:

1. ALL FINISHES, 3' AND 4' DOOR WIDTH MODELS OFFERED.
2. AVAILABLE FUNCTIONAL OPTIONS: F, DX, EL, FSA/FSE, EA, HWEA, DM, LM, AND AE.
3. ELECTRICAL INSTALLATION IS UNDER SEPARATE APPROVAL AND MUST BE REVIEWED BY CORRESPONDING AUTHORITY.
4. THIS DEVICE IS APPROVED AS AN EQUAL ALTERNATE FOR SINGLE OR DOUBLE 16 GA. STEEL COMMERCIAL DOORS HOLDING A CURRENT NOA OR HVHZ COMPLIANT FBC APPROVAL. DOUBLE DOORS ARE REQUIRED TO USE A VON DUPRIN 9954 HARDWARE MULLION. THE DESIGN PRESSURE RATING OF THE ASSEMBLY SHALL BE EQUAL TO THAT OF THE LOWEST RATED COMPONENT, EITHER THE PANIC DEVICE OR THE DOOR.
5. THE DEVICE SHOULD BE INSTALLED IN COMMERCIAL STEEL DOOR NO WIDER THAN 48" AND NO HIGHER THAN 96".
6. OPTIONAL SIGNAL SWITCH AND POWER TRANSFER UNITS MAY BE USED AS ALLOWED BY CODE AND IF IT DOESN'T AFFECT THE MECHANICAL PROPERTIES OF THIS PANIC/EXIT DEVICE AND/OR INHIBIT EGRESS.
7. ALL ELECTRICAL COMPONENTS MUST BE UL APPROVED.
8. THIS PANIC/EXIT DEVICE CAN BE INSTALLED AS PART OF IMPACT RESISTANT UNIT.

Approved as complying with the
Florida Building Code
Date: 6/21/12
NOA# 09-0723.01
Miami Dade Product Control
By: Ishag I. Chando

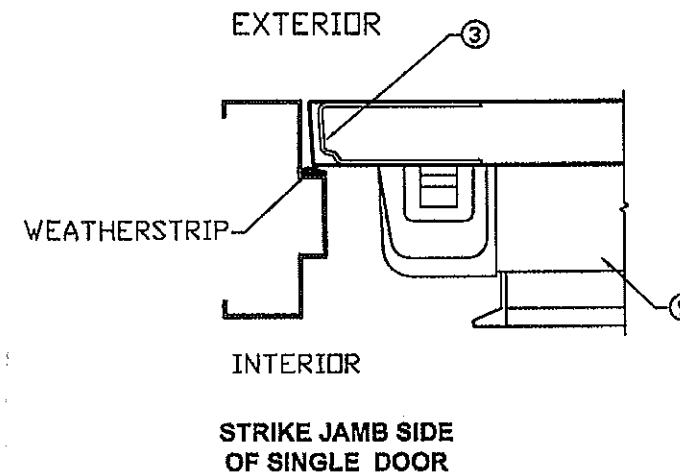
Gordon Thomas, P.E.
3759 Blossom Court
Mason, OH 45040
Florida # 46718
Date: 5/17/10

				Ingersoll Rand Security Technologies		FALCON 2720 TOBEY DRIVE INDIANAPOLIS, IN 46219			
THIRD ANGLE PROJECTION		TITLE FALCON 25 SERIES PANIC/EXIT DEVICES - COMPONENT APPROVAL (LMD)							
DRAWN YMF		DATE 05/22/09		MIAMI-DADE COUNTY COMPONENT PRODUCT APPROVAL FALCON 25-R SERIES RIM PANIC/EXIT DEVICE					
CHECKED				SIZE FLAT		DWG NO. 3580-2			
APPROVED				SHEET 2 OF 8		REV C			
ENG. APPVL				SCALE: NTS		AUTOCAD			

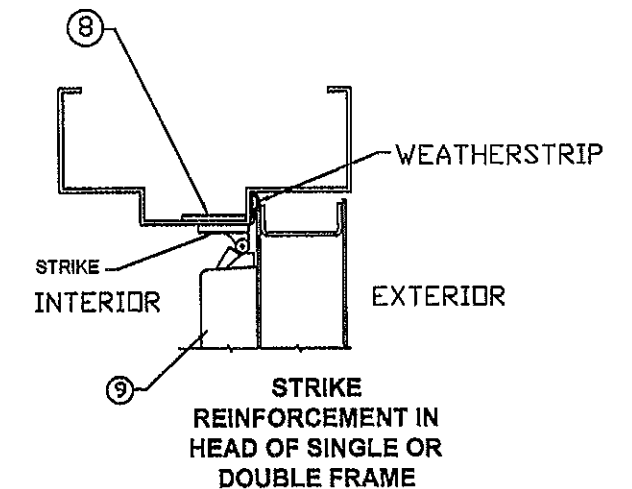


DESIGN PRESSURE RATING	
FALCON (F)25-V SURFACE VERTICAL ROD PANIC/EXIT DEVICE COMPONENT APPROVAL	
POSITIVE	+70 PSF
NEGATIVE	-70 PSF

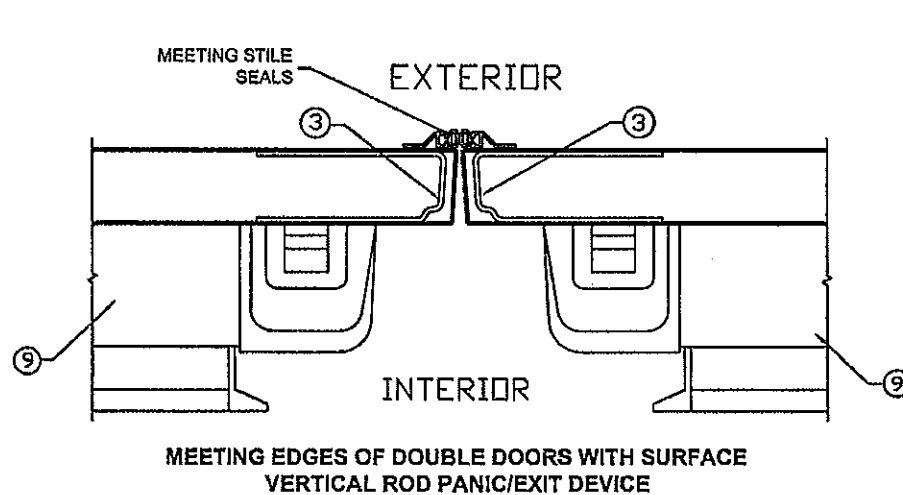
REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	NEW	05/22/09	
B	REVISED	03/23/11	
C	REVISED	02/28/12	



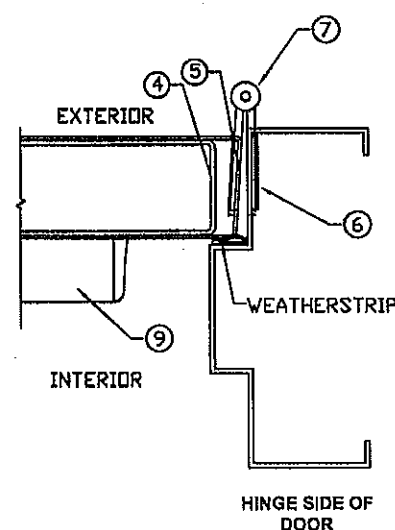
DETAIL C



DETAIL D



DETAIL A



DETAIL B

Approved as complying with the
Florida Building Code
Date 6/21/12
NOA# 09-0723-01
Miami Dade Product Control
by Ishag I. Chaudhry

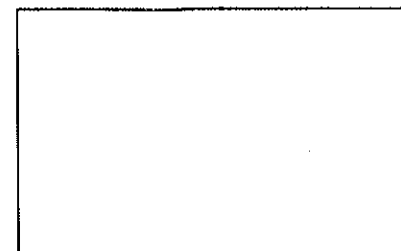
ITEM	DESCRIPTION	MATERIAL	SIZE
1	NOT IN USE		
2	DOOR SLAB	.053" MIN. STL	48" X 96" MAX.
3	LOCK SIDE REINFORCEMENT CHANNEL	.099" MIN. STL	3.5 X 93.44 MAX
4	HINGE SIDE PANIC REINFORCEMENT	.087" MIN. STL	MAX. 20"
5	HINGE REINFORCEMENT DOOR ASTM A621	.171" MIN. STL	1.23" X 9.187" MIN.
6	HINGE REINFORCEMENT FRAME ASTM A621	.171" MIN. STL	1.5" X 9.187" MIN.
7	4.5" X 4.5" BUTT HINGES	.134 MIN.	(8) #12-24 MS PER HINGE
8	SURFACE VERTICAL ROD STRIKE REINFORCEMENT	.067" MIN. STL	1.5" X 12" MIN.
9	FALCON (F)25-V SURFACE VERTICAL ROD PANIC/EXIT DEVICE		

NOTES:

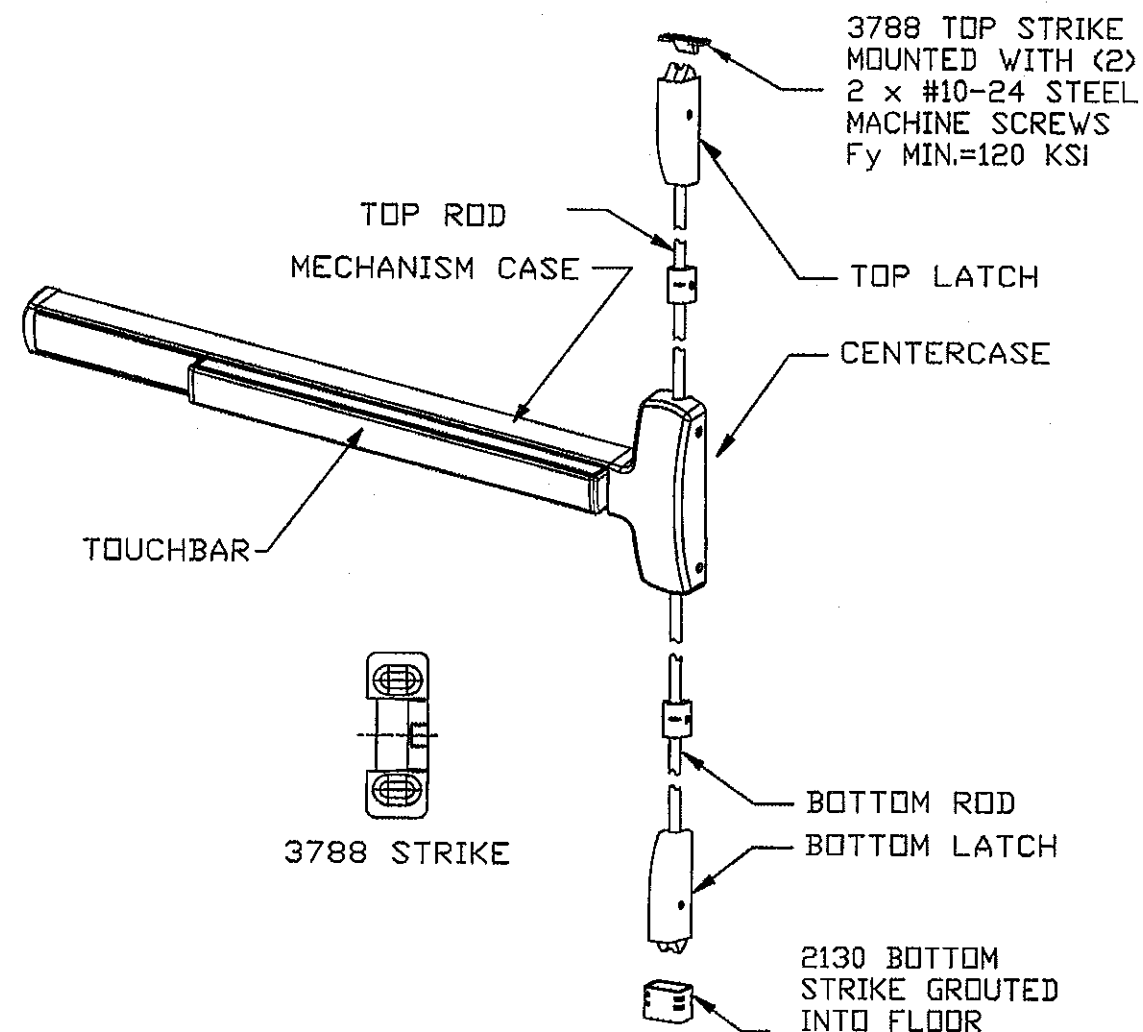
1. ALL FINISHES, 3' AND 4' DOOR WIDTH MODELS OFFERED.
2. AVAILABLE FUNCTIONAL OPTIONS: F, DX, EL, FSA/FSE, EA, HWEA, DM, LM, AND AE.
3. ELECTRICAL INSTALLATION IS UNDER SEPARATE APPROVAL AND MUST BE REVIEWED BY CORRESPONDING AUTHORITY.
4. THIS DEVICE IS APPROVED AS AN EQUAL ALTERNATE FOR SINGLE OR DOUBLE 16 GA STEEL COMMERCIAL DOORS HOLDING A CURRENT NOA OR HVHZ COMPLIANT FBC APPROVAL. THE DESIGN PRESSURE RATING OF THE ASSEMBLY SHALL BE EQUAL TO THAT OF THE LOWEST RATED COMPONENT, EITHER THE PANIC DEVICE OR THE DOOR.
5. THE DEVICE SHOULD BE INSTALLED IN COMMERCIAL STEEL DOOR NO WIDER THAN 48" AND NO HIGHER THAN 96".
6. OPTIONAL SIGNAL SWITCH AND POWER TRANSFER UNITS MAY BE USED AS ALLOWED BY CODE AND IF IT DOESN'T AFFECT THE MECHANICAL PROPERTIES OF THIS PANIC/EXIT DEVICE AND/OR INHIBIT EGRESS.
7. ALL ELECTRICAL COMPONENTS MUST BE UL APPROVED.
8. THIS PANIC/EXIT DEVICE CAN BE INSTALLED AS PART OF IMPACT RESISTANT UNIT.

TYPICAL INSTALLATION
SEE COMPONENT DETAIL - SHEET 4

[Signature] 5/17/12
Gordon Thomas, P.E.
3759 Blossom Court
Mason, OH 45040
Florida # 46718



BEND RADIUS		Ingersoll Rand Security Technologies FALCON 2720 TOBEY DRIVE INDIANAPOLIS, IN 46219	
THIRD ANGLE PROJECTION			
DRAWN YMF	DATE 05/22/09	TITLE FALCON 25 SERIES PANIC/EXIT DEVICES - COMPONENT APPROVAL (LMD) MIAMI-DADE COUNTY COMPONENT PRODUCT APPROVAL FALCON 25-V SERIES SURFACE VERTICAL ROD PANIC/EXIT DEVICE	
CHECKED		SIZE FLAT	DWG NO. 3580-2 SHEET 3 OF 8
APPROVED		SCALE NTS	REV C
ENG. APPVL		AUTOCAD	SHEET OF



FALCON (F)25-V SURFACE VERTICAL ROD PANIC/EXIT DEVICE COMPONENT APPROVAL

DESIGN PRESSURE RATING	
FALCON (F)25-V SURFACE	
VERTICAL ROD PANIC/EXIT	
DEVICE COMPONENT APPROVAL	
POSITIVE	+70 PSF
NEGATIVE	-70 PSF

R E V I S I O N S			
LTR	DESCRIPTION	DATE	APPROVED
A	NEW	05/22/09	
B	REVISED	03/23/11	
C	REVISED	02/28/12	

FALCON OUTSIDE TRIM OPTIONS	
	510L
	510L BE
	510L NL
	510L DT
	510L FSA
	510L FSE
	510L FSA LK
	510L FSE LK
	510L LK
	511L
	511L FSA
	511L FSE
	512T
	512T BE
	512T NL
	512T DT
	512T FSA
	512T FSE
	512T FSA LK
	512T FSE LK
	513K
	513K BE
	513K NL
	513K DT
	513K FSA
	513K FSE
	513K FSA LK
	513K FSE LK
	513K LK

Approved as complying with the
Florida Building Code
Date 6/21/12
NOA# 09-0723.01
Miami Dade Product Control
By /s/ Gary I. Chant

DIMENSIONS

TOUCHBAR PROJECTION:
NEUTRAL 2.784"
DEPRESSED 1.914"

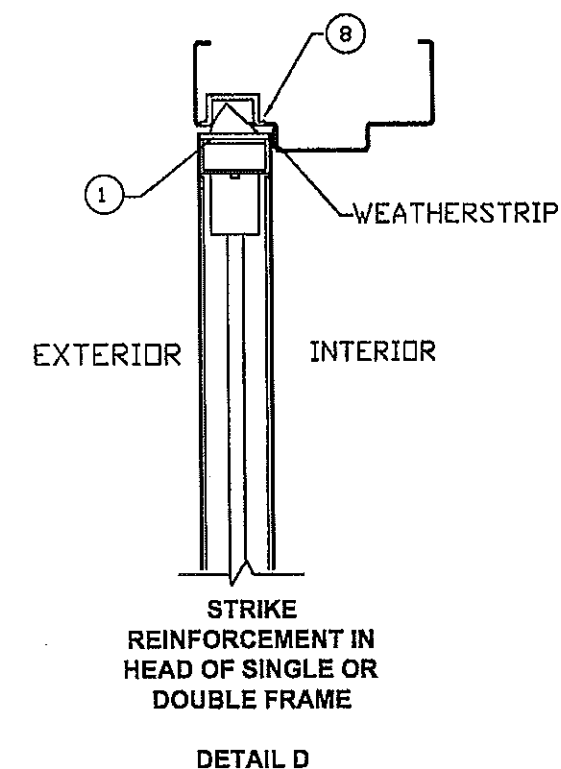
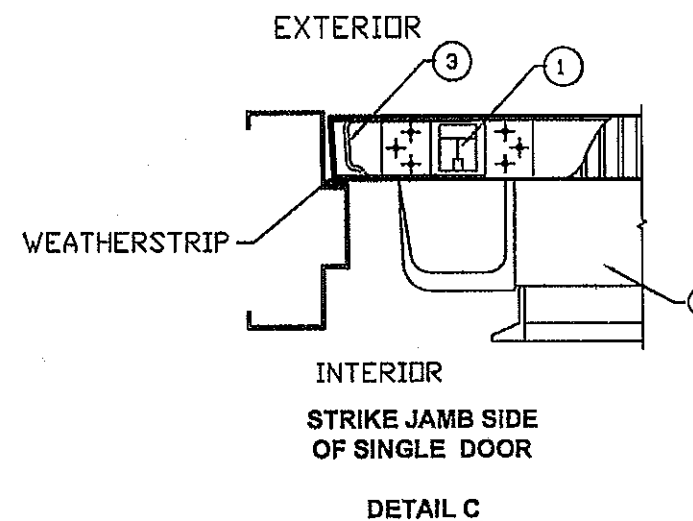
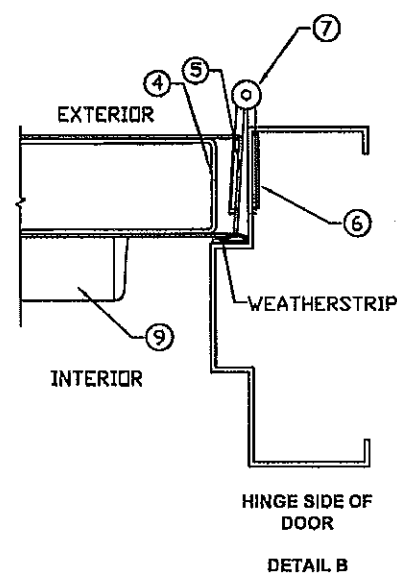
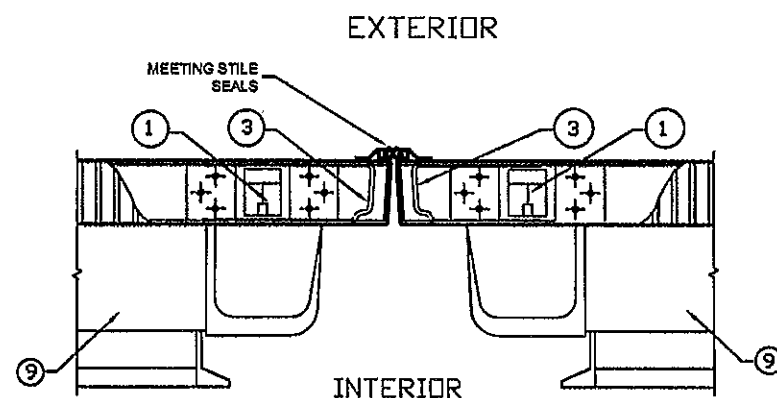
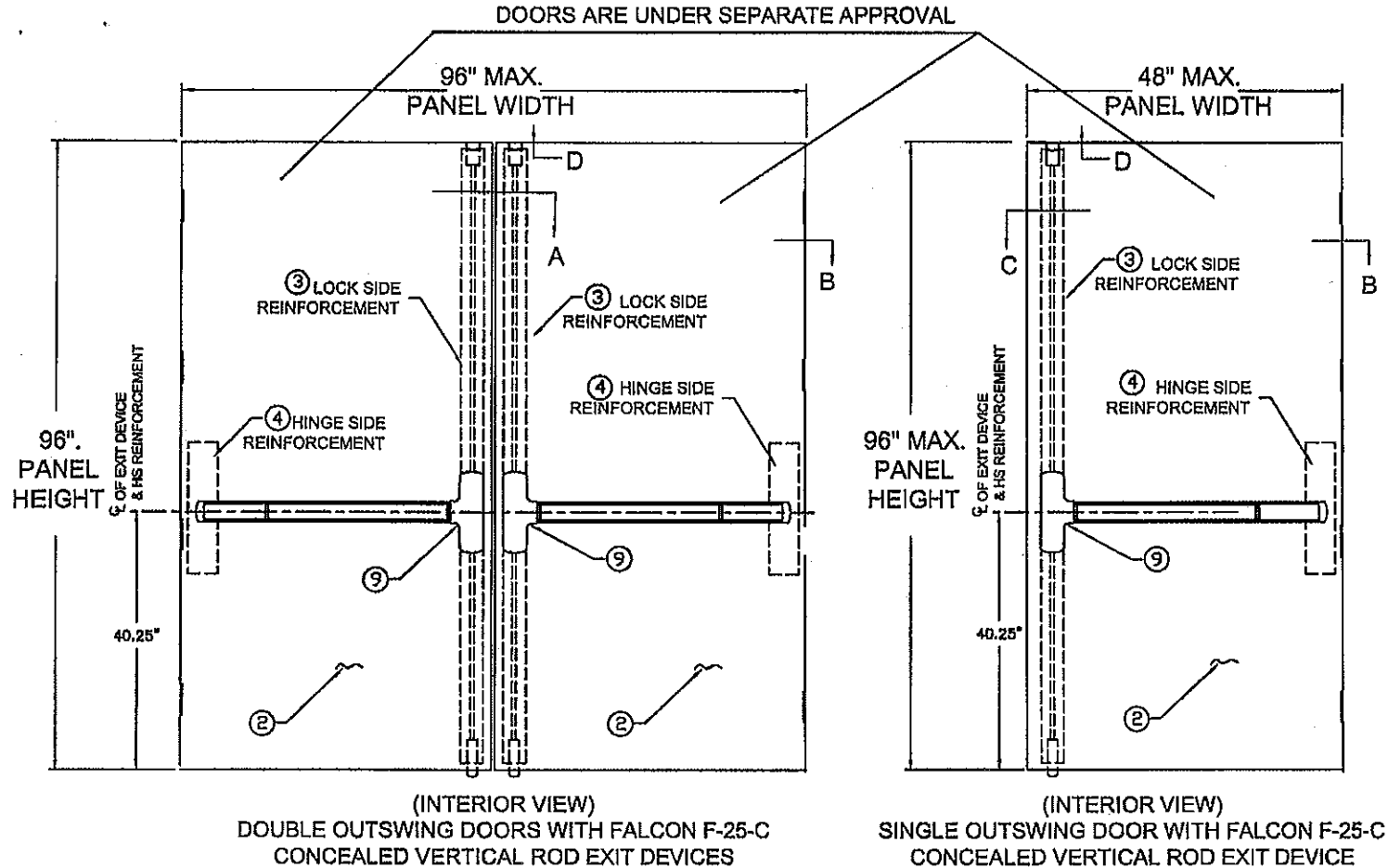
CENTER CASE: 8.928" X 2.642" X 1.914"
TOP & BOTTOM LATCH CASE: 4.75" X 1.718" X 1.187"

DEVICE LENGTH:
FOR UP TO 3' WIDE DOORS 33.596"
FOR DOORS WIDER THAN 3' UP TO 4' 45.596"

- NOTES:
1. ALL FINISHES, 3' AND 4' DOOR WIDTH MODELS OFFERED.
 2. AVAILABLE FUNCTIONAL OPTIONS: F, DX, EL, FSA/FSE, EA, HWEA, DM, LM, AND AE.
 3. ELECTRICAL INSTALLATION IS UNDER SEPARATE APPROVAL AND MUST BE REVIEWED BY CORRESPONDING AUTHORITY.
 4. THIS DEVICE IS APPROVED AS AN EQUAL ALTERNATE FOR SINGLE OR DOUBLE 16 GA STEEL COMMERCIAL DOORS HOLDING A CURRENT NOA OR HVHZ COMPLIANT FBC APPROVAL. THE DESIGN PRESSURE RATING OF THE ASSEMBLY SHALL BE EQUAL TO THAT OF THE LOWEST RATED COMPONENT, EITHER THE PANIC DEVICE OR THE DOOR.
 5. THE DEVICE SHOULD BE INSTALLED IN COMMERCIAL STEEL DOOR NO WIDER THAN 48" AND NO HIGHER THAN 96".
 6. OPTIONAL SIGNAL SWITCH AND POWER TRANSFER UNITS MAY BE USED AS ALLOWED BY CODE AND IF IT DOESN'T AFFECT THE MECHANICAL PROPERTIES OF THIS PANIC/EXIT DEVICE AND/OR INHIBIT EGRESS.
 7. ALL ELECTRICAL COMPONENTS MUST BE UL APPROVED.
 8. THIS PANIC/EXIT DEVICE CAN BE INSTALLED AS PART OF IMPACT RESISTANT UNIT.

Gordon Thomas, P.E.
3759 Blossom Court
Mason, OH 45040
Florida # 46718
Date 5/17/12

BEND RADIUS				FALCON 2720 TOBEY DRIVE INDIANAPOLIS, IN 46219	
THIRD ANGLE PROJECTION					
DRAWN YMF	DATE 05/22/09	TITLE FALCON 25 SERIES PANIC/EXIT DEVICES - COMPONENT APPROVAL (LMD) MIAMI-DADE COUNTY COMPONENT PRODUCT APPROVAL FALCON 25-V SERIES SURFACE VERTICAL ROD PANIC/EXIT DEVICE			
CHECKED		SIZE	FLAT	DWG NO. 3580-2	SHEET 4 OF 8
APPROVED		SCALE	NTS	AUTOCAD	REV C
ENG. APPVL		SHEET OF			



DESIGN PRESSURE RATING FALCON F-25-C CONCEALED VERTICAL ROD EXIT DEVICE COMPONENT APPROVAL	
POSITIVE	+70 PSF
NEGATIVE	-70 PSF

R E V I S I O N S			
LTR	DESCRIPTION	DATE	APPROVED
A	NEW	05/22/09	
B	REVISED	03/23/11	
C	REVISED	02/28/12	

Approved as complying with the
Florida Building Code
Date 6/21/12
NOA# 09-0723.01
Miami Dade Product Control
by Ishag I. Chaudhry

ITEM	DESCRIPTION	MATERIAL	SIZE
1	CONCEALED VERTICAL ROD TOP LATCH		
2	DOOR SLAB	.093" MIN. STL	48" X 96" MAX.
3	LOCK SIDE REINFORCEMENT CHANNEL	.099" MIN. STL	3.5 X 93.44 MAX
4	HINGE SIDE PANIC REINFORCEMENT	.067" MIN. STL	MAX. 20"
5	HINGE REINFORCEMENT DOOR ASTM A621	.171" MIN. STL	1.25" X 9.187" MIN.
6	HINGE REINFORCEMENT FRAME ASTM A621	.171" MIN. STL	1.5" X 9.187" MIN.
7	4.5" X 4.5" BUTT HINGES	.134 MIN.	(8) #12-24 MS PER HINGE
8	CONCEALED VERTICAL ROD STRIKE REINFORCEMENT/PREP	.067" MIN. STL	PER MFG TEMPLATE
9	FALCON F-25-C CONCEALED VERTICAL ROD EXIT DEVICE		

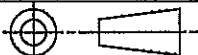
NOTES:

1. ALL FINISHES, 3' AND 4' DOOR WIDTH MODELS OFFERED.
2. AVAILABLE FUNCTIONAL OPTIONS: F, DX, EL, FSA/FSE, EA, HWEA, DM, LM, AND AE.
3. ELECTRICAL INSTALLATION IS UNDER SEPARATE APPROVAL AND MUST BE REVIEWED BY CORRESPONDING AUTHORITY.
4. THIS DEVICE IS APPROVED AS AN EQUAL ALTERNATE FOR SINGLE OR DOUBLE 16 GA STEEL COMMERCIAL DOORS HOLDING A CURRENT NOA OR HVHZ COMPLIANT FBC APPROVAL. THE DESIGN PRESSURE RATING OF THE ASSEMBLY SHALL BE EQUAL TO THE LOWEST RATED COMPONENT, EITHER THE PANIC DEVICE OR THE DOOR.
5. THE DEVICE SHOULD BE INSTALLED IN COMMERCIAL STEEL DOOR NO WIDER THAN 48" AND NO HIGHER THAN 96".
6. OPTIONAL SIGNAL SWITCH AND POWER TRANSFER UNITS MAY BE USED AS ALLOWED BY CODE AND IF IT DOESN'T AFFECT THE MECHANICAL PROPERTIES OF THIS EXIT DEVICE AND/OR INHIBIT EGRESS.
7. ALL ELECTRICAL COMPONENTS MUST BE UL APPROVED.
8. THIS EXIT DEVICE CAN BE INSTALLED AS PART OF IMPACT RESISTANT UNIT.

TYPICAL INSTALLATION SEE COMPONENT DETAIL - SHEET 6

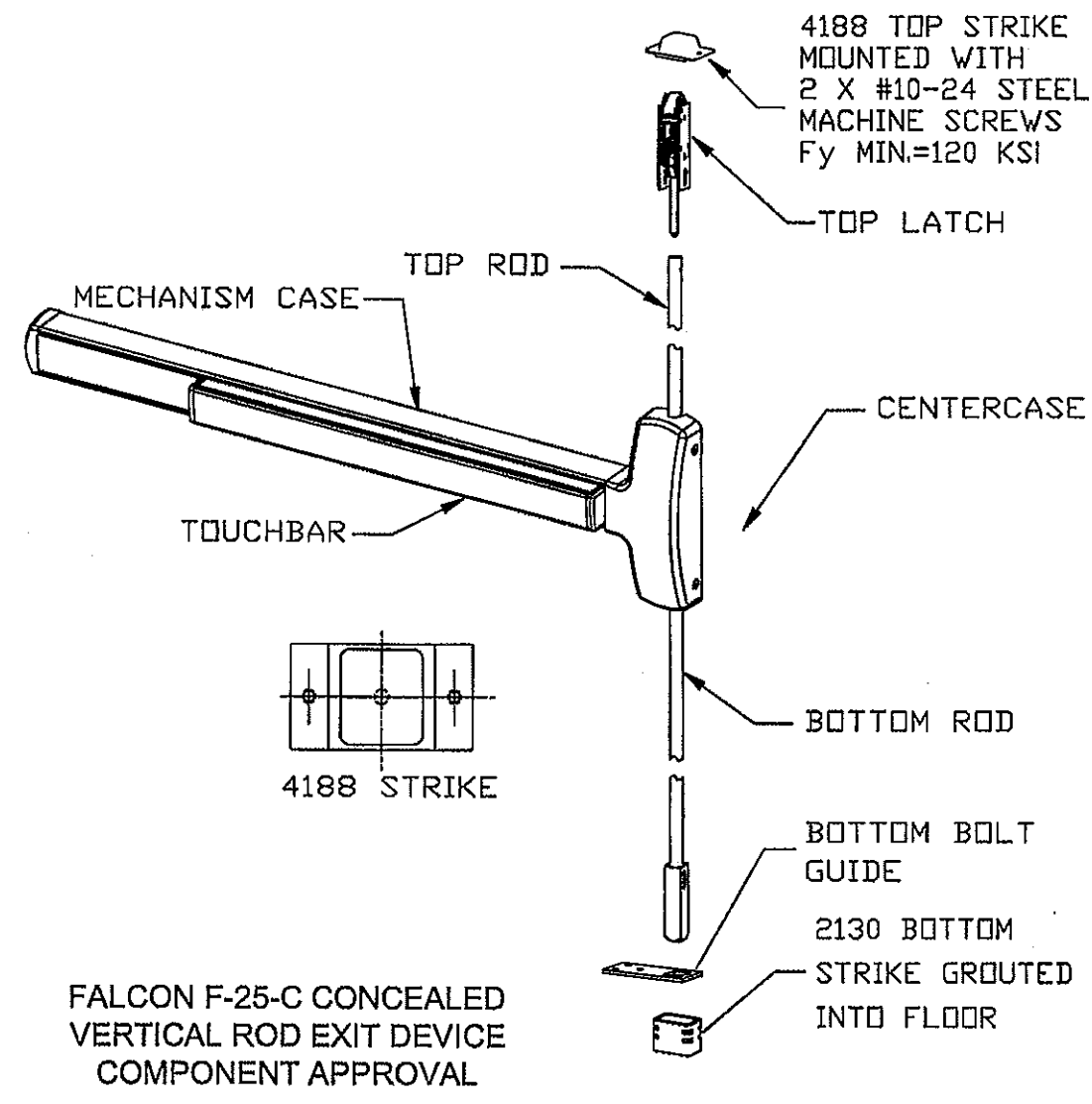
Handwritten signature and date: 5/12/12

Gordon Thomas, P.E. Date
3759 Blossom Court
Mason, OH 46040
Florida # 46718

BEND RADIUS		 Ingersoll Rand Security Technologies		FALCON 2720 TOBEY DRIVE INDIANAPOLIS, IN 46219		
						
THIRD ANGLE PROJECTION		TITLE FALCON 25 SERIES PANIC/EXIT DEVICES - COMPONENT APPROVAL (LMD)				
DRAWN YMF	DATE 05/22/09	MIAMI-DADE COUNTY COMPONENT PRODUCT APPROVAL FALCON F-25-C SERIES CONCEALED VERTICAL ROD EXIT DEVICE				
CHECKED						
APPROVED		SIZE	FLAT	DWG NO. 3580-2	SHEET 5 OF 8	REV C
ENG. APPVL		SCALE: NTS	AUTOCAD		SHEET	OF

DESIGN PRESSURE RATING FALCON F-25-C CONCEALED VERTICAL ROD EXIT DEVICE COMPONENT APPROVAL	
POSITIVE	+70 PSF
NEGATIVE	-70 PSF

R E V I S I O N S			
LTR	DESCRIPTION	DATE	APPROVED
A	NEW	05/22/09	
B	REVISED	03/23/11	
C	REVISED	02/28/12	



DIMENSIONS

TOUCHBAR PROJECTION:
NEUTRAL 2.784"
DEPRESSED 1.914"

CENTER CASE: 8.928" X 2.642" X 1.914"

DEVICE LENGTH:
FOR UP TO 3' WIDE DOORS 33.596"
FOR DOORS WIDER THAN 3' UP TO 4' 45.596"

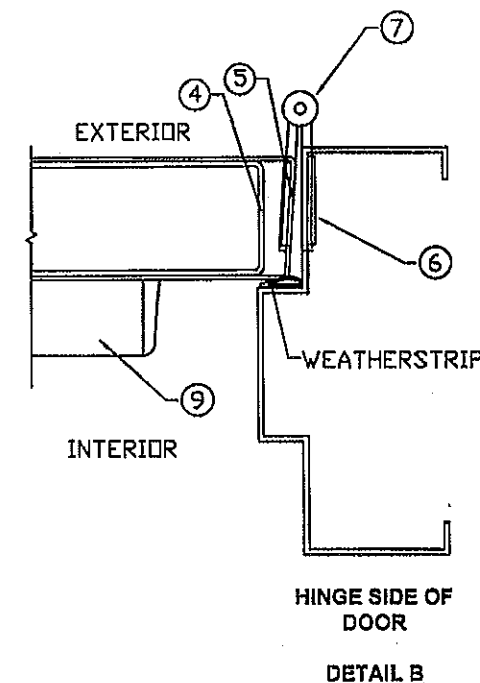
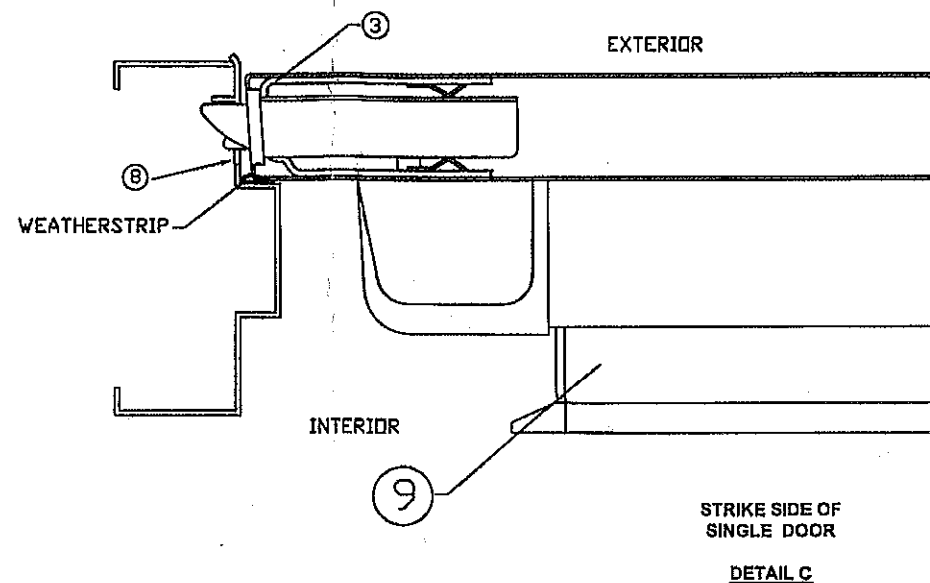
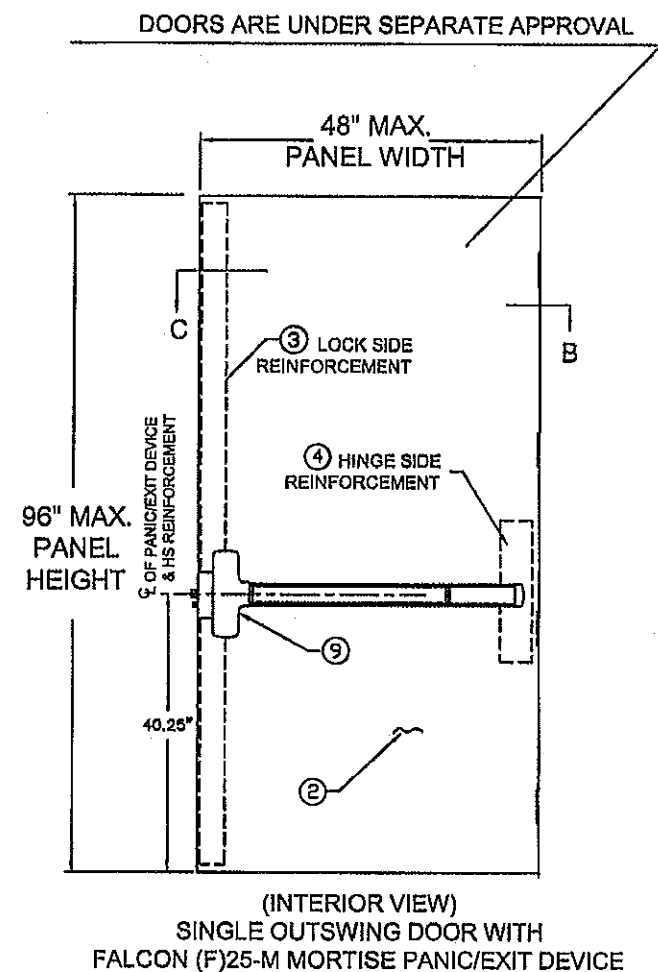
FALCON OUTSIDE TRIM OPTIONS	
510/511	510L
	510L BE
	510L NL
	510L DT
	510L FSA
	510L FSE
	510L FSA LK
	510L FSE LK
	510L LK
	511L
512	511L FSA
	511L FSE
	511L FSA LK
	511L FSE LK
	511L LK
	512T
	512T BE
	512T NL
	512T DT
	512T FSA
513	512T FSE
	512T FSA LK
	512T FSE LK
	512T LK
	513K
	513K BE
	513K NL
	513K DT
	513K FSA
	513K FSE
	513K FSA LK
	513K FSE LK
	513K LK

- NOTES:
1. ALL FINISHES, 3' AND 4' DOOR WIDTH MODELS OFFERED.
 2. AVAILABLE FUNCTIONAL OPTIONS: F, DX, EL, FSA/FSE, EA, HWEA, DM, LM, AND AE.
 3. ELECTRICAL INSTALLATION IS UNDER SEPARATE APPROVAL AND MUST BE REVIEWED BY CORRESPONDING AUTHORITY.
 4. THIS DEVICE IS APPROVED AS AN EQUAL ALTERNATE FOR SINGLE OR DOUBLE 16 GA STEEL COMMERCIAL DOORS HOLDING CURRENT NOA OR HVHZ COMPLIANT FBC APPROVAL. THE DESIGN PRESSURE RATING OF THE ASSEMBLY SHALL BE EQUAL TO THAT OF THE LOWEST RATED COMPONENT, EITHER THE PANIC DEVICE OR THE DOOR.
 5. THE DEVICE SHOULD BE INSTALLED IN COMMERCIAL STEEL DOOR NO WIDER THAN 48" AND NO HIGHER THAN 96".
 6. OPTIONAL SIGNAL SWITCH AND POWER TRANSFER UNITS MAY BE USED AS ALLOWED BY CODE AND IF IT DOESN'T AFFECT THE MECHANICAL PROPERTIES OF THIS EXIT DEVICE AND/OR INHIBIT EGRESS.
 7. ALL ELECTRICAL COMPONENTS MUST BE UL APPROVED.
 8. THIS EXIT DEVICE CAN BE INSTALLED AS PART OF IMPACT RESISTANT UNIT.

