



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

NOTICE OF ACCEPTANCE (NOA)

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

Stormproof, Inc.
740 W 26 Street
Hialeah, FL 33010

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 418 Thermally Broken Aluminum Louver System with Back Panel

APPROVAL DOCUMENT: Drawing No. 31218, titled "Stormproof® Louver Thermal Break System", sheets 1 through 6 of 6, dated 08/12/2013, prepared by manufacturer, signed and sealed by Vicente Franco, 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 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 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 **Carlos M. Utrera, P.E.**



Signature
11/21/2013

NOA No. 13-0820.16
Expiration Date: November 28, 2018
Approval Date: November 28, 2013
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No 31218, titled "Stormproof® Louver Thermal Break System", sheets 1 through 6 of 6, dated 08/12/2013, prepared by manufacturer, signed and sealed by Vicente Franco, 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 a Series 418 Louvers, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-7311, dated 06/04/2013, signed and sealed by Jorge A. Naya, Jr., P.E.

"Submitted under NOA # 13-0416.18"

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
along with marked-up drawings and installation diagram of a Trinity series 464 single and mulled aluminum fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-6993, dated 08/27/12, signed and sealed by Marlin D. Brinson, P.E.
3. 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 two aluminum fixed window mulled together with a 1-1/16" x 3-1/2" extruded aluminum custom mullion, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-7508, dated 08/30/13, signed and sealed by Marlin D. Brinson, P.E.



11/21/2013

Carlos M. Utrera, P.E.
Product Control Examiner
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C. CALCULATIONS

1. Anchor calculations and structural analysis, complying with FBC-2010, dated 08/15/13, prepared by Multi Span Structural Engineering, Corp., signed and sealed by Vicente Franco, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS "Submitted under NOA # 13-0416.18"

1. Test report No. **ATI-61261.01-106-18**, prepared by Architectural Testing, Inc., dated 12/08/05, with revision date 01/04/06, issued to **Technoform**, for their **I-Strut Insulating Strip** comprised of Polyamide with 25% glass fibers, per **ASTM D635-03** "Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position" and **ASTM D2843-99** "Standard Test Method for the Density of Smoke from the Burning Decomposition of Plastics", signed and sealed by Joseph A. Reed, P.E.
2. Test report No. **ETC-07-1043-19094.0**, prepared by ETC Laboratories, dated 02/04/08, issued to Technoform Bautech NA, Inc., for their **I-Strut Insulating Strip** comprised of Polyamide with 25% glass fibers, per **ASTM D638-03** "Standard Test Methods for Tensile Properties of Plastics", for exposed & unexposed sample per Xenon Arc after 4500 Hours, signed and sealed by Joseph Labora Doldan, P.E.
3. Test report No. **ETC-08-1043-20974.0**, prepared by ETC Laboratories, dated 07/01/08, issued to Technoform, for their **I-Strut Insulating Strip** comprised of Polyamide with 25% glass fibers, per **ASTM D1929-96** "Standard Test Method for Ignition Properties of Plastics", signed and sealed by Joseph Doldan, P.E.
4. Material Data Sheet for "insulating profiles made of PA 66 GF25 - dry impact resistant, to fit into Technoform I-Strut™ Aluminum Standard Reglet.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-2010**, issued by Multi Span Structural Engineering, Corp., dated 08/15/2013, signed and sealed by Vicente Franco, P.E.
2. Statement letter of no financial interest, issued by Multi Span Structural Engineering, Corp., dated 08/15/2013, signed and sealed by Vicente Franco, P.E.



11/21/2013

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 13-0820.16

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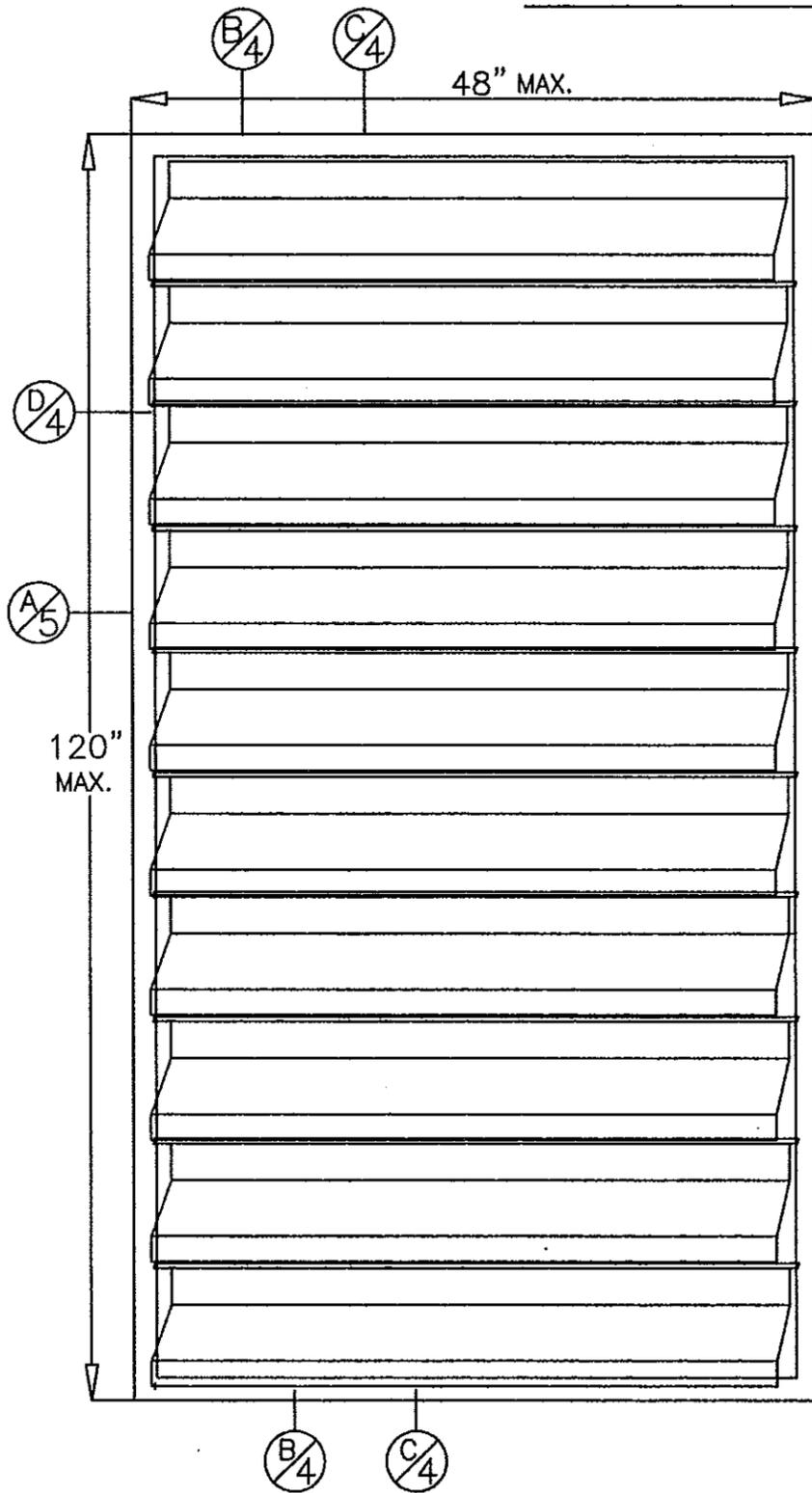
LOUVER THERMAL BREAK SYSTEM