Approved as complying with the
Florida Building Code
Date 6/22/12
NOA# 06-0223-01
Miami Dade Product Control
By [Signature]

[Signature] 5/12/12
Gordon Thomas, P.E.
3759 Blossom Court
Mason, OH 45040
Florida # 46718

BEND RADIUS		FALCON 2720 TOBEY DRIVE INDIANAPOLIS, IN 46219	
THIRD ANGLE PROJECTION			
DRAWN YMF	DATE 05/22/09	TITLE FALCON 25 SERIES PANIC/EXIT DEVICES - COMPONENT APPROVAL (LMI) MIAMI-DADE COUNTY COMPONENT PRODUCT APPROVAL FALCON F-25-C SERIES CONCEALED VERTICAL ROD EXIT DEVICE	
CHECKED		SIZE FLAT	DWG NO. 3580-2 SHEET 6 OF 8
APPROVED		SCALE NTS	REV C
ENG. APPVL		SHEET OF	



DESIGN PRESSURE RATING FALCON (F)25-M MORTISE PANIC/EXIT DEVICE COMPONENT APPROVAL (SINGLE DOOR ONLY)	
POSITIVE	+70 PSF
NEGATIVE	-70 PSF

R E V I S I O N S			
LTR	DESCRIPTION	DATE	APPROVED
A	NEW	05/22/09	
B	REVISED	03/23/11	
C	REVISED	02/28/12	

Approved as complying with the
Florida Building Code
Date 6/21/12
NOA# 05-0723-01
Miami Dade Product Control
By Isabel L. Chanda

ITEM	DESCRIPTION	MATERIAL	SIZE
1	NOT IN USE		
2	DOOR SLAB	.053" MIN. STL	48" X 96" MAX.
3	LOCK SIDE REINFORCEMENT CHANNEL	.099" MIN. STL	3.5 X 93.44 MAX
4	HINGE SIDE PANIC REINFORCEMENT	.087" MIN. STL	MAX. 20"
5	HINGE REINFORCEMENT DOOR ASTM A621	.171" MIN. STL	1.23" X 9.187" MIN.
6	HINGE REINFORCEMENT FRAME ASTM A621	.171" MIN. STL	1.25" X 9.187" MIN.
7	4.5" X 4.5" BUTT HINGES	.134 MIN.	(8) #12-24 MS PER HINGE
8	ASA STRIKE REINFORCEMENT	.053" MIN. STL	1.25" X 8.00" MIN.
9	FALCON (F)25-M MORTISE PANIC/EXIT DEVICE		

TYPICAL INSTALLATION SEE COMPONENT DETAIL - SHEET 8

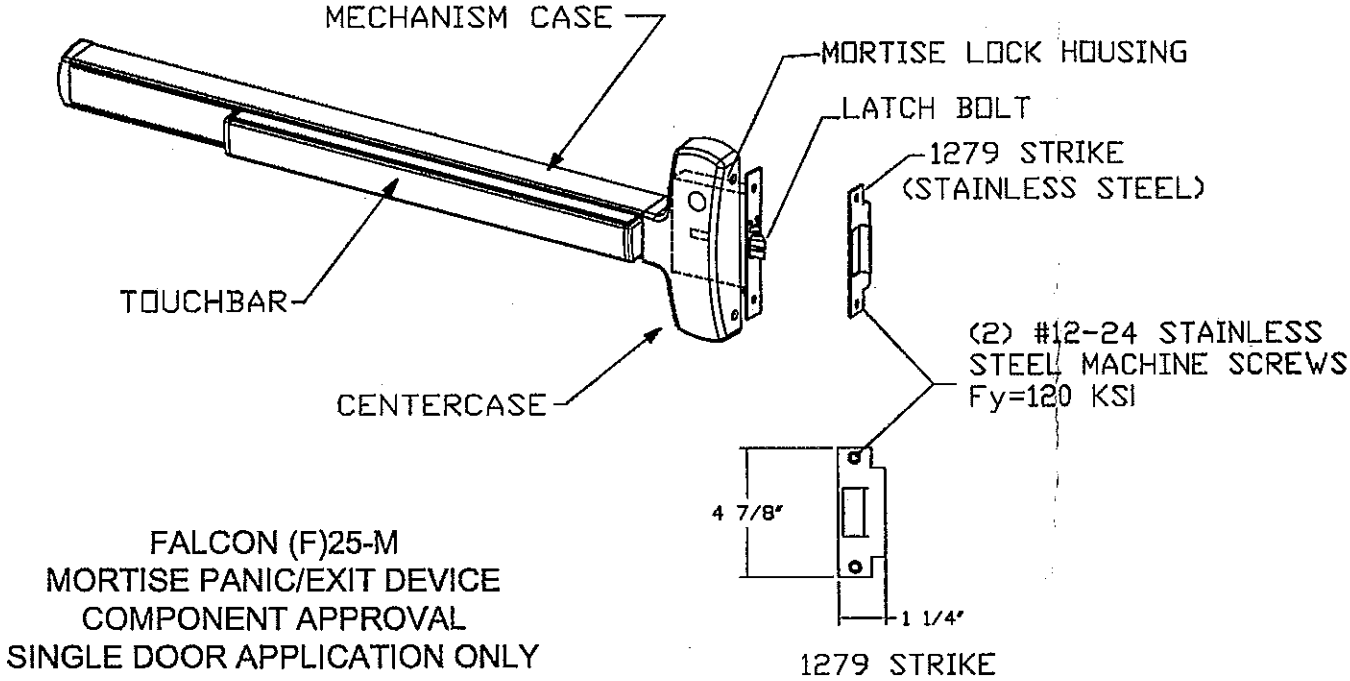
[Signature]
Gordon Thomas, P.E.
3759 Blossom Court
Mason, OH 45040
Florida # 48718
Date 05/12/12

BEND RADIUS				FALCON 25 SERIES PANIC/EXIT DEVICES - COMPONENT APPROVAL (CMD) MIAMI-DADE COUNTY COMPONENT PRODUCT APPROVAL FALCON 25-M SERIES MORTISE PANIC/EXIT DEVICE	
THIRD ANGLE PROJECTION					
DRAWN YMF	DATE 05/22/09	SIZE FLAT	DWG NO. 3580-2	SHEET 7 OF 8	REV C
CHECKED		SCALE NTS	AUTOCAD	SHEET OF	
APPROVED					
ENG. APPVL					

- NOTES:
1. ALL FINISHES, 3' AND 4' DOOR WIDTH MODELS OFFERED.
 2. AVAILABLE FUNCTIONAL OPTIONS: F, DX, EL, FSA/FSE, EA, HWEA, DM, LM, AND AE.
 3. ELECTRICAL INSTALLATION IS UNDER SEPARATE APPROVAL AND MUST BE REVIEWED BY CORRESPONDING AUTHORITY.
 4. THIS DEVICE IS APPROVED AS AN EQUAL ALTERNATE FOR SINGLE 16 GA. STEEL COMMERCIAL DOORS HOLDING CURRENT NOA OR HVHZ COMPLIANT FBC APPROVAL. THE DESIGN PRESSURE RATING OF THE ASSEMBLY SHALL BE EQUAL TO THAT OF THE LOWEST RATED COMPONENT, EITHER THE PANIC DEVICE OR THE DOOR.
 5. THE DEVICE SHOULD BE INSTALLED IN COMMERCIAL STEEL DOOR NO WIDER THAN 48" AND NO HIGHER THAN 96".
 6. OPTIONAL SIGNAL SWITCH AND POWER TRANSFER UNITS MAY BE USED AS ALLOWED BY CODE AND IF IT DOESN'T AFFECT THE MECHANICAL PROPERTIES OF THIS PANIC/EXIT DEVICE AND/OR INHIBIT EGRESS.
 7. ALL ELECTRICAL COMPONENTS MUST BE UL APPROVED.
 8. THIS PANIC/EXIT DEVICE CAN BE INSTALLED AS PART OF IMPACT RESISTANT UNIT.

DESIGN PRESSURE RATING	
FALCON (F)25-M MORTISE	
PANIC/EXIT DEVICE	
COMPONENT APPROVAL	
(SINGLE DOOR ONLY)	
POSITIVE	+70 PSF
NEGATIVE	-70 PSF

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	NEW	05/22/09	
B	REVISED	03/23/11	
C	REVISED	02/28/12	



Approved as complying with the
Florida Building Code
Date June 21, 2012
NOA# 09-0723-01
Miami Dade Product Control
By Shag1.1/12

DIMENSIONS

TOUCHBAR PROJECTION:
NEUTRAL 2.784"
DEPRESSED 1.914"

CENTER CASE: 8.928" X 2.642" X 1.914"

DEVICE LENGTH:
FOR UP TO 3' WIDE DOORS 33.596"
FOR DOORS WIDER THAN 3' UP TO 4' 45.596"

FALCON OUTSIDE TRIM OPTIONS	
	510L
	510L BE
	510L NL
	510L DT
	510L FSA
	510L FSE
	510L FSA LK
	510L FSE LK
	510L LK
	511L
	511L FSA
	511L FSE
	511L FSA LK
	511L FSE LK
	511L LK
	512T
	512T BE
	512T NL
	512T DT
	512T FSA
	512T FSE
	512T FSA LK
	512T FSE LK
	512T LK
	513K
	513K BE
	513K NL
	513K DT
	513K FSA
	513K FSE
	513K FSA LK
	513K FSE LK
	513K LK

- NOTES:
1. ALL FINISHES, 3' AND 4' DOOR WIDTH MODELS OFFERED.
 2. AVAILABLE FUNCTIONAL OPTIONS: F, DX, EL, FSA/FSE, EA, HWEA, DM, LM, AND AE.
 3. ELECTRICAL INSTALLATION IS UNDER SEPARATE APPROVAL AND MUST BE REVIEWED BY CORRESPONDING AUTHORITY.
 4. THIS DEVICE IS APPROVED AS AN EQUAL ALTERNATE FOR SINGLE 16 GA STEEL COMMERCIAL DOORS HOLDING CURRENT NOA OR HVHZ COMPLIANT FBC APPROVAL. THE DESIGN PRESSURE RATING OF THE ASSEMBLY SHALL BE EQUAL TO THAT OF THE LOWEST RATED COMPONENT, EITHER THE PANIC DEVICE OR THE DOOR.
 5. THE DEVICE SHOULD BE INSTALLED IN COMMERCIAL STEEL DOOR NO WIDER THAN 48" AND NO HIGHER THAN 96".
 6. OPTIONAL SIGNAL SWITCH AND POWER TRANSFER UNITS MAY BE USED AS ALLOWED BY CODE AND IF IT DOESN'T AFFECT THE MECHANICAL PROPERTIES OF THIS PANIC/EXIT DEVICE AND/OR INHIBIT EGRESS.
 7. ALL ELECTRICAL COMPONENTS MUST BE UL APPROVED.
 8. THIS PANIC/EXIT DEVICE CAN BE INSTALLED AS PART OF IMPACT RESISTANT UNIT.

Signature 5/17/12
Gordon Thomas, P.E.
3759 Blossom Court
Mason, OH 45040
Florida #46718

BEND RADIUS				FALCON 2720 TOBEY DRIVE INDIANAPOLIS, IN 46219	
		TITLE FALCON 25 SERIES PANIC/EXIT DEVICES - COMPONENT APPROVAL (CMS)			
THIRD ANGLE PROJECTION		MIAMI-DADE COUNTY COMPONENT PRODUCT APPROVAL FALCON 25-M SERIES MORTISE PANIC/EXIT DEVICE			
DRAWN YMF	DATE 05/22/09	SIZE FLAT		DWG NO. 3580-2	SHEET 8 OF 8
CHECKED					REV C
APPROVED					
ENG. APPVL		SCALE: NTS		AUTOCAD	SHEET OF



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/

Ingersoll-Rand
6810 Hillsdale Court
Indianapolis, IN 46250

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.

DESCRIPTIO: IR / Steelcraft Single Flush Outswing Commercial Steel Doors w / wo Panic Exit Devices

APPROVAL DOCUMENT: Drawing No "IRF-S07" Rev H, titled "Flush Outswing Doors", sheets 1 through 11 of 11, prepared by the manufacturer, dated 05-27-07 and last revised on 04/14/10, signed and sealed by Thomas Gordon,, 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 Missile Impact Resistant

Limitations:

1. See Design Pressures, Sizes, Hardware and Water infiltration limitation sheet 1 & 2 of the drawings.
2. Option (A) Polystyrene and Expanded polystyrene foam core options (F) in sheet 4 are limited to Atlas EPS (min $\rho = 1\#/ft^3$) and Polyisocyanurate El-Foam-H200 (polyurethane, min $\rho = 2\#/ft^3$) by Elliott Company.
3. Electrical/Electronic function is not part of this approval, such functions to be reviewed and approved by AHJ.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Cincinnati, Ohio and series and following statement: "Miami-Dade County Product Control Approved", 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 # 10-0209.07 and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

MIAMI-DADE COUNTY
APPROVED

NOA No 12-0305.14
Expiration Date: May 05, 2015
Approval Date: May 31, 2012

5/23/12

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's parts and sections drawings (submitted under file # **10-0209.07**)
2. Drawing No "**IRF-S07**" Rev **H**, titled "Flush Outswing Doors", sheets 1 through 11 of 11, prepared by the manufacturer, dated 05-27-07 and last revised on 04/14/10, signed and sealed by Thomas Gordon, P.E.

B. TESTS (Submitted file # **10-0209.07/ 07-0829.04)**

1. Test report on 1) Air Infiltration Test, per TAS 202-94
2) Water Resistance Test per FBC TAS 202-94(Not conducted)
3) Uniform Static Air Pressure Test, Loading per 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 PA 202-94

Along with manufacturer's parts and section drawings of double flush outswing steel doors, marked by National Certified Testing Lab, Test Reports No. **NCTL-210- 3580-2**, dated March 25, 2009, signed and sealed by Gerry Ferrara, P. E.

2. Test report on (Submitted under file # **07-0829.04**)

- 1) Air Infiltration Test, per TAS 202-94
- 2) Uniform Static Air Pressure Test, Loading per TAS 202-94
- 3) Large Missile Impact Test per FBC, TAS 201-94
- 4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
- 5) Forced Entry Test, per PA 202-94

Along with manufacturer's parts and section drawings of single Flush outswing steel doors, marked by Certified Testing Lab, Test Reports No(s). **CTLA-776W** dated February 20, 2002, **CTLA-776W1** dated April 25, 2002, **CTLA-776W-2, 3** dated April 20, 2002, **CTLA-1035W-2** dated Feb. 11, 2003, **CTLA-1086-W** dated Nov. 17, 2003, **CTLA -1107W-3** dated Aug. 05, 2003, all signed and sealed by Ramesh Patel, P.E.

3. Additional test reports

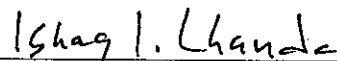
- 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94.
- 2) Water Resistance Test per FBC TAS 202-94

Along with marked-up drawings and installation diagram of double steel commercial doors, prepared by National Certified Testing Laboratories Inc., Test Report No. **NCTL- 210-03-0514-11**, dated August 31, 2004 , **NCTL 210- 03-3511-1** dated 04/09/08 and **NCTL 210- 03-3549-1** dated 08/26/08, all signed and sealed by Gerry Ferrara, P. E.

4. Reference test report No.**CTLA-1107W** for strap anchor qualification.

C. CALCULATIONS (Submitted file # **10-0209.07/ 07-0829.04)**

1. Statement of compliance & anchor verification evaluation report, dated 04-23-2007 and last revised on 07/14/2008, prepared, signed & sealed by Thomas Gordon., P.E.
2. Evaluation report for Hinges dated 09/01/04, prepared, signed & sealed by Thomas Gordon., P.E.



Ishaq I. Chanda, P.E.

Product Control Examiner

NOA No 12-0305.14

Expiration Date: May 05, 2015

Approval Date: May 31, 2012

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE BY

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS (submitted under file # 10-0209.07)

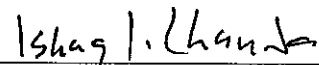
1. Test Report No. **03NK2370/R145081**, January 21, 2003, issued by Underwriters laboratories Inc for "Surface Burning Characteristics of Building material" per ASTM E84-00a and self Ignition per ASTM1929D for "Elfoam H200", issued to Elliott Co. of Indianapolis Inc.
2. Tensile test report # CTLA-776W (0194H), dtd 02/25/02 prepared by CTL Architectural Division, sheet samples, tested per ASTM E8, signed & sealed by Ramesh Patel, P.E.
3. Tensile Test report No. A103W1-Test 1, 2 & 3 dated 23 APR 03 per ASTM E-8 for steel face sheet, prepared by Certified Testing laboratory, signed and sealed by Ramesh Patel, P.E.
4. Test Report No. **NER-384**, reissued dated May 01, 1994, issued by National Evaluation Service Inc to Huntsman Chemical Corporation for "Expanded Polystyrene EPS" for grade 86 & grade 54 for "Surface Burning Characteristics of Building material" per ASTM E 84.
5. Test Report No. **16206-122543 (1015P200(3))**, dated November 29, 2004 for "Surface Burning Characteristics of Building material" per ASTM E84 and self Ignition per ASTM1929D for "Polyisocyanurate" issued by Omega Point Laboratories, Inc. to Elliot Company, Indianapolis, IN.

F. STATEMENTS

1. Letter of conformance to FBC 2010 "No financial interest" dated 02/15/12, signed and sealed by Gordon Thomas, P.E.
2. Statement letter of conformance to FBC 2007 and no financial interest, dated Feb 03, 2010, prepared, signed and sealed by Gordon Thomas, P.E.
3. Laboratory Compliance statement issued as part of test report.
4. Addendum letter dated 3/15/10 for test report NCTL210-3645-1, issued by National certified Testing lab.
5. Letter of certification dated 04/20/10, issued by Ingersoll-Rand for electronic CO lock series mechanical /functional parts same as AD, ND and AD-M series.

G. OTHER

1. This NOA **revises NOA # 10-0209.07**, expiring on 05/05/15.
2. Previously consolidates NOA (s) associated with this files are NOA #10-0209.07, 07-0829.04, 02-0712.01, 02-0712.03, 03-0908.03, 04-0203.03, 04-0303.03 and 05-0103.01.
3. Consolidation Test proposal # **06-2468**, dated 04/27/07 approved by BCCO.
4. IR Locks & Panic devices brochures / catalogs supplied by manufacturer.



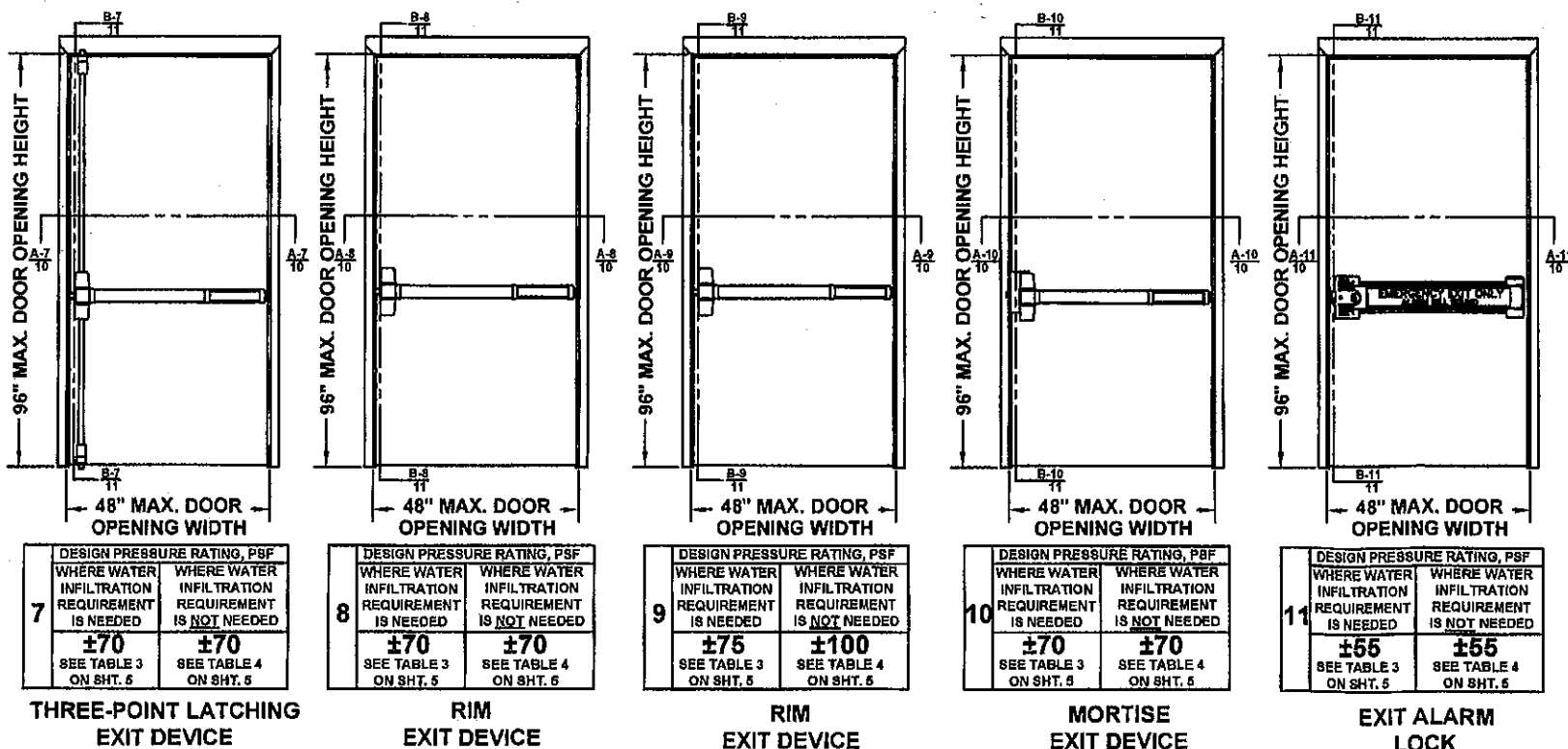
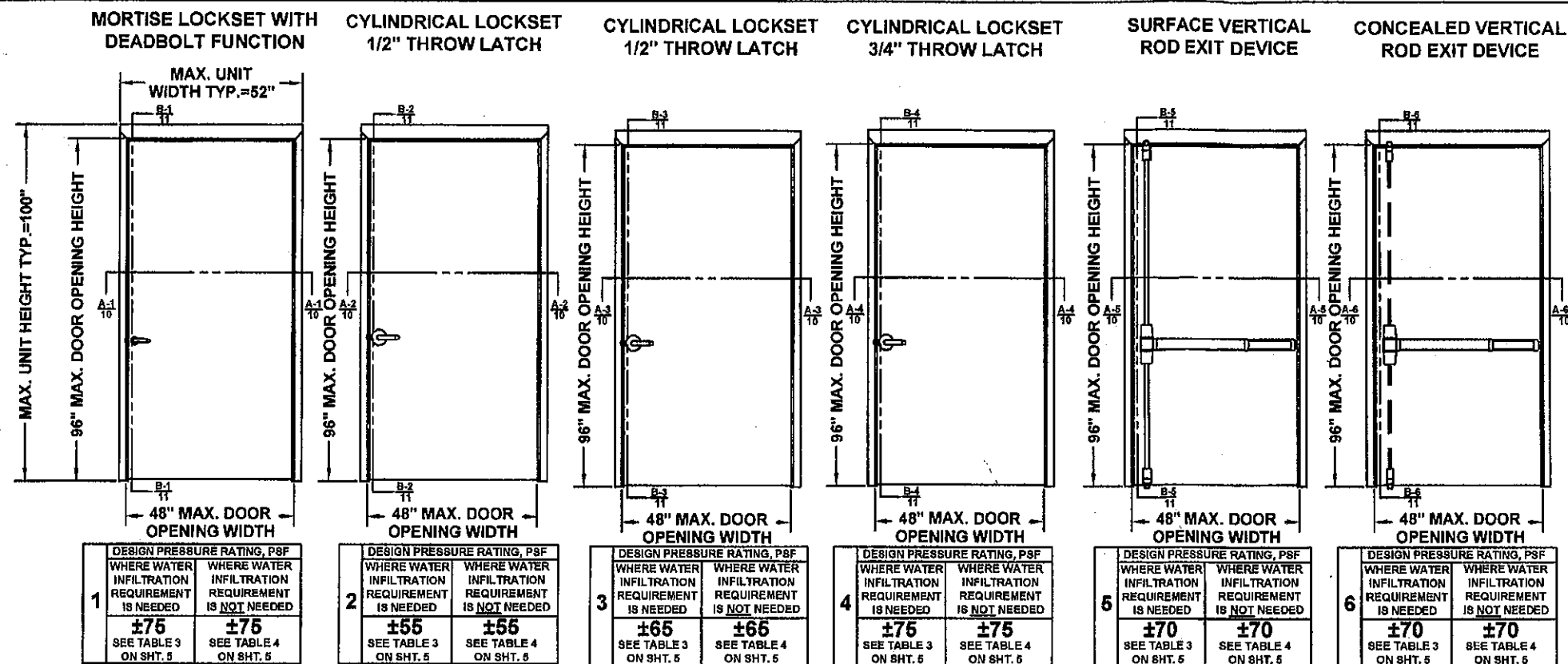
Ishaq I. Chanda, P.E.

Product Control Examiner

NOA No 12-0305.14

Expiration Date: May 05, 2015

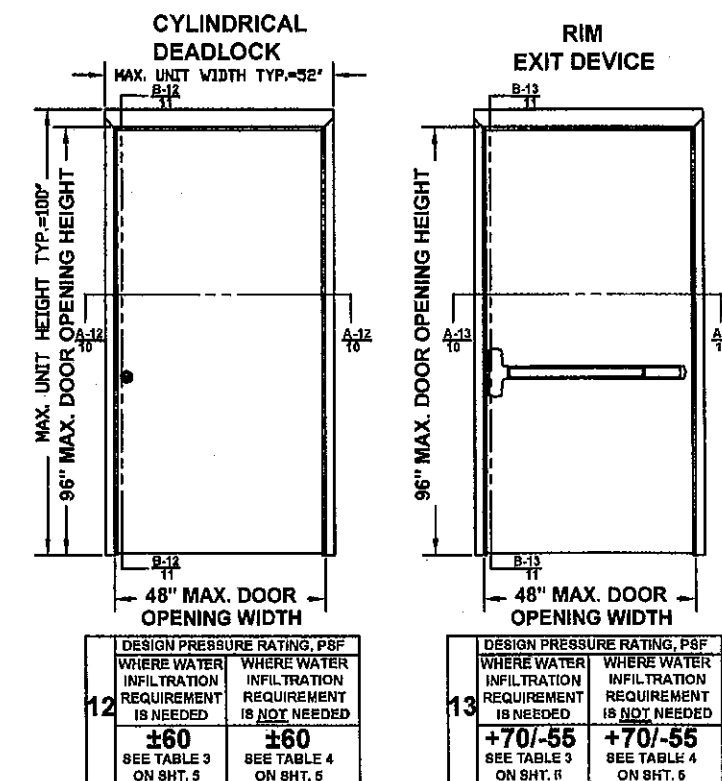
Approval Date: May 31, 2012



- NOTES:**
1. INTERIOR VIEWS ARE SHOWN FOR ALL ELEVATIONS
 2. SEE TABLE 1 ON SHEET 2 FOR HARDWARE APPLICATIONS AND LIMITATIONS
 3. SEE SHEET 3 FOR HINGE REQUIREMENTS
 4. SEE SHEET 4 FOR ANCHORING TYPES AND LIMITATIONS
 5. SEE SHEET 5 FOR WEATHERSTRIPPING INSTALLATION DETAILS AND LIMITATIONS

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	YMF	05/20/07
B	REVISED DWG	RAP	10/11/07
C	REVISED DWG	RAP	12/10/07
D	REVISED DWG	YMF	01/04/08
E	REVISED DWG	YMF	03/31/08
F	REVISED DWG	YMF	06/02/08
G	REVISED DWG	YMF	01/20/10
H	REVISED DWG	YMF	04/07/10



PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 10-0209.07
Expiration Date MAY 5, 2015
By Ishag J. Chanda
Miami Dade Product Control
Division

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0305.14
Expiration Date MAY 5, 2015
By Ishag J. Chanda
Miami Dade Product Control
Division

[Signature] 4/14/10
Gordon Thomas, P.E.
3769 Blossom Court
Mason, OH 45040
Florida # 46718

BEND RADIUS		 Ingersoll Rand Security Technologies	
THIRD ANGLE PROJECTION			
DRAWN YMF	DATE 05/20/07	TITLE MIAMI-DADE PRODUCT APPROVAL FLUSH OUTSWING DOORS AND HARDWARE CONFIGURATIONS IR COMMERCIAL DOOR OPENING SINGLE FLUSH DOORS.	
CHECKED		SIZE	FLAT
APPROVED		DWG NO.	IRFS07
ENG. APPVL JPD	10/11/07	SCALE	NTS
		AUTOCAD	
		SHEET	1 of 11

Door Configuration	Maximum Design Pressure, PSF		Maximum Door Opening Size, in.		Locking Hardware Description				Comments
	Positive	Negative	Width	Height	Hardware Family	Model/Series	Strike Models	IR Brand	
1	75	75	48	96	Mortise Lock	L/LV9400/AD MS	10-072	Schlage	Functions with deadbolt, 3/4" min. throw latch & 1" min. throw deadbolt
	75	75	48	96	Mortise Lock	M	ANSI	Falcon	
	75	75	48	96	Mortise Lock	5500	ANSI	Locknetics / Schlage	
2	55	55	48	96	Cylindrical Lock	AL	10-025	Schlage	1/2" throw latch
3	65	65	48	96	Cylindrical Lock	D/ND/AD CYL	10-025	Schlage	1/2" throw latch
4	75	75	48	96	Cylindrical Lock	D/ND/AD CYL	10-025	Schlage	3/4" throw latch
	75	75	48	96	Cylindrical Lock	T	ANSI	Falcon	3/4" throw latch
	75	75	48	96	Cylindrical Lock	5100	ANSI	Locknetics / Schlage	3/4" throw latch
5	70	70	48	96	Surface Vertical Rod Exit Device	98/9927(F)	299F/499F Top, 304L/248L4 Bottom	Von Duprin	
	70	70	48	96	Surface Vertical Rod Exit Device	(F)18-V	3788 Top, 2130 Bottom	Monarch	
	70	70	48	96	Surface Vertical Rod Exit Device	(F)25-V	3788 Top, 2130 Bottom	Falcon	
6	70	70	48	96	Concealed Vertical Rod Exit Device	98/9947-F	338 Top, 385A Bottom	Von Duprin	
	70	70	48	96	Concealed Vertical Rod Exit Device	F-18-C	4188 Top, 2130 Bottom	Monarch	
	70	70	48	96	Concealed Vertical Rod Exit Device	F-25-C	4188 Top, 2130 Bottom	Falcon	
7	70	70	48	96	Three-Point Latching Device	98/9957(F)	299F/499F Top/Middle, 304L/248L4 Bottom	Von Duprin	
8	70	70	48	96	Rim Exit Device	98/99(F)	299F/499F	Von Duprin	
	70	70	48	96	Rim Exit Device	88-F	268	Von Duprin	
	70	70	48	96	Rim Exit Device	(F)DL-18-R	F570	Monarch	
9	75/100 SEE NOTE 2.	75/100 SEE NOTE 2.	48	96	Rim Exit Device	XP98/99(F)	909/954	Von Duprin	
10	70	70	48	96	Mortise Exit Device	98/9975(F)	575	Von Duprin	
	70	70	48	96	Mortise Exit Device	8875(F)	575	Von Duprin	
	70	70	48	96	Mortise Exit Device	(F)18-M	1279	Monarch	
	70	70	48	96	Mortise Exit Device	(F)25-M	1279	Falcon	
11	55	55	48	96	Exit Alarm Lock	2670 GUARD-X	267	Von Duprin	
12	60	60	48	96	Cyl. Deadlock	B600/700/800	10-055	Schlage	
	60	60	48	96	Cyl. Deadlock	D400/800	010018-000/001	Falcon	
13	70	55	48	96	Rim Exit Device	(F)25-R	299F/499F	Falcon	

TABLE 1.

NOTES:

1. SEE SHEETS 7, 8 & 9 FOR LOCKING HARDWARE.
2. DOOR CONFIGURATION 9 IS RATED FOR MAXIMUM DESIGN PRESSURE ± 100 PSF WHEN WATER INFILTRATION REQUIREMENT IS NOT NEEDED, AND UP TO $+75$ PSF WHEN WATER INFILTRATION REQUIREMENT IS NEEDED (SEE TABLE 3 ON SHT.5)
3. SCHLAGE AL-SERIES CYLINDRICAL LOCK, door configuration 2, IS LIMITED TO ± 55 PSF MAXIMUM DESIGN PRESSURE

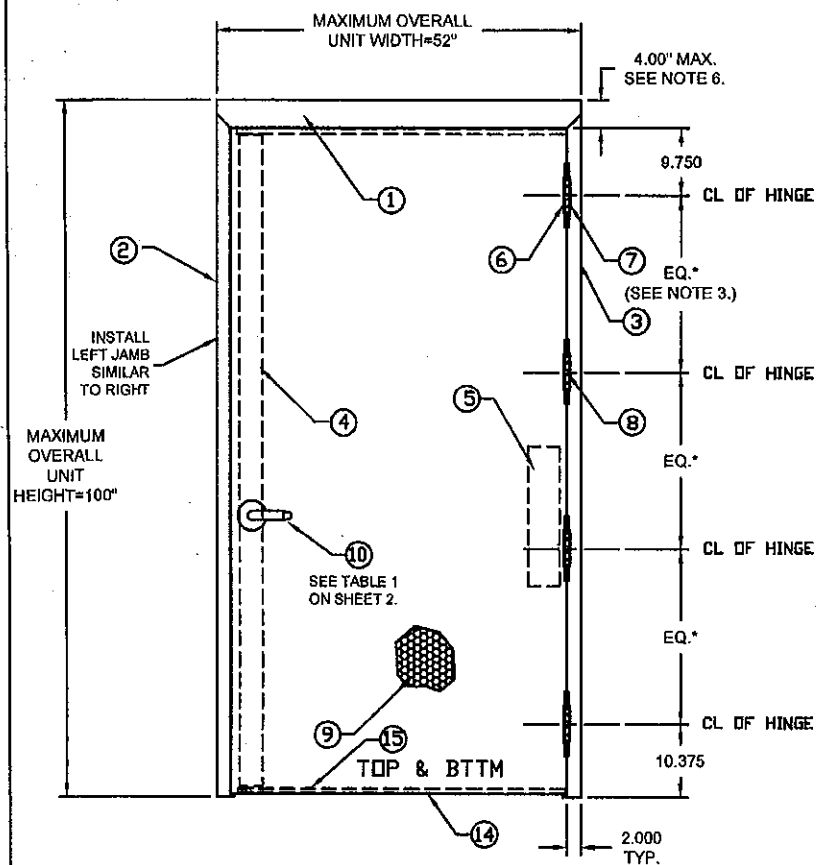
R E V I S I O N S					
LTR	DESCRIPTION			DATE	APPROVED
A	APPROVAL	DWG	YMF	05/20/07	
B	REVISED	DWG	RAP	10/11/07	
C	REVISED	DWG	RAP	12/10/07	
D	REVISED	DWG	YMF	01/04/08	
E	REVISED	DWG	YMF	03/31/08	
F	REVISED	DWG	YMF	06/02/08	
G	REVISED	DWG	YMF	03/03/09	
H	REVISED	DWG	YMF	04/07/10	

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0305-14
Expiration Date 5/5/15
By Ishag I. Chaudh
Miami Dade Product Control
Division

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 10-0209-07
Expiration Date MAY 5, 2015
By Ishag I. Chaudh
Miami Dade Product Control
Division

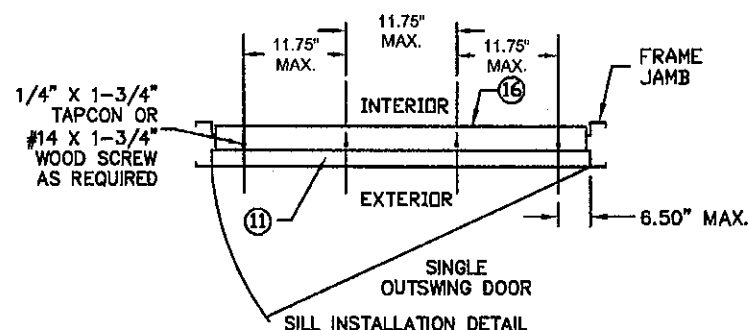
Gordon Thomas 4/14/10
Gordon Thomas, P.E. Date
3759 Blossom Court
Mason, OH 45040
Florida # 48718

BEND RADIUS				Ingersoll Rand Security Technologies	
THIRD ANGLE PROJECTION					
DRAWN YMF	DATE 05/20/07	TITLE MIAMI-DADE PRODUCT APPROVAL FLUSH OUTSWING DOORS AND HARDWARE CONFIGURATIONS IR COMMERCIAL DOOR OPENING SINGLE FLUSH DOORS.			
CHECKED					
APPROVED		SIZE	FLAT	DWG NO. IRFS07	REV H
ENG. APPVL JPD	10/11/07	SCALE: NTS	AUTOCAD	SHEET 2 of 11	



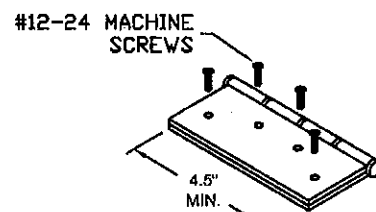
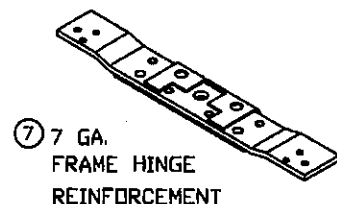
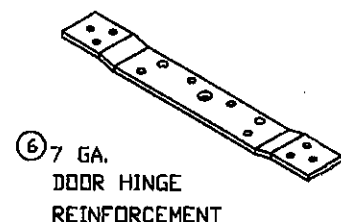
OUTSWING SINGLE FLUSH DOOR
(EXTERIOR VIEW)
ALL DIMENSIONS TYPICAL, UNLESS SPECIFIED OTHERWISE

DOOR VIEW



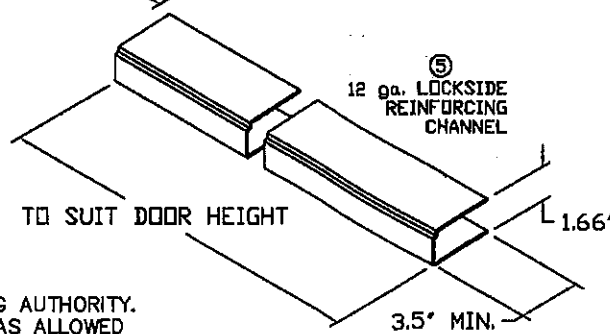
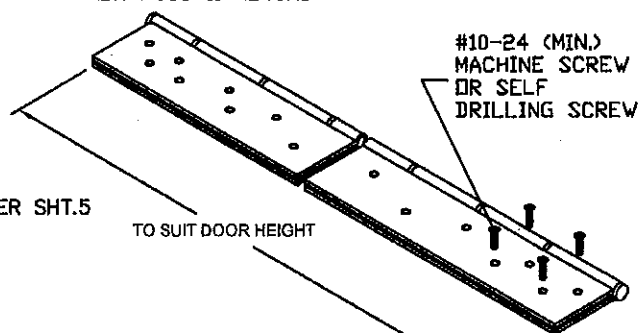
NOTES:

- ONE ROW OF PS074 WEATHERSTRIPPING PER JAMB AND HEAD. INSTALL PER SHT.5
- ANCHOR REQUIREMENTS:
SEE SHEET 4 FOR APPROVED ANCHORS AND INSTALLATION.
- HINGE REQUIREMENTS: 4.5" STD. WT. MIN.
FOR DOOR OPENING UP TO 90" HIGH - MIN (3) HINGES
FOR DOOR OPENING OVER 90" - 96" HIGH - MIN (4) HINGES
STD LOCATIONS: 9.75" FROM RABBIT IN HEAD TO CL OF TOP HINGE
10.38" FROM FLOOR TO CL OF BOTTOM HINGE, EQUALLY SPACED
IN BETWEEN, HINGE LOCATIONS MAY VARY, MAX SPACING DO NOT EXCEED 35.5"
- APPROVED CONTINUOUS HINGE MODELS: IVES 112 HD, 224HD, 600, 700, MARKAR FM-300, HG-305, STANLEY 661HD, HAGER 780-224HD, 790-900, SELECT SL11HD, ABH A500 & A240HD
- SEE SHEET 2 & 3 FOR AVAILABLE STANDARD OPENING SIZES AND SPECIFICATIONS.
- HARDWARE INSTALLATION AS PER MANUFACTURER'S INSTRUCTIONS.
- 4" FACE HEAD IS AVAILABLE FOR FRAMES.
- APPLY CAULK AS NEEDED.
- WEATHERSTRIPPING, SEE SHEET 5.
-WHEN WATER INFILTRATION IS NOT NEEDED INSTALL WEATHERSTRIPPING PER SHT.5.
-ONE ROW OF PS074 WEATHERSTRIPPING PER JAMB AND HEAD.
-WHEN WATER INFILTRATION IS REQUIRED - INSTALL PER SHT.5.
- SEE SHEET 10 FOR SECTION A-A, SEE SHEET 11 FOR SECTIONS B-B.
- ELECTRICAL INSTALLATION IS UNDER SEPARATE APPROVAL AND MUST BE REVIEWED BY CORRESPONDING AUTHORITY.
- OPTIONAL POWER TRANSFERS, MONITORING SWITCHES, SUPPLEMENTAL MAGNETIC LOCKS MAY BE USED AS ALLOWED BY CODE AND IT DOES NOT EFFECT THE MECHANICAL PROPERTIES OF EXIT DEVICE AND/OR INHIBIT EGRESS.
- ITEMS 18 THROUGH 22 REQUIRED ONLY IF WATER INFILTRATION IS NEEDED.