SERIES 418

MAX DESIGN PRESSURE
+100 / -150 psf

GENERAL NOTES

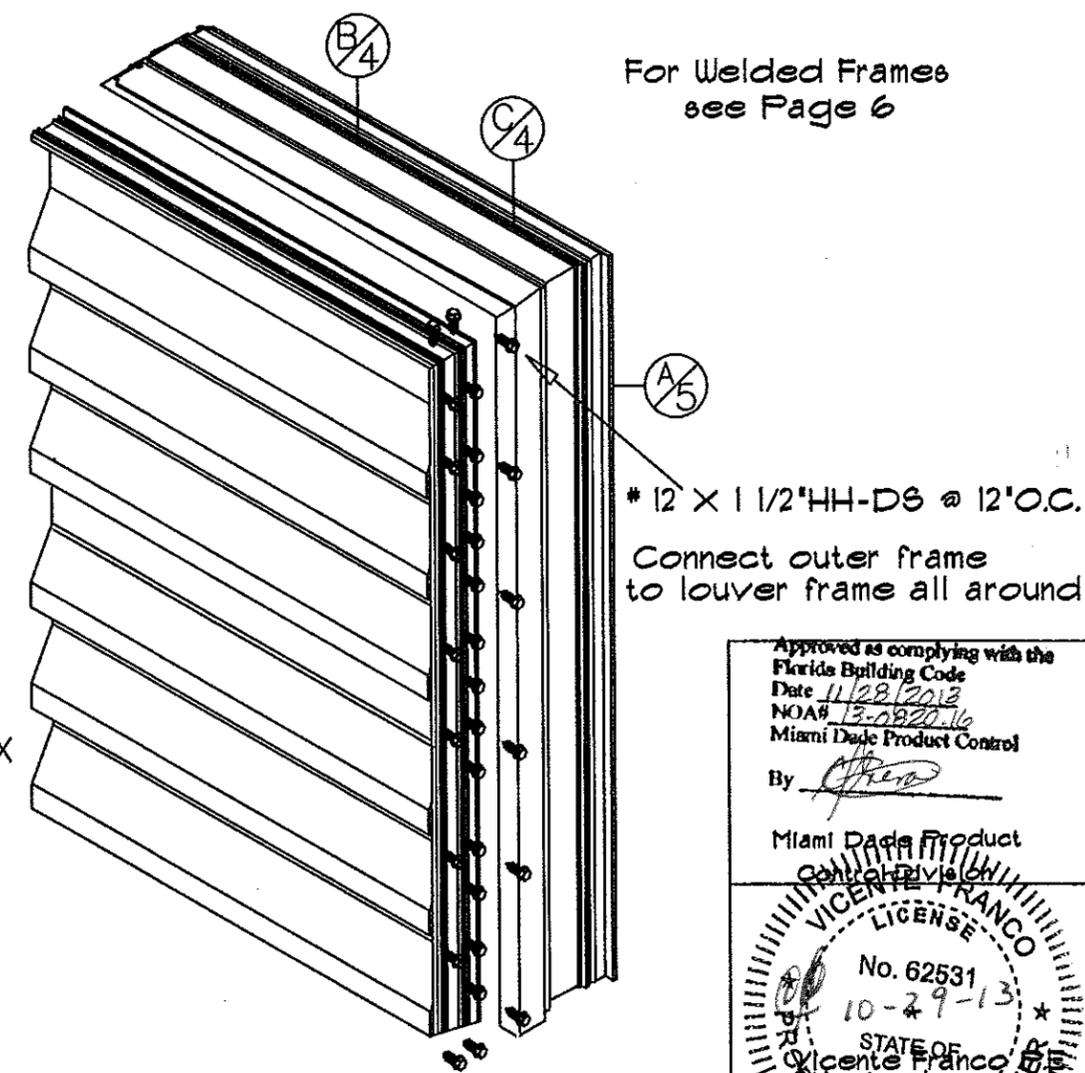
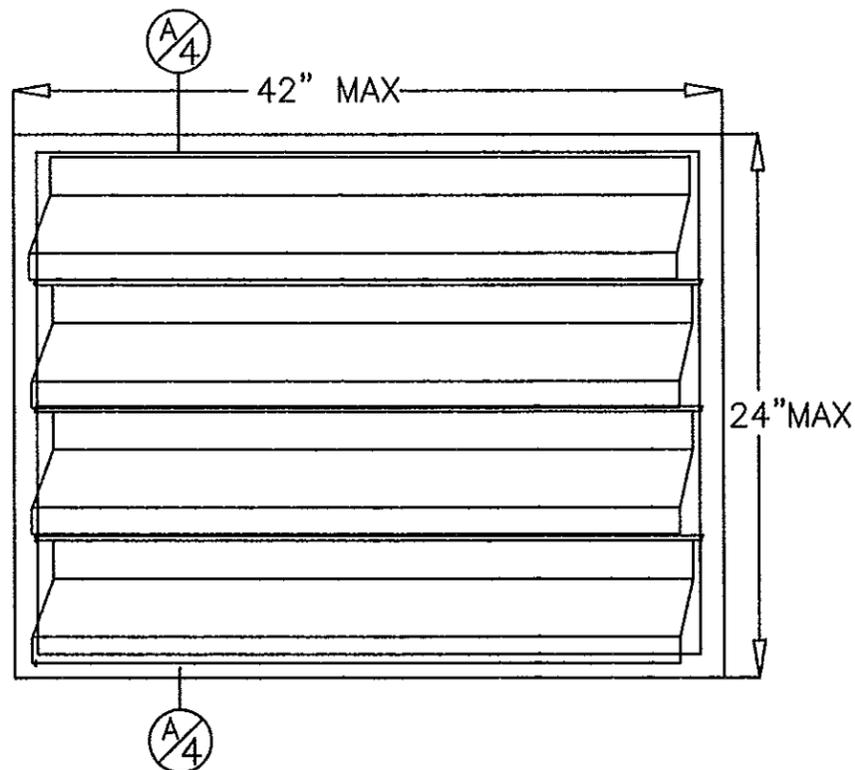
THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH FLORIDA BUILDING CODE HIGH VELOCITY HURRICANE ZONE (HVHZ). WHEN USED IN AREAS REQUIRING BORNE DEBRIS PROTECTION THIS PRODUCT COMPLIES WITH SECTION 1626. OF THE (FBC) 'SHUTTERS NOT REQUIRED' ANCHORS SHALL BE SPACED, EMBEDDED AND HAVE AN EDGE DISTANCE AS SHOWN ON DETAILS AND SHALL MEET THE REQUIREMENT OF FLORIDA BLDG CODE SECTION 2003.4 COMBINATIONS OF LOUVERS/LOUVERS IN MODULES OF TWO OR MORE LOUVERS SHALL USE APPROVED MULLIONS OR STORMPROOF® MULLION SYSTEM. OPENING'S BUCKING FASTENER MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO STRUCTURE. THESE PRODUCTS WERE TESTED FOR WATER, AIR, IMPACT CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE TO FLORIDA BUILDING CODE PROTOCOLS TAB-202-201-203 FOR LARGE MISSILE CODES IT SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER TO VERIFY THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE TO SUPPORT THE LOADS IMPOSED BY THE SYSTEM MAXIMUM SINGLE SECTION SIZE IS 48" WIDE X 120" HIGH. LOUVERS ASSEMBLY IS QUALIFIED FOR A MAXIMUM DESIGN OF +100/-150 psf



DESIGN LOAD CAPACITY - PSF			
FOR 3/8" TEMPERED/3/8" LEXAN POLYCARBONATE			
WINDOW DIMS.			
WIDTH	HEIGHT	EXT.(+)	INT.(-)
48	120	100.0	150.0

DESIGN LOAD CAPACITY - PSF			
Metal 16 GAGE WITH THERMAL BOND 3/8" THICK INSULATED PANELS			
WINDOW DIMS.			
WIDTH	HEIGHT	EXT.(+)	INT.(-)
42	24	100.0	150.0

DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		JAMB ANCHORED	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
48"	120"	100.0	150.0



Approved as complying with the
Florida Building Code
Date 11/28/2013
NOA# 13-0820-16
Miami Dade Product Control

By *[Signature]*

Miami Dade Product
Control Division

VICENTE FRANCO
LICENSE
No. 62531
10-29-13
STATE OF
FLORIDA
Structural
Professional Engineer

Drawn By: G M
Date: 8/12/13
Chk By: V F

Revision
Revision
Revision
Revision

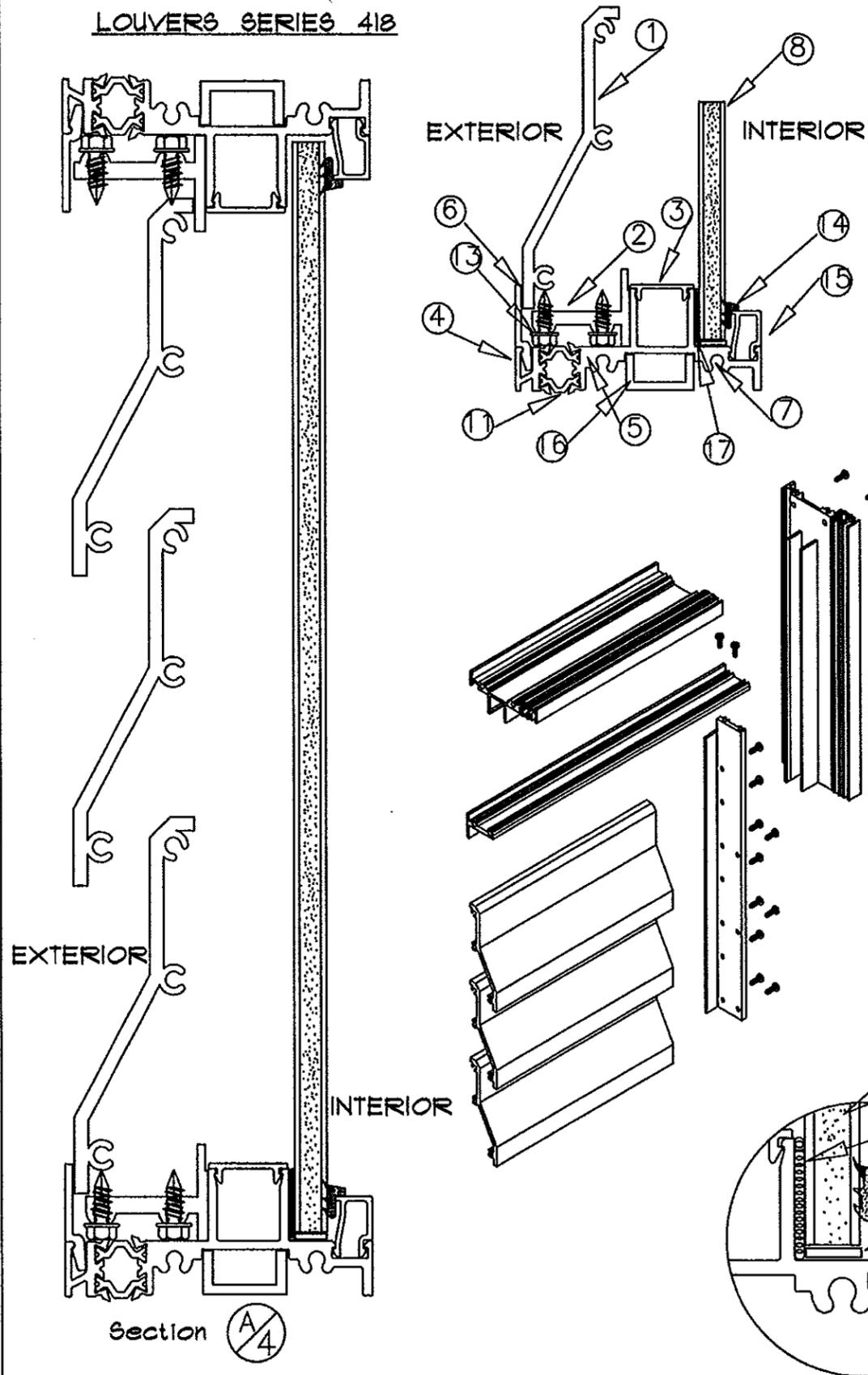
740 West 26 St
Hialeah, Florida
33010.