- (8) BUTT HINGE
MIN SIZE 4.5" X 4.5" STD. WT. (.134" MIN.)
IVES 5BB1/3CB1
HAGER 1279
STANLEY F179/1900

- (9) CONTINUOUS HINGE
IVES 112HD, 224HD, 600 & 700 SERIES
STANLEY 661HD
SELECT SL11HD
HAGER 790-900 & 780-224HD
MARKAR FM-300 & HG305
ABH A500 & A240HD



Gordon Thomas, P.E.
3759 Blossom Court
Mason, OH 45040
Florida # 46718

Date

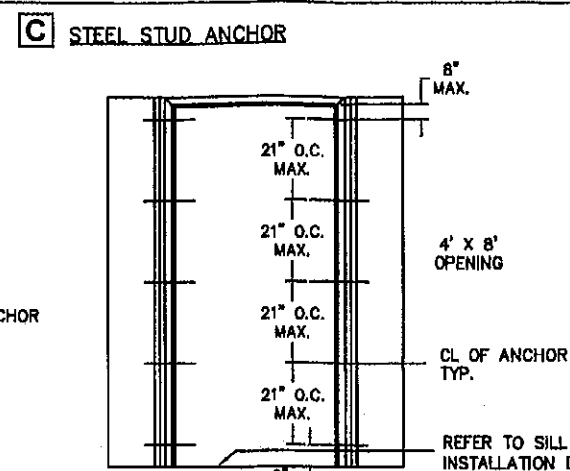
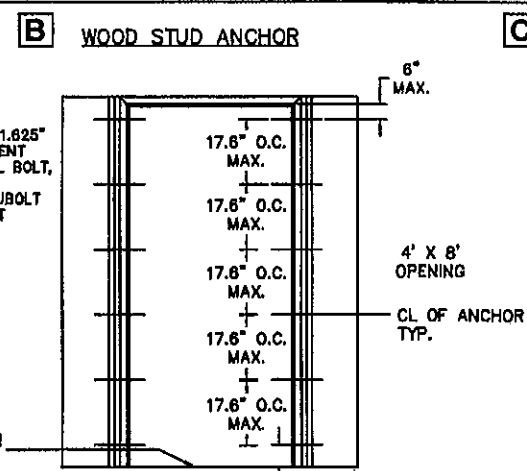
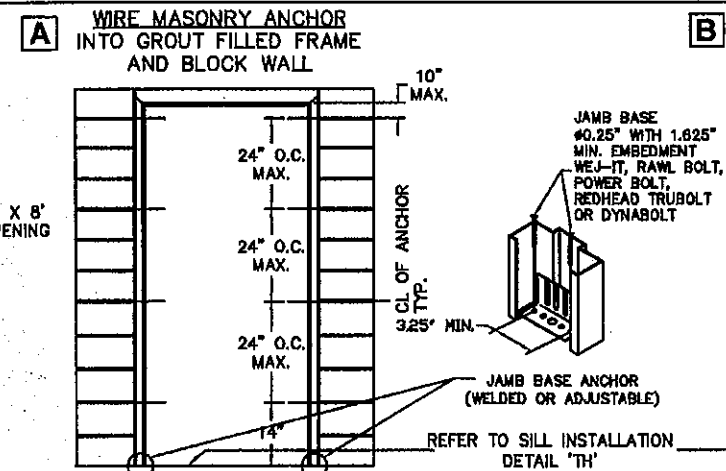
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 10-0209-07
Expiration Date MAY 5 2015
By Ishag L. Chandy
Miami Dade Product Control
Division

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 12-0305-14
Expiration Date 5/5/18
By Ishag L. Chandy
Miami Dade Product Control
Division

TABLE 2.

	QUANTITY	DESCRIPTION	MATERIAL	SIZE
1	1	HEAD SEE SHT 6 ASTM A366	.053" MIN. STL	MAX. 48'
2	1	STRIKE JAMB SEE SHT. 6 ASTM A366	.053" MIN. STL	MAX. 100'
3	1	HINGE JAMB SEE SHT 6 ASTM A366	.053" MIN. STL	MAX. 100'
4	1	LOCK SIDE REINFORCEMENT CHANNEL	.093" MIN. STL	3.5 X 93.44 MAX
5	1	HINGE SIDE PANIC REINFORCEMENT	.067" MIN. STL	MAX. 20'
6	NOTE 3.	HINGE REINFORCEMENT DOOR ASTM A621	.167" MIN. STL.	1.28" X 9.19"
7	NOTE 3.	HINGE REINFORCEMENT FRAME ASTM A621	.167" MIN. STL.	1.3" X 9.187" MAX.
8	NOTE 3.	4.5' X 4.5' BUTT HINGES	.134 MIN.	(8) #12-24 MS PER HINGE
		OPTIONAL CONTINUOUS HINGE	.067" MIN. STL/.12 ALUM	MAX. 95"
9	1	CORE MATERIAL (SHT. 4) A) HONEYCOMB B) STEEL STIFFENED C/F) POLYSTYRENE D/F) POLYURETHANE/POLYISOCYANURATE		
10	1	LOCKING HARDWARE - SEE SHEET 2, TABLE 1		
11	1	THRESHOLD SILL W/BUMPER GASKET	.100" ALUM. 6063 T5	5.50"X0.5"X48"MAX.
		1) ZERO INT'L 566 2) NATIONAL GAURD 950 SEE SHT. 5		
12	NOTE 2.	JAMB ANCHOR ASTM A924	SEE SHEET 4	
13	3	PS074 WEATHER STRIPPING	TPE	MAX. 24'
14	1	FAS-SEAL DOOR SWEEP	TPE	MAX. 47.66'
15	1	END CHANNEL ASTM A924 (14 GA - INVERTED)		.69" X 1.66" X 47.66" MAX.
16	AS NEEDED	BUTYL RUBBER OR 100% SILICONE		
17	1	DOOR SLAB (16 OR 14 GA)	SEE SHEET 6	4' X 8' MAX.
18	1	BY ZERO INT'L DOOR SEAL No.8144FS	TPE	MAX. 24'
		BY STEELCRAFT DOOR SEAL PS074		
19	2	BY ZERO INT'L DOOR SWEEP No.539		
		BY NGP DOOR SWEEP No.202N		
20	1	BY ZERO INT'L DOOR SWEEP No.139	SEE SHEET 5	MAX. 48'
		BY NGP OMIT		
21	1	BY ZERO INT'L ADJUSTABLE STOP No.475	TPE	MAX. 48'
		BY NGP ADJUSTABLE STOP No.170N		
22	1	BY ZERO INT'L RAIN DRIP No.11		
		BY NGP DRIP CAP No.16A	SEE SHEET 5	MAX. 48'
23	1	TOP CAP GALV. A60 ASTM A924	.020" MIN. STL	0.5" X 1.76" X 48" MAX.

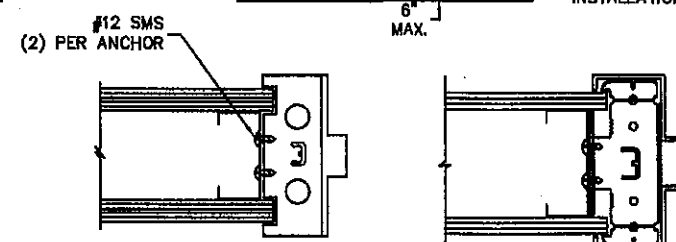
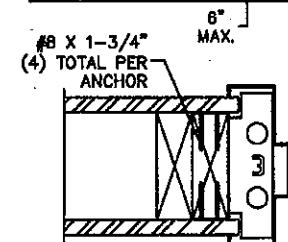
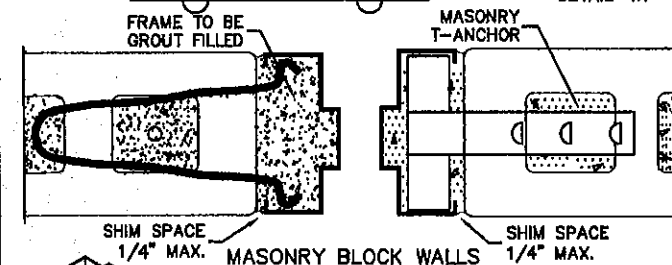
BEND RADIUS		Ingersoll Rand Security Technologies	
THIRD ANGLE PROJECTION			
DRAWN YMF	DATE 05/20/07	TITLE: MIAMI-DADE PRODUCT APPROVAL	
CHECKED		H-SERIES FLUSH SINGLE DOORS (OUTSWING) IR HARDWARE	
APPROVED		SIZE FLAT	DWG NO. IRFS07
ENG. APPVL JPD	10/11/07	SCALE NTS	AUTOCAD
		SHEET 3 of 11	REV H



PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. **10-0209.07**
Expiration Date **MAY 5, 2015**
By **Isaac I. Chanda**
Miami Dade Product Control
Division

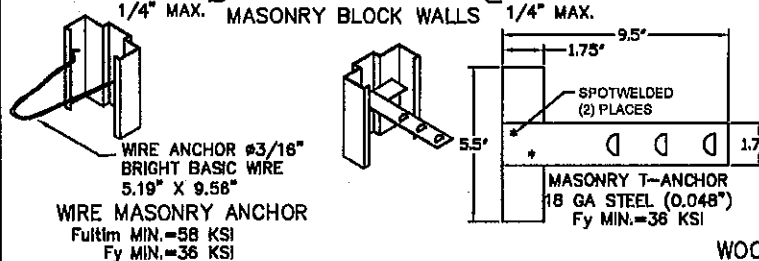
REVISIONS				
LTR	DESCRIPTION	DATE	APPROVED	
A	APPROVAL DWG	YMF	05/20/07	
C	REVISED DWG	RAP	12/10/07	
D	REVISED DWG	YMF	01/04/08	
F	REVISED DWG	YMF	06/02/08	
G	REVISED DWG	YMF	03/03/09	
H	REVISED DWG	YMF	04/07/10	

SEE DETAIL 'V'



*WOOD STUD WALLS
SEE NOTE 1.

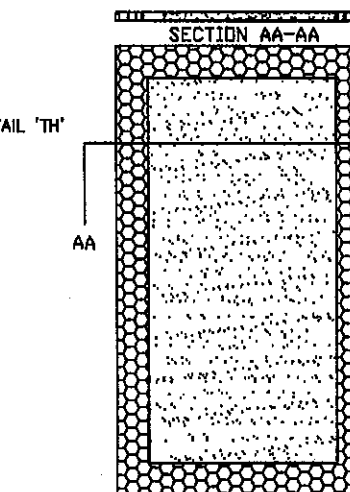
*STEEL STUD WALLS. SEE NOTE 1.



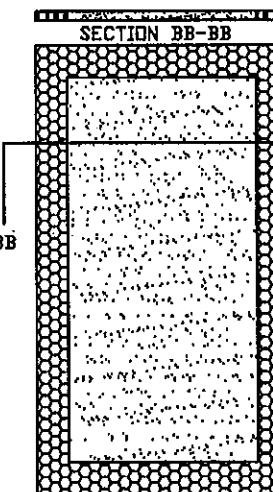
WOOD STUD OR UNIVERSAL ANCHOR
(LOCK-IN OR WELD-IN)

STEEL STUD ANCHOR
WELD-IN OR LOCK-IN

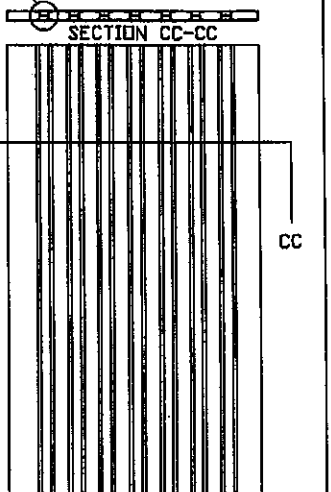
UNIVERSAL ANCHOR
WELD-IN OR LOCK-IN



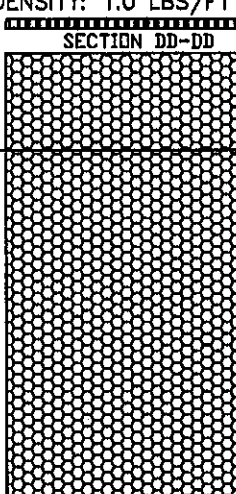
(A) EXPANDED POLYSTYRENE FOAM
HUNTSMAN CHEMICAL CORP.
GRADES 54 AND 86
BY ELFOAM. DENSITY: 2 LBS/FT³
DENSITY: 1.0 LBS/FT³



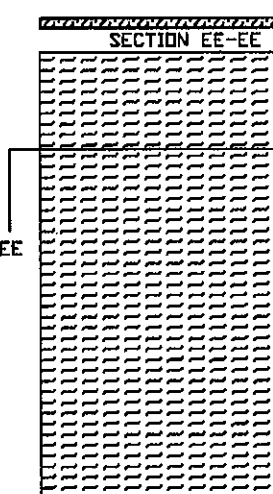
(B) POLYSOCYANURATE H200
(POLYURETHANE)
BY ELFOAM. DENSITY: 2 LBS/FT³



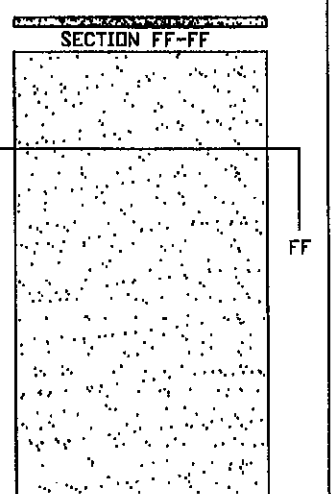
(C) STEEL STIFFENED
HAT SHAPED SECTIONS
22 GA. MIN.



(D) HONEYCOMB
KRAFT PAPER.

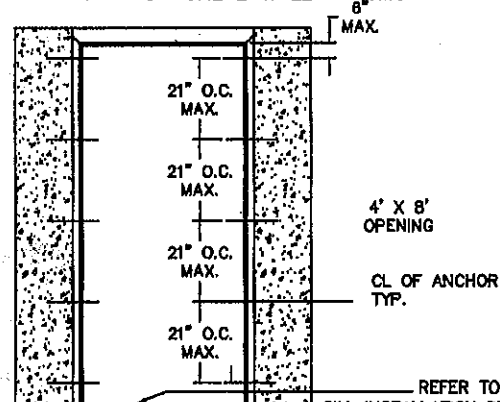


(E) TEMPERATURE RISE CORE
MINERAL FIBER BOARD
DENSITY: 17±1.5 LBS/FT³

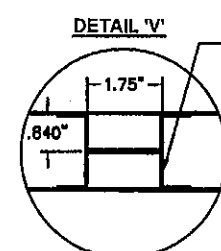
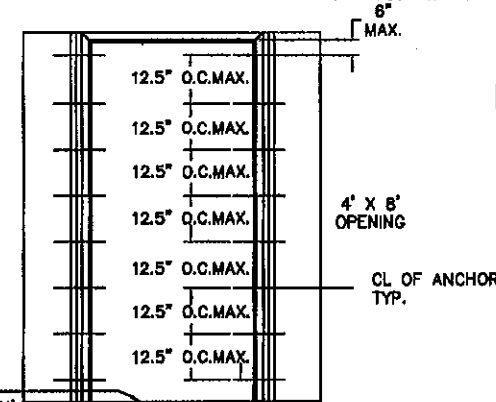


(F) EXPANDED POLYSTYRENE FOAM
GRADES 54/86. DENSITY: 1.0 LB/FT³
OR POLYSOCYANURATE H200
BY ELFOAM. DENSITY: 2 LBS/FT³

D EXISTING MASONRY ANCHOR (EMA)
INTO CONCRETE WALL OR CMU

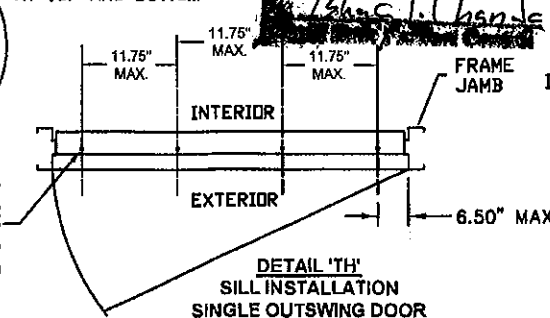


E EXISTING MASONRY ANCHOR (EMA)
WITH LAG BOLT INTO WOOD STUD WALL



HAT SHAPED STIFFENERS
SPOTWELDED 6\"/>

1/4\"/>



Signature
Date 4/14/10
Gordon Thomas, P.E.
8790 Broom Court
Mason, OH 45040
Florida # 48718

NOTES:
1. (*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR ASSEMBLIES RATED @75 PSF, AND 416 #/FT. FOR ASSEMBLIES RATED @100 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
3. CORE MATERIAL, SHOWN WITHOUT DOOR CUTOUTS AND REINFORCEMENTS.
4. APPLY CAULK AS NEEDED.
5. FOR SILL INSTALLATION AND ANCHORING SEE SHT 3.
6. FRAME SILL SECTION ANCHORING IS PER SHT.3 & 4.

BEND RADIUS	
THIRD ANGLE PROJECTION	
DRAWN	YMF
CHECKED	
APPROVED	
ENG. APPVL	JPD
DATE	10/11/07

IR Ingersoll Rand	
Security Technologies	
TITLE MIAMI-DADE PRODUCT APPROVAL	
FRAME ANCHOR DETAILS & INSTALLATION DOOR CORE OPTIONS.	
SIZE	FLAT
DWG NO.	IRFS07
SCALE	NTS
AUTOCAD	
SHEET	4 of 11
REV	H

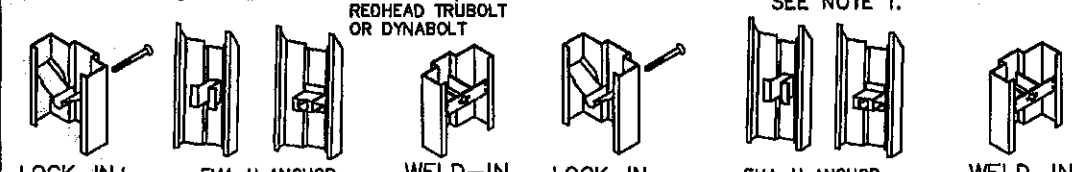
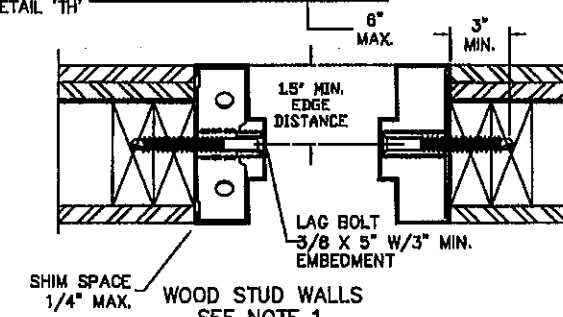
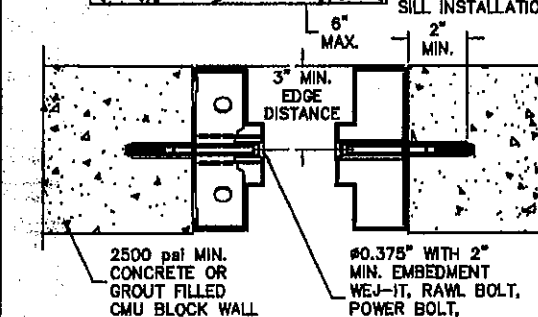


TABLE 3.

PERIMETER SEAL HARDWARE WHEN WATER INFILTRATION REQUIREMENT DOES APPLY					
ITEM NUMBER SHT 3. TABLE 2	DESCRIPTION	ALLOWABLE DESIGN PRESSURE, PSF, UP TO*	MODEL No./ MANUFACTURER	PART DETAIL	INSTALL PER DETAIL
11	THRESHOLD	+75	566/ZERO INT'L	'T1'	'P1'
			950/NGP	'T2'	'P2'
14	FAS-SEAL SWEEP	+75	STEELCRAFT	'S'	'P1' & 'P2'
18 OR 13	SELF ADHESIVE DOOR SEAL	+75	8144F/ZERO INT'L	'U'	'M' & 'N'
			PS074/STEELCRAFT	'Q'	
19	DOOR SWEEP	+75	539/ZERO INT'L	'W1'	'N'
			202N/NGP	'W2'	
20	DOOR SWEEP	+75	139/ZERO INT'L	'X'	'P1'
21	ADJUSTABLE STOP	+75	475/ZERO INT'L	'Y1'	'M'
			170N/NGP	'Y2'	
22	RAIN DRIP CAP	+75	11/ZERO INT'L	'Z1'	'P1'
			16A/NGP	'Z2'	'P2'
23	DOOR TOP CAP	+75	STEELCRAFT	'R'	'M'

TABLE 4.

PERIMETER SEAL HARDWARE WHEN WATER INFILTRATION REQUIREMENT DOES NOT APPLY					
ITEM NUMBER SHT 3. TABLE 2	DESCRIPTION	MODEL No. MANUFACTURER	PART DETAIL	INSTALL PER DETAIL	
11	THRESHOLD	566 BY ZERO INT'L	'T1'	'K'	
		950 BY NATIONAL GUARD	'T2'		
14	FAS-SEAL DOOR SWEEP	STEELCRAFT	'S'	'K'	
13	PS-074 SELF ADHESIVE WEATHERSTRIPPING	STEELCRAFT	'Q'	'J' & 'L'	
23	DOOR TOP CAP	STEELCRAFT	'R'	OPTIONAL	

* - SEE ELEVATION SHEET 1 FOR DESIGN PRESSURE RATINGS

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 10-0209-07
Expiration Date MAY 5 2015
By *Shag L. Chavira*
Miami Dade Product Control
Division

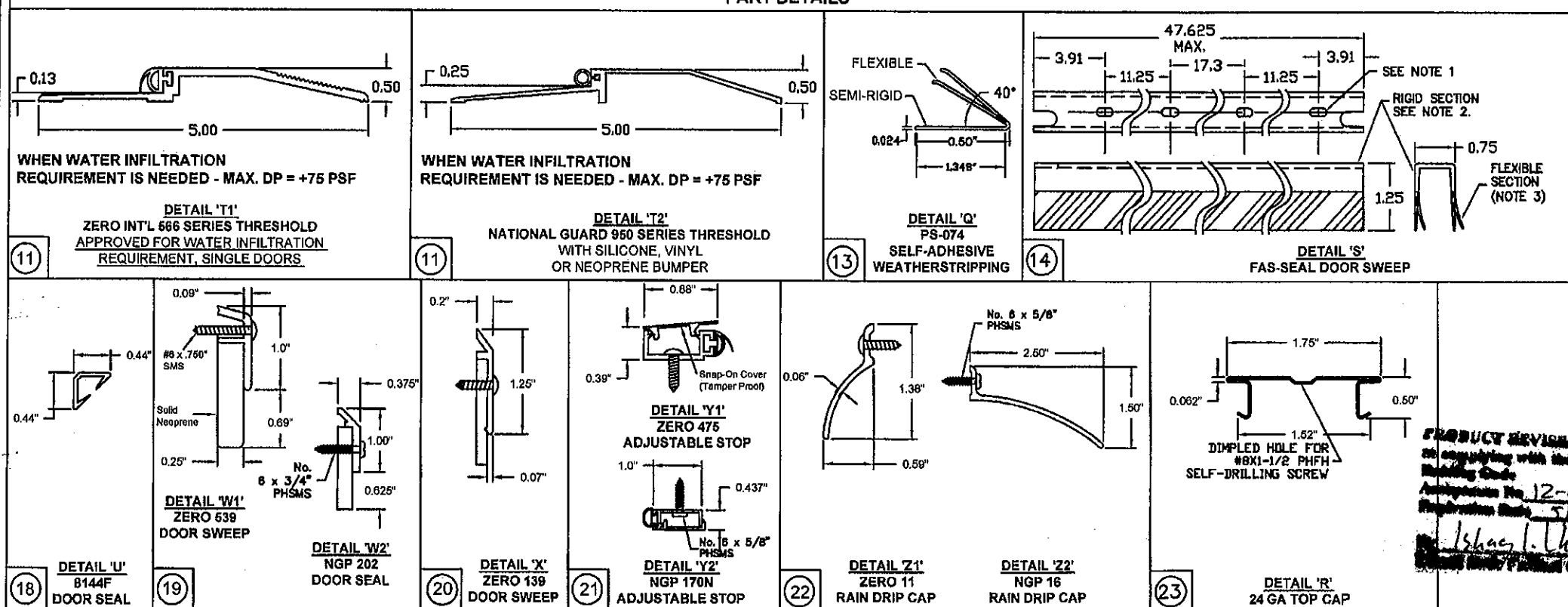
REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	YMF	05/20/07
B	REVISED DWG	RAP	10/11/07
C	REVISED DWG	RAP	12/10/07
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E	REVISED DWG	YMF	04/03/08
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G	REVISED DWG	YMF	03/03/09
H	REVISED DWG	YMF	04/07/10

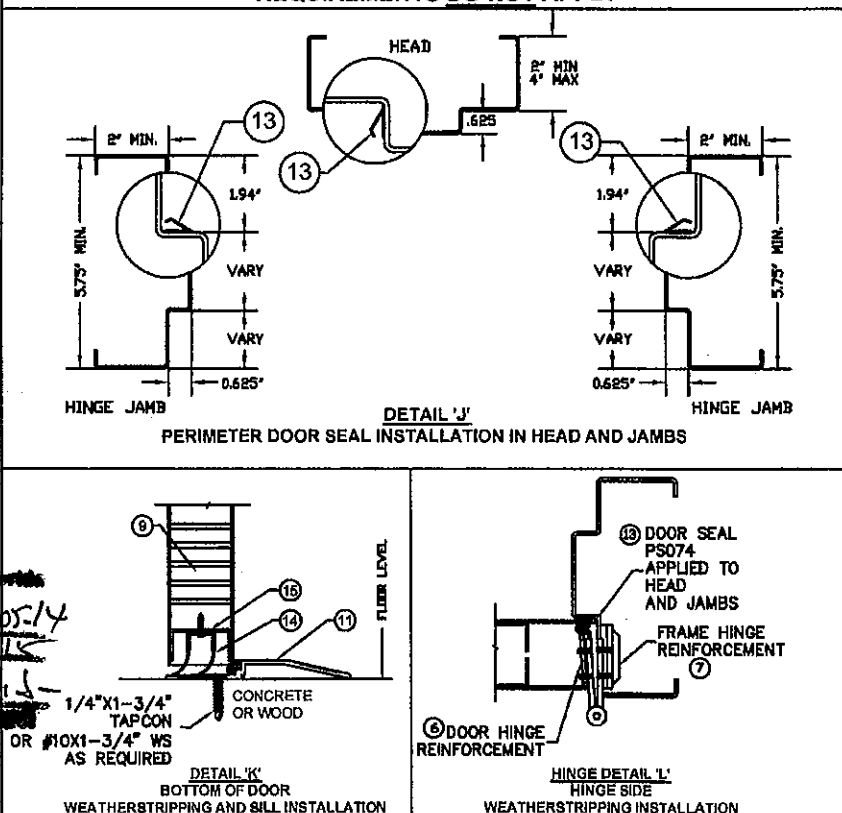
NOTES:

1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-199 POLYPROPYLENE HOMOPOLYMER.
3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73
4. FAS-SEAL DOOR SWEEP (14), AND THRESHOLD (11) ARE REQUIRED FOR ALL INSTALLATIONS.

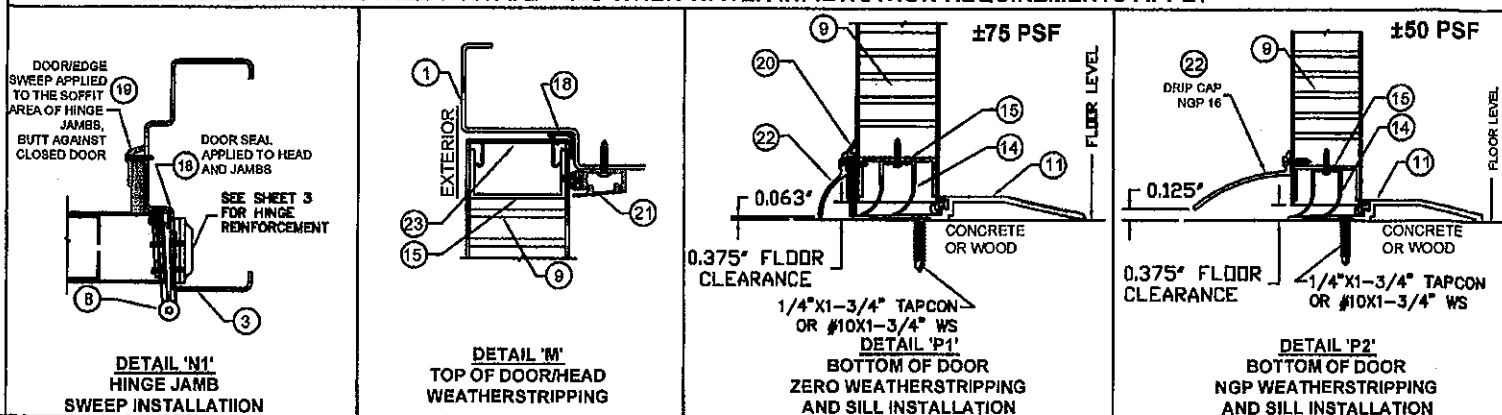
PART DETAILS



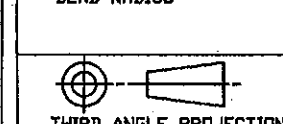
PERIMETER SEAL INSTALLATION DETAILS WHEN WATER INFILTRATION REQUIREMENTS DO NOT APPLY



PERIMETER SEAL INSTALLATION DETAILS WHEN WATER INFILTRATION REQUIREMENTS APPLY



BEND RADIUS



THIRD ANGLE PROJECTION

DRAWN YMF

CHECKED

APPROVED

ENG. APPVL JPD

DATE 05/20/07

10/11/07



Ingersoll Rand

Security Technologies

TITLE MIAMI-DADE PRODUCT APPROVAL

SINGLE FLUSH DOOR PERIMETER SEAL HARDWARE.

SIZE

FLAT

DWG NO.

IRFS07

REV

H

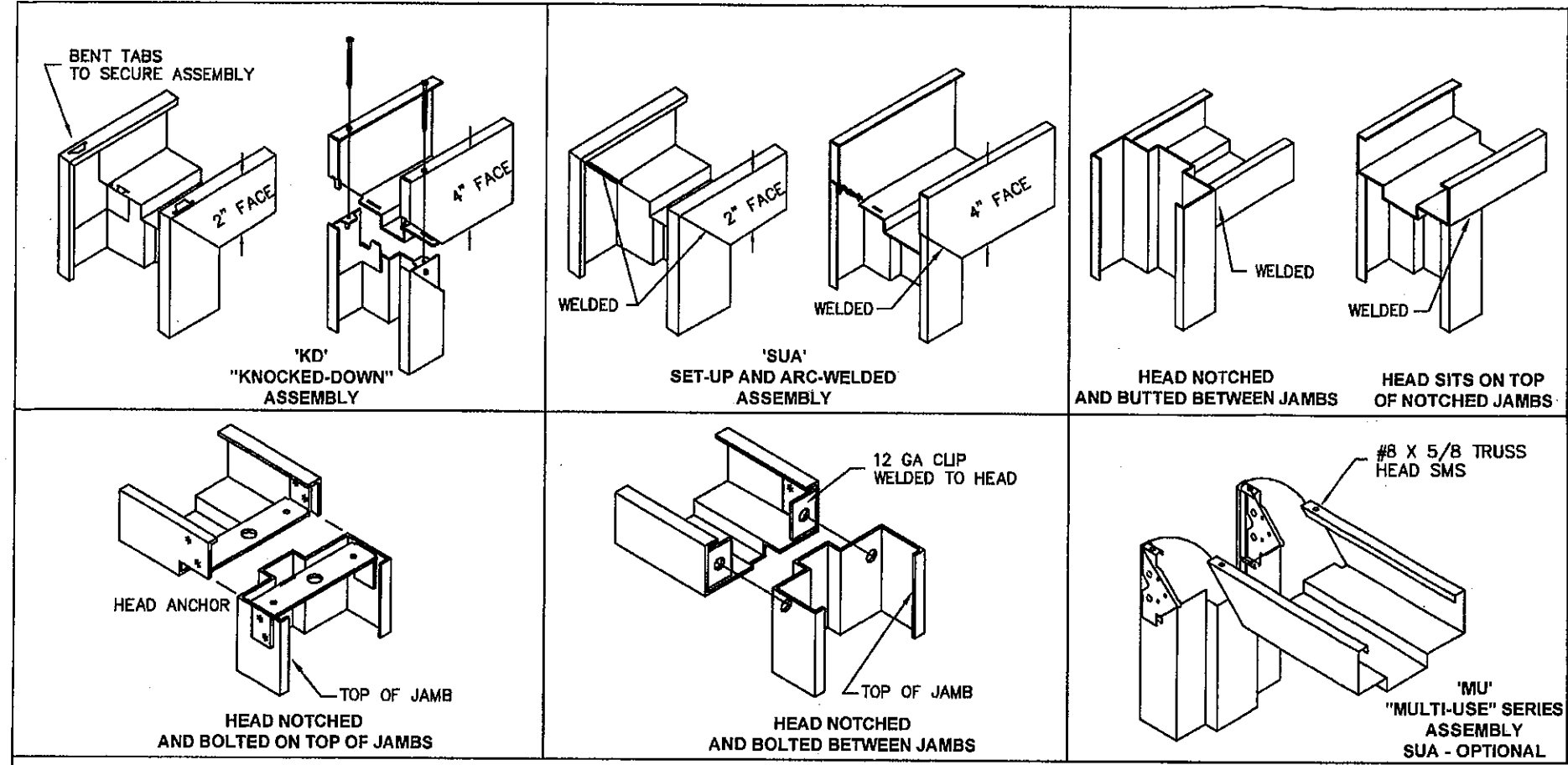
SCALE

NTS

AUTOCAD

SHEET

5 of 11



REVISIONS				
LTR	DESCRIPTION		DATE	APPROVED
A	APPROVAL DWG	YMF	05/20/07	
B	REVISED DWG	RAP	10/11/07	
C	REVISED DWG	RAP	12/10/07	
D	REVISED DWG	YMF	01/08/08	
E	REVISED DWG	YMF	04/08/08	
F	REVISED DWG	YMF	06/03/08	
G	REVISED DWG	YMF	03/03/09	
H	REVISED DWG	YMF	04/07/10	

TABLE 5. AVAILABLE DOOR CONFIGURATIONS

CORE MATERIAL PER SHT.4	MAXIMUM OPENING SIZE		SKIN MATERIAL	
	WIDTH	HEIGHT	DESCR.	G.A./MIN. THK
HONEYCOMB POLYSTYRENE POLYURETHANE (POLYISOCYANURATE) TEMPERATURE RISE STEEL STIFFENED	VARIES SEE SHEET 2 TABLE 1		CRS GALV	16/.053" 14/.067"
HONEYCOMB POLYSTYRENE POLYURETHANE	VARIES SEE SHEET 2 TABLE 1		STAINLESS STEEL	16/.053"

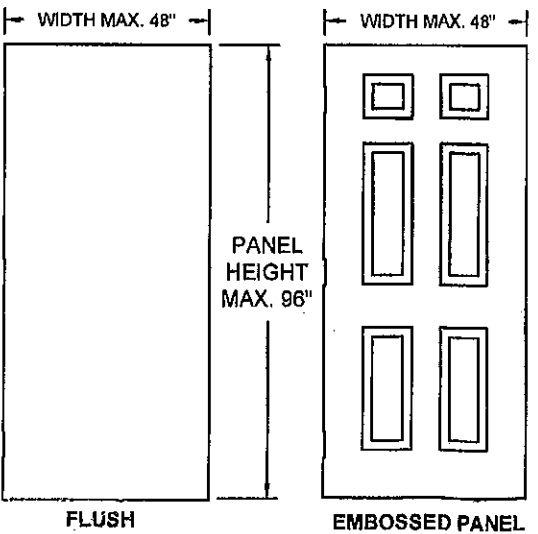
TABLE 6. AVAILABLE FRAME CONFIGURATIONS

FRAME SERIES	JAMB DEPTH	MAX. OPENING SIZE		MATERIAL	
		WIDTH	HEIGHT	DESCR.	G.A./MIN. THK
F	5.75" MIN.	VARIES SEE SHEET 2 TABLE 1		CRS/HRS GALV	16/.053" 14/.067" 12/.099"
				STAINLESS STEEL	16/.053"
MU	5.75" MIN.	VARIES SEE SHEET 2 TABLE 1		CRS/HRS GALV	16/.053" 14/.067"

TABLE 7. STEEL MECHANICAL PROPERTIES

MATERIAL	ASTM REF.	YIELD KSI	TENSILE KSI
CRS	A1008	MIN. 30.1	MIN. 44.7
HRS	A1011		
GALV: A60	A924	MIN. 31.2	MIN. 73.2
SS: 304,306	A240		

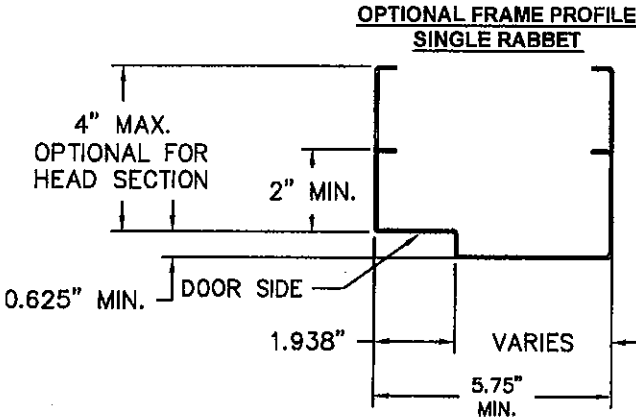
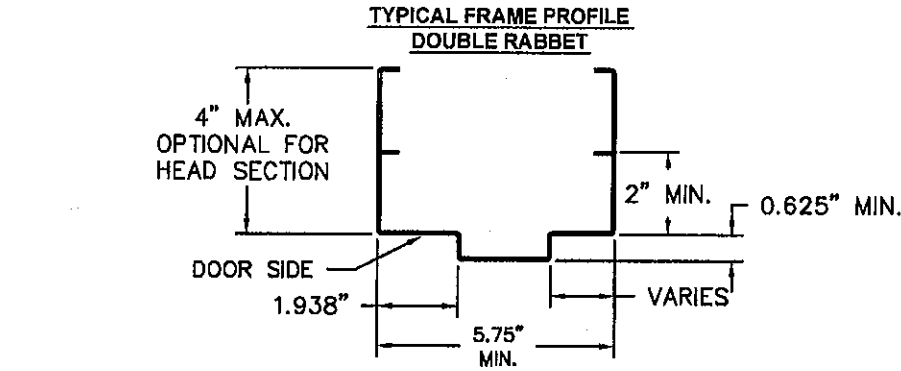
AVAILABLE DOOR PANEL CONFIGURATIONS



PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 12-0305-14
Expiration Date 5/5/15
By: Ishag I. Lhanda
Miami Dade Product Control

NOTES:

- DOOR CONSTRUCTION
1.1. MINIMUM DOOR THICKNESS - 1 3/4"
1.2. DOOR SIZE MAY VARY, SUBJECTED TO COMPLIANCE WITH FLORIDA BUILDING CODE AND PRODUCT AVAILABILITY FROM MANUFACTURER (SEE SHEET 2 FOR AVAILABLE HARDWARE)
- FRAME CONSTRUCTION
1.1. MINIMUM JAMB DEPTH - 5 3/4", STOP HEIGHT - 5/8"
2.2. FRAMES AVAILABLE AS FLUSH (F-SERIES) AND MULTI-USE (MU-SERIES) (SEE TABLE 6)
- FOR MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 7.



[Signature] 4/14/10
Gordon Thomas, P.E. Date
3758 Blossom Court
Mason, OH 45040
Florida #46718

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 10-0209-07
Expiration Date MAY 14, 2015
By: Ishag I. Lhanda
Miami Dade Product Control
Division

BEND RADIUS	
THIRD ANGLE PROJECTION	
DRAWN YMF	DATE 05/20/07
CHECKED	
APPROVED	
ENG. APPVL JPD	10/11/07

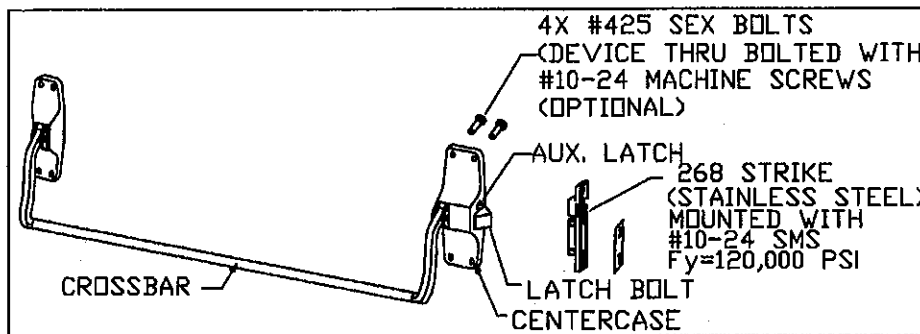


Ingersoll Rand
Security Technologies

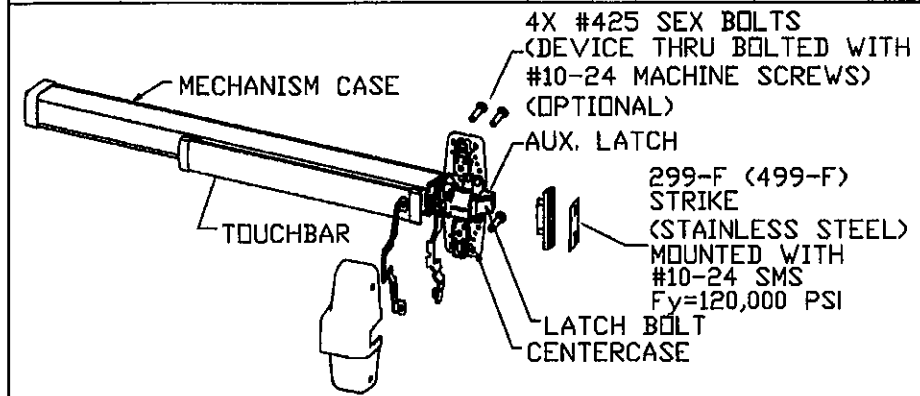
TITLE MIAMI-DADE PRODUCT APPROVAL

FRAME PROFILE, CORNER DETAILS AND DOOR FRAME
MATERIAL, AND SIZE OPTIONS

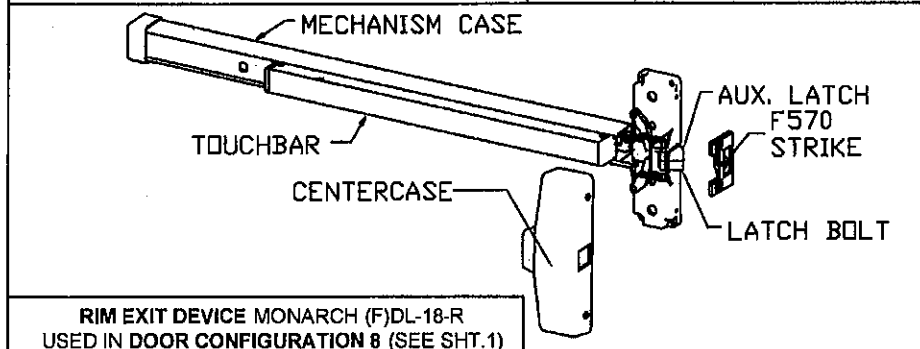
SIZE	FLAT	DWG NO.	REV
		IRFS07	H
SCALE: NTS AUTOCAD		SHEET 6 of 11	



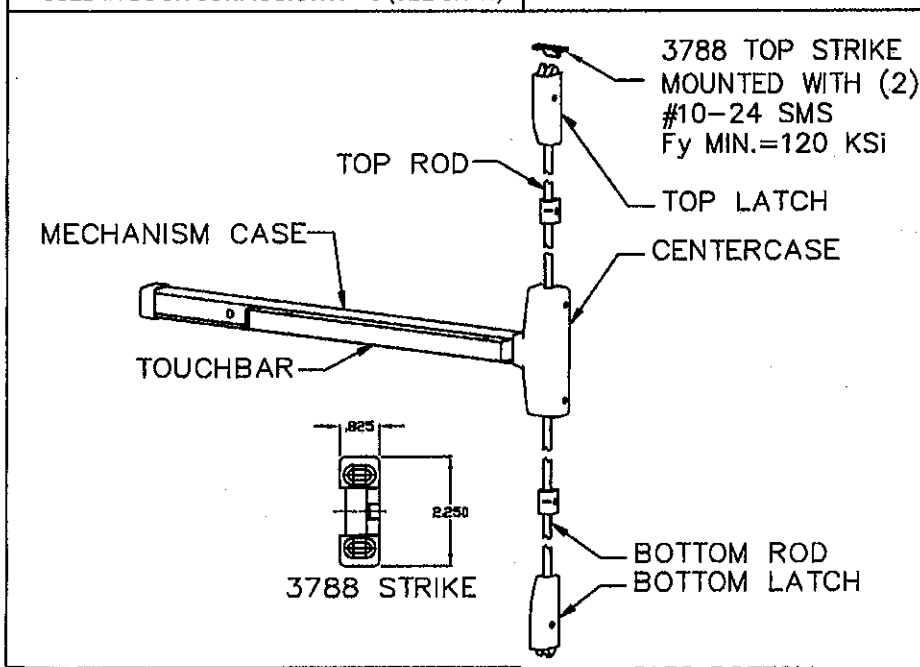
RIM EXIT DEVICE VON DUPRIN 88-F
USED IN DOOR CONFIGURATION 8 (SEE SHT.1)



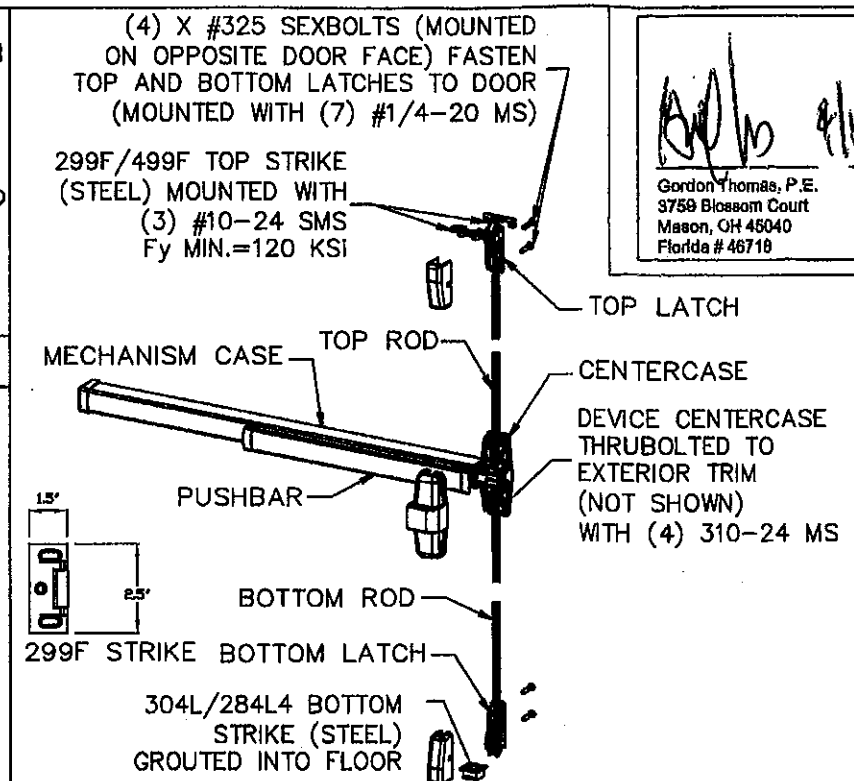
RIM EXIT DEVICE VON DUPRIN 98/99(F)
USED IN DOOR CONFIGURATION 8 (SEE SHT.1)



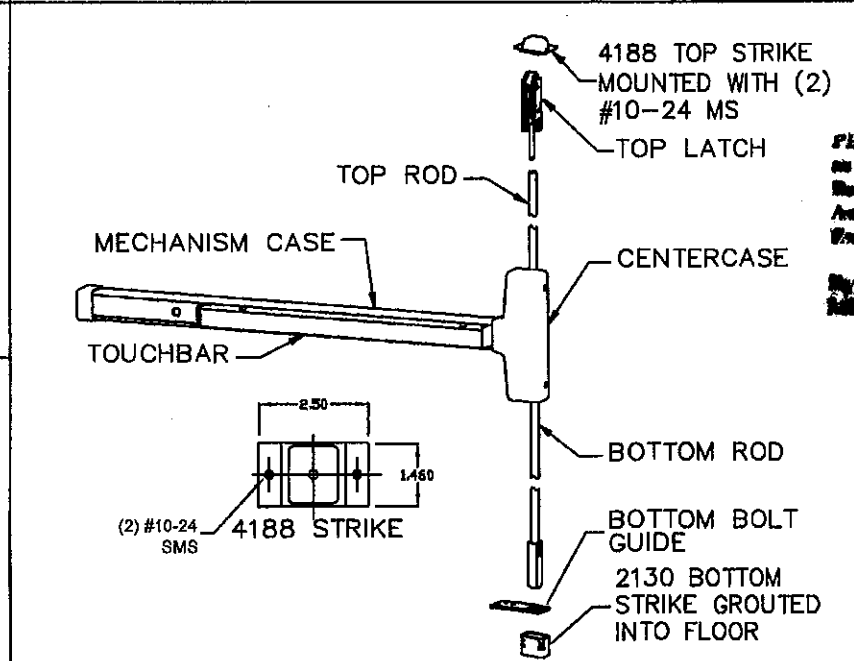
RIM EXIT DEVICE MONARCH (F)DL-18-R
USED IN DOOR CONFIGURATION 8 (SEE SHT.1)



SURFACE VERTICAL ROD EXIT DEVICE
MONARCH (F)18-V
USED IN DOOR CONFIGURATION 5 (SEE SHT.1)



SURFACE VERTICAL ROD EXIT DEVICE VON DUPRIN 98/9927(F)
USED IN DOOR CONFIGURATION 5 (SEE SHT.1)



CONCEALED VERTICAL ROD EXIT DEVICE MONARCH F-18-C
USED IN DOOR CONFIGURATION 6 (SEE SHT.1)

EXIT HARDWARE OPTIONS:
FOR 98/99 & XP98/99 SERIES - FUNCTIONS E, RX, LX,
SS, EL, CX, F
TRIMS: ALL APPLICABLE TRIMS AVAILABLE.
FOR 88-F SERIES - FUNCTION E
TRIMS: ALL APPLICABLE TRIMS AVAILABLE.
PN MODEL OFFERED.
FOR 2670 GUARD-X
TRIMS: ALL APPLICABLE TRIMS AVAILABLE.
FOR 18-R, 18-C & 18-V SERIES - FUNCTIONS DL, EA,
HWEA, DE, ELR, F, DM, LM, AE, LK, SM
TRIMS: ALL APPLICABLE TRIMS AVAILABLE.

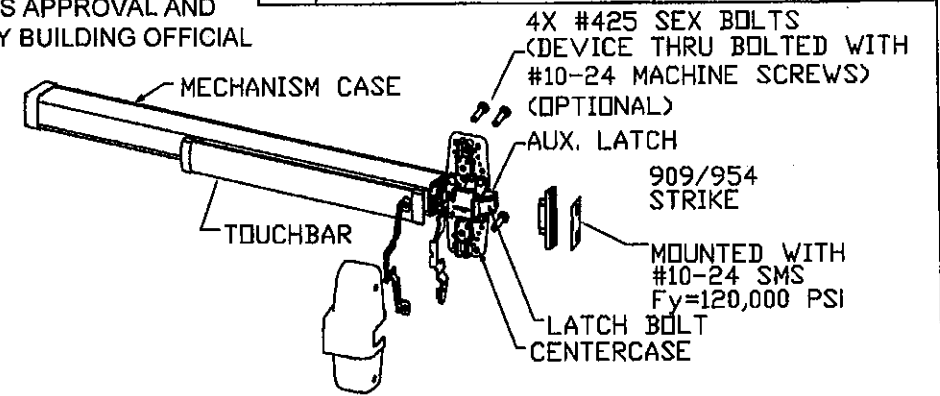
NOTE: ELECTRIC/ELECTRONIC FUNCTION IS NOT PART OF THIS APPROVAL
AND MUST BE REVIEWED BY AUTHORITY HAVING JURISDICTION

[Signature] 8/14/10
Gordon Thomas, P.E.
3750 Blossom Court
Mason, OH 45040
Florida # 46718

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 10-0309.07
Expiration Date MAY 5, 2015
By *[Signature]*
Miami Dade Product Control
Division

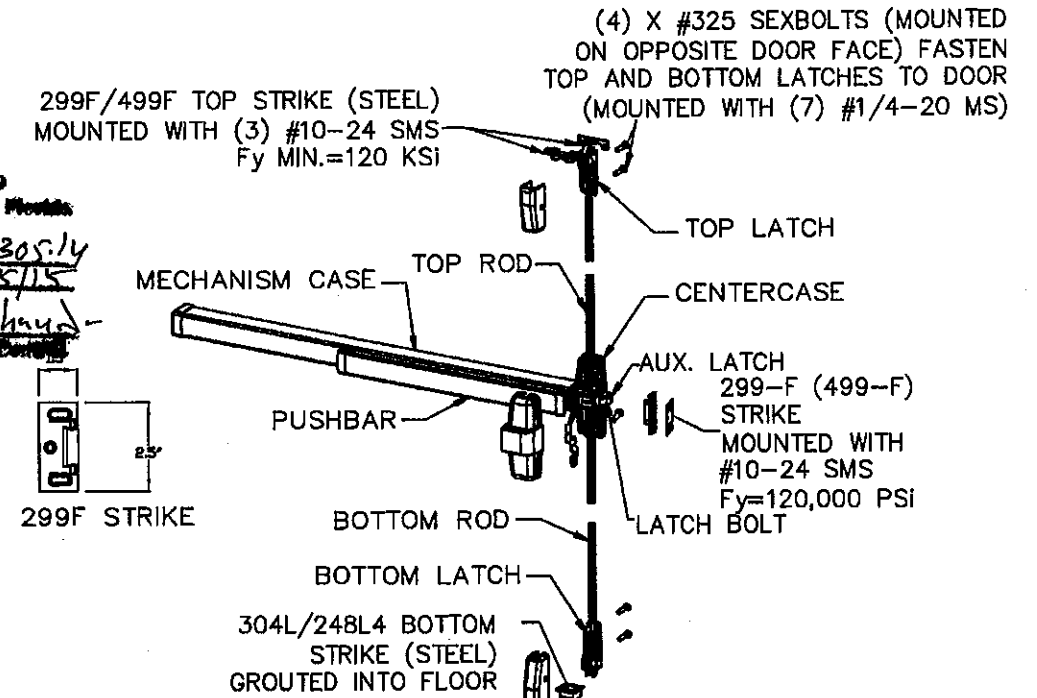
REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
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B	REVISED DWG	RAP	10/11/07
C	REVISED DWG	RAP	12/10/07
D	REVISED DWG	YMF	01/08/08
F	REVISED DWG	YMF	06/03/08
G	REVISED DWG	YMF	03/03/09
H	REVISED DWG	YMF	04/07/10

NOTE:
ELECTRICAL FUNCTIONS/INSTALLATION
IS NOT PART OF THIS APPROVAL AND
TO BE REVIEWED BY BUILDING OFFICIAL

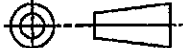


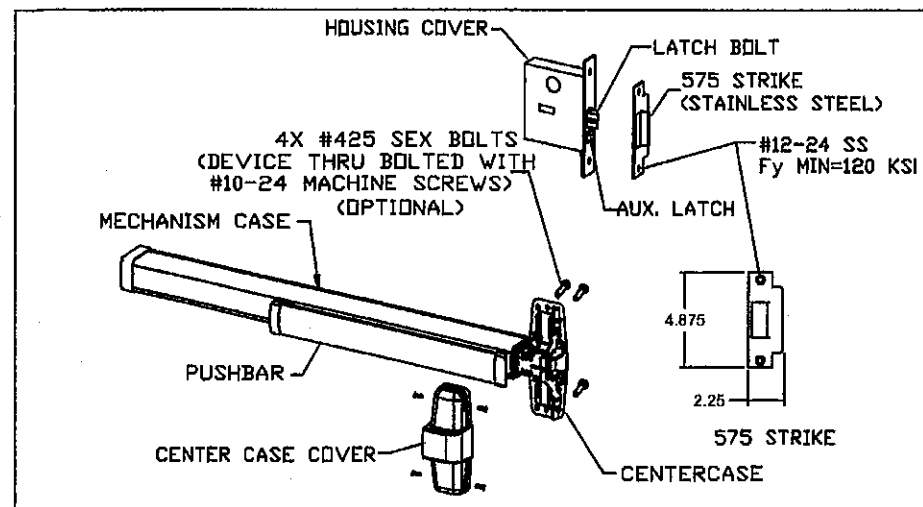
RIM EXIT DEVICE VON DUPRIN XP98/99(F)
USED IN DOOR CONFIGURATION 9 (SEE SHT.1)

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 12-0305.14
Expiration Date 5/5/15
By *[Signature]*
Miami Dade Product Control
Division

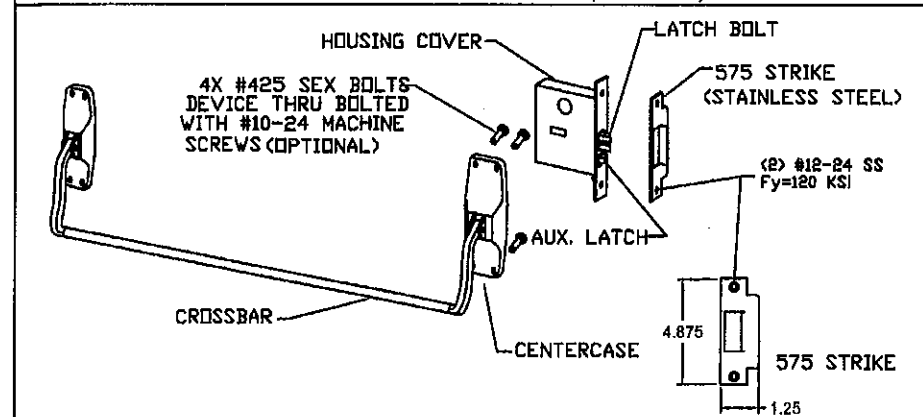


THREE-POINT EXIT DEVICE VON DUPRIN 98/9957(F)
USED IN DOOR CONFIGURATION 7 (SEE SHT.1)

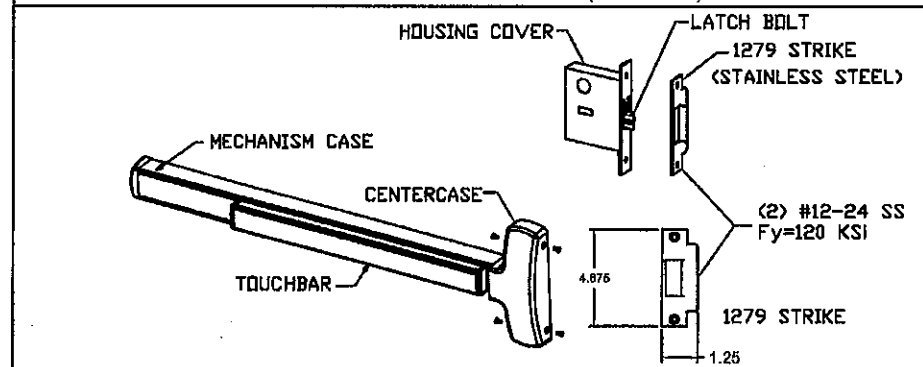
BEND RADIUS		 Ingersoll Rand Security Technologies		TITLE MIAMI-DADE PRODUCT APPROVAL	
					
THIRD ANGLE PROJECTION					
DRAWN	DATE	IR EXIT HARDWARE OPTIONS FOR FLUSH SINGLE DOORS			
YMF	05/20/07				
CHECKED	CDATE	SIZE: FLAT DWG NO. IRFS07			
APPROVED	ADATE				
ENG. APPVL	EDATE	SCALE: NTS AUTOCAD SHEET 7 of 11			
JPD	10/11/07				
		REV H			



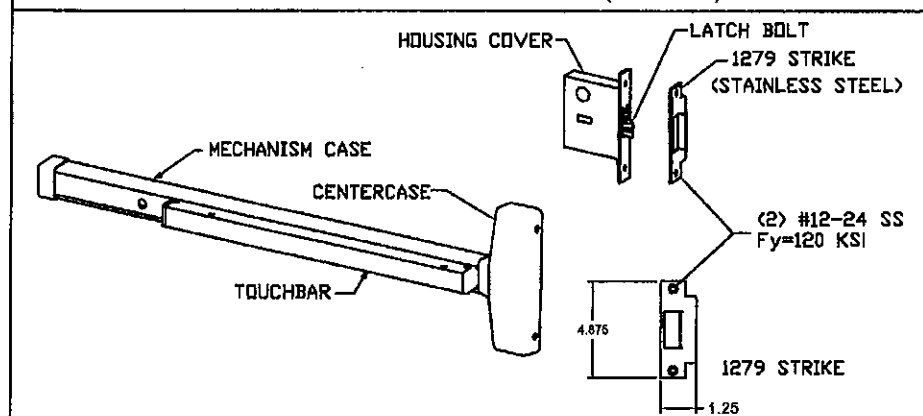
MORTISE EXIT DEVICE VON DUPRIN 98/9975(F)
USED IN DOOR CONFIGURATION 10 (SEE SHT.1)



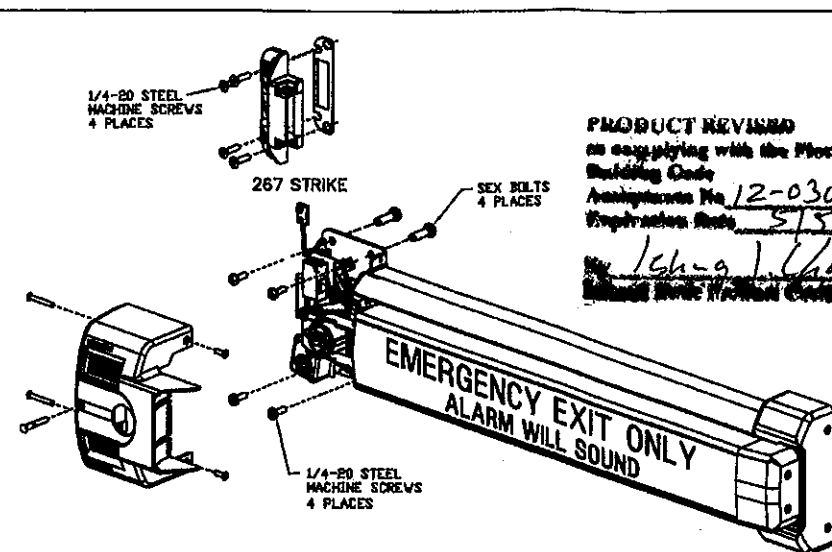
MORTISE EXIT DEVICE VON DUPRIN 8875(F)
USED IN DOOR CONFIGURATION 10 (SEE SHT.1)



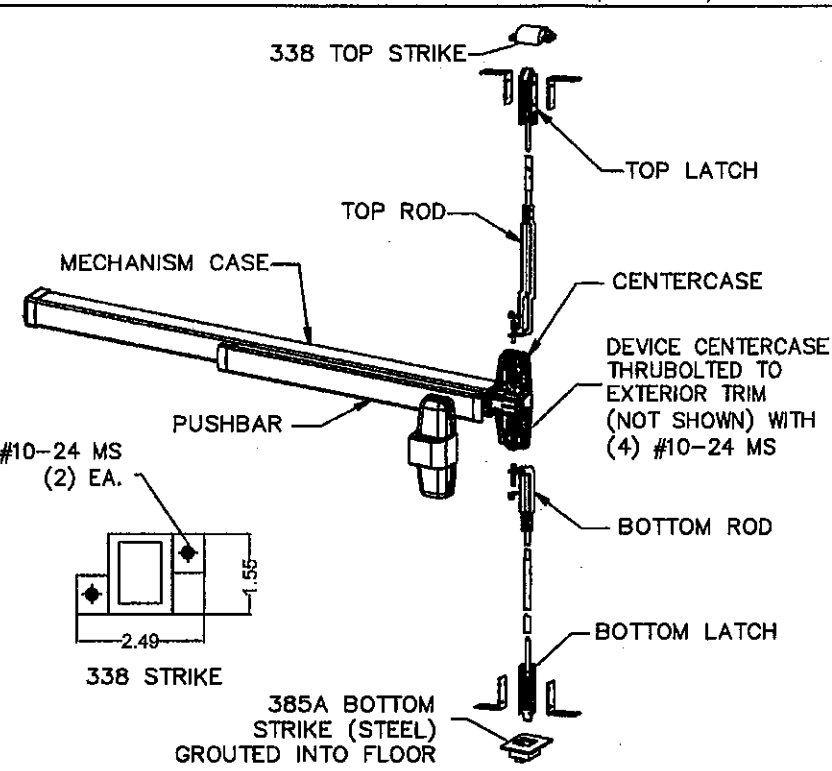
MORTISE EXIT DEVICE FALCON (F)25-M
USED IN DOOR CONFIGURATION 10 (SEE SHT.1)



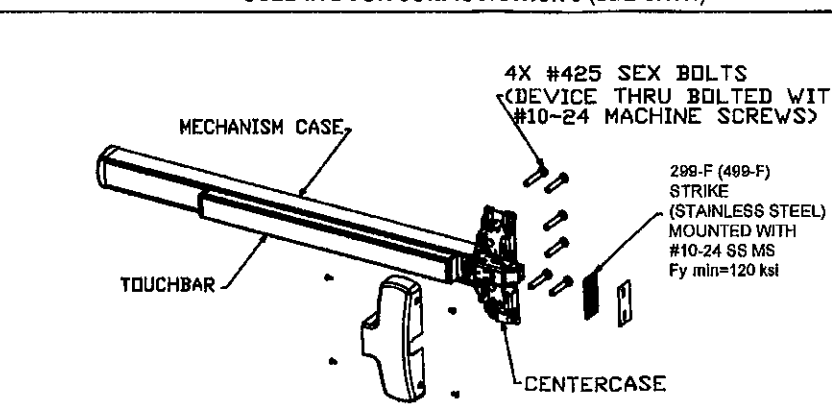
MORTISE EXIT DEVICE MONARCH (F)18-M
USED IN DOOR CONFIGURATION 10 (SEE SHT.1)



EXIT ALARM LOCK VON DUPRIN 2670 GUARD-X
USED IN DOOR CONFIGURATION 11 (SEE SHT.1)



CONCEALED VERTICAL ROD EXIT DEVICE VON DUPRIN 98/9947-F
USED IN DOOR CONFIGURATION 6 (SEE SHT.1)



RIM EXIT DEVICE FALCON (F)25-R
USED IN DOOR CONFIGURATION 13 (SEE SHT.1)

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 10-0202-07
Expiration Date MAY 08, 2015
By Ishag I. Lhanda
Miami Dade Product Control
Division

NOTES:

1. ELECTRICAL FUNCTIONS/INSTALLATION
IS NOT PART OF THIS APPROVAL AND
TO BE REVIEWED BY BUILDING OFFICIAL

2. EXIT HARDWARE OPTIONS:

FOR 98/99 & XP98/99 SERIES - FUNCTIONS E, RX, LX, SS, EL, CX, F
TRIMS: ALL APPLICABLE TRIMS AVAILABLE.

FOR 88-F SERIES - FUNCTION E

TRIMS: ALL APPLICABLE TRIMS AVAILABLE. PN MODEL OFFERED.

FOR 2670 GUARD-X

TRIMS: ALL APPLICABLE TRIMS AVAILABLE.

FOR 18-R, 18-C & 18-V SERIES - FUNCTIONS DL, EA, HWEA, DE, ELR, F, DM, LM, AE, LK, SM

TRIMS: ALL APPLICABLE TRIMS AVAILABLE.

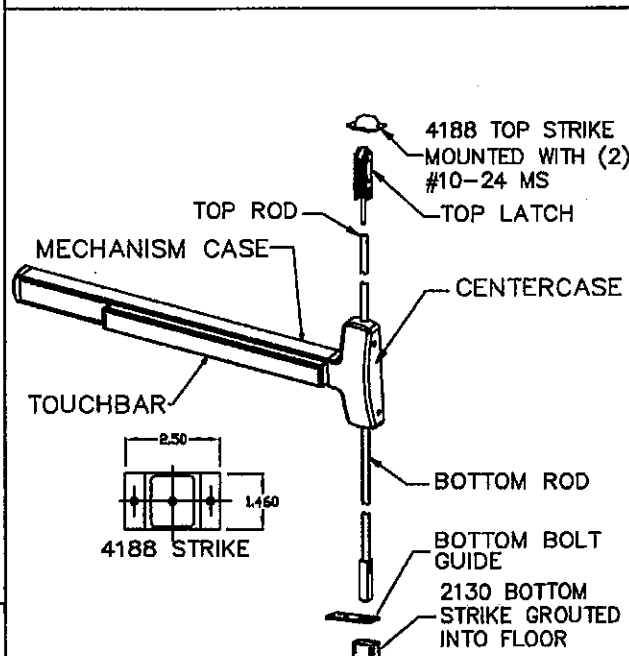
FOR (F)25-R, F-25-C & (F)25-V SERIES - FUNCTIONS AE, DM, LM, LK, KOR, ED, EL, EA, FSA, FSE, HWEA

TRIMS: ALL APPLICABLE TRIMS AVAILABLE.

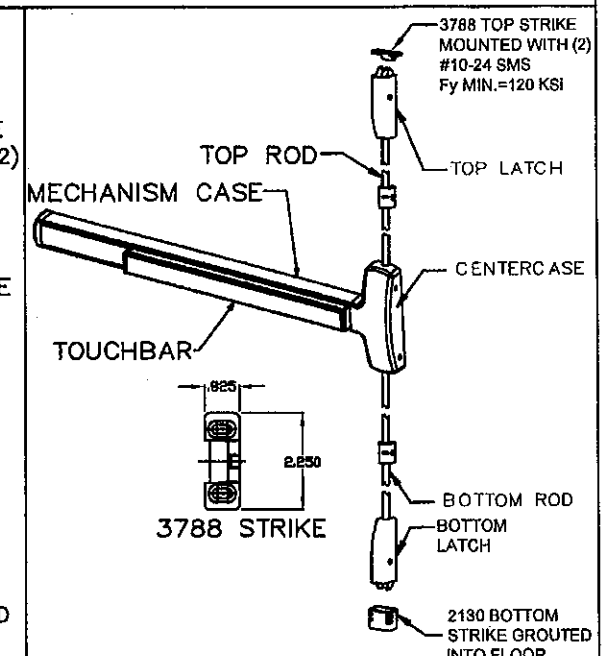
REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	YMF 05/20/07	
B	REVISED DWG	RAP 10/11/07	
C	REVISED DWG	RAP 12/10/07	
D	REVISED DWG	YMF 12/10/07	
E	REVISED DWG	YMF 04/08/08	
F	REVISED DWG	YMF 06/03/08	
G	REVISED DWG	YMF 03/03/09	
H	REVISED DWG	YMF 04/07/10	

[Signature]
Gordon Thomas, P.E. Date 4/14/10
3769 Blossom Court
Mason, OH 45040
Florida # 48718

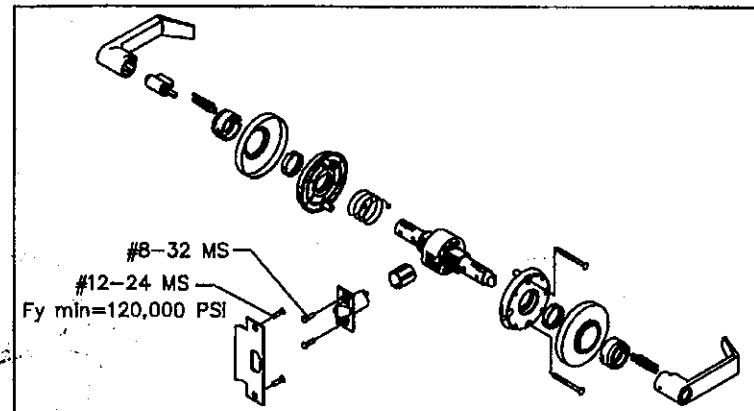


CONCEALED VERTICAL ROD EXIT DEVICE FALCON F-25-C
USED IN DOOR CONFIGURATION 6 (SEE SHT.1)

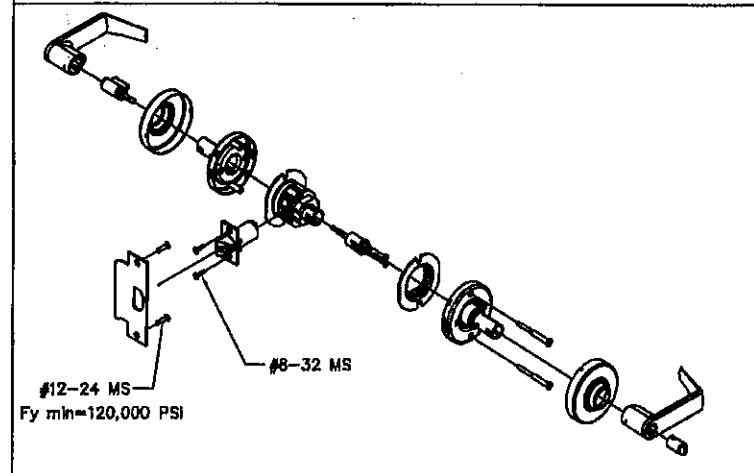


SURFACE VERTICAL ROD EXIT DEVICE FALCON (F)25-V
USED IN DOOR CONFIGURATION 5 (SEE SHT.1)

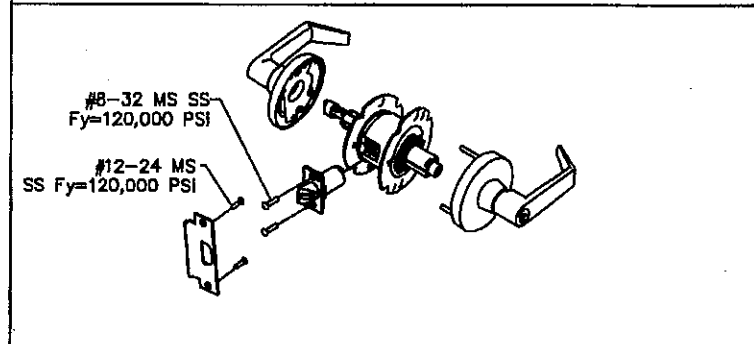
BEND RADIUS		BEND RADIUS		 Ingersoll Rand Security Technologies	
THIRD ANGLE PROJECTION					
DRAWN	YMF	DATE	05/20/07	TITLE MIAMI-DADE PRODUCT APPROVAL	
CHECKED				IR EXIT HARDWARE OPTIONS FOR FLUSH SINGLE DOORS.	
APPROVED		SIZE	FLAT	DWG NO.	IRFS07
ENG. APPVL	JPD	SCALE	NTS	AUTOCAD	SHEET 8 of 11



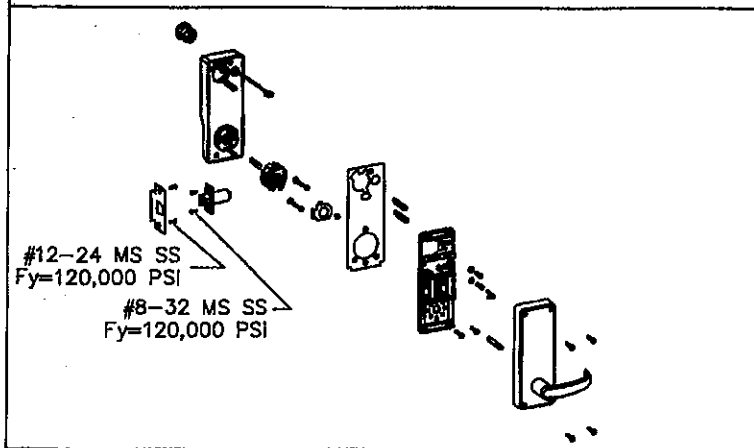
CYLINDRICAL LOCKSET WITH 1/2" THROW LATCH SCHLAGE AL-SERIES
USED IN DOOR CONFIGURATION 2 (SEE SHT.1)



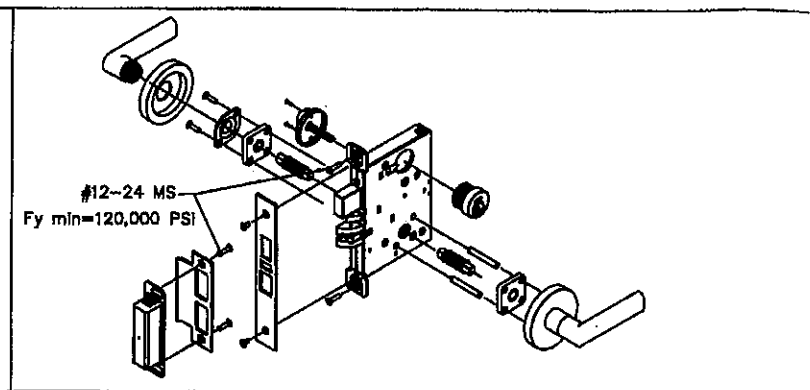
CYLINDRICAL LOCKSET SCHLAGE D/ND-SERIES
USED IN DOOR CONFIGURATIONS 3 & 4 (SEE SHT.1)



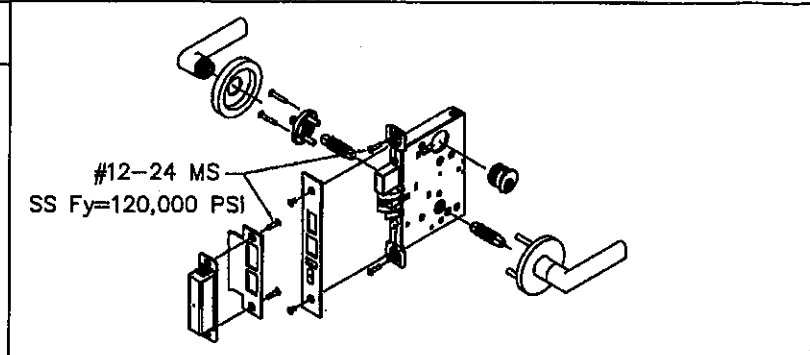
CYLINDRICAL LOCKSET FALCON T-SERIES
USED IN DOOR CONFIGURATIONS 4 (SEE SHT.1)



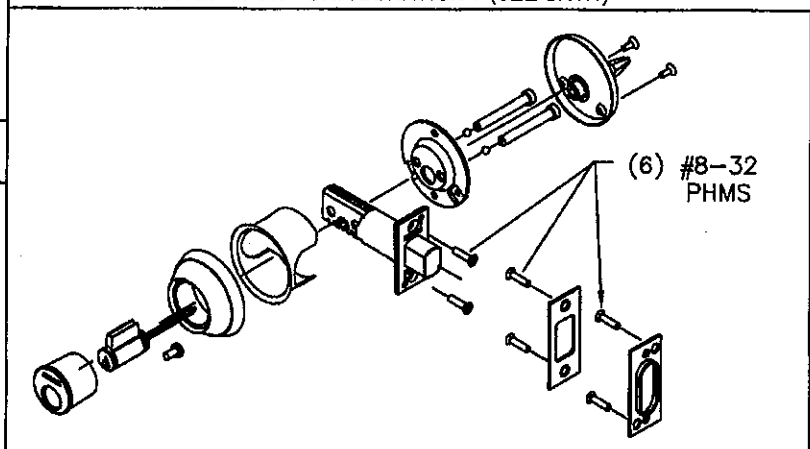
CYLINDRICAL LOCKSET LOCKNETICS / SCHLAGE 5100 SERIES
USED IN DOOR CONFIGURATION 4 (SEE SHT.1)



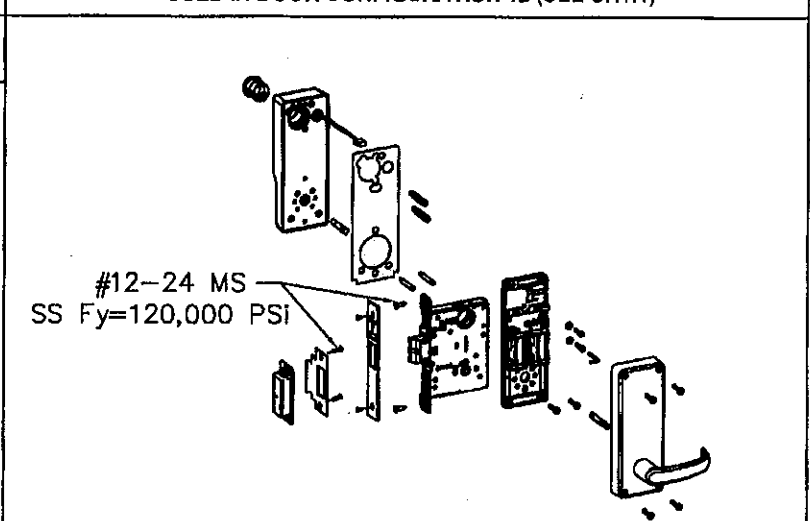
MORTISE LOCKSET WITH DEADBOLT FUNCTION SCHLAGE L/LV 9400 SERIES
USED IN DOOR CONFIGURATION 1 (SEE SHT.1)



MORTISE LOCKSET WITH DEADBOLT FUNCTION FALCON M-SERIES
USED IN DOOR CONFIGURATION 1 (SEE SHT.1)



CYLINDRICAL DEADLOCK FALCON D400/800-SERIES & SCHLAGE B600/700/800
USED IN DOOR CONFIGURATION 12 (SEE SHT.1)



MORTISE LOCKSET WITH AUTOBOLT LOCKNETICS / SCHLAGE 5500 SERIES
USED IN DOOR CONFIGURATION 1 (SEE SHT.1)

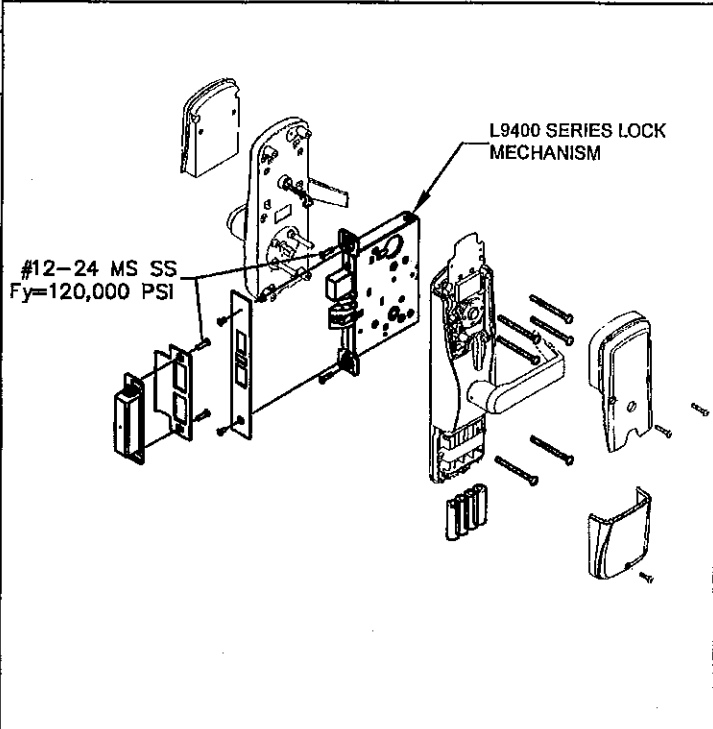
Signature 4/14/10
Gordon Thomas, P.E.
3759 Blossom Court
Mason, OH 45040
Florida # 46718

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 10-0209-07
Expiration Date MAY 05, 2015
By Lshag L. Chant
Miami Dade Product Control
Division

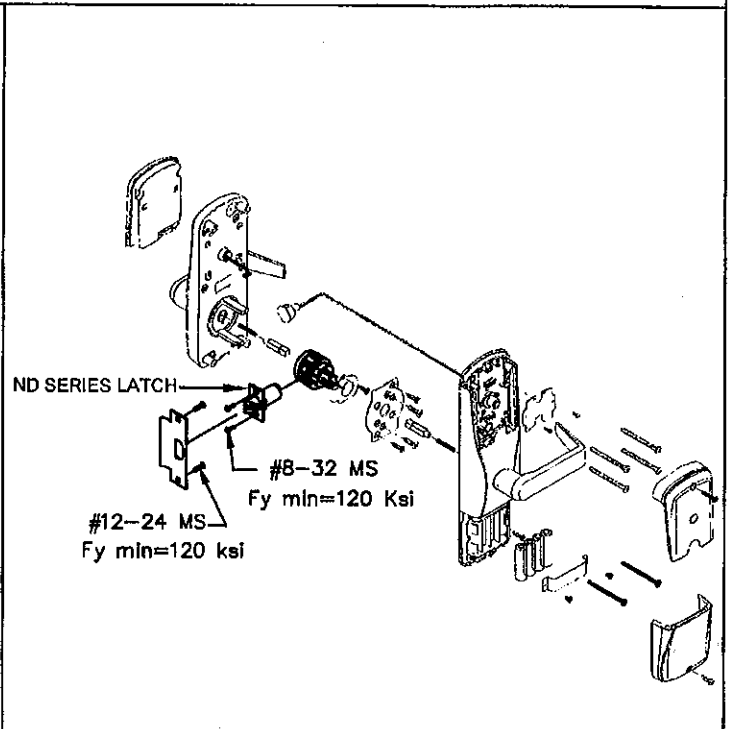
PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 12-0305-14
Expiration Date 5/15/15
By Lshag L. Chant
Miami Dade Product Control
Division