Toll Free 888-448-4848
Local 305- 418-8787
WWW.STORMPROOF.US

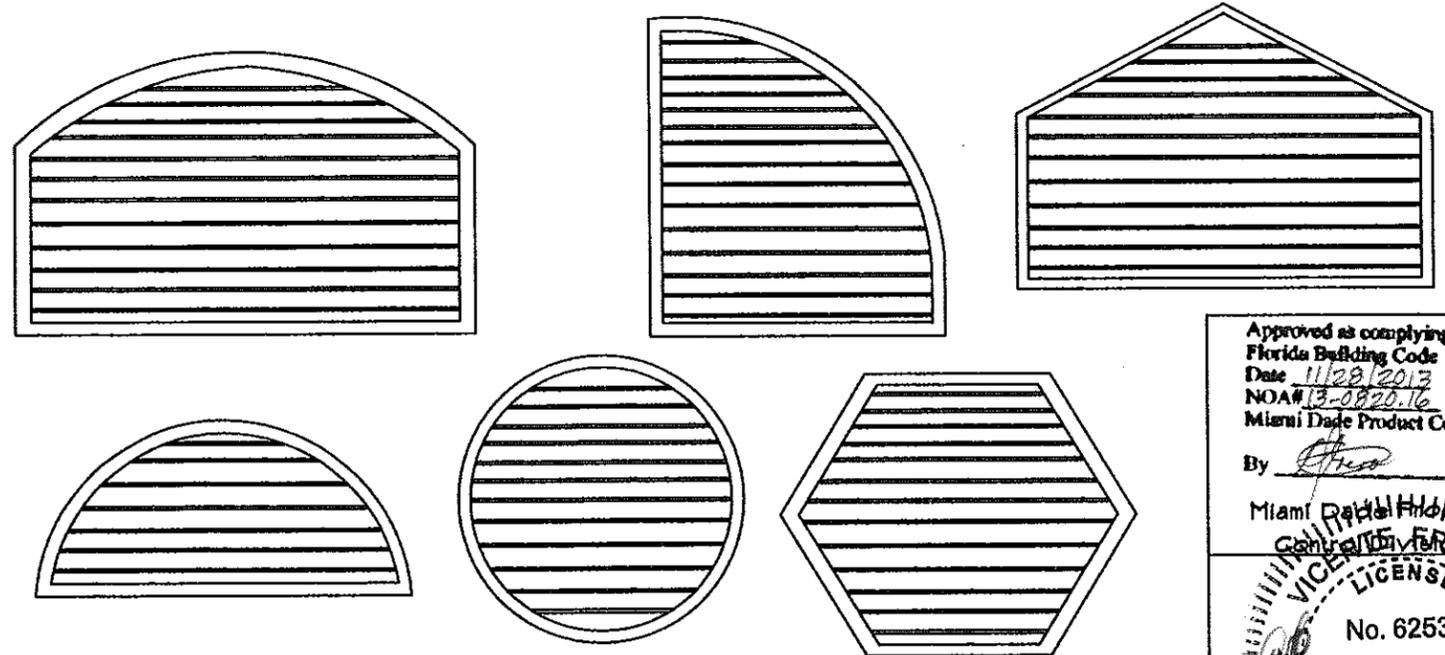
DWG. # B1218
Sheet 1 of 6

LOUVERS SERIES 418

MAX DESIGN PRESSURE
+ 100/-150 psf



ITEM	QUANTITY	PART	MATERIAL	SUPPLIER
1	AS REQD	13971	LOUVER BLADE	6063-T6
2	4	13970	LOUVER SUB-FRAME	6063-T6
3	4	13868	SNAP COVER	6063-T6
4	4	13869	FRONT THERMAL FRAME HEAD/SILL JAMB	6063-T6
5	4	13870	REAR THERMAL FRAME HEAD/SILL/JAMB	6063-T6
6	AS REQD	13865	GLAZING BEAD	6063-T6
7	2/CORNER		# 12 x 1 1/2" Assembly Screws	
8	AS REQD		3/8"THICK 1/16"STEEL METAL/THERMAL BOND V-2100 OPEN CELL (1/4") 1/16"STEEL METAL	
9	AS REQD		3/8" TEMPERED GLASS	
10	AS REQD		3/8" LEXAN POLYCARBONATE	
11	AS REQD	SP-133	Structural Thermal Break System	Polyamide Techno Bautec 952100
12	AS REQD		DOW CORNING 995 SILICONE	
13	AS REQD		#12 x 11/2" LOUVER ASSEMBLY SCREWS	
14	AS REQD		Vinyl GASKET	
15	AS REQD	13867	Aluminum Glazing Bead	6063-T6
16	AS REQD		ANCHOR SHEER	
17	AS REQD		Dow Corning 899 OR 995 SILICONE	
18	AS REQD		VINYL SETTING BLOCK 1/8" X 1/2"	