REVISIONS					
LTR	DESCRIPTION			DATE	APPROVED
A	APPROVAL	DWG	YMF	05/20/07	
B	REVISED	DWG	RAP	10/11/07	
C	REVISED	DWG	RAP	12/10/07	
D	REVISED	DWG	YMF	01/08/08	
E	REVISED	DWG	YMF	04/08/08	
F	REVISED	DWG	YMF	06/03/08	
G	REVISED	DWG	YMF	03/03/09	
H	REVISED	DWG	YMF	04/07/10	

ELECTRICAL FUNCTIONS/INSTALLATION
IS NOT PART OF THIS APPROVAL AND
TO BE REVIEWED BY BUILDING OFFICIAL



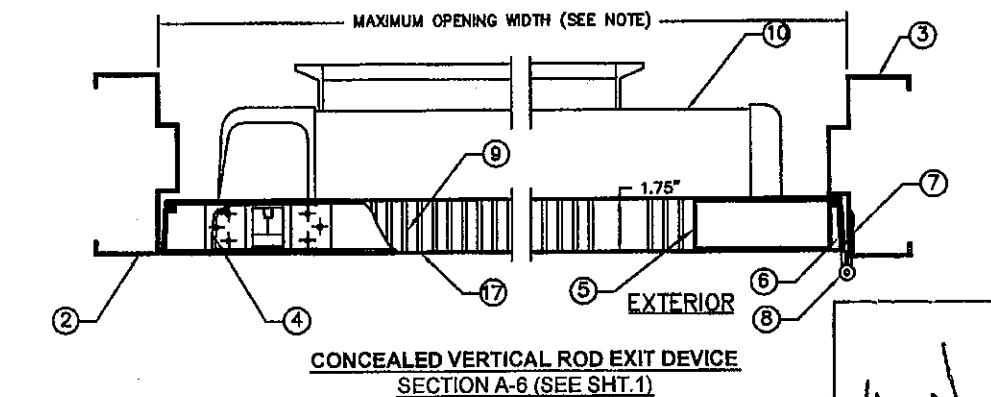
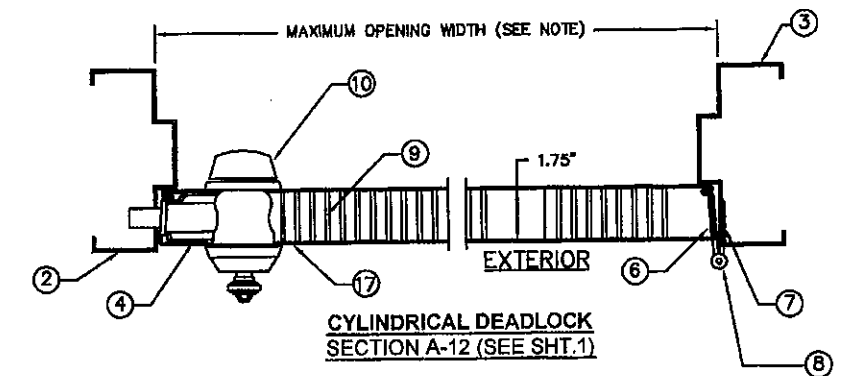
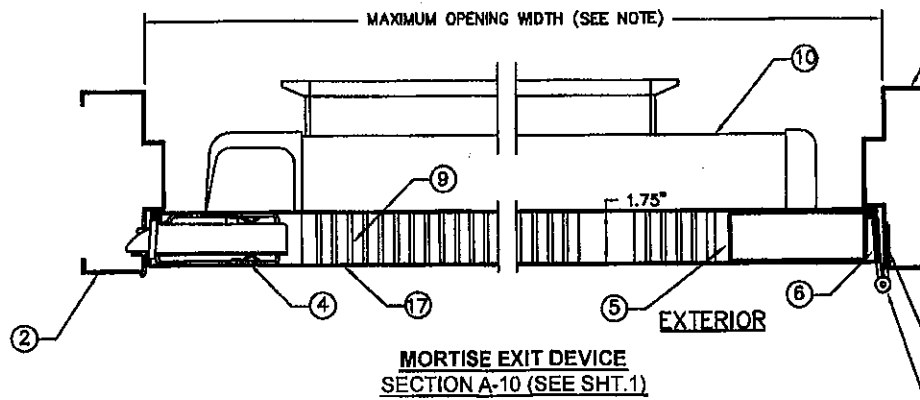
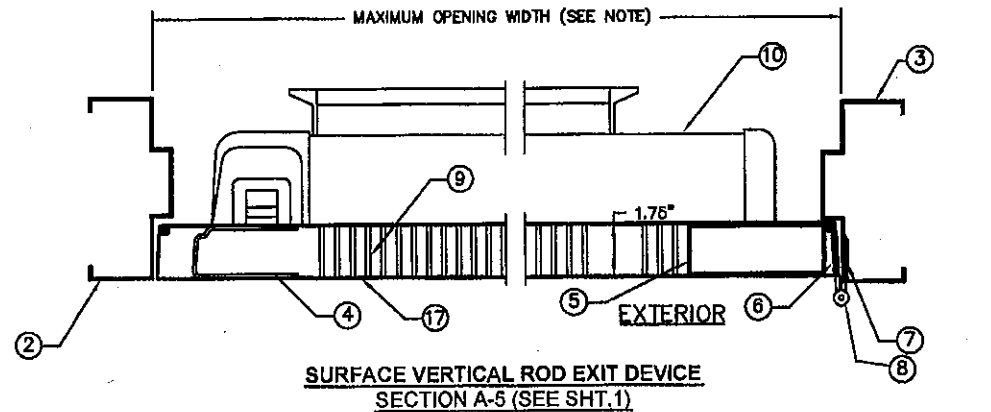
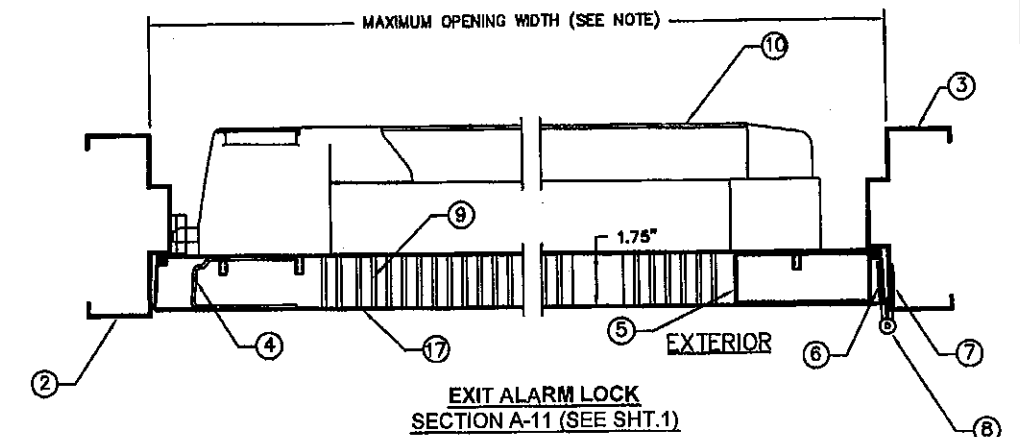
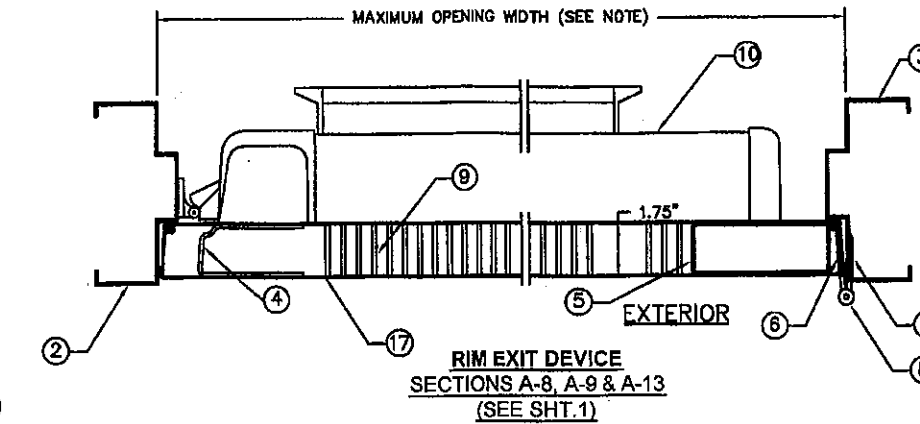
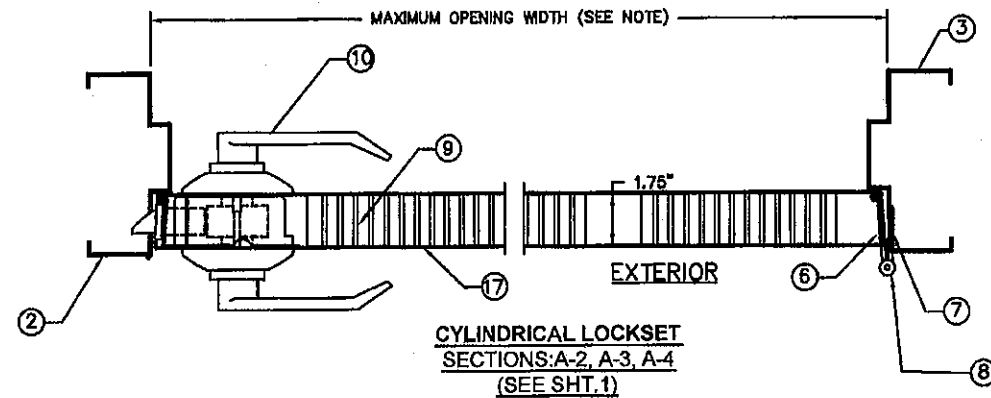
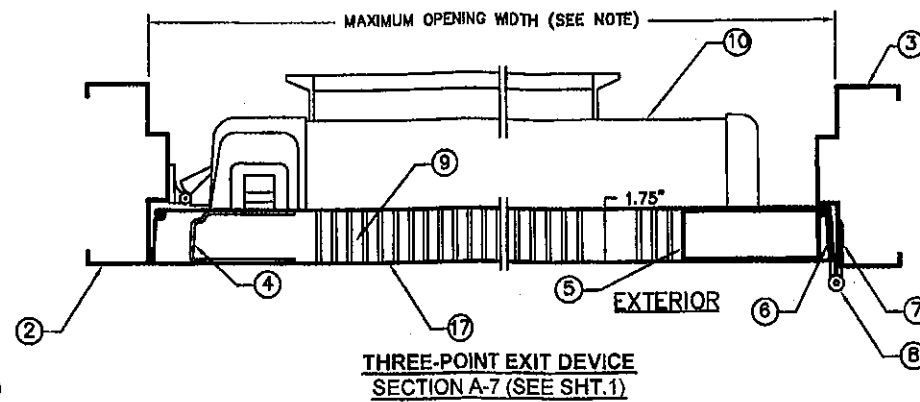
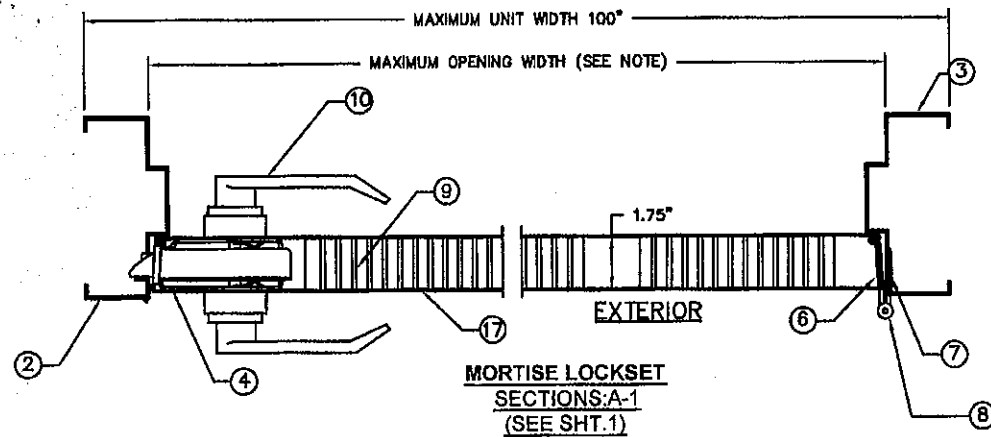
SCHLAGE CO/AD MS SERIES MORTISE LOCKSET W/DEADBOLT
USED IN CONFIGURATIONS: 1 (SEE SHT. 1)



SCHLAGE CO/AD CY SERIES CYLINDRICAL LOCKSET
USED IN CONFIGURATIONS: 3&4 (SEE SHT.1)

BEND RADIUS	
THIRD ANGLE PROJECTION	
DRAWN	DATE
YMF	05/20/07
CHECKED	
APPROVED	
ENG. APPVL	
JPD	10/11/07

Ingersoll Rand			
Security Technologies			
TITLE MIAMI-DADE PRODUCT APPROVAL			
IR HARDWARE OPTIONS FOR FLUSH SINGLE DOORS.			
SIZE	FLAT	DWG NO.	REV
		IRFS07	H
SCALE	NTS	AUTOCAD	SHEET 9 of 11



PRODUCT REVISED
as complying with the Florida
Building Code
Amendment No. 12-0305.14
Expiration Date 5/5/15
By Ishag L. Chande
DATE 4/14/10

NOTE:
FOR MAXIMUM OPENING SIZE SEE TABLE 1 ON SHEET 2 OF 11.

Gordon Thomas, P.E.
3759 Blossom Court
Mason, OH 45040
Florida # 48718

Date

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 10-0209-07
Expiration Date MAY 5, 2015
By Ishag L. Chande
Miami Dade Product Control
Division

BEND RADIUS

THIRD ANGLE PROJECTION

DRAWN
YMF

CHECKED

APPROVED

ENG. APPVL
JPD

DATE
05/20/07

10/11/07



Ingersoll Rand
Security Technologies

TITLE MIAMI-DADE PRODUCT APPROVAL

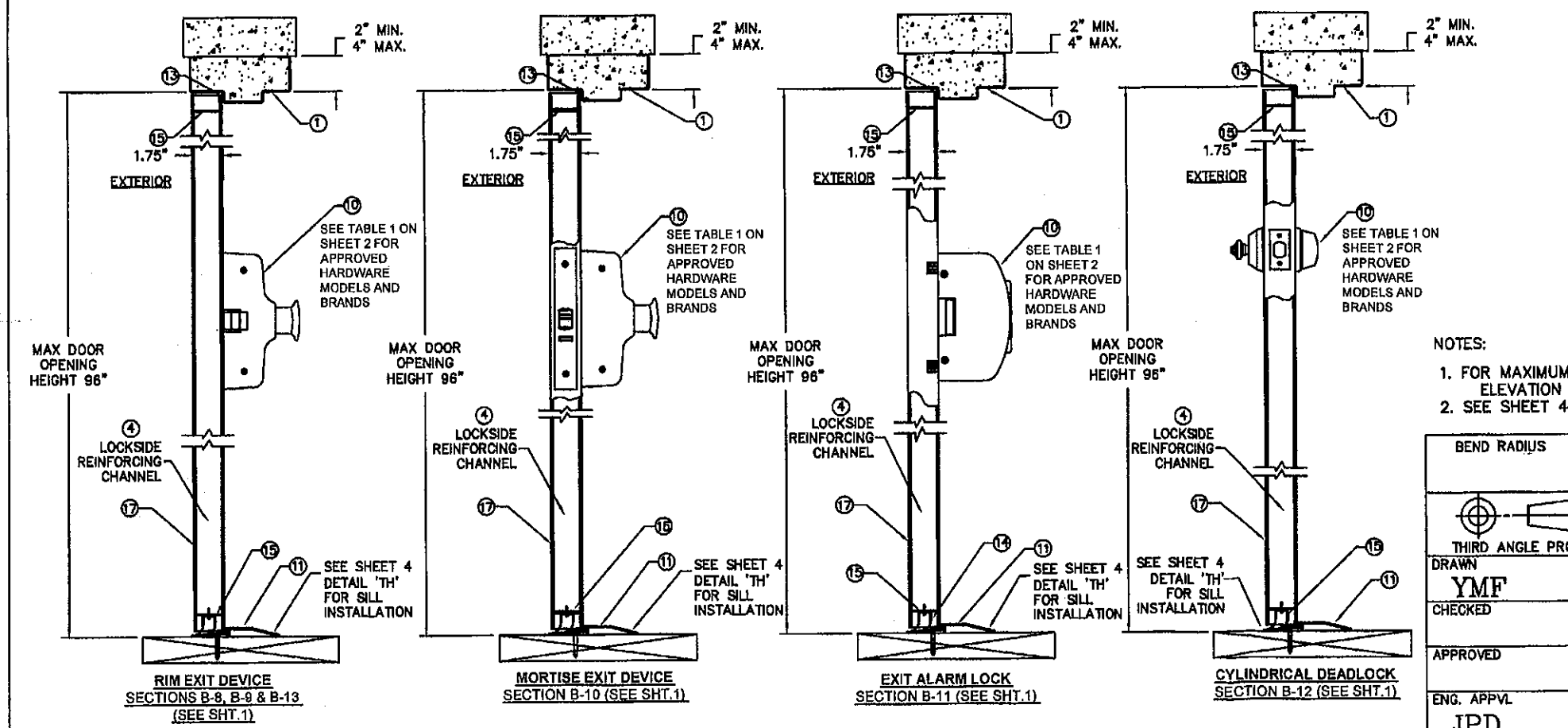
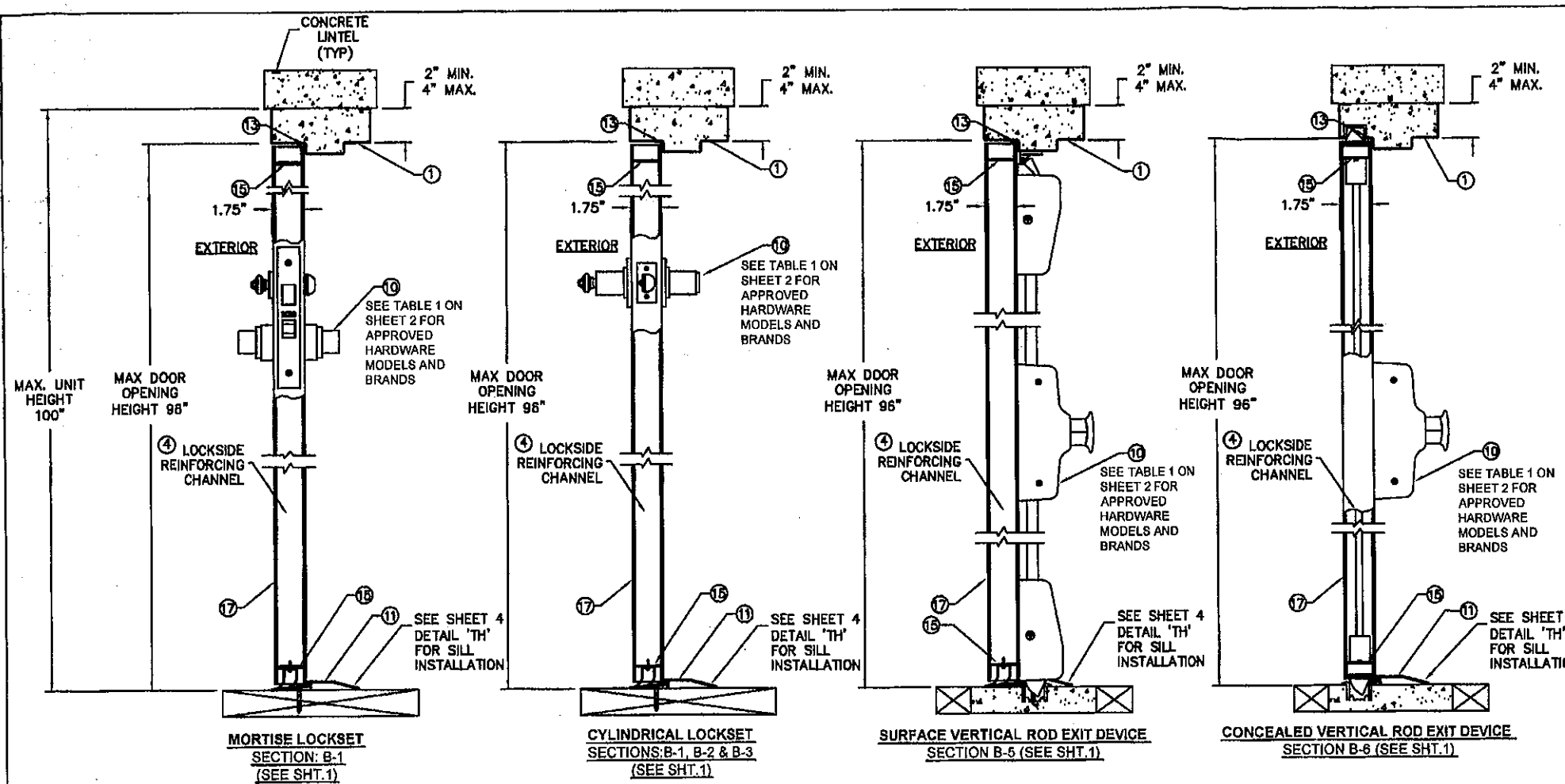
HORIZONTAL CROSS SECTIONS FOR FLUSH SINGLE DOORS.

SIZE FLAT DWG NO. IRFS07 REV H

SCALE: NTS AUTOCAD SHEET 10 of 11

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG YMF	05/20/07	
B	REVISED DWG RAP	10/11/07	
C	REVISED DWG RAP	12/10/07	
D	REVISED DWG YMF	12/10/07	
E	REVISED DWG YMF	04/08/08	
F	REVISED DWG YMF	06/03/08	
G	REVISED DWG YMF	03/04/09	
H	REVISED DWG YMF	04/07/10	



REVISIONS				
LTR	DESCRIPTION	DATE	APPROVED	
A	APPROVAL DWG	YMF	05/20/07	
B	REVISED DWG	RAP	10/11/07	
C	REVISED DWG	RAP	12/10/07	
D	REVISED DWG	YMF	01/08/08	
E	REVISED DWG	YMF	04/08/08	
F	REVISED DWG	YMF	06/03/08	
G	REVISED DWG	YMF	03/04/09	
H	REVISED DWG	YMF	04/07/10	

PRODUCT REVIEWED
as complying with the Florida Building Code
Acceptance No. 12-0305-14
Expiration Date 5/5/15
By Ishag I. Chanda
Miami Dade Product Control Division

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 10-0209-07
Expiration Date 4/3/2015
By Ishag I. Chanda
Miami Dade Product Control Division

MAX DOOR OPENING HEIGHT 96"

1.75"

EXTERIOR

SEE TABLE 1 ON SHEET 2 FOR APPROVED HARDWARE MODELS AND BRANDS

LOCKSIDE REINFORCING CHANNEL

SEE SHEET 2 FOR SILL INSTALLATION

THREE-POINT EXIT DEVICE SECTION B-7 (SEE SHT. 1)

Gordon Thomas, P.E.
3759 Blossom Court
Mason, OH 45040
Florida #48718

4/14/10 Date

- NOTES:
1. FOR MAXIMUM DOOR & UNIT OPENING SIZES SEE ELEVATION SHEET 1 AND TABLE 1 ON SHEET 2 OF 11.
 2. SEE SHEET 4 OF 11 FOR ANCHOR INSTALLATION DETAILS.

BEND RADIUS				Ingersoll Rand Security Technologies	
THIRD ANGLE PROJECTION					
DRAWN YMF	DATE 05/20/07	TITLE MIAMI-DADE PRODUCT APPROVAL			
CHECKED		VERTICAL CROSS SECTIONS FOR FLUSH SINGLE DOORS.			
APPROVED		SIZE	FLAT	DWG NO.	REV
ENG. APPVL JPD	10/11/07	SCALE: NTS	AUTOCAD	IRFS07	H
SHEET 11 of 11					



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/

Ingersoll-Rand
6810 Hillsdale Court
Indianapolis, IN 46250

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.

DESCRIPTIO: IR / Steelcraft Double Flush Outswing Commercial Steel Doors w / wo Panic Exit Devices

APPROVAL DOCUMENT: Drawing No "IRF-D07" Rev J, titled "Flush Outswing Double Doors", sheets 1 through 11 of 11, prepared by the manufacturer, dated 05-27-07 and last revised on 04/14/10, signed and sealed by Thomas Gordon,, 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 Missile Impact Resistant

Limitations:

1. See Design Pressures, Sizes, Hardware and Water infiltration limitation sheet 1& 2 of the drawings.
2. Option (A) Polystyrene and Expanded polystyrene foam core options (F) in sheet 4 are limited to Atlas EPS (min $\rho = 1\#/ft^3$) and Polyisocyanurate EI-Foam-H200 (polyurethane, min $\rho = 2\#/ft^3$) by Elliott Company.
3. Electrical/Electronic function is not part of this approval, such functions to be reviewed and approved by AHJ.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Cincinnati, Ohio and series and following statement: "Miami-Dade County Product Control Approved", 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 # 10-0209.06 and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

8/5/23/12
MIAMI-DADE COUNTY
APPROVED

NOA No 12-0305.13
Expiration Date: May 05, 2015
Approval Date: May 31, 2012
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's parts and sections drawings (submitted under file # **10-0209.06**)
2. Drawing No "**IRF-D07**" Rev **J**, titled "Flush Outswing Double Doors", sheets 1 through 11 of 11, prepared by the manufacturer, dated 05-27-07 and last revised on 04/14/10, signed and sealed by Thomas Gordon, P.E.

B. TESTS (Submitted file # 10-0209.06/ 07-0829.03)

1. Test report on
 - 1) Air Infiltration Test, per TAS 202-94
 - 2) Water Resistance Test per FBC TAS 202-94(Not conducted)
 - 3) Uniform Static Air Pressure Test, Loading per 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 PA 202-94

Along with manufacturer's parts and section drawings of double flush outswing steel doors, marked by National Certified Testing Lab, Test Reports No. **NCTL-210- 3580-2**, dated March 25, 2009, signed and sealed by Gerry Ferrara, P. E.

2. Test report on (Submitted under file # **07-0829.03**)

- 1) Air Infiltration Test, per TAS 202-94
- 2) Uniform Static Air Pressure Test, Loading per TAS 202-94
- 3) Large Missile Impact Test per FBC, TAS 201-94
- 4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
- 5) Forced Entry Test, per PA 202-94

Along with manufacturer's parts and section drawings of double flush outswing steel doors, marked by Certified Testing Lab, Test Reports No(s). **CTLA-776W** dated February 20, 2002, **CTLA-776W1** dated April 25, 2002, **CTLA-776W-2, 3** dated April 20, 2002, **CTLA-1035W-2** dated Feb. 11, 2003, **CTLA-1086-W** dated Nov. 17, 2003, all signed and sealed by Ramesh Patel, P.E.

3. Test report (transferred from file # **07-0829.03**)

- 1) Air Infiltration Test, per TAS 202-94
- 2) Uniform Static Air Pressure Test, Loading per TAS 202-94
- 3) Large Missile Impact Test per FBC, TAS 201-94
- 4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
- 5) Forced Entry Test, per TAS 202-94

Along with manufacturer's parts and section drawings of Flush outswing double steel doors, marked by Certified Testing Lab, Test Reports No(s). **NCTL-210-3357-1** dated Dec 28, 2006, signed and sealed by Gerard J. Ferrara, P.E.

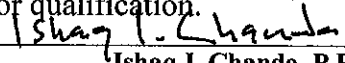
4. Additional test reports

- 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94.
- 2) Water Resistance Test per FBC TAS 202-94

Along with marked-up drawings and installation diagram of double steel commercial doors, prepared by National Certified Testing Laboratories Inc., Test Report No. **NCTL- 210-03-0514-11**, dated August 31, 2004, **NCTL- 210-3044-1**, dated August 31, 2004, **NCTL- 210-3549-1**, dated August 26, 2008 and **NCTL- 210-3511-1** dated 04/09/08, all signed and sealed by Gerard J. Ferrara, P. E.

Note: Test report No(s): **NCTL210-3549-1** and **NCTL-210-3511-1** have been revised by an addendum letter, issued by Lab, dated Feb. 04, 2009, signed & sealed by Gerard J. Ferrara, P. E.

4. Reference test report No.**CTLA-1107W** for strap anchor qualification.


Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 12-0305.13
Expiration Date: May 05, 2015
Approval Date: May 31, 2012

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS (Submitted file # 10-0209.07/ 07-0829.04)

1. Statement of compliance & anchor verification evaluation report, dated 04-23-2007 and last revised on 07/14/2008, prepared, signed & sealed by Thomas Gordon., P.E.
2. Evaluation report for Hinges dated 09/01/04, prepared, signed & sealed by Thomas Gordon., P.E.

D. QUALITY ASSURANCE BY

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS (submitted under file # 10-0209.06)

1. Test Report No. **03NK2370/R145081**, January 21, 2003, issued by Underwriters laboratories Inc for "Surface Burning Characteristics of Building material" per ASTM E84-00a and self Ignition per ASTM 1929D for "Elfoam H200", issued to Elliott Co. of Indianapolis Inc.
2. Tensile test report # CTLA-776W (0194H), dtd 02/25/02 prepared by CTL Architectural Division, sheet samples, tested per ASTM E8, signed & sealed by Ramesh Patel, P.E.
3. Tensile Test report No. A103W1-Test 1, 2 & 3 dated 23 APR 03 per ASTM E-8 for steel face sheet, prepared by Certified Testing laboratory, signed and sealed by Ramesh Patel, P.E.
4. Test Report No. **NER-384**, reissued dated May 01, 1994, issued by National Evaluation Service Inc to Huntsman Chemical Corporation for "Expanded Polystyrene EPS" for grade 86 & grade 54 for "Surface Burning Characteristics of Building material" per ASTM E 84.
5. Test Report No. **16206-122543 (1015P200(3))**, dated November 29, 2004 for " Surface Burning Characteristics of Building material" per ASTM E84 and self Ignition per ASTM 1929D for "Polyisocyanurate" issued by Omega Point Laboratories, Inc. to Elliot Company, Indianapolis, Indiana.

F. STATEMENTS

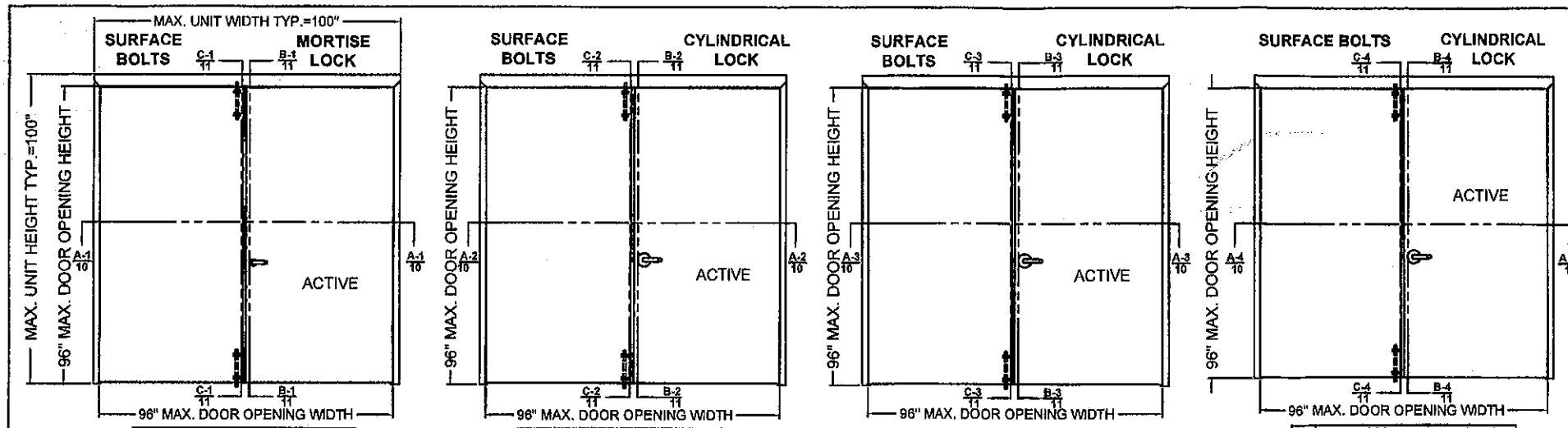
1. Letter of conformance to FBC 2010 "No financial interest" dated 02/15/12, signed and sealed by Gordon Thomas, P.E.
2. Statement letter of conformance to FBC 2007 and no financial interest, dated Feb 03, 2010, prepared, signed and sealed by Gordon Thomas, P.E.
3. Laboratory Compliance statement issued as part of test report.
4. Addendum letter dated 3/15/10 for test report NCTL210-3645-1, issued by National certified Testing lab.
5. Letter of certification dated 04/20/10, issued by Ingersoll-Rand for electronic CO lock series mechanical /functional parts same as AD, ND and AD-M series.

G. OTHER

1. This NOA revises NOA # 10-0209.06, expiring on 05/05/15.
2. Previously consolidates NOA (s) associated with this files are NOA #10-0209.07, 07-0829.04, 02-0712.01, 02-0712.03, 03-0908.03, 04-0203.03, 04-0303.03 and 05-0103.01.
3. Consolidation Test proposal # **06-2468**, dated 04/27/07 approved by BCCO.
4. IR Locks & Panic devices brochures / catalogs supplied by manufacturer.

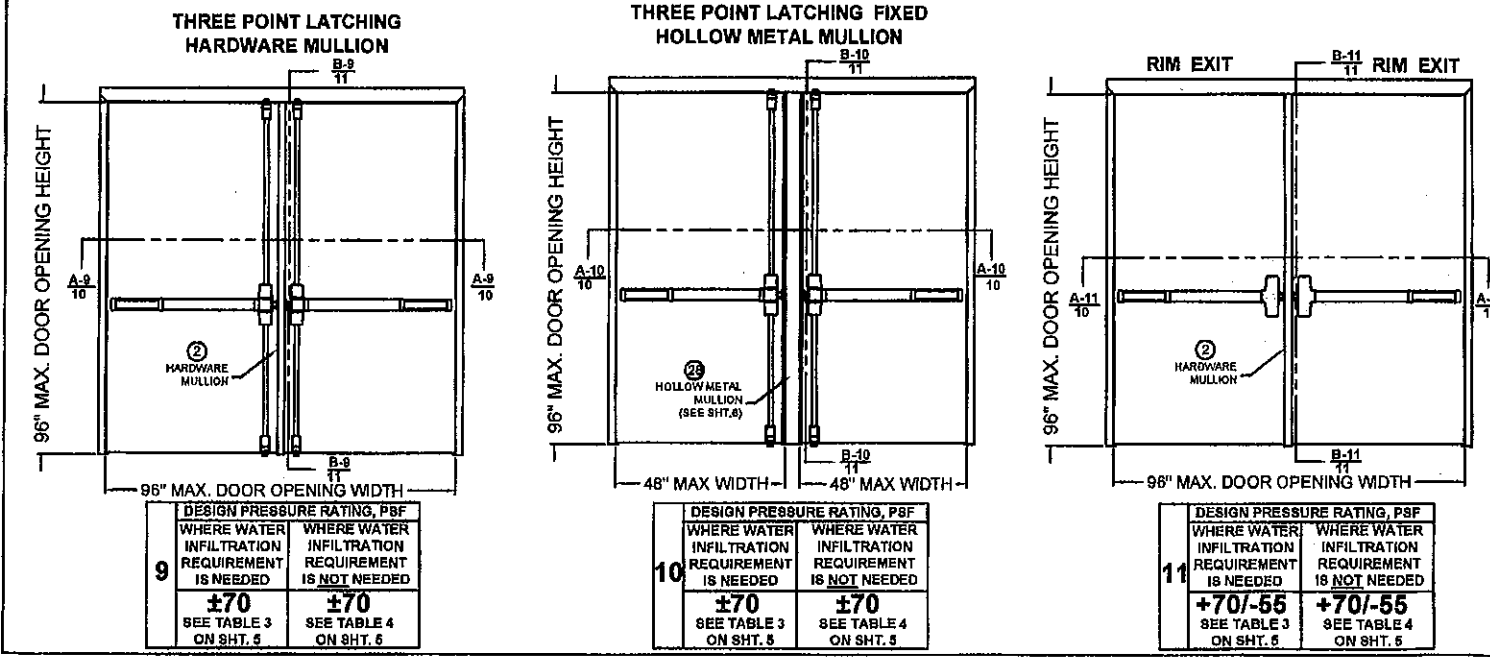
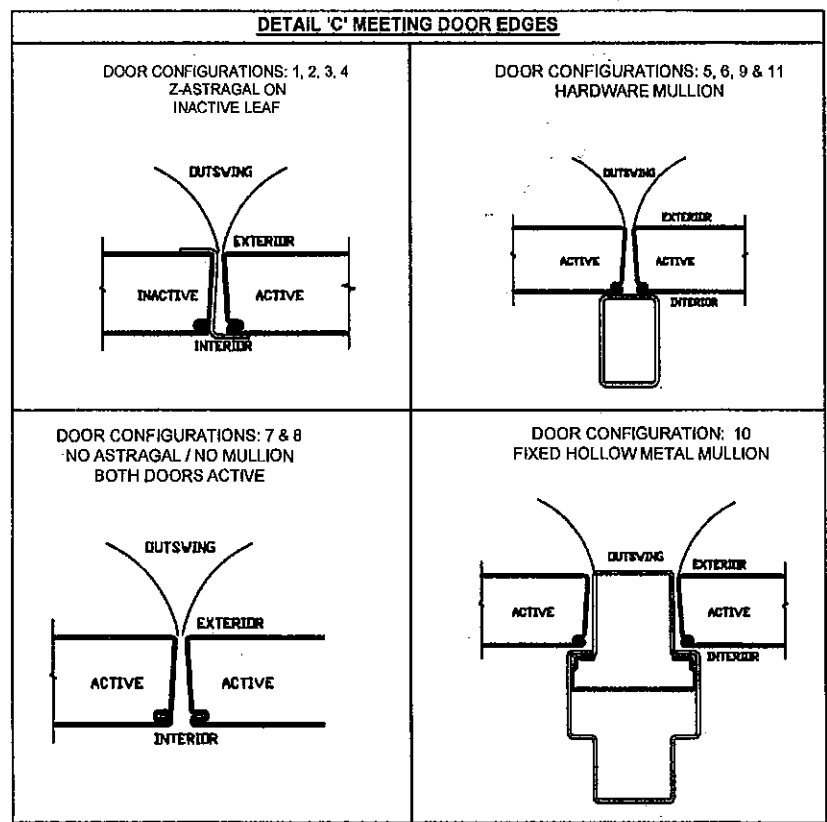
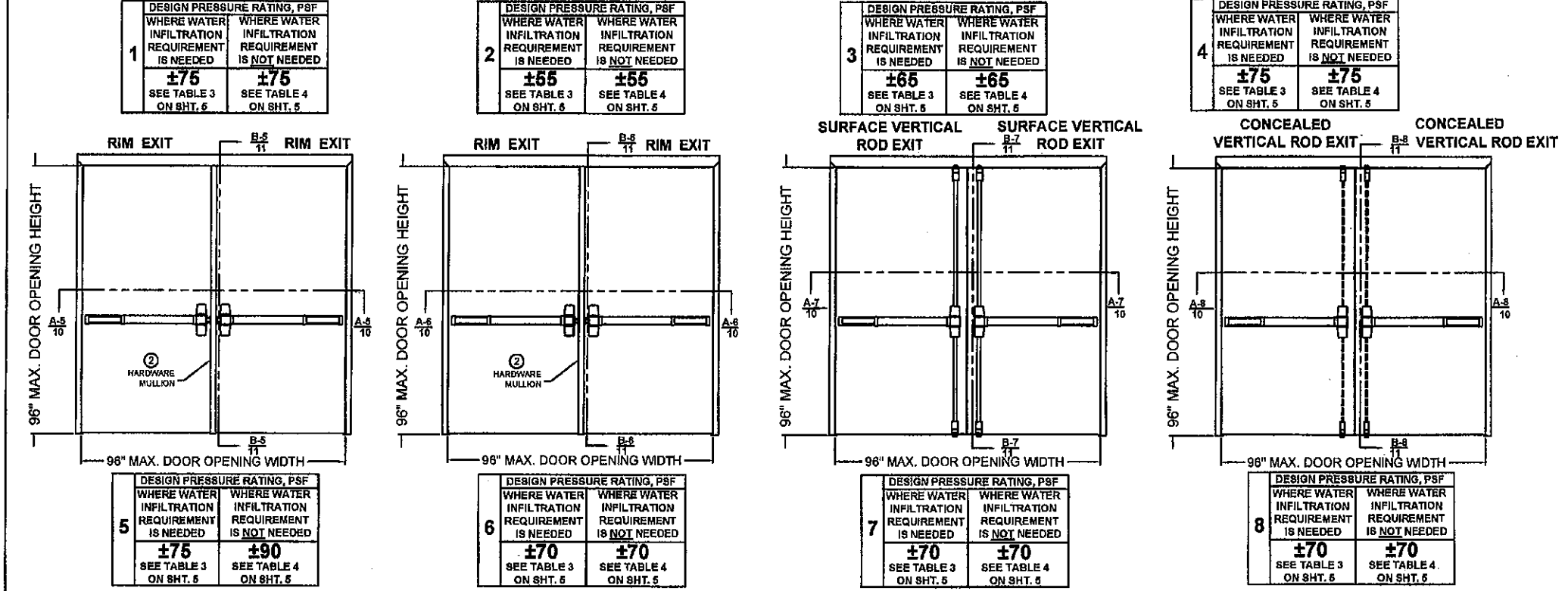
Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 12-0305.13
Expiration Date: May 05, 2015
Approval Date: May 31, 2012



[Signature] 4/14/10
 Gordon Thomas, P.E.
 3759 Blossom Court
 Mason, OH 45040
 Florida # 46718

REVISIONS				
LTR	DESCRIPTION	DATE	APPROVED	
A	APPROVAL DWG	YMF	05/20/07	
B	REVISED DWG	RAP	10/12/07	
C	REVISED DWG	RAP	12/03/07	
D	REVISED DWG	YMF	01/15/08	
E	REVISED DWG	YMF	02/28/08	
F	REVISED DWG	YMF	05/30/08	
G	REVISED PER_MDBCCO	YMF	02/06/09	
H	REVISED DWG	YMF	02/01/10	
J	REVISED DWG	YMF	04/06/10	



PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 12-0305-13
 Expiration Date MAY 05, 2015
 By Ishag J. Lhant
 Miami Dade Product Control
 Division

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 12-0305-13
 Expiration Date MAY 05, 2015
 By Ishag J. Lhant
 Miami Dade Product Control
 Division

- NOTES:**
1. INTERIOR VIEWS ARE SHOWN FOR ALL ELEVATIONS
 2. SEE TABLE 1 ON SHEET 2 FOR HARDWARE APPLICATIONS AND LIMITATIONS
 3. SEE SHEET 3 FOR HINGE REQUIREMENTS
 4. SEE SHEET 4 FOR ANCHORING TYPES AND LIMITATIONS
 5. SEE SHEET 5 FOR WEATHERSTRIPPING INSTALLATION DETAILS AND LIMITATIONS

BEND RADIUS				Ingersoll Rand Security Technologies	
THIRD ANGLE PROJECTION					
DRAWN	DATE	TITLE MIAMI-DADE PRODUCT APPROVAL			
YMF	05/20/07	Ingersoll Rand FLUSH OUTSWING, DOUBLE DOORS AND HARDWARE CONFIGURATIONS.			
CHECKED		SIZE	FLAT	DWG NO.	REV
APPROVED				IRFD07	J
ENG. APPVL	10/12/07	SCALE	NTS	AUTOCAD	SHEET 1 OF 11

TABLE 1.