NOTE:
ALL SHAPED LOUVER PANELS ARE RESTRICTED TO THE SAME PANEL WIDTH AND LOADS AS THE RECTANGULAR LOUVER PANELS AND MAY BE STACKED VERTICALLY AND HORIZONTALLY THE SAME AS THE RECTANGULAR LOUVERS

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Date 11/28/2013
NOA# 13-0820.16
Miami Dade Product Control
By *[Signature]*
Miami Dade County
General Services
VICENTE FRANCO
LICENSE
No. 62531
10-29-13
STATE OF FLORIDA
Vicente Franco
Structural Engineer
Professional Engineer
No. 62531

Drawn By: G M
Date: 8/12/13
Chk By: V F

Revision	
Revision	
Revision	
Revision	

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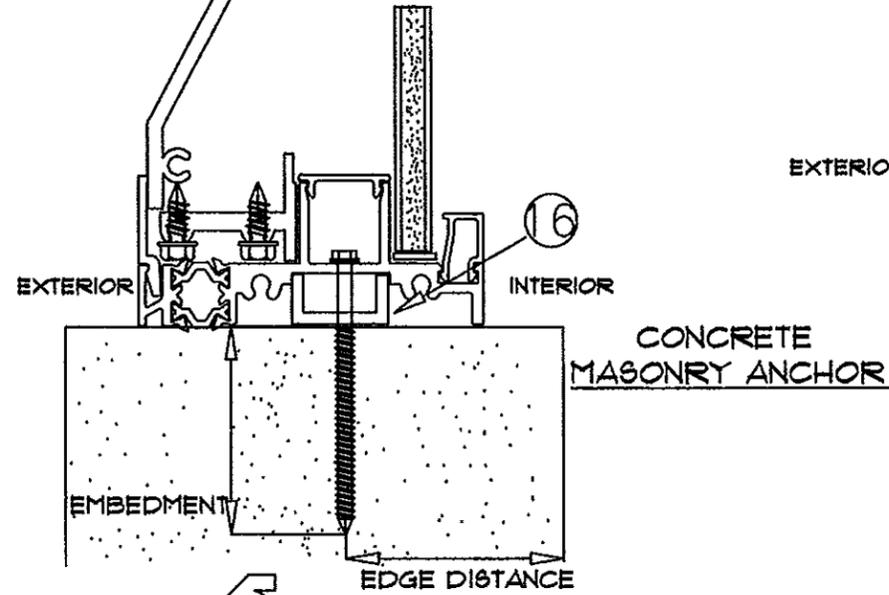
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DWG. * 51218
Sheet 2 of 6

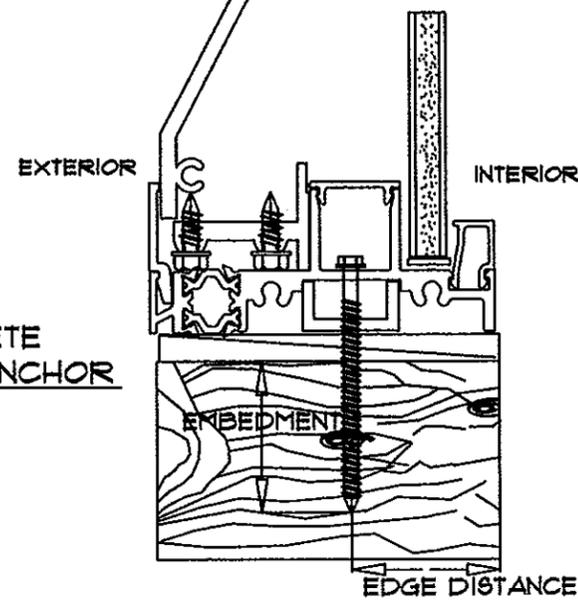
DETAIL A

DIRECTLY TO CONCRETE



DETAIL D

WOOD ANCHOR



1/4" DIA KWIK CON BY HILTI
 THRU 1 BY INTO CONC. OR MASONRY 1-3/4" MIN.
 INTO CONC OR MASONRY
 DIRECTLY INTO CONC. OR MASONRY 1-3/4" MIN. EMBED
 INTO CONC OR MASONRY

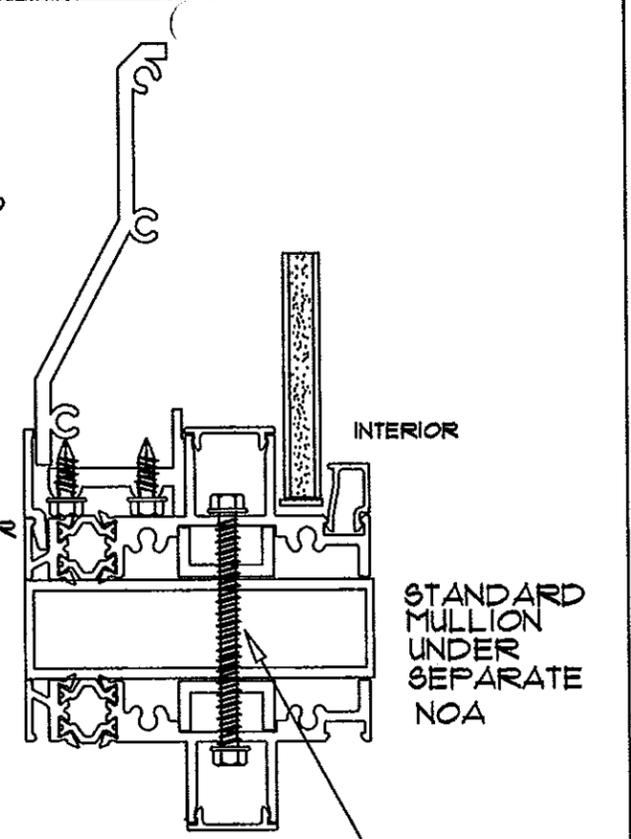
* 1/4" DIA OR SELF DRILLING SCREWS

INTO METAL STRUCTURES
 STEEL: 12 GA. MIN (Fy- 36 KSI MIN.)
 ALUMINUM: 1/8" THK MIN. (6063-T5 MIN.
 (STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED
 OR PLATED)

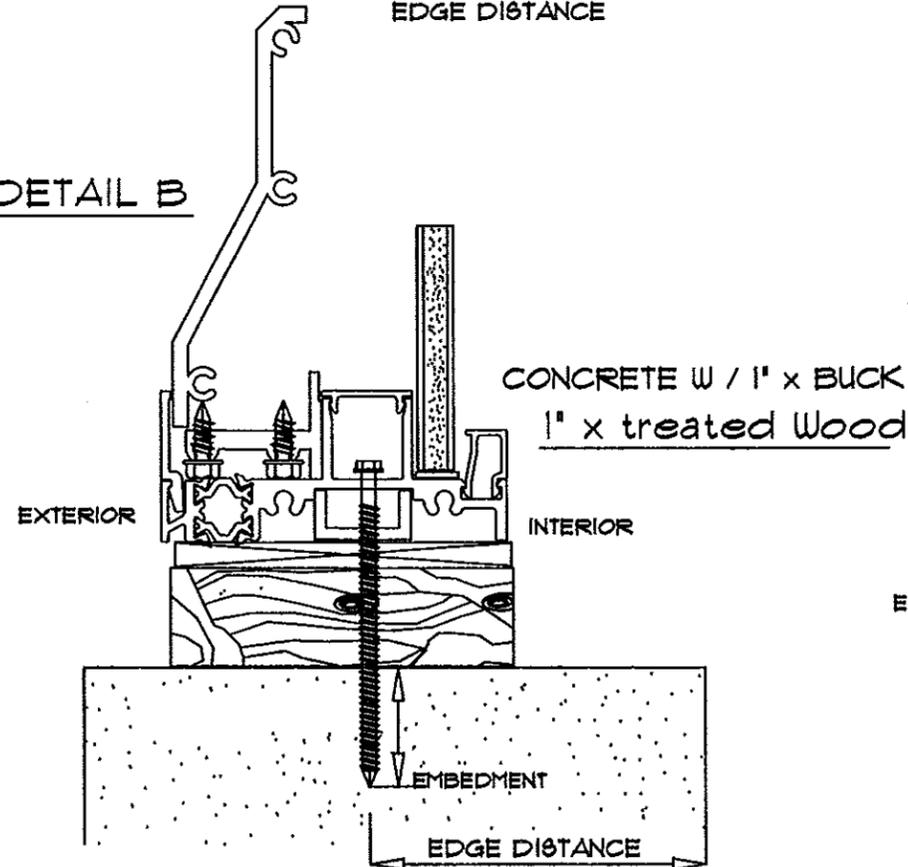
1/4" DIA LAG SCREW
 INTO 2" X WOOD BUCKS OR WOOD STRUCTURES 2" MIN.
 PENETRATION INTO WOOD