Door Configuration	Maximum Design Pressure, PSF		Maximum Door Opening Size, In.		Locking Hardware Description				Comments
	Positive	Negative	Width	Height	Hardware Family	Model/Series	Strike Models	IR Brand	
1	75	75	96	96	Mortise Lock	L/LV9400/AD MS	10-072	Schlage	Function with deadbolt, 3/4" min. throw latch & 1" min throw deadbolt w/autobolt, 3/4" min. throw
						M	ANSI	Falcon	
						5500	ANSI	Locknetics/Schlage	
2	55	55	96	96	Cylindrical Lock	AL	10-025	Schlage	1/2" throw latch
3	65	65	96	96	Cylindrical Lock	D/ND/AD CYL	10-025	Schlage	1/2" throw latch
4	75	75	96	96	Cylindrical Lock	D/ND/AD CYL	10-025	Schlage	3/4" throw latch
						T	ANSI	Falcon	3/4" throw latch
						5100	ANSI	Locknetics/Schlage	3/4" throw latch
5	90 SEE NOTE 4.	90 SEE NOTE 4.	96	96	Rim Exit Device	XP 98/99(F)	909/954	Von Duprin	for pairs use (KR)9954 mullion by Von Duprin
6	70	70	96	96	Rim Exit Device	.98/99(F)	299F/499F	Von Duprin	for pairs use (KR)9954 mullion by Von Duprin
						88-F	268	Von Duprin	
						(F)DL-18-R	F570	Monarch	
7	70	70	96	96	Surface Vertical Rod Exit Device	98/9927(F)	299F/499F Top, 304L/248L4 Bottom	Von Duprin	
						(F)18-V	3788 Top, 2130 Bottom	Monarch	
						(F)25-V	3788 Top, 2130 Bottom	Falcon	
8	70	70	96	96	Concealed Vertical Rod Exit Device	98/9947-F	338 Top, 385A Bottom	Von Duprin	
						F-18-C	4188 Top, 2130 Bottom	Monarch	
						F-25-C	4188 Top, 2130 Bottom	Falcon	
9	70	70	96	96	Three-Point Latching Device	98/9957(F)	299F/499F Top/Middle, 304L/248L4 Bottom	Von Duprin	for pairs use (KR)9954 mullion by Von Duprin
10	70	70	48	96		98/9957(F)	299F/499F Top/Middle, 304L/248L4 Bottom	Von Duprin	See note #2
11	70	55	96	96	Rim Exit Device	(F)25-R	299F/499F	Falcon	for pairs use (KR)9954 mullion by Von Duprin

NOTES:

- FOR DOOR CONFIGURATIONS 1, 2, 3, & 4, INACTIVE LEAF REQUIRES IVES SB360 SURFACE BOLTS IN TOP AND BOTTOM
- DOOR CONFIGURATION 10 IS USING FIXED HOLLOW METAL MULLION BETWEEN TWO DOORS
- SEE SHEETS 6, 7 & 8 FOR LOCKING HARDWARE AND HARDWARE MULLION DETAILS
- DOOR CONFIGURATION 5 IS RATED FOR MAXIMUM DESIGN PRESSURE ± 90 PSF WHEN WATER INFILTRATION REQUIREMENT IS NOT NEEDED, WHEN WATER INFILTRATION REQUIREMENT IS NEEDED, IT IS RATED UP TO +75 PSF WHEN USED WITH SEALS BY ZERO INTERNATIONAL AND NATIONAL GUARD PRODUCTS (NGP) (SEE TABLE 3 ON SHT.5)
- SCHLAGE AL-SERIES CYLINDRICAL LOCK (door configuration 2) IS LIMITED TO ± 55 PSF MAXIMUM DESIGN PRESSURE

REVISIONS

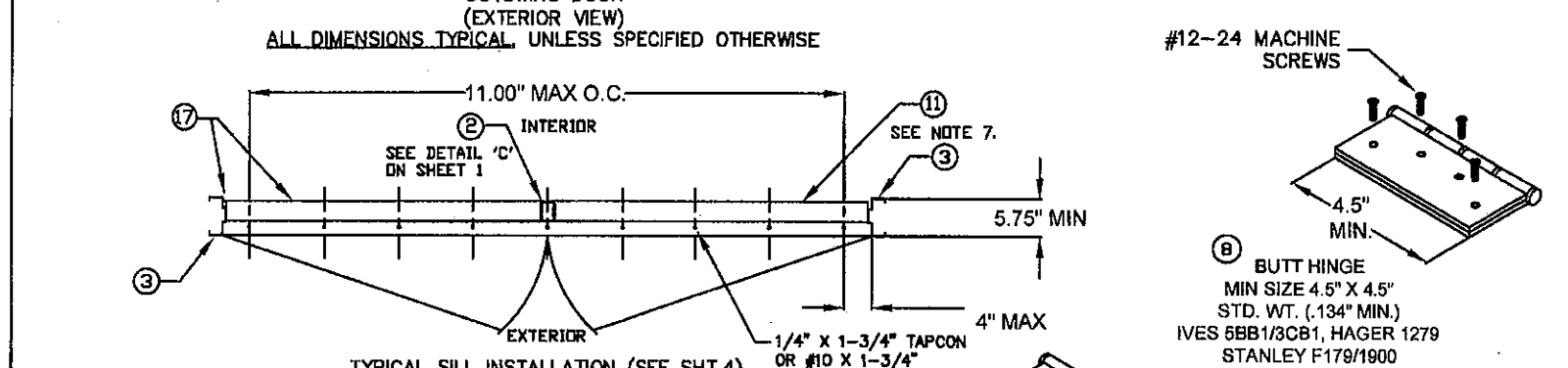
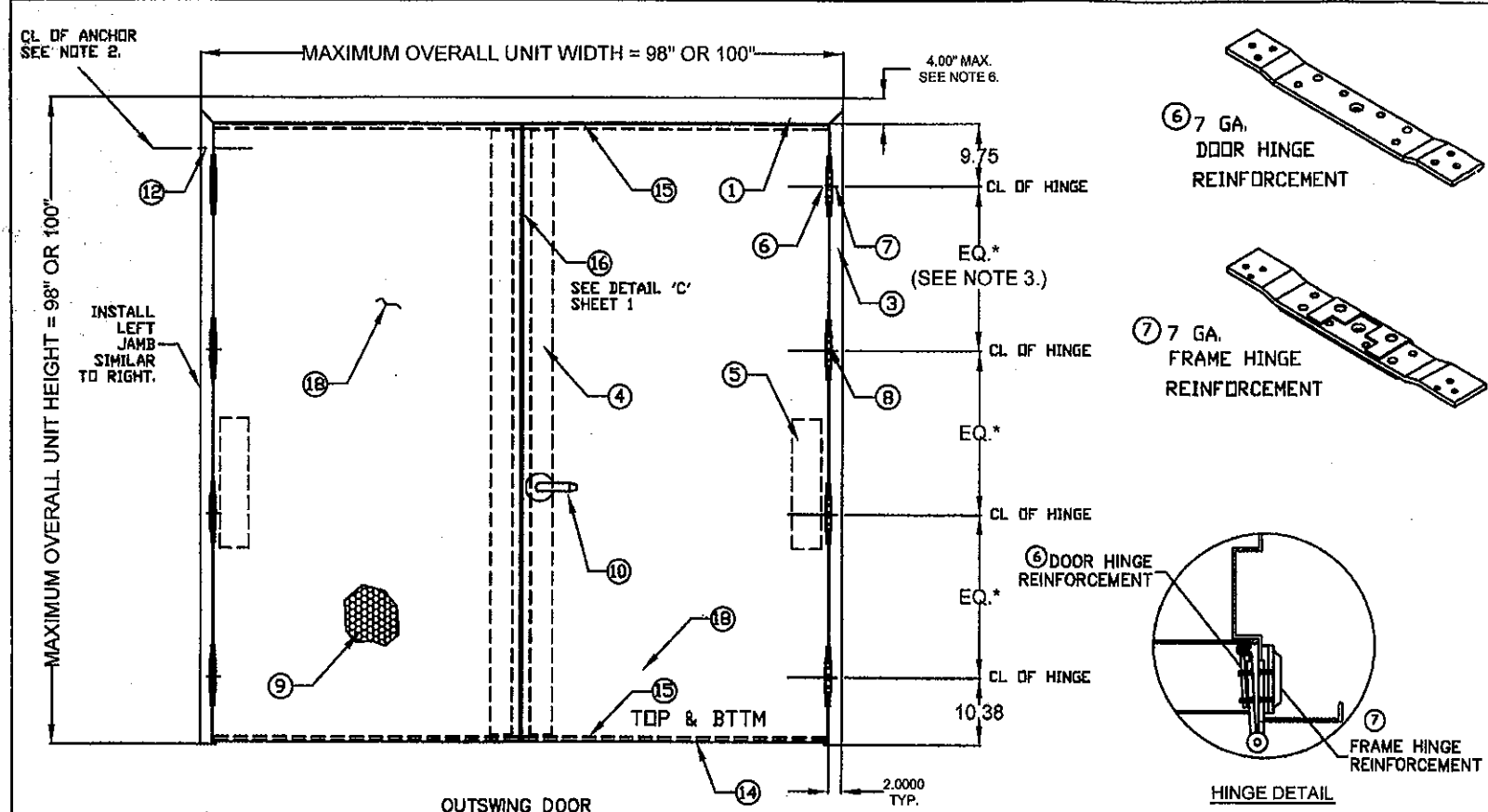
LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	YMF 05/20/07	
B	REVISED DWG	RAP 10/12/07	
C	REVISED DWG	RAP 12/03/07	
D	REVISED DWG	YMF 01/16/08	
E	REVISED DWG	YMF 02/28/08	
F	REVISED DWG	YMF 05/30/08	
G	REVISED PER_MDBCCO	YMF 02/06/09	
H	REVISED DWG	YMF 03/18/09	
J	REVISED DWG	YMF 04/06/10	

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0305-13
Expiration Date 5/5/15
By Ishag J. Chaudhry
Miami Dade Product Control
Division

[Signature] 4/14/10
Gordon Thomas, P.E. Date
3759 Blossom Court
Mason, OH 45040
Florida # 46718

PRODUCT RENEWED
as complying with the Florida
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Acceptance No. 10-0209-06
Expiration Date MAY 5, 2015
By Ishag J. Chaudhry
Miami Dade Product Control
Division

BEND RADIUS				Ingersoll Rand	
THIRD ANGLE PROJECTION					
DRAWN YMF	DATE 05/20/07	TITLE MIAMI-DADE PRODUCT APPROVAL			
CHECKED		FLUSH OUTSWING DOORS AND HARDWARE CONFIGURATIONS IR COMMERCIAL DOOR OPENING DOUBLE FLUSH DOORS.			
APPROVED		SIZE	FLAT	DWG NO.	REV
ENG. APPVL JPD	10/12/07	SCALE	NTS	AUTOCAD	IRFD07 J
			SHEET 2 OF 11		



- NOTES:
1. WEATHERSTRIPPING - INSTALL PER SHT.5
 2. ANCHOR REQUIREMENTS: SEE SHEET 4 FOR APPROVED ANCHOR INSTALLATION REQUIREMENTS. WHEN FOUR-SIDED FRAME IS USED SILL FRAME SECTION ANCHORED PER SILL DETAIL ON THIS SHEET.
 3. HINGE REQUIREMENTS:
FOR DOOR OPENING UP TO 90\"
 4. SEE SHEET 6 FOR AVAILABLE STANDARD OPENING SIZES AND SPECIFICATIONS.
 5. HARDWARE INSTALLATION AS PER MANUFACTURER'S INSTRUCTIONS, AS APPROVED PER THIS NOA.
 6. 4\"
 7. APPLY CAULK AS NEEDED.
 8. SEE SHEET 10 FOR SECTION A-A, SEE SHEET 11 FOR SECTIONS B-B AND C-C.
 9. EXIT HARDWARE OPTIONS:
FOR 98/99 & XP98/99 SERIES - FUNCTIONS E, RX, LX, SS, EL, CX, F
TRIM: ALL APPLICABLE TRIMS AVAILABLE.
FOR 88-F SERIES - FUNCTION E
TRIM: ALL APPLICABLE TRIMS AVAILABLE.
PN MODEL OFFERED.
FOR 2670 GUARD-X
TRIM: ALL APPLICABLE TRIMS AVAILABLE.
FOR 18-R, 18-C & 18-V SERIES - FUNCTIONS DL, EA, HWEA, DE, ELR F, DM, LM, AE, LK & SM
FOR 25-R, 25-C & 25-V SERIES - FUNCTIONS DM, LM, KOR, ED, EL, EA, FSA, FSE, HWEA
TRIM: ALL APPLICABLE TRIMS AVAILABLE
 10. PN MODEL OFFERED.
 11. ELECTRICAL INSTALLATION IS UNDER SEPARATE APPROVAL AND MUST BE REVIEWED BY CORRESPONDING AUTHORITY.
 12. OPTIONAL POWER TRANSFERS, MONITORING SWITCHES, SUPPLEMENTARY MAGNETIC LOCKS MAY BE USED AS ALLOWED BY CODE AND IT DOES NOT EFFECT THE MECHANICAL PROPERTIES OF EXIT DEVICE AND/OR INHIBIT EGRESS.
 13. ITEMS 19 THROUGH 23 REQUIRED ONLY IF WATER INFILTRATION IS NEEDED.
 14. QUANTITY WILL INCREASE WHEN USED WITH HOLLOW METAL MULLION. SEE SHT 6 FOR DETAILS.

Signature 4/4/10
Gordon Thomas, P.E.
3758 Blossom Court
Mason, OH 45040
Florida #46718

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. *10-0209-06*
Expiration Date *MAY 5, 2015*
By *Shayl L. Chan*
Miami Dade Product Control
Division

PRODUCT REVISED
as complying with the Florida
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Acceptance No. *12-0305-13*
Expiration Date *5/5/15*
By *Shayl L. Chan*
Miami Dade Product Control
Division

REVISIONS				
LTR	DESCRIPTION	DATE	APPROVED	
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C	REVISED DWGS.	RAP	12/03/07	
D	REVISED DWGS.	YMF	01/16/08	
E	REVISED DWGS.	YMF	02/28/08	
F	REVISED DWGS.	YMF	05/30/08	
G	REVISED PER MDBCCD	YMF	02/06/09	
H	REVISED DWG	YMF	02/01/10	
J	REVISED DWG	YMF	04/06/10	

TABLE 2

	QUANTITY	DESCRIPTION	MATERIAL	SIZE
1	1	HEAD SEE SHT 6 ASTM A366	.053\"	MAX. 100\"
2	1	VON DUPRIN (KOR) 9954 HDWE MULLION USED W/RIM HDWE	.123\" A500 STL	MAX. 96\" HEIGHT.
3	2	HINGE JAMB SEE SHT 6 ASTM A366	.053\" MIN. STL	MAX. 100\" HEIGHT.
4	2	LOCK SIDE REINFORCEMENT CHANNEL	.093\" MIN. STL	3.5 X 93.44 MAX
5	2	HINGE SIDE PANIC REINFORCEMENT	.067\" MIN. STL	MAX. 20\"
6	NOTE 3.	HINGE REINFORCEMENT DOOR ASTM A621	.167\" MIN. STL	1.28\" X 9.19\"
7	NOTE 3.	HINGE REINFORCEMENT FRAME ASTM A621	.167\" MIN. STL	1.3\" X 9.187\" MAX.
8	NOTE 3.	4.5\" X 4.5\" BUTT HINGES (SEE SHT.3)	.134 MIN.	(8) #12-24 MS PER HINGE
9	2	OPTIONAL CONTINUOUS HINGE (SEE SHT.3)	.067\" MIN. STL/12 ALUM	MAX. 95\"
10	2	CORE MATERIAL (SHT 4) (A) HONEYCOMB B) STEEL STIFFENED (C/F) POLYSTYRENE (D/F) POLYURETHANE/POLYISOCYANURATE E) MINERAL BOARD TEMPERATURE RISE CORE		
11	1	LOCKING HARDWARE - SEE SHEETS 2, 7 & 8 THRESHOLD SILL W/BUMPER GASKET (SEE TAB. 3&4 ON SHT.5)	.100\" ALUM. 6063 T5	5.50\"X0.5\"X96\"MAX.
12	NOTE 2.	JAMB ANCHOR ASTM A924	SEE SHEET 6	
13	NOTE 14.	PSQ74 WEATHER STRIPPING	TPE	MAX. 24\"
14	2	FAS-SEAL DOOR SWEEP	TPE	MAX. 47.66\"
15	4	END CHANNEL ASTM A924 (14 GA - INVERTED)		.69\" X 1.66\" X 47.66\" MAX.
16	1	SPLIT ASTRAGAL SET OR Z-ASTRAGAL (NOT REQ'D WITH HOLLOW METAL MULLION)	SEE SHEET 5	
17	AS NEEDED	BUTYL RUBBER OR 100% SILICONE		
18	2	DOOR SLAB (16 OR 14 GA)	SEE SHEET 6	4\" X 8\" MAX.
19	1	BY ZERO INT'L DOOR SEAL No.8144FS	SEE NOTE 13.	TPE MAX. 24\"
20	2	BY NGP DOOR SEAL No.5020		
21	2	BY ZERO INT'L DOOR SWEEP No.539		
22	2	BY NGP DOOR SWEEP No.202N		
23	2	BY ZERO INT'L DOOR SWEEP No.139		
24	2	BY ZERO INT'L OMIT	SEE SHEET 5	MAX. 48\"
25	2	BY ZERO INT'L ADJUSTABLE STOP No.475	TPE	MAX. 48\"
26	2	BY NGP ADJUSTABLE STOP No.170N		
27	2	BY ZERO INT'L RAIN DRIP No.11	SEE SHEET 5	MAX. 48\"
28	2	BY NGP DRIP CAP No.16A		
29	2	TOP CAP GALV. A60 ASTM A924	.020\" MIN. STL	0.5\" X 1.76\" X 48\" MAX.
30	2	IVES 360 12\" SURFACE BOLT		
31	1	ASA STRIKE		
32	1	Z-ASTRAGAL	.067\" MIN. STL	MAX. 95.5
33	1	HOLLOW METAL MULLION (SINGLE OR DOUBLE RABBIT)	SEE SHEET 6	MAX. 96\"

BEND RADIUS

THIRD ANGLE PROJECTION

DRAWN YMF DATE 05/20/07

CHECKED

APPROVED

ENG. APPVL JPD 10/12/07

Ingersoll Rand
Security Technologies

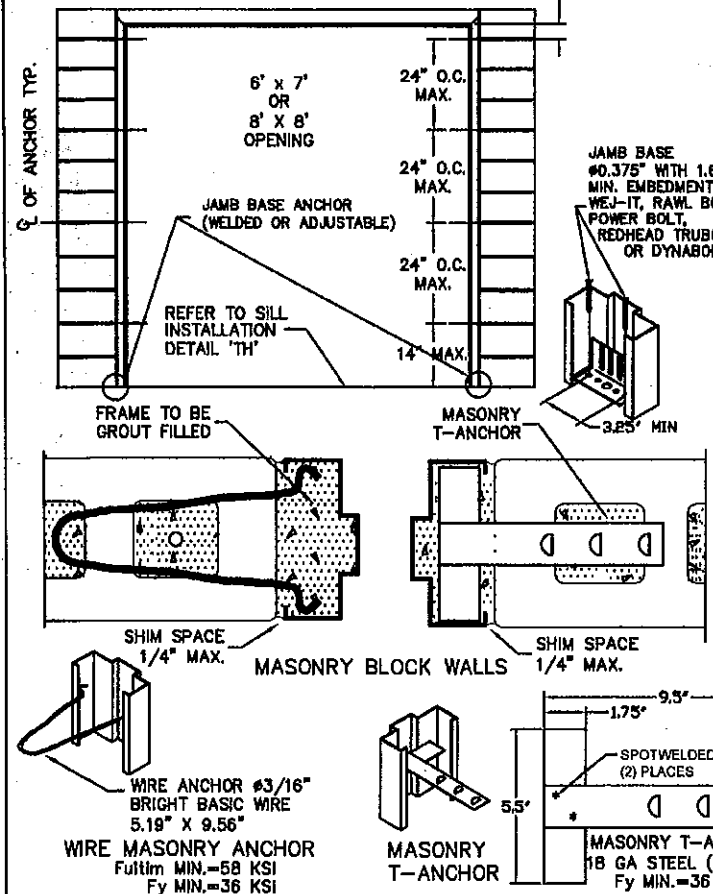
TITLE MIAMI-DADE PRODUCT APPROVAL

H-SERIES FLUSH DOUBLE DOORS
OUTSWING CONFIGURATIONS
IR HARDWARE.

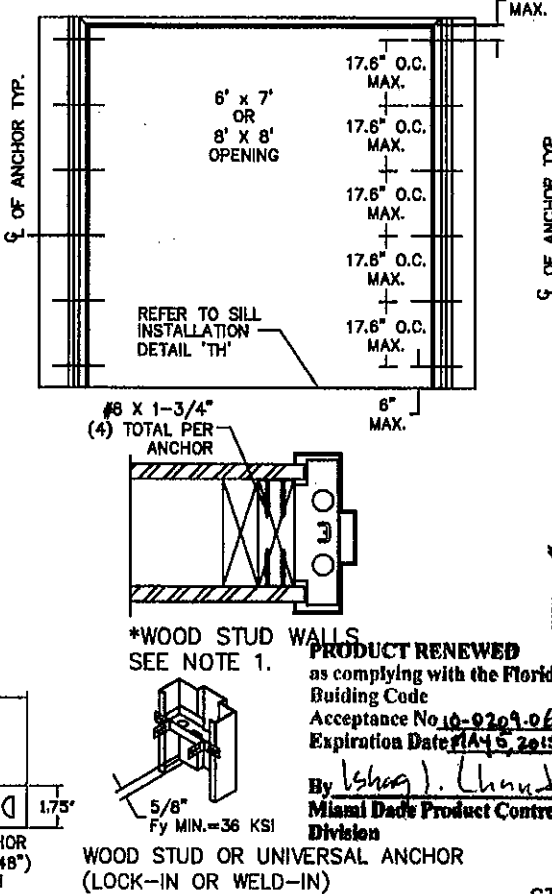
SIZE FLAT DWG NO. IRFD07

SCALE: NTS AUTOCAD SHEET 3 OF 11

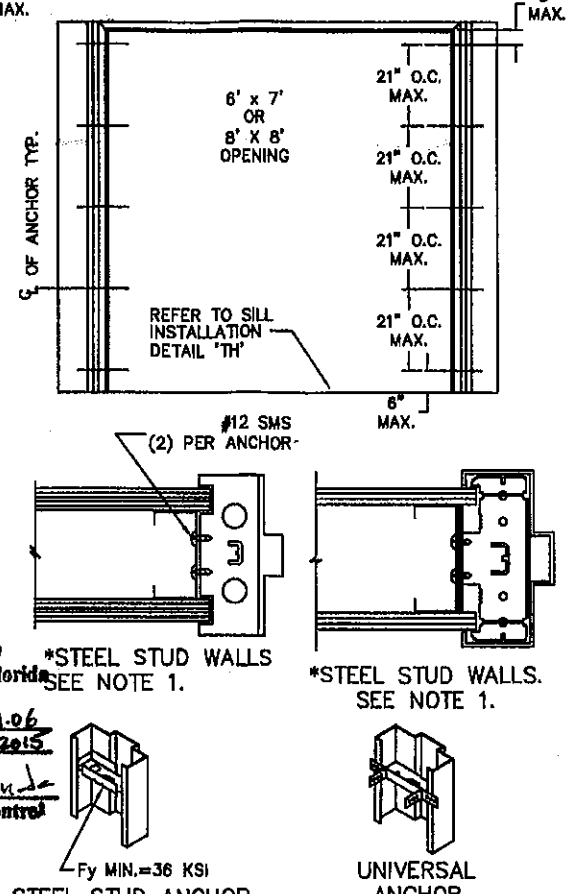
A WIRE MASONRY ANCHOR INTO GROUT FILLED FRAME AND BLOCK WALL



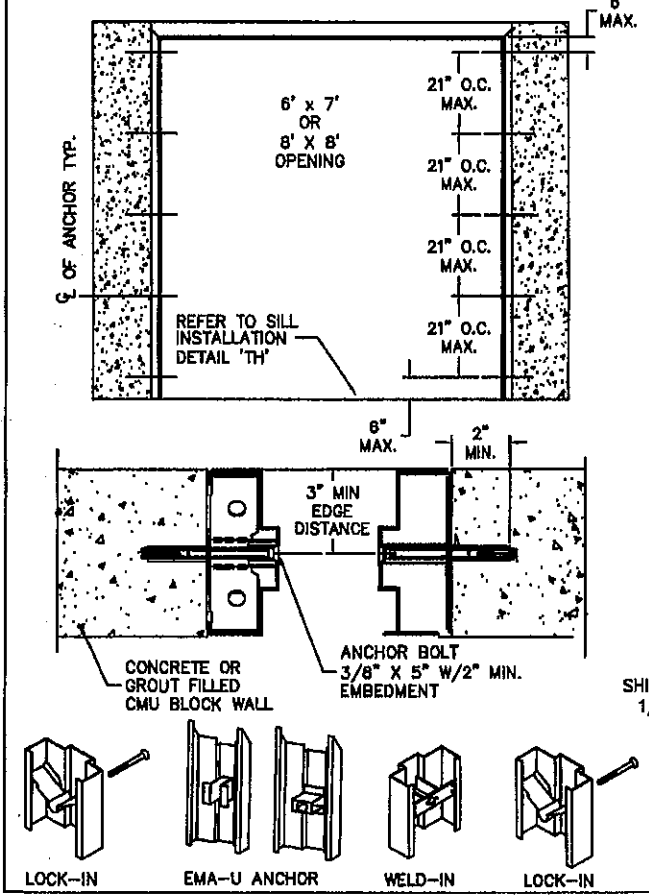
B WOOD STUD ANCHOR



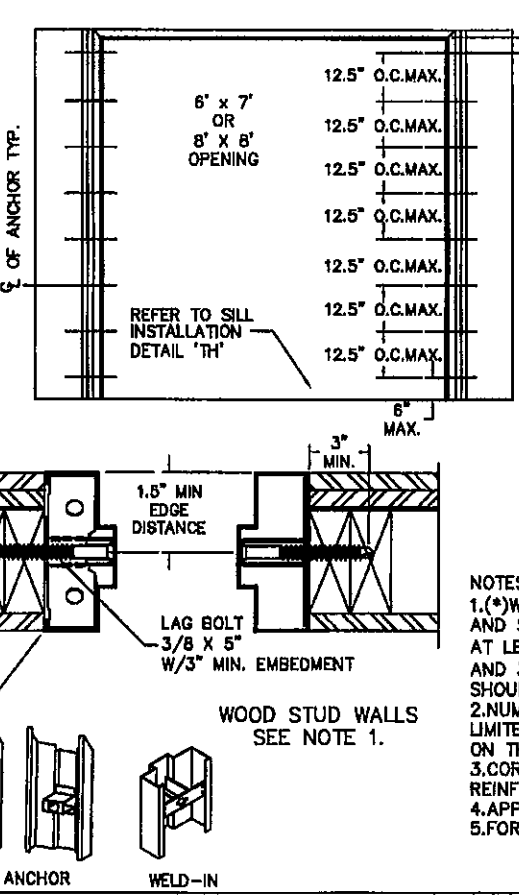
C STEEL STUD ANCHOR



D EXISTING MASONRY ANCHOR (EMA) INTO CONCRETE WALL OR CMU



E EXISTING MASONRY ANCHOR (EMA) WITH LAG BOLT INTO WOOD STUD WALL

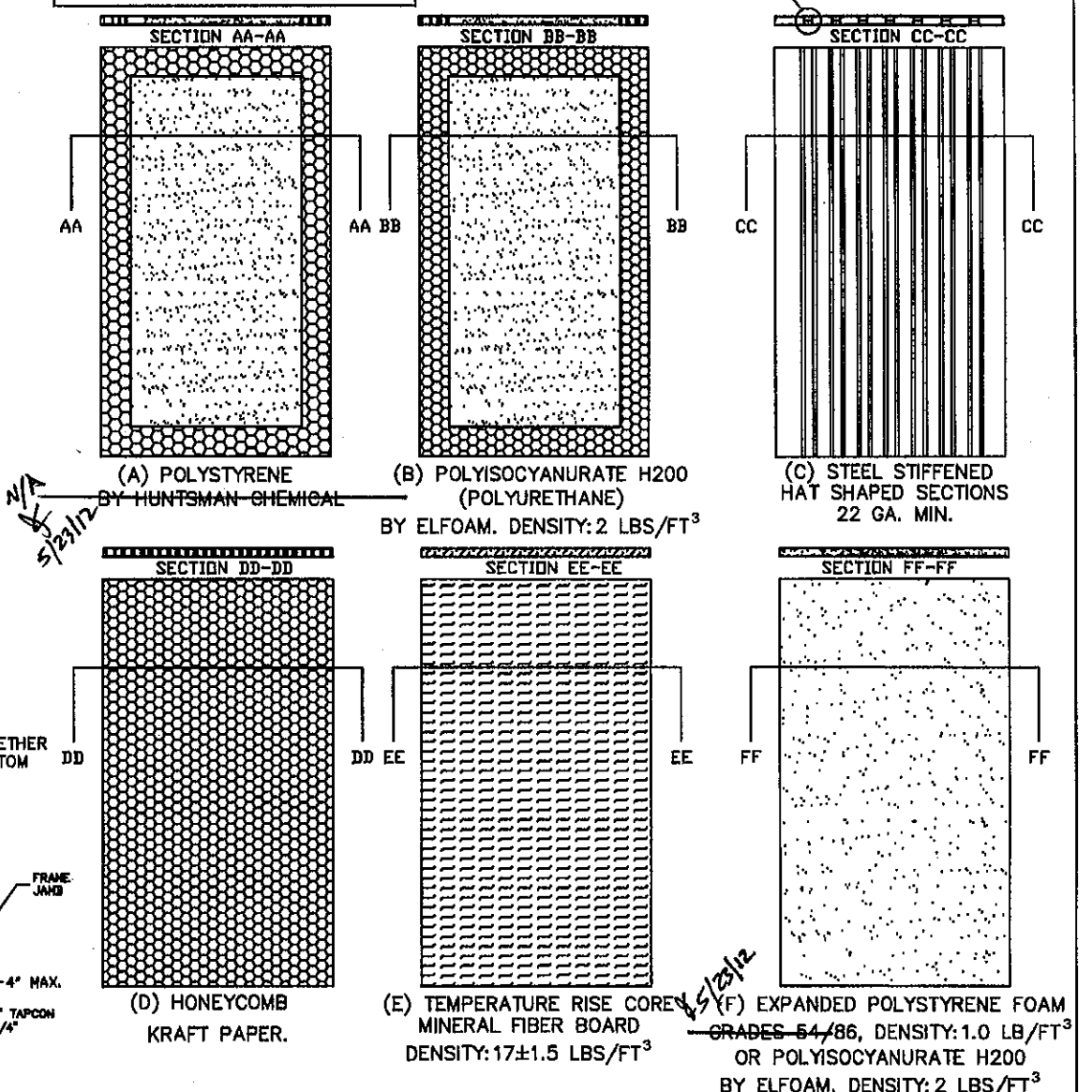


NOTES:
 1. (*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR ASSEMBLIES RATED @75 PSF, AND 375#/FT. FOR ASSEMBLIES RATED @ 90 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
 2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
 3. CORE MATERIAL SHOWN WITHOUT DOOR CUTOUTS AND REINFORCEMENTS.
 4. APPLY CAULK AS NEEDED.
 5. FOR SILL INSTALLATION AND ANCHORING SEE SHT 3 & 4.

As of 4/14/10
 Gordon Thomas, P.E.
 3750 Blossum Court
 Mason, OH 45040
 Florida # 48718

PRODUCT REVIEWED
 as complying with the Florida Building Code
 Acceptance No. 12-2305.13
 Expiration Date 5/5/15
Ismael L. Chandra

REVISIONS				
LTR	DESCRIPTION	DATE	APPROVED	
A	APPROVAL DWG	YMF	05/20/07	
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LOCK-IN EMA-U ANCHOR WELD-IN LOCK-IN EMA-U ANCHOR WELD-IN

BEND RADIUS

THIRD ANGLE PROJECTION

DRAWN YMF

CHECKED

APPROVED

ENG. APPVL JPD

DATE 05/20/07

DATE 10/12/07

Ingersoll Rand
 Security Technologies

TITLE MIAMI-DADE PRODUCT APPROVAL

ANCHOR DETAILS / INSTALLATION CONDITIONS
 CORE OPTIONS

SIZE FLAT DWG NO. IRFD07 REV J

SCALE: NTS AUTOCAD SHEET 4 OF 11

TABLE 3.

PERIMETER SEAL HARDWARE WHEN WATER INFILTRATION REQUIREMENT DOES APPLY					
ITEM NUMBER SHT. 3, TABLE 2	DESCRIPTION	MAX. ALLOWABLE DESIGN PRESSURE, PSF (UP TO) (SEE SHT. 1)	MODEL No./ MANUFACTURER	PART DETAIL	INSTALLATION DETAIL
11	THRESHOLD	+75	566/ZERO INT'L	'T1'	'P1'
			950/NGP	'T2'	'P2'
14	FAS-SEAL SWEEP	+75	STEELCRAFT	'S'	'P1' & 'P2'
16	SPLIT ASTRAGAL	+75	328/ZERO INT'L	'GG1'	'N3'
			137/NGP	'GG2'	
19 OR 13	SELF ADHESIVE DOOR SEAL	+75	8144F/ZERO INT'L	'U'	'M' & 'N'
			PS074/STEELCRAFT	'Q'	
20	DOOR SWEEP	+75	639/ZERO INT'L	'W1'	'N'
			202N/NGP	'W2'	
21	DOOR SWEEP	+75	139/ZERO INT'L	'X'	'P1'
22	ADJUSTABLE STOP	+75	475/ZERO INT'L	'Y1'	'M'
			170N/NGP	'Y2'	
23	RAIN DRIP CAP	+75	11/ZERO INT'L	'Z1'	'P1'
			18A/NGP	'Z2'	'P2'
24	DOOR TOP CAP	+75	STEELCRAFT	'R'	'M'

TABLE 4.

PERIMETER SEAL HARDWARE WHEN WATER INFILTRATION REQUIREMENT DOES NOT APPLY					
ITEM NUMBER SHT. 3, TABLE 2	DESCRIPTION	MODEL No. MANUFACTURER	PART DETAIL	INSTALLATION DETAIL	
11	THRESHOLD	566 BY ZERO INT'L	'T1'	'K'	
		950 BY NATIONAL GUARD	'T2'		
14	FAS-SEAL DOOR SWEEP	STEELCRAFT	'S'	'K'	
16	SPLIT ASTRAGAL	328 BY ZERO	'GG1'	'N3'	
		137 BY NGP	'GG2'		
13	PS-074 SELF ADHESIVE WEATHERSTRIPPING	STEELCRAFT	'Q'	'J' & 'L'	
24	DOOR TOP CAP	STEELCRAFT	'R'	OPTIONAL	

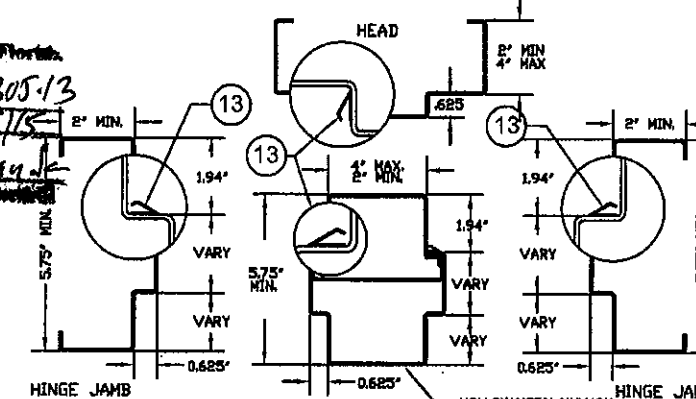
Gordon Thomas, P.E.
3759 Blossom Court
Mason, OH 45040
Florida # 48718

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as complying with the Florida
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Acceptance No. 12-0305-13
Expiration Date 5/5/15
By: [Signature]
Product Control Division

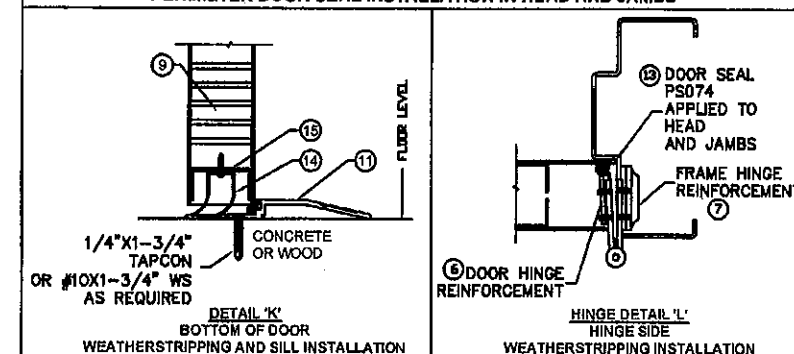
REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	YMF 05/20/07	
B	REVISED DWG	RAP 10/12/07	
C	REVISED DWG	RAP 12/03/07	
D	REVISED DWG	YMF 01/07/07	
E	REVISED DWG	YMF 04/09/08	
F	REVISED DWG	YMF 06/02/08	
G	REVISED PER MDBCCO	YMF 02/06/09	
H	REVISED DWG	YMF 03/18/09	
J	REVISED PER MDBCCO	YMF 04/06/10	

PERIMETER SEAL INSTALLATION DETAILS WHEN WATER INFILTRATION REQUIREMENTS DO NOT APPLY



PERIMETER DOOR SEAL INSTALLATION IN HEAD AND JAMBS



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Division

- NOTES:
1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-189 POLYPROPYLENE HOMOPOLYMER.
3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73
4. FAS-SEAL DOOR SWEEP (14), AND THRESHOLD (11) ARE REQUIRED FOR ALL INSTALLATIONS.



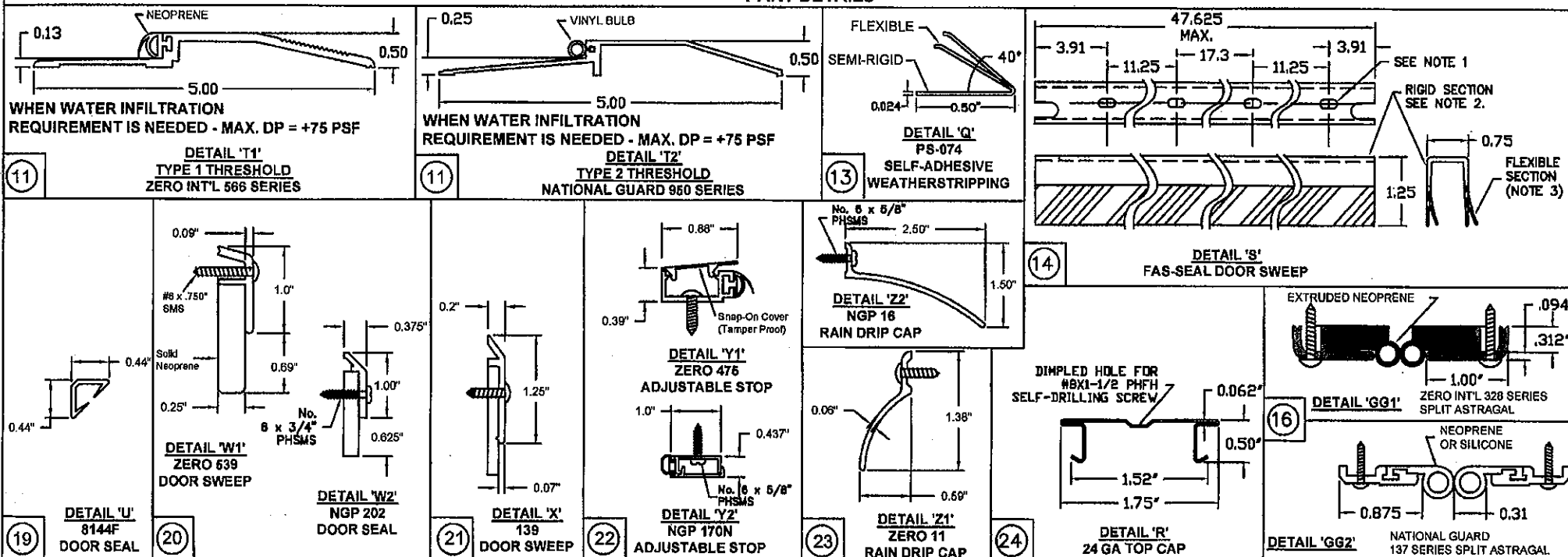
Ingersoll Rand
Security Technologies

TITLE MIAMI-DADE PRODUCT APPROVAL

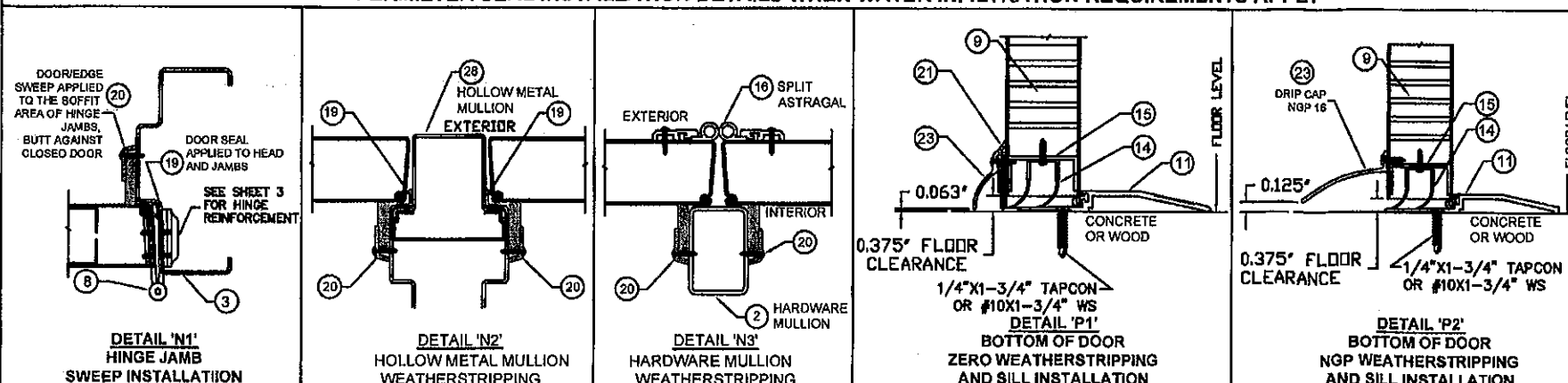
DOUBLE FLUSH DOOR PERIMETER SEAL HARDWARE.

SIZE	FLAT	DWG NO.	IRFD07	REV	J
SCALE	NTS	AUTOCAD	SHEET	5 of 11	

PART DETAILS



PERIMETER SEAL INSTALLATION DETAILS WHEN WATER INFILTRATION REQUIREMENTS APPLY

DETAIL 'M'
TOP OF DOOR/HEAD WEATHERSTRIPPING
WHEN WATER INFILTRATION REQUIREMENTS APPLY

BEND RADIUS

THIRD ANGLE PROJECTION

DRAWN

YMF

CHECKED

APPROVED

ENG. APPVL

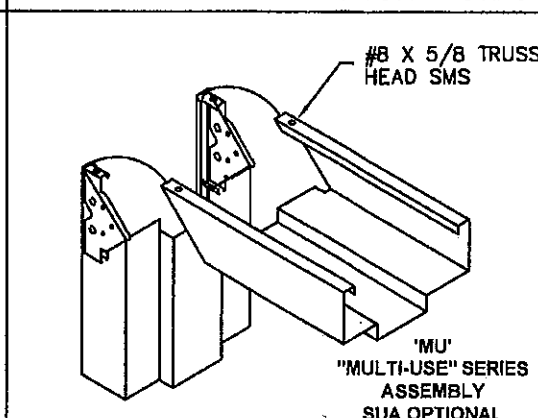
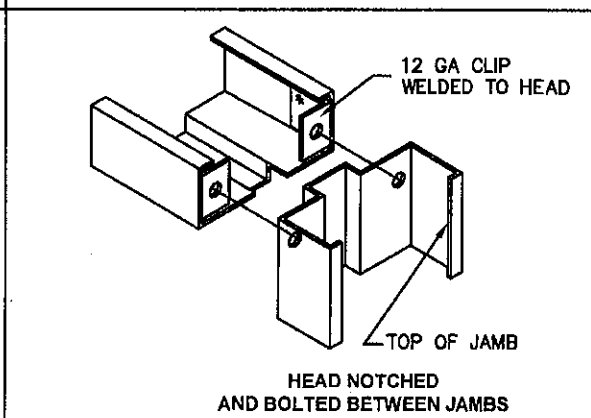
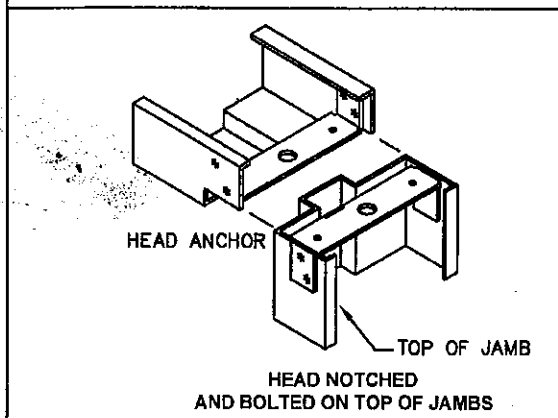
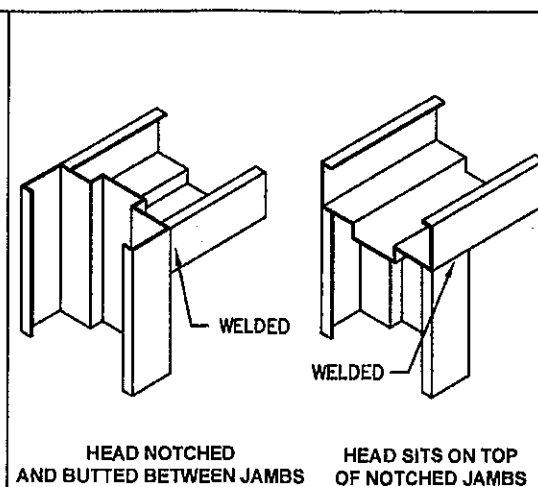
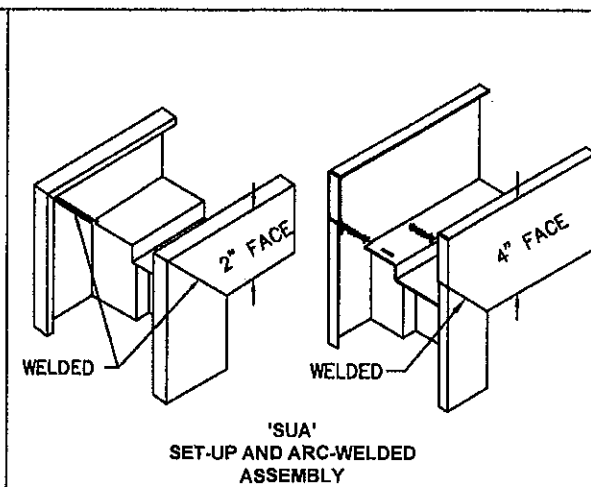
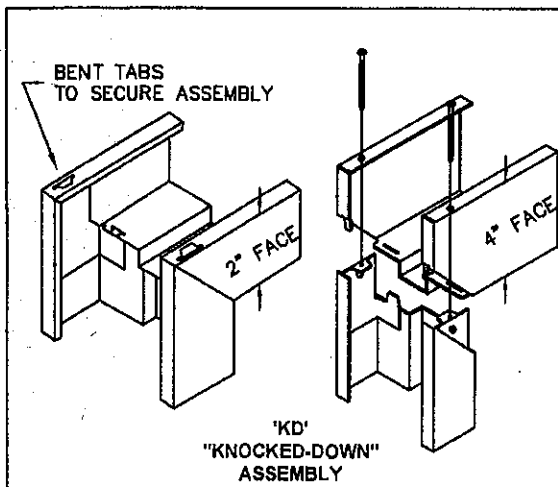
JPD

DATE

05/20/07

DATE

10/11/07



[Signature] 11/14/10
 Gordon Thomas, P.E.
 3759 Blossom Court
 Mason, OH 45040
 Florida # 46718

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 12-0305-13
 Expiration Date 5/5/15
[Signature]

REVISIONS				
LTR	DESCRIPTION	DATE	APPROVED	
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E	REVISED DWG	YMF 04/09/08		
F	REVISED DWG	YMF 06/02/08		
G	REVISED PER_MDBCCO	YMF 02/06/09		
H	REVISED DWG	YMF 03/18/09		
J	REVISED DWG	YMF 04/06/10		

TABLE 7. STEEL MECHANICAL PROPERTIES

MATERIAL	ASTM REF.	YIELD KSI	TENSILE KSI
CRS	A1008	MIN. 30.1	MIN. 44.7
HRS	A1011		
GALV: A60	A924	MIN. 31.2	MIN. 73.2
SS: 304,306	A240		

TABLE 6. AVAILABLE FRAME CONFIGURATIONS

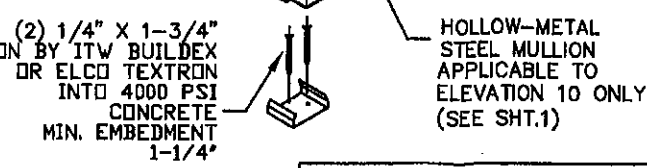
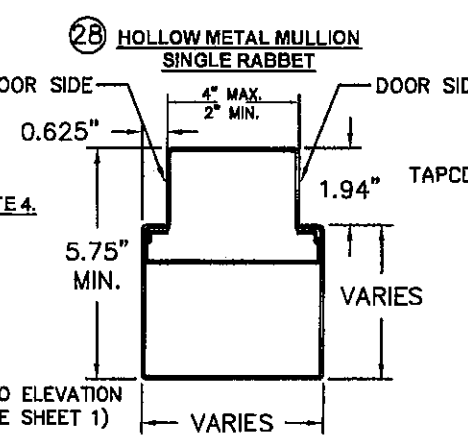
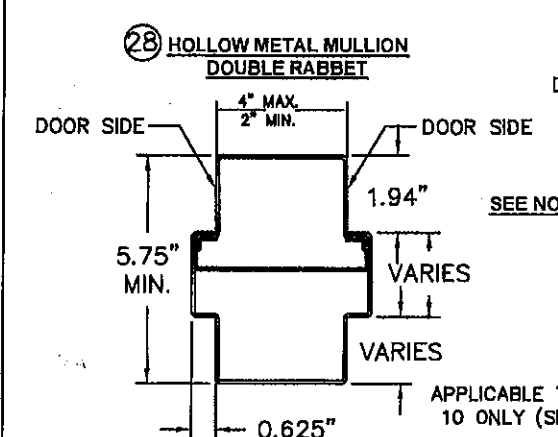
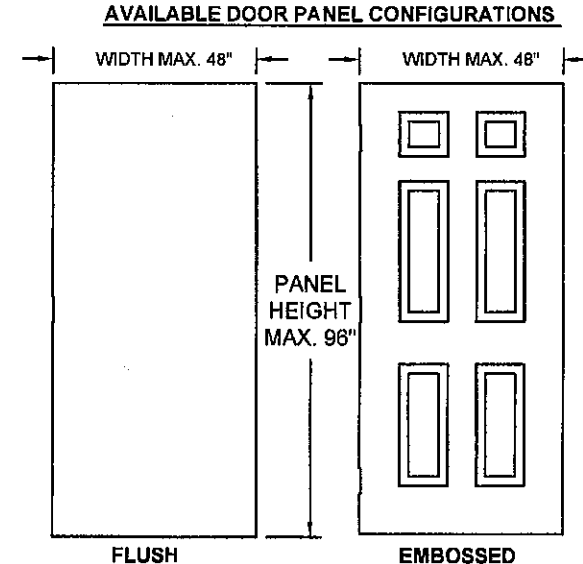
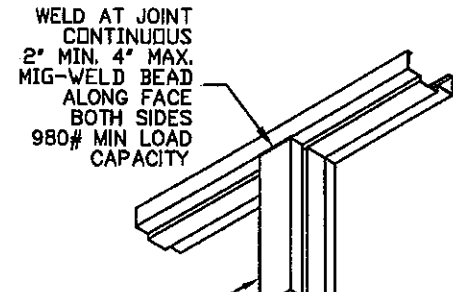
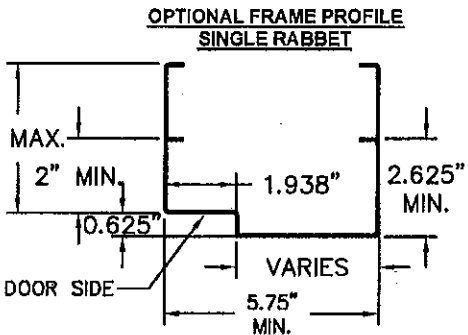
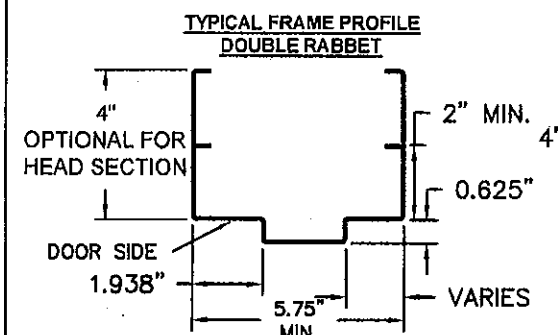
FRAME SERIES	JAMB DEPTH	MAX. OPENING SIZE		MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
F	5.75" MIN.	8'0"	8'0"	CRS/HRS GALV	16/.053" 14/.067" 12/.099"
				STAINLESS STEEL	16/.053"
MU	5.75" MIN.	8'0"	8'0"	CRS/HRS GALV	16/.053" 14/.067"

TABLE 5. AVAILABLE DOOR CONFIGURATIONS

CORE MATERIAL PER SHT.4	MAXIMUM OPENING SIZE		SKIN MATERIAL	
	WIDTH	HEIGHT	DESCR.	GA./MIN. THK
HONEYCOMB POLYSTYRENE POLYURETHANE (POLYISOCYANURATE) TEMPERATURE RISE STEEL STIFFENED	VARIES SEE SHEET 2 TABLE 1		CRS GALV	16/.053" 14/.067"
HONEYCOMB POLYSTYRENE POLYURETHANE	VARIES SEE SHEET 2 TABLE 1		STAINLESS STEEL	16/.053"

NOTES:

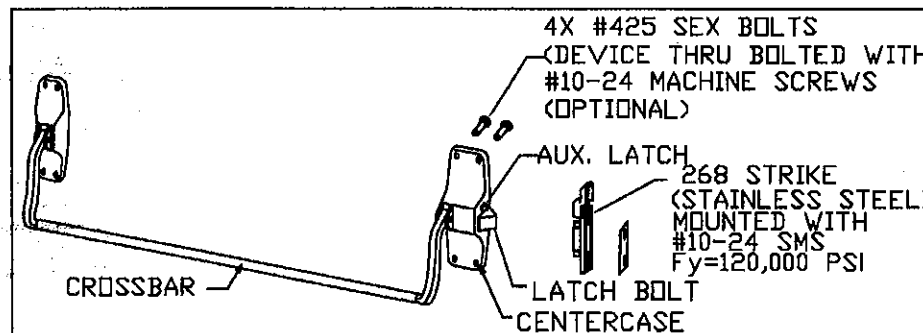
- DOOR CONSTRUCTION
 - MINIMUM DOOR THICKNESS - 1 3/4"
 - DOOR SIZE MAY VARY, SUBJECTED TO COMPLIANCE WITH FLORIDA BUILDING CODE AND PRODUCT AVAILABILITY FROM MANUFACTURER (SEE SHEET 2 FOR AVAILABLE HARDWARE)
 - PEEP-HOLES AND DOOR VIEWERS ARE ALLOWED
- FRAME CONSTRUCTION
 - MINIMUM JAMB DEPTH - 5 3/4", STOP HEIGHT - 5/8"
 - FRAMES AVAILABLE AS FLUSH (F-SERIES) AND MULT-USE (MU-SERIES) (SEE TABLE 6)
 - FOR MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 7.
 - HOLLOW METAL MULLION (ITEM 28 PER TAB.2, SHT.3) TO BE USED WITH 3-POINT LATCH IN DOOR CONFIGURATION #10



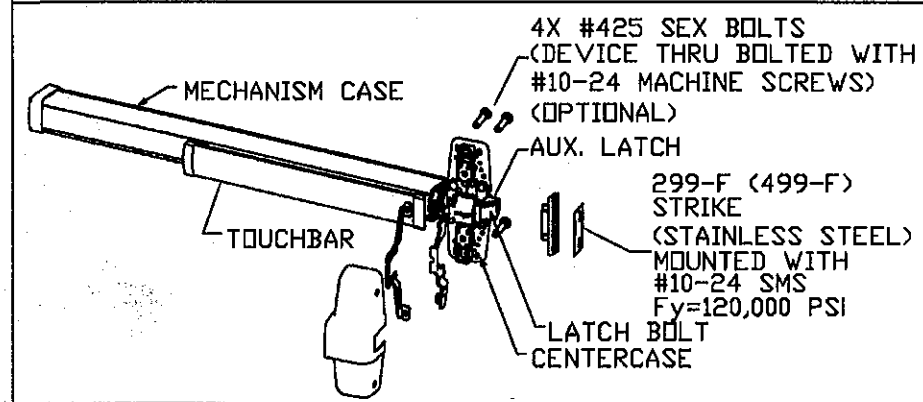
MATERIAL IS PER TABLE 7. MINIMUM THICKNESS IS 0.053" (16 Ga.)
 MINIMUM YIELD STRENGTH = 58,000 PSI
 MINIMUM TENSILE STRENGTH = 45,700 PSI

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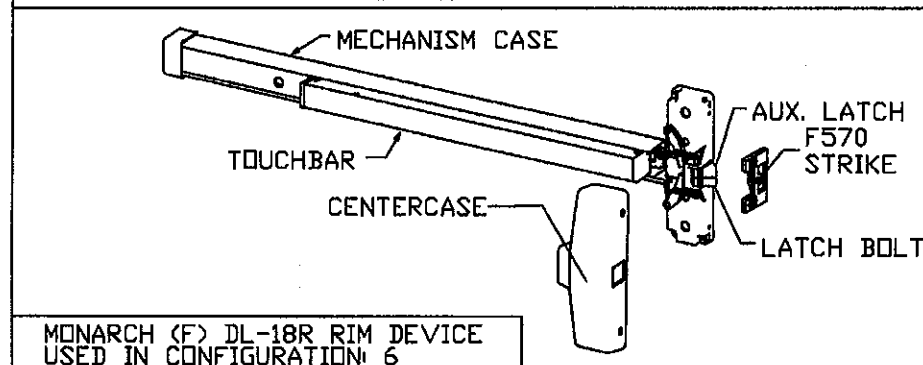
BEND RADIUS				Ingersoll Rand Security Technologies	
THIRD ANGLE PROJECTION					
DRAWN YMF	DATE 05/20/07	TITLE MIAMI-DADE PRODUCT APPROVAL			
CHECKED		FRAME PROFILE, CORNER DETAILS AND DOOR FRAME MATERIAL, AND SIZE OPTIONS			
APPROVED		SIZE	FLAT	DWG NO.	IRFD07
ENG. APPVL JPD	10/12/07	SCALE:	NTS	AUTOCAD	SHEET 6 of 11



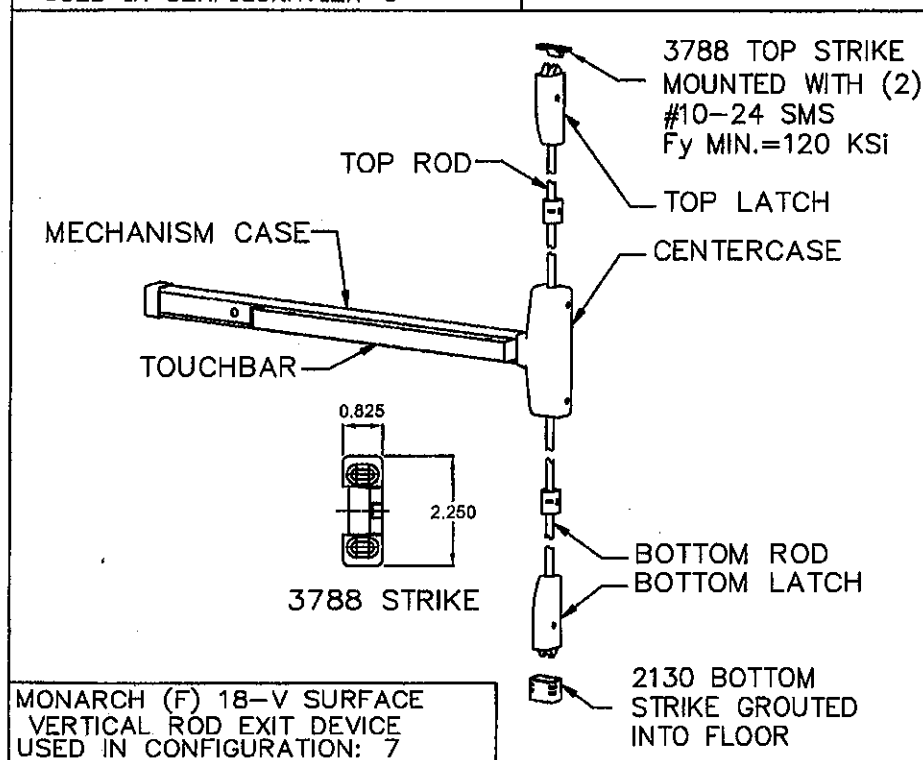
VON DUPRIN 88-F RIM DEVICE
USED IN CONFIGURATION: 6



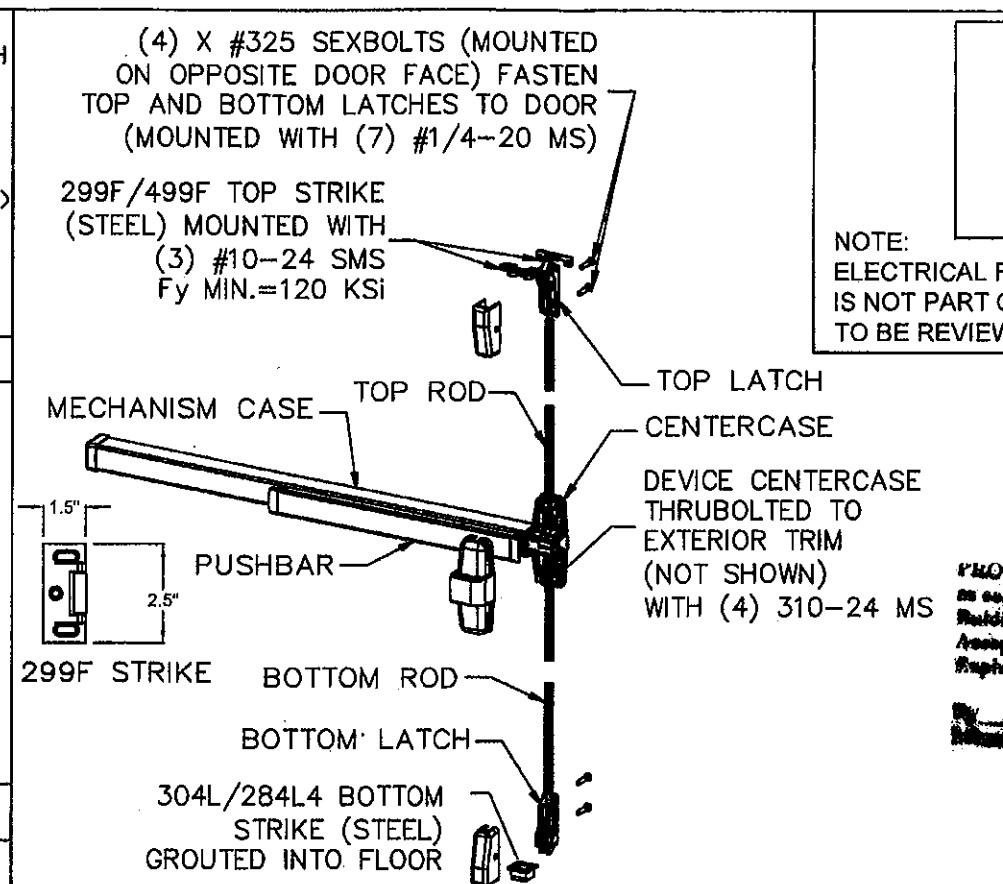
VON DUPRIN 98/99 (F) RIM DEVICE
USED IN CONFIGURATION: 6



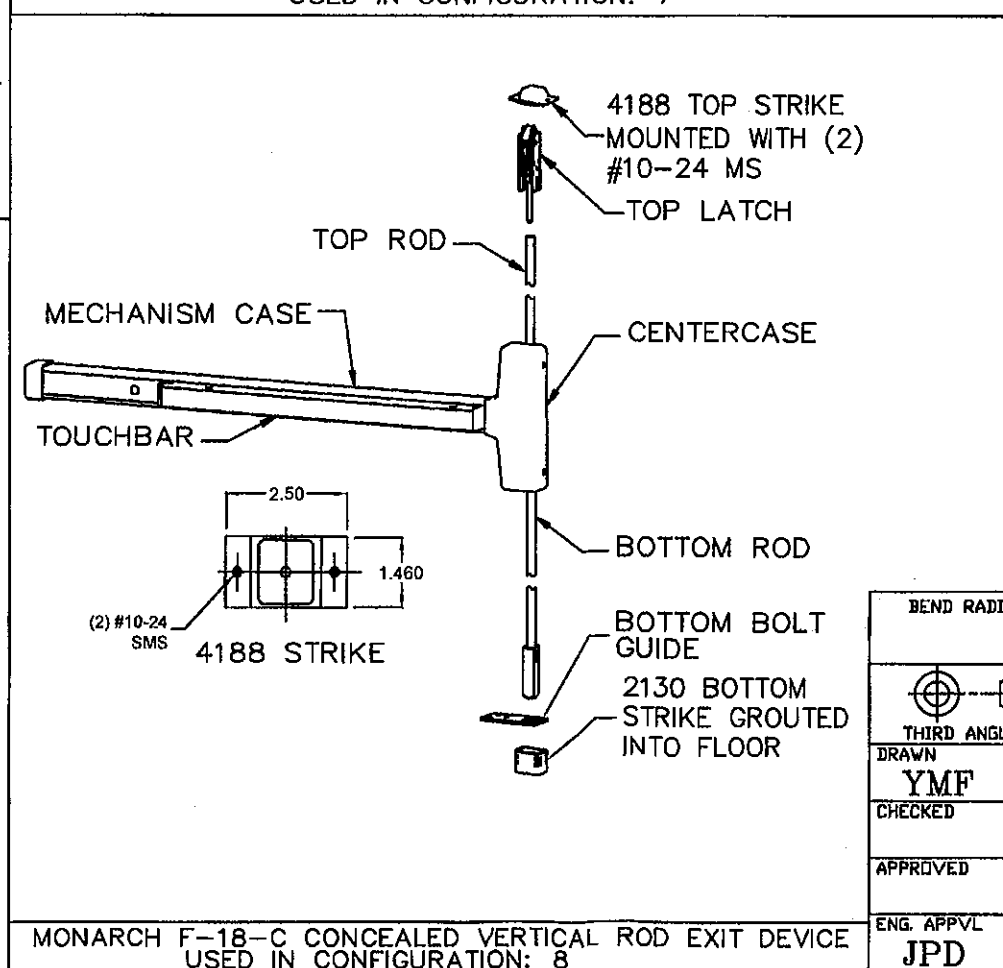
MONARCH (F) DL-18R RIM DEVICE
USED IN CONFIGURATION: 6



MONARCH (F) 18-V SURFACE
VERTICAL ROD EXIT DEVICE
USED IN CONFIGURATION: 7



VON DUPRIN 98/9927 (F) SURFACE VERTICAL ROD EXIT DEVICE
USED IN CONFIGURATION: 7



MONARCH F-18-C CONCEALED VERTICAL ROD EXIT DEVICE
USED IN CONFIGURATION: 8

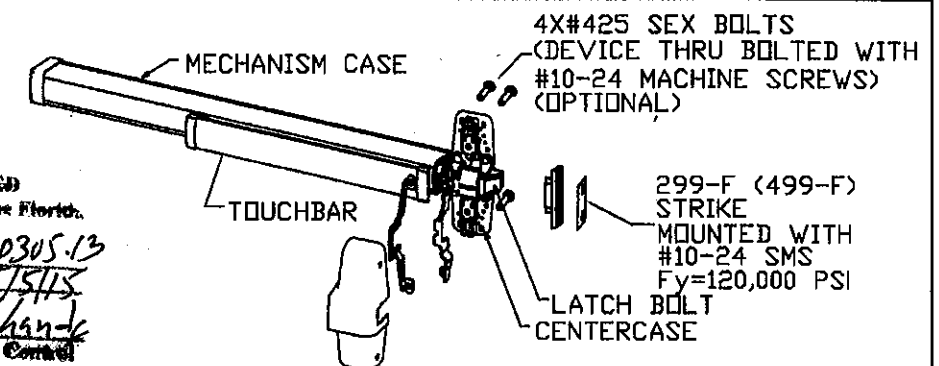
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 10-0209-06
Expiration Date 01-15-2015
By *Shag L. Chan*
Miami Dade Product Control
Division

NOTE:
ELECTRICAL FUNCTIONS/INSTALLATION
IS NOT PART OF THIS APPROVAL AND
TO BE REVIEWED BY BUILDING OFFICIAL

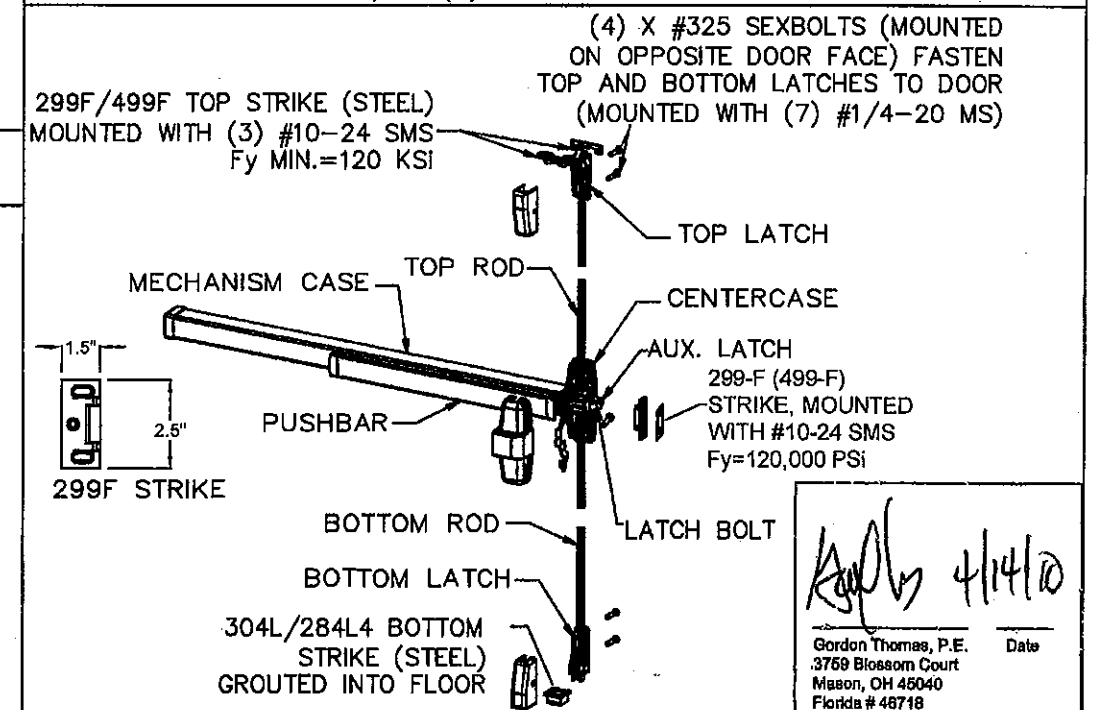
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0305-13
Expiration Date 5/5/15
By *Shag L. Chan*
Miami Dade Product Control
Division

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
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C	REVISED DWG	RAP	12/03/07
D	REVISED DWG	YMF	01/23/08
E	REVISED DWG	YMF	04/09/08
F	REVISED DWG	YMF	06/02/08
G	REVISED PER_MDBCCD	YMF	02/06/09
H	REVISED DWG	YMF	03/18/09
J	REVISED PER_MDBCCD	YMF	04/06/10



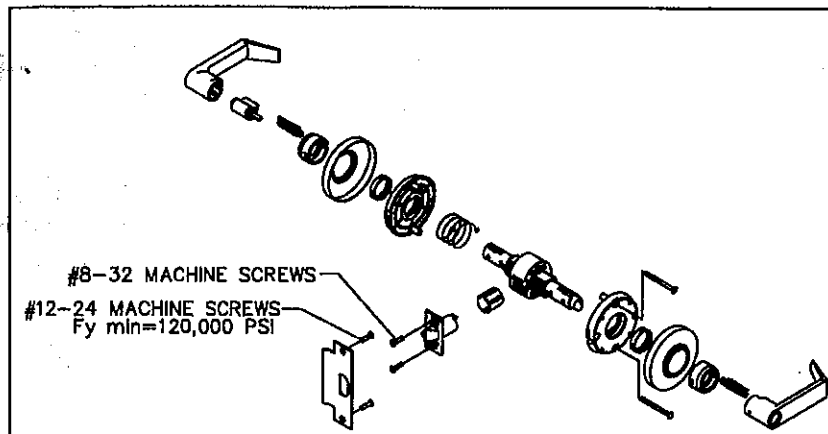
VON DUPRIN XP98/99 (F) USED IN CONFIGURATION: 5



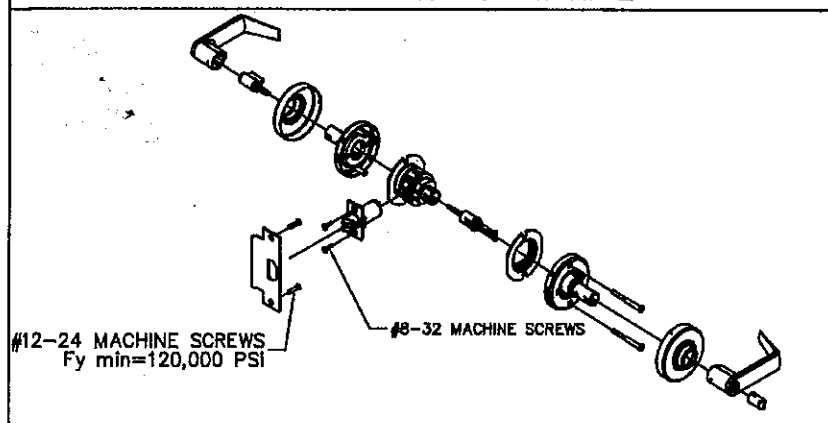
VON DUPRIN 98/9957 (F) THREE-POINT LATCHING DEVICE
USED IN CONFIGURATIONS: 9 & 10

BEND RADIUS	
THIRD ANGLE PROJECTION	
DRAWN YMF	DATE 05/20/07
CHECKED	DATE
APPROVED	DATE
ENG. APPVL JPD	DATE 10/12/07

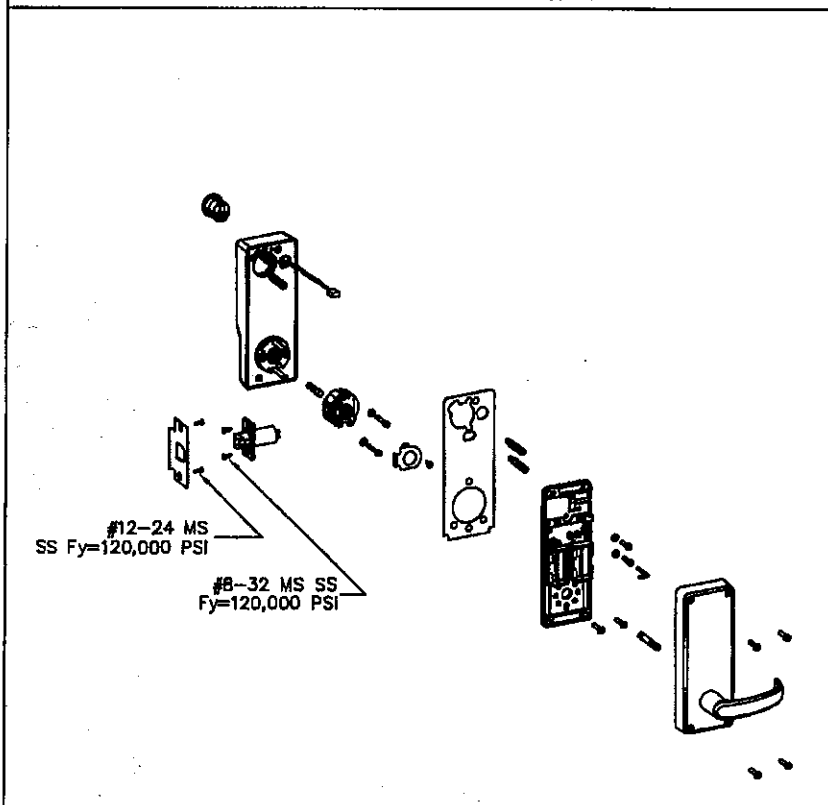
Ingersoll Rand Security Technologies		TITLE MIAMI-DADE PRODUCT APPROVAL	
		IR EXIT HARDWARE FOR FLUSH DOUBLE DOORS.	
SIZE	FLAT	DWG NO.	REV
		IRFD07	J
SCALE	NTS	AUTOCAD	SHEET 7 OF 11



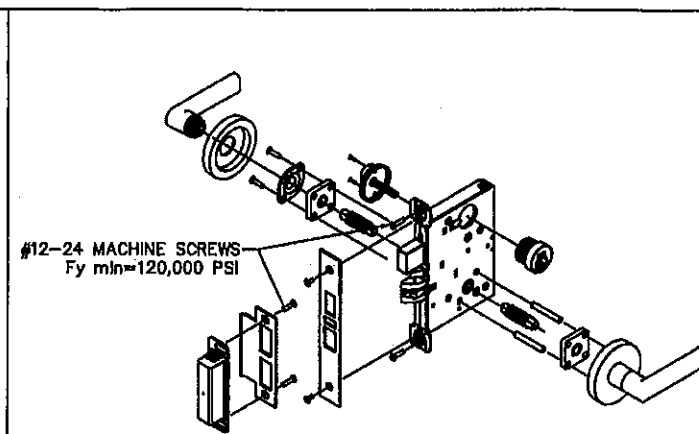
SCHLAGE AL SERIES
CYLINDRICAL LEVER LOCKSET WITH 1/2" THROW LATCH
USED IN CONFIGURATION: 2



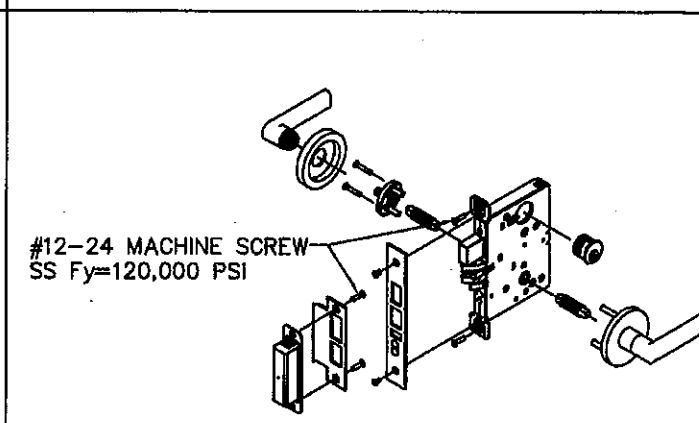
SCHLAGE D/ND-SERIES CYLINDRICAL LEVER LOCKSET.
USED IN CONFIGURATIONS: 3 & 4



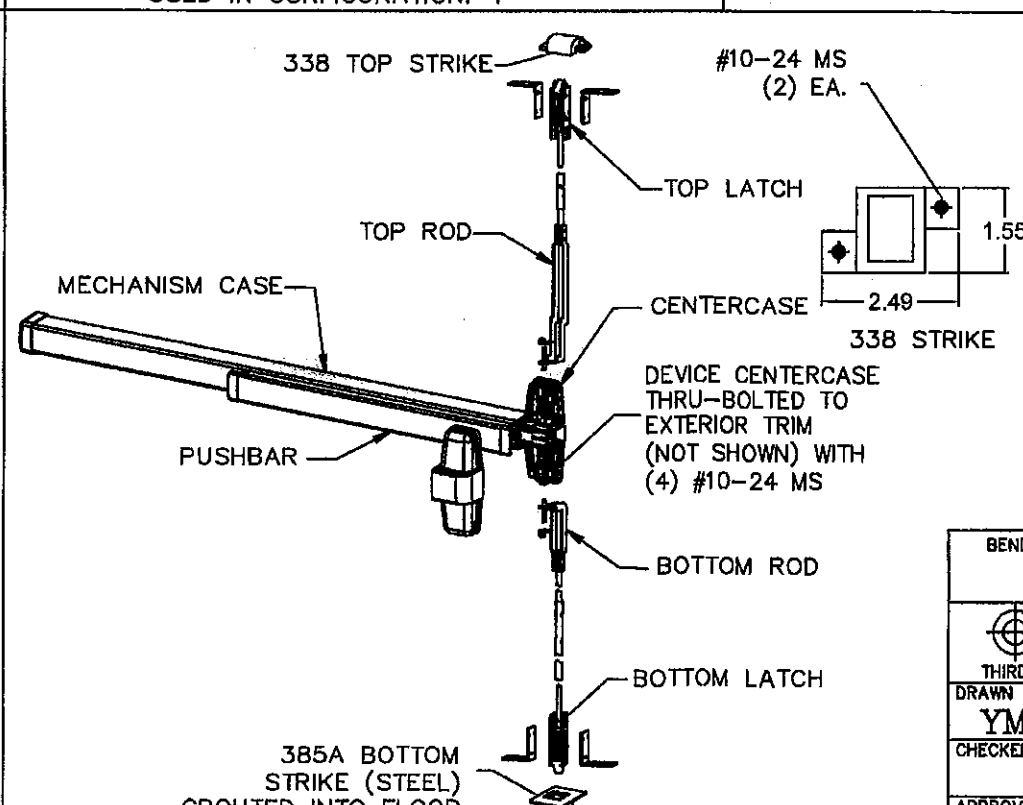
LOCKNETICS / SCHLAGE 5100 SERIES
CYLINDRICAL LEVER LOCKSET.
USED IN CONFIGURATION: 4



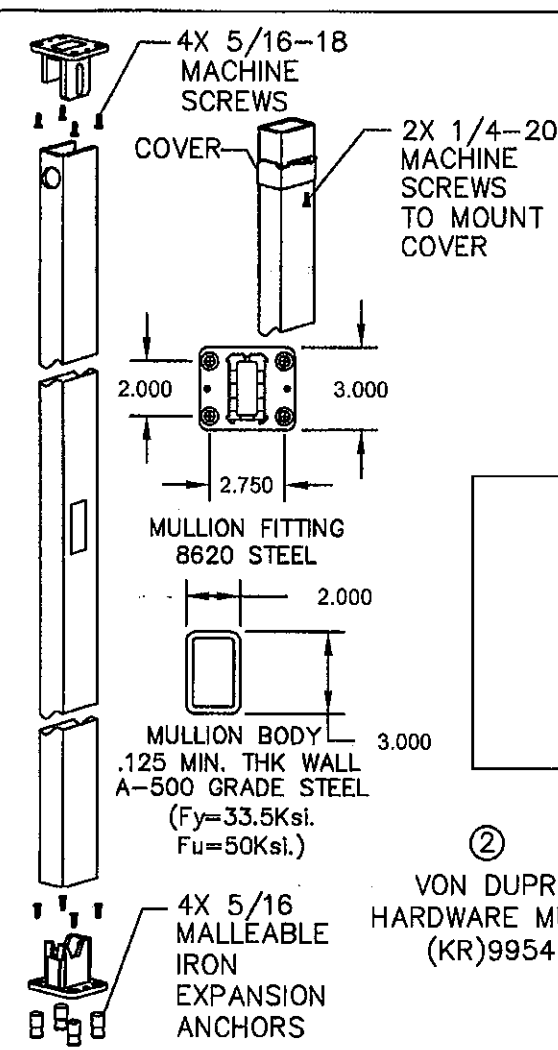
SCHLAGE L/LV 9400 SERIES MORTISE LOCKSET
W/ DEADBOLT. USED IN CONFIGURATION: 1



FALCON M-SERIES MORTISE LOCKSET W/ DEADBOLT
USED IN CONFIGURATION: 1



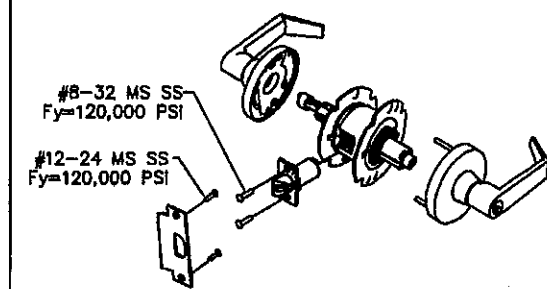
VON DUPRIN 98/9947-F CONCEALED VERTICAL ROD EXIT DEVICE
USED IN CONFIGURATION: 8



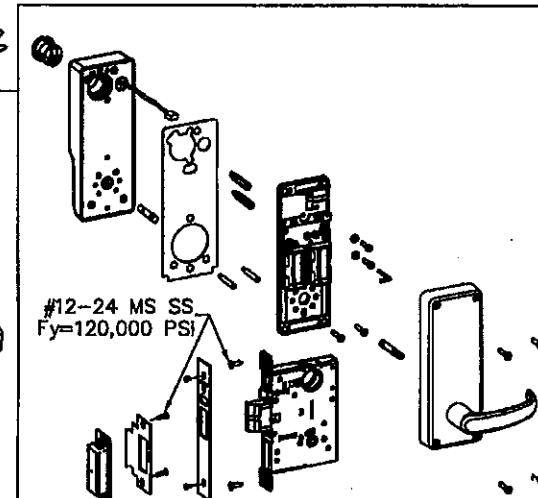
②
VON DUPRIN
HARDWARE MULLION
(KR)9954

PRODUCT RENEWED
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Expiration Date MAY 5, 2015
By /shag1.1hand-
Miami Dade Product Control
Division

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as complying with the Florida
Building Code
Acceptance No 12-0305.13
Expiration Date 5/5/15
By /shag1.1hand-
Miami Dade Product Control
Division



FALCON, T-SERIES CYLINDRICAL
LEVER LOCKSET.
USED IN CONFIGURATION: 4



LOCKNETICS / SCHLAGE 5500 SERIES
MORTISE LOCKSET W/ AUTOBOLT.
USED IN CONFIGURATION: 1

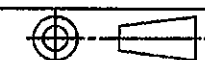
REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
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Gordon Thomas
Gordon Thomas, P.E.
3759 Blossom Court
Mason, OH 45040
Florida # 46718
Date 4/14/10

BEND RADIUS



THIRD ANGLE PROJECTION

DRAWN YMF DATE 05/20/07

CHECKED

APPROVED

ENG. APPVL JPD

10/12/07



Ingersoll Rand
Security Technologies

TITLE MIAMI-DADE PRODUCT APPROVAL

IR EXIT HARDWARE FOR FLUSH DOUBLE DOORS.

SIZE

FLAT

DWG NO.

IRFD07

REV

J

SCALE:

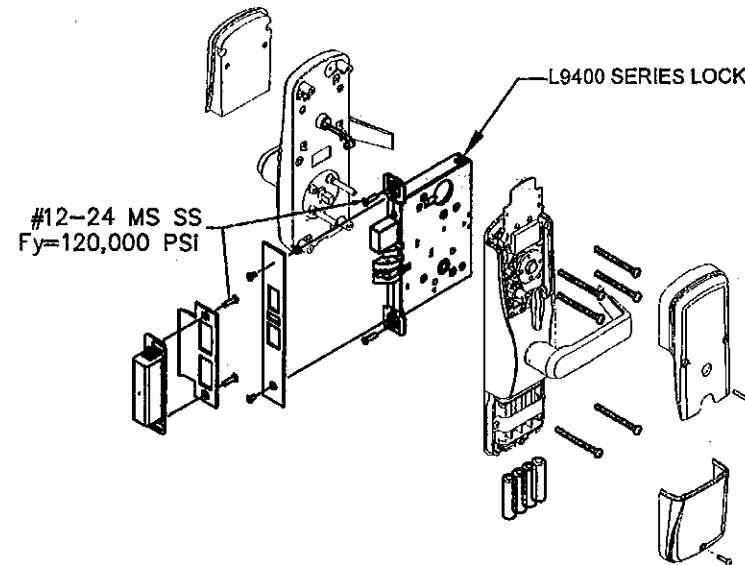
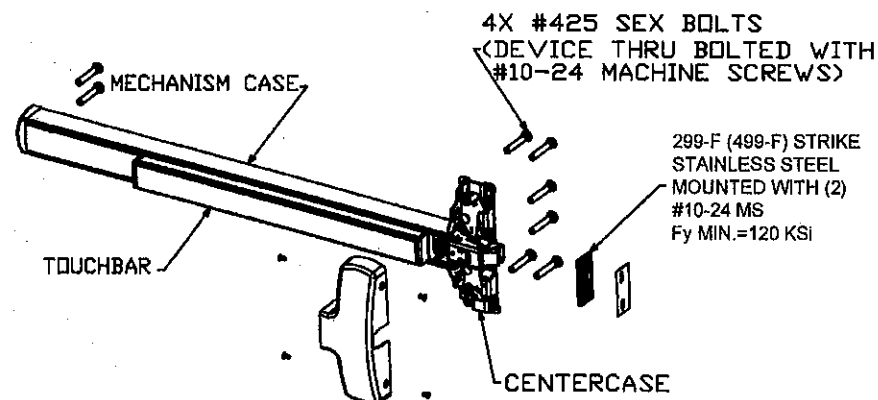
NTS

AUTOCAD

SHEET

8

of 11



Gordon Thomas, P.E.
3759 Blossom Court
Mason, OH 45040
Florida # 46718

Date

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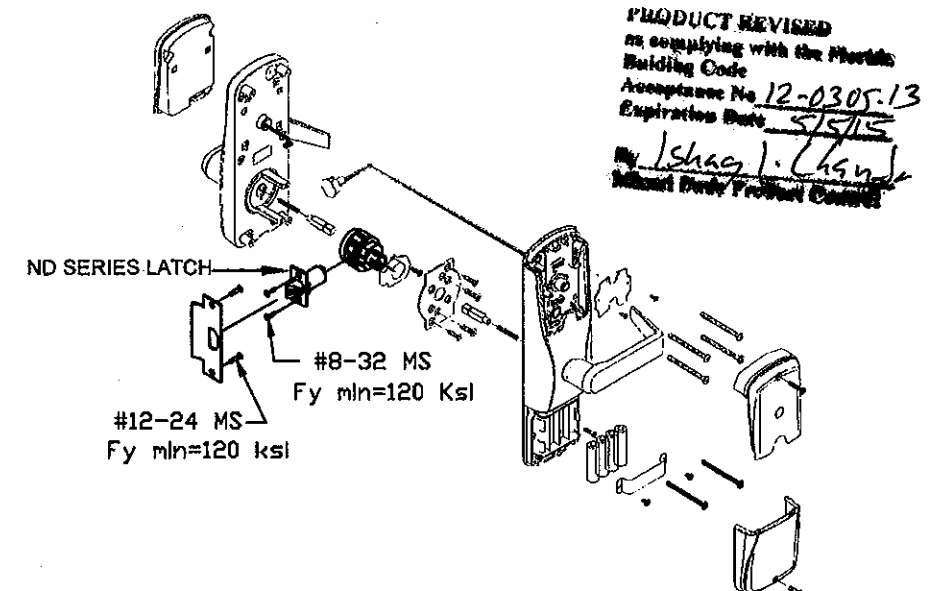
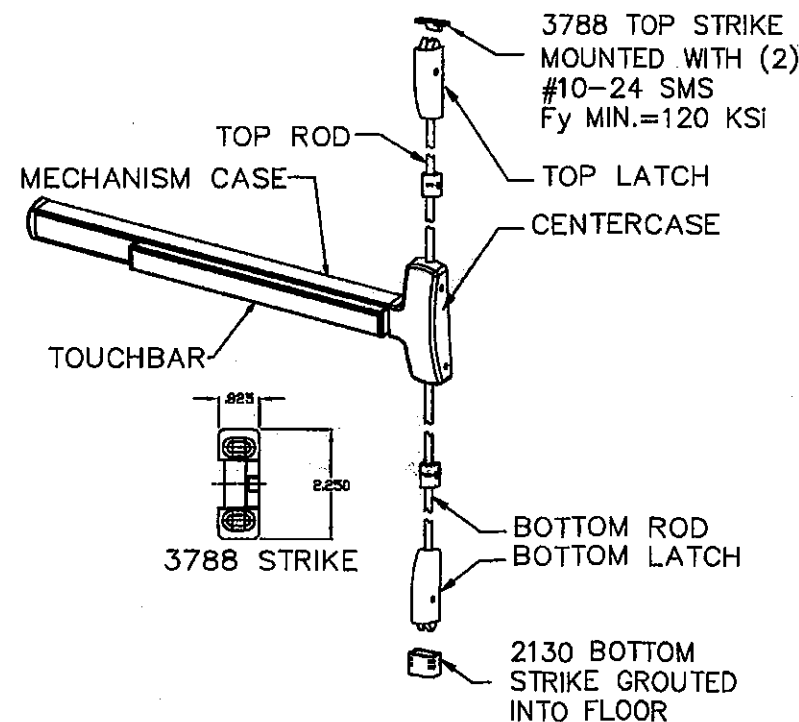
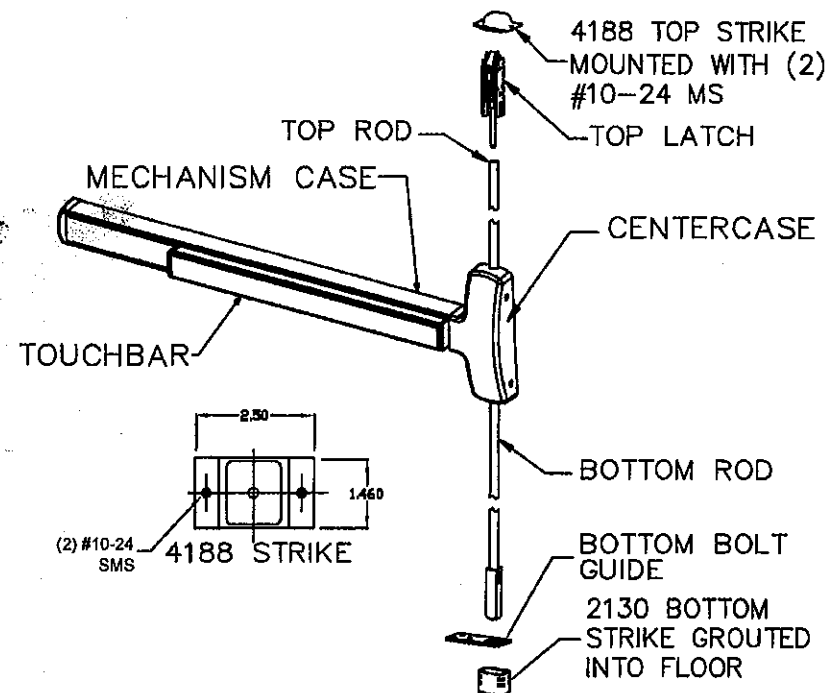
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By Ishag I. Chahin
Miami Dade Product Control
Division

RIM EXIT DEVICE FALCON (F)25-R
USED IN DOOR CONFIGURATION 11 (SEE SHT.1)

SCHLAGE CO/AD MS SERIES MORTISE LOCKSET WITH DEADBOLT
USED IN CONFIGURATIONS: 1 (SEE SHT. 1)



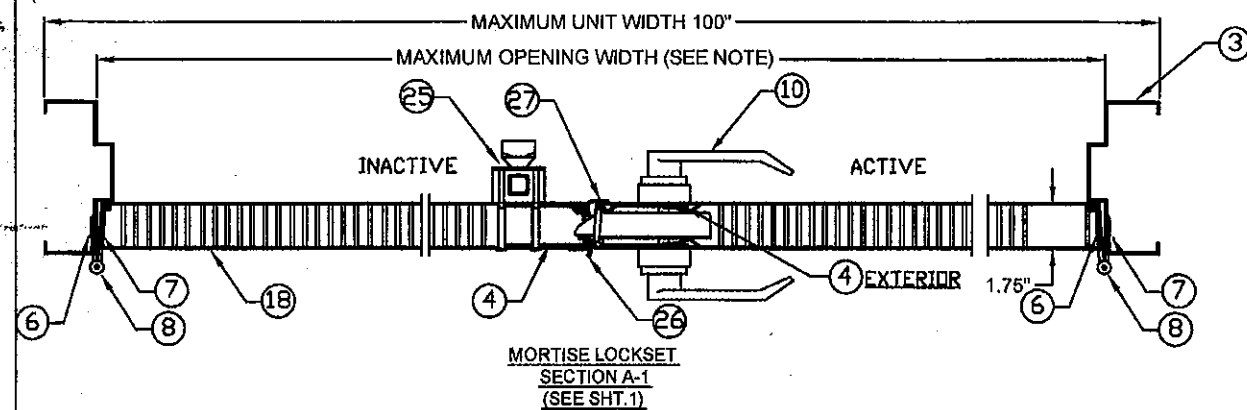
PRODUCT REVISED
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Miami Dade Product Control
Division

SCHLAGE CO/AD CY SERIES CYLINDRICAL LOCKSET
USED IN CONFIGURATIONS: 3&4 (SEE SHT.1)

CONCEALED VERTICAL ROD EXIT DEVICE FALCON F-25-C
USED IN DOOR CONFIGURATION 8 (SEE SHT.1)

SURFACE VERTICAL ROD EXIT DEVICE FALCON (F)25-V
USED IN DOOR CONFIGURATION 7 (SEE SHT.1)

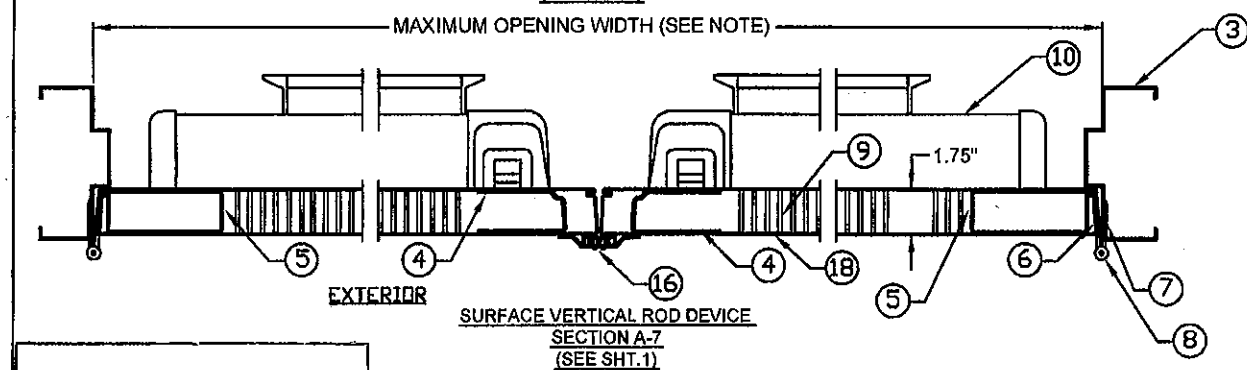
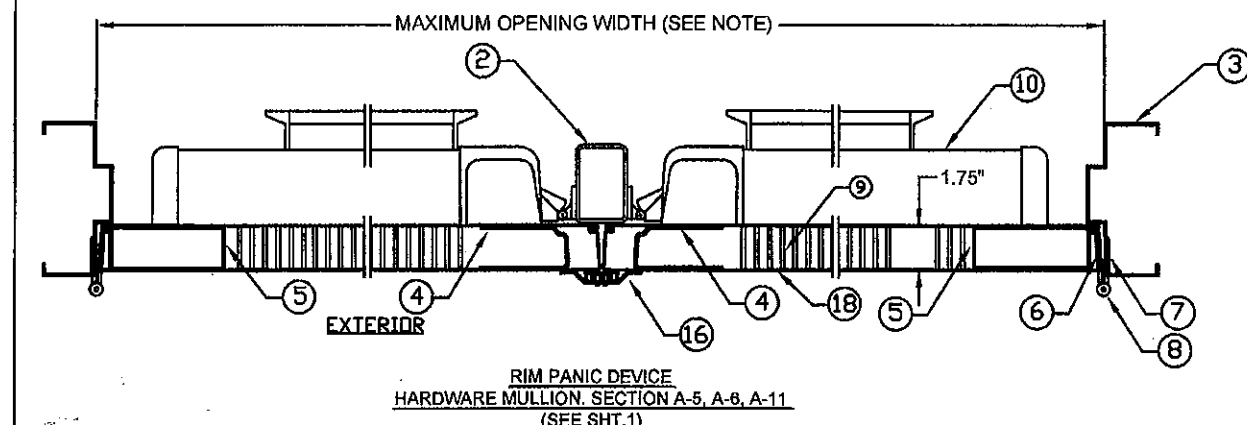
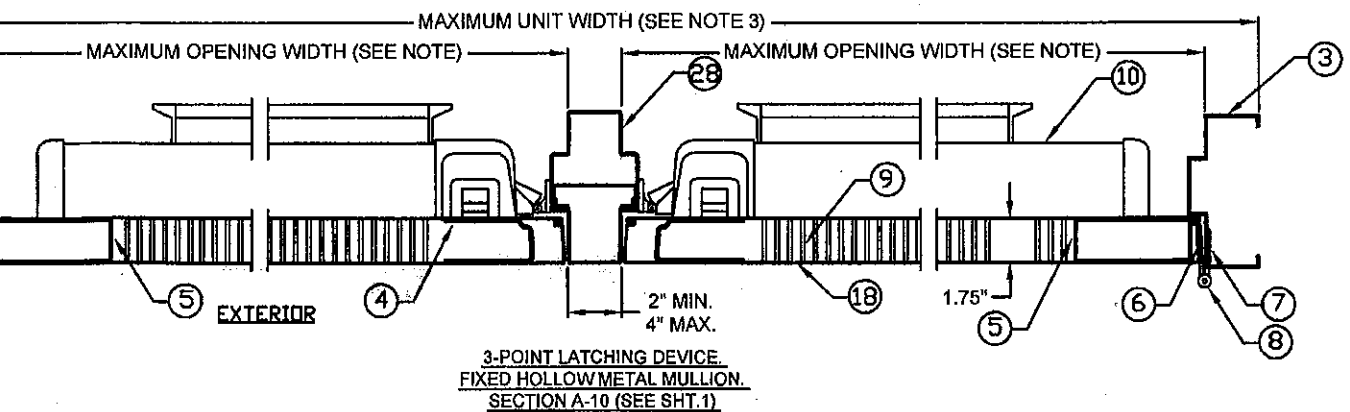
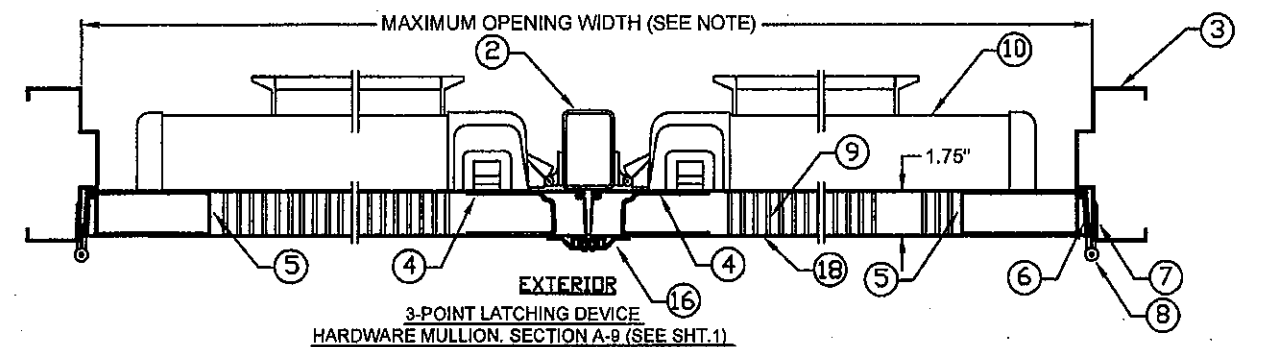
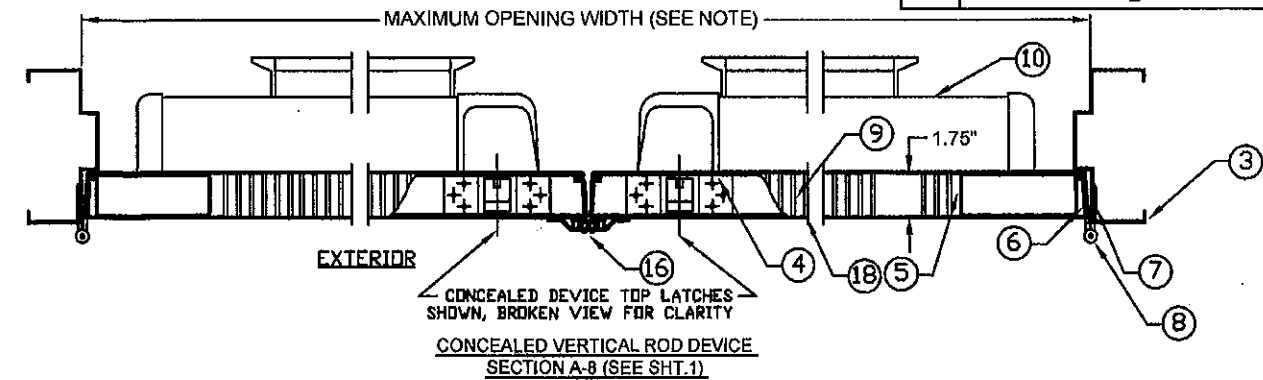
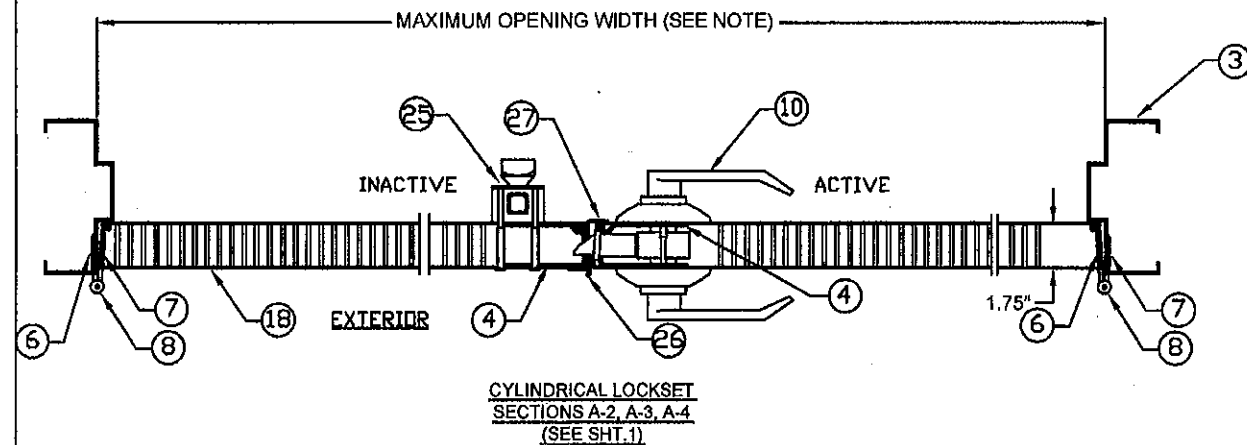
BEND RADIUS		Ingersoll Rand Security Technologies			
THIRD ANGLE PROJECTION					
DRAWN YMF	DATE 05/20/07	TITLE MIAMI-DADE PRODUCT APPROVAL			
CHECKED	DATE	IR EXIT HARDWARE FOR FLUSH DOUBLE DOORS.			
APPROVED	DATE	SIZE	FLAT	DWG NO.	REV
ENG. APPVL JPD	DATE 10/12/07	SCALE	NTS	AUTOCAD	IRFD07 J
SHEET 9 OF 11					



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0305.13
Expiration Date 3/15/15
By Ishag J. Chandra
Miami Dade Product Control
Division

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 12-0209.06
Expiration Date MAY 6 2015
By Ishag J. Chandra
Miami Dade Product Control
Division

REVISIONS				
LTR	DESCRIPTION	DATE	APPROVED	
A	APPROVAL DWG	YMF	05/20/07	
B	REVISED DWG	RAP	10/08/07	
C	REVISED DWG	RAP	12/03/07	
D	REVISED DWG	YMF	01/23/08	
E	REVISED DWG	YMF	04/09/08	
F	REVISED DWG	YMF	05/02/08	
G	REVISED PER_MDBCCD	YMF	02/06/09	
H	REVISED DWG	YMF	03/18/09	
J	REVISED PER_MDBCCD	YMF	04/06/10	



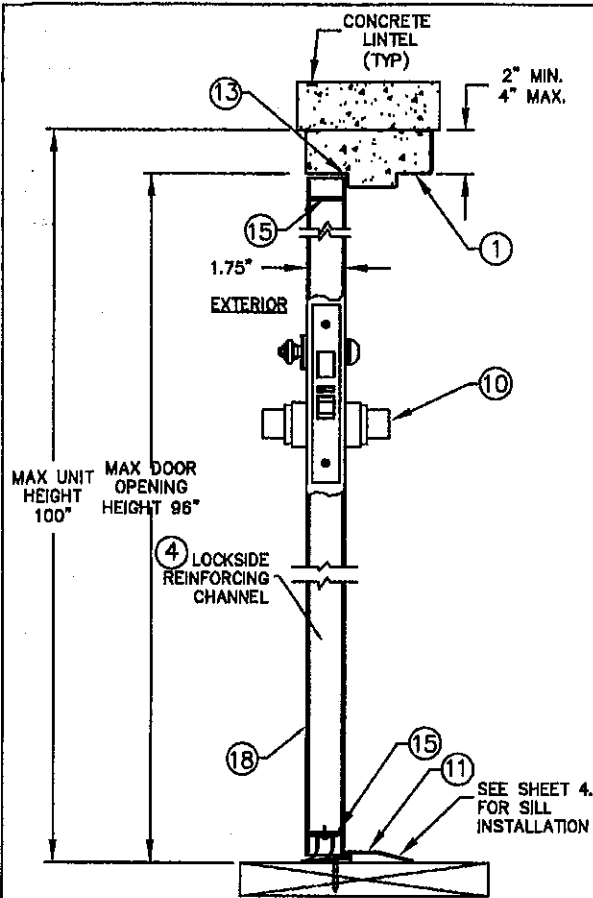
NOTES:

1. FOR MAXIMUM OPENING SIZE SEE TABLE 1 ON SHT 2 OF 11.
2. SEE SHEET 4 FOR ANCHOR INSTALLATION DETAILS.
3. WHEN FIXED HOLLOW-METAL MULLION IS USED (CONFIGURATION 10 PER SHT.1) OVERALL UNIT WIDTH IS LIMITED TO 100". DOOR SIZES WILL DECREASE ACCORDINGLY.

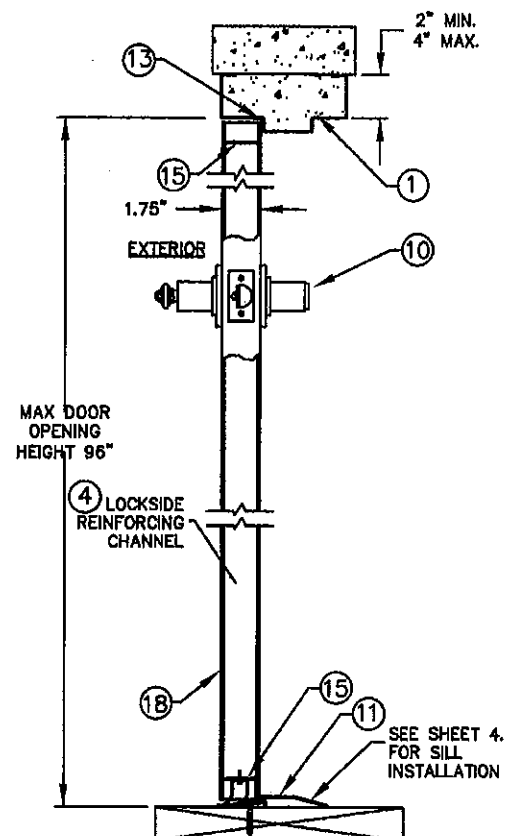
Gordon Thomas, P.E.
3759 Blossom Court
Mason, OH 45040
Florida # 46718

Date 4/14/10

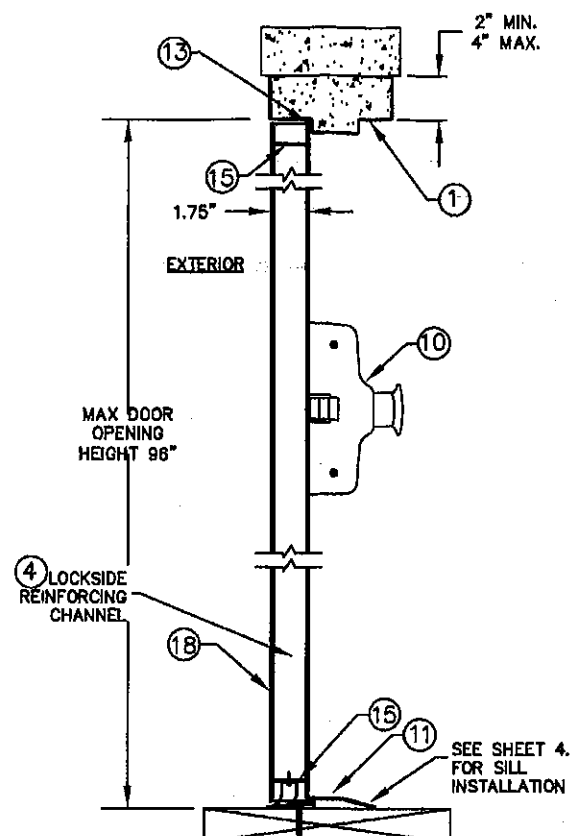
BEND RADIUS				Ingersoll Rand Security Technologies	
THIRD ANGLE PROJECTION					
DRAWN YMF	DATE 05/20/07	TITLE MIAMI-DADE PRODUCT APPROVAL			
CHECKED		HORIZONTAL CROSS SECTIONS FOR FLUSH DOUBLE DOORS.			
APPROVED		SIZE	FLAT	DWG NO.	REV
ENG. APPVL				IRFD07	J
SCALE		NTS		AUTOCAD	SHEET 10 OF 11



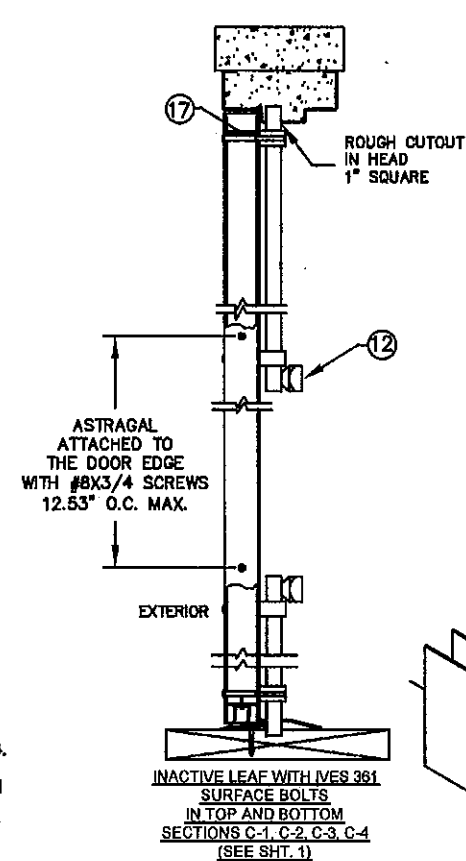
MORTISE LOCK
SECTION B-1
(SEE SHT.1)



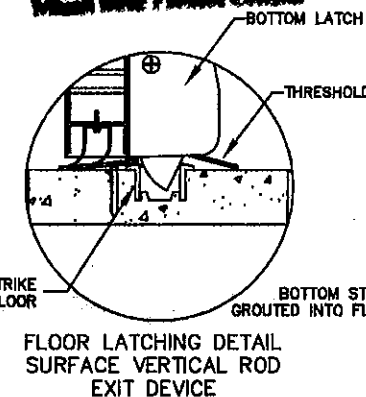
CYLINDRICAL LOCK
SECTIONS B-2, B-3, B-4 (SEE SHT.1)



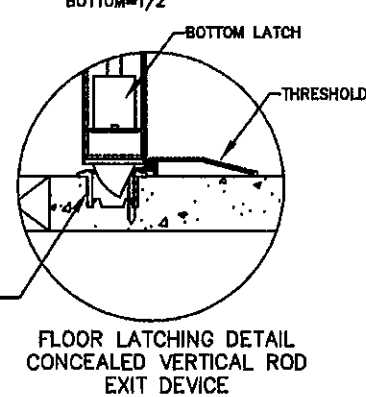
RIM EXIT DEVICE
SECTIONS B-5, B-6, B-11 (SEE SHT.1)



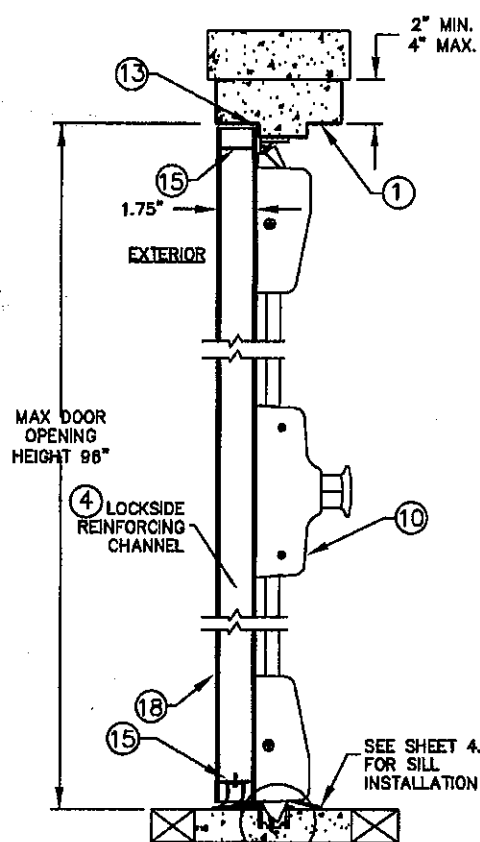
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0305-13
Expiration Date MAY 05, 2015
By: *Shag J. Chan*
Miami Dade Product Control



FLOOR LATCHING DETAIL
SURFACE VERTICAL ROD
EXIT DEVICE

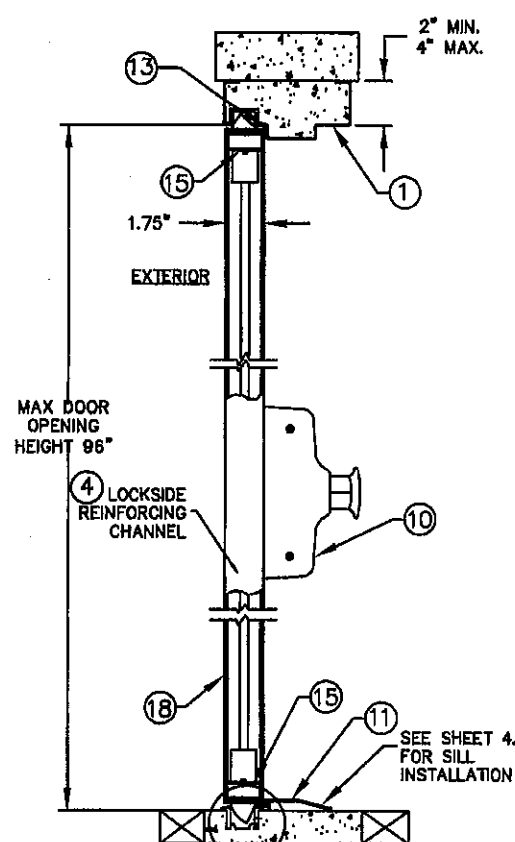


FLOOR LATCHING DETAIL
CONCEALED VERTICAL ROD
EXIT DEVICE



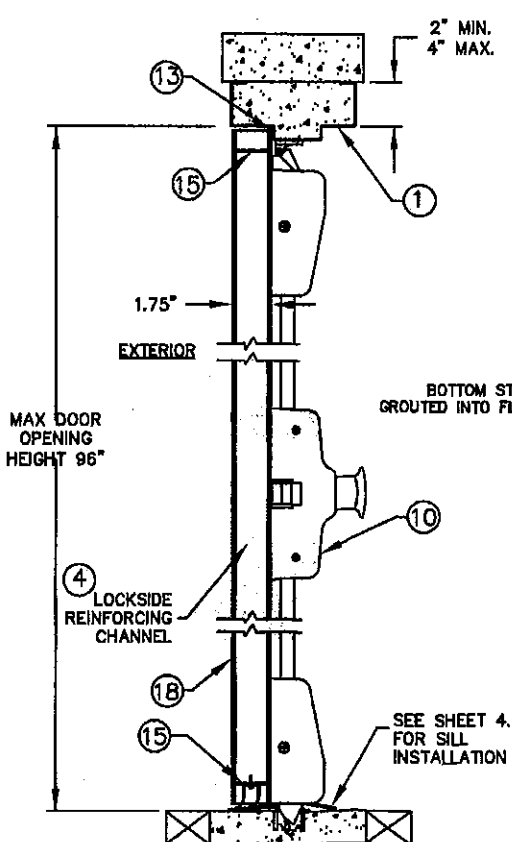
SURFACE VERTICAL ROD EXIT DEVICE
SECTION B-7 (SEE SHT.1)

FLOOR LATCHING DETAIL
SURFACE VERTICAL ROD
EXIT DEVICE

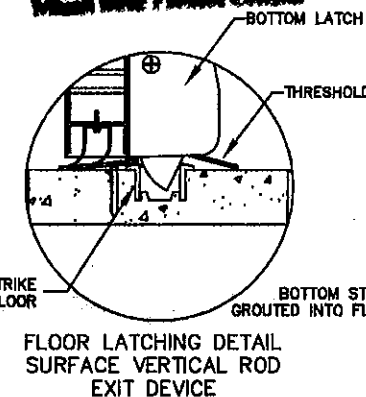


CONCEALED VERTICAL ROD EXIT DEVICE
SECTION B-8 (SEE SHT.1)

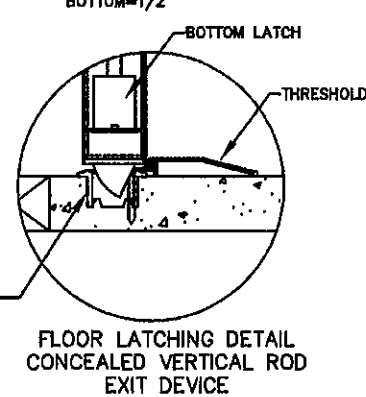
FLOOR LATCHING DETAIL
CONCEALED VERTICAL ROD
EXIT DEVICE



THREE-POINT LATCHING EXIT DEVICE
SECTIONS B-9, B-10 (SEE SHT.1)



FLOOR LATCHING DETAIL
SURFACE VERTICAL ROD
EXIT DEVICE



FLOOR LATCHING DETAIL
CONCEALED VERTICAL ROD
EXIT DEVICE

NOTES:

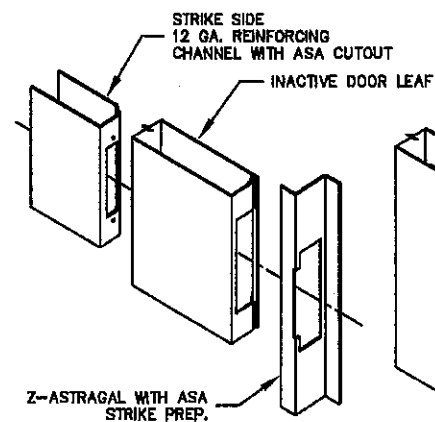
1. FOR MAXIMUM DOOR & UNIT OPENING SIZES SEE ELEVATION SHEET 1 AND TABLE 1 ON SHT 2 OF 11.
2. SEE SHEET 4 FOR ANCHOR INSTALLATION DETAILS.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 10-0299-06
Expiration Date MAY 5, 2015
By: *Shag J. Chan*
Miami Dade Product Control
Division

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	APPROVAL DWG	YMF 05/20/07	
B	REVISED DWG	RAP 10/08/07	
C	REVISED DWG	RAP 12/03/07	
D	REVISED DWG	YMF 01/24/08	
E	REVISED DWG	YMF 04/09/08	
F	REVISED DWG	YMF 06/02/08	
G	REVISED PER_MDBCCO	YMF 02/06/09	
H	REVISED DWG	YMF 03/18/09	
J	REVISED PER_MDBCCO	YMF 04/06/10	

Shag J. Chan 4/14/10
Date
Gordon Thomas, P.E.
3759 Blossom Court
Mason, OH 45040
Florida # 46718



INACTIVE LEAF
ASA STRIKE PREP
AND ASSEMBLY DETAIL

BEND RADIUS		 Ingersoll Rand Security Technologies		TITLE MIAMI-DADE PRODUCT APPROVAL VERTICAL CROSS SECTIONS FOR FLUSH DOUBLE DOORS.	
THIRD ANGLE PROJECTION					
DRAWN YMF	DATE 05/20/07	SIZE FLAT		DWG NO. IRFD07	REV J
CHECKED		SCALE NTS		AUTOCAD	SHEET 11 OF 11
APPROVED					
ENG. APPV. JPD	10/12/07				