ANCHOR EDGE DISTANCE
 INTO CONC. OR MASONRY = 1 1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 1/2" MIN.

CONCRETE AT HEAD, SILL, OR JAMBS f'c = 3000 psi min
 C- 90 HOLLOW/FILLED BLOCK AT JAMBS f'c = 2000 psi min
 ALL JOINTS AND FRAME CONNECTIONS SEALED WITH
 BEAM-SEALER OR EQUAL
 Wood Specific Gravity (G) : 0.55

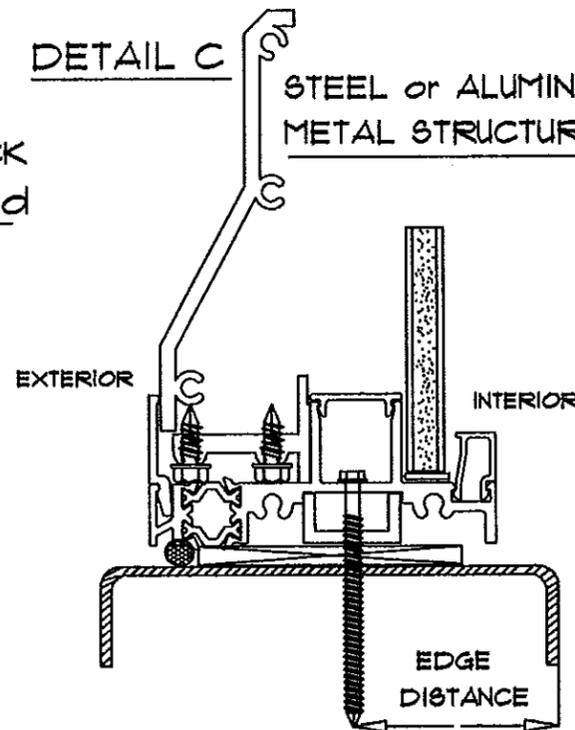


DETAIL B

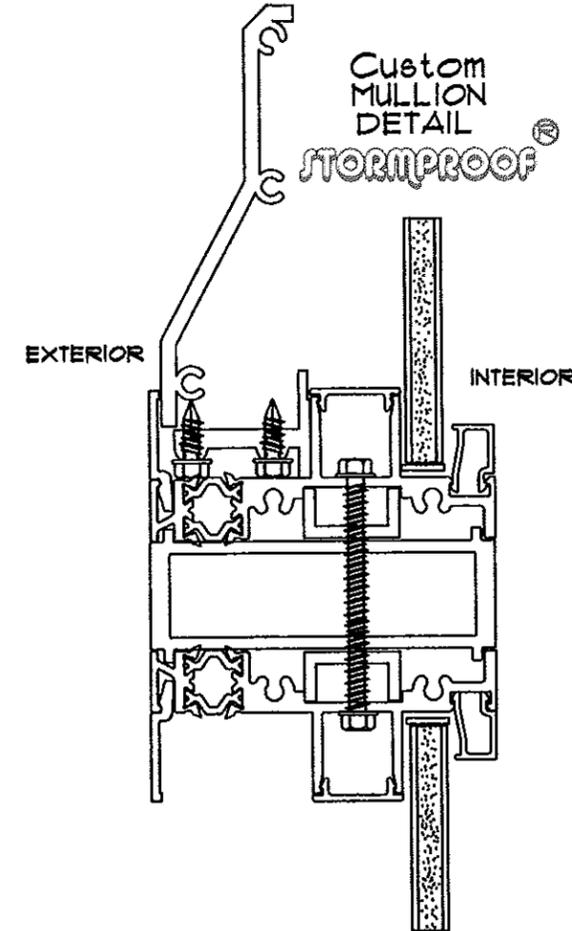


DETAIL C

STEEL or ALUMINUM METAL STRUCTURE



Custom MULLION DETAIL[®] STORMPROOF[®]



NOTE: ANCHORING TO MASONRY WOOD,
 CONCRETE AND METAL WILL HAVE THE
 SAME SPACING (O.C.)

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Date: 8/12/13	Revision
Chk By: VF	Revision

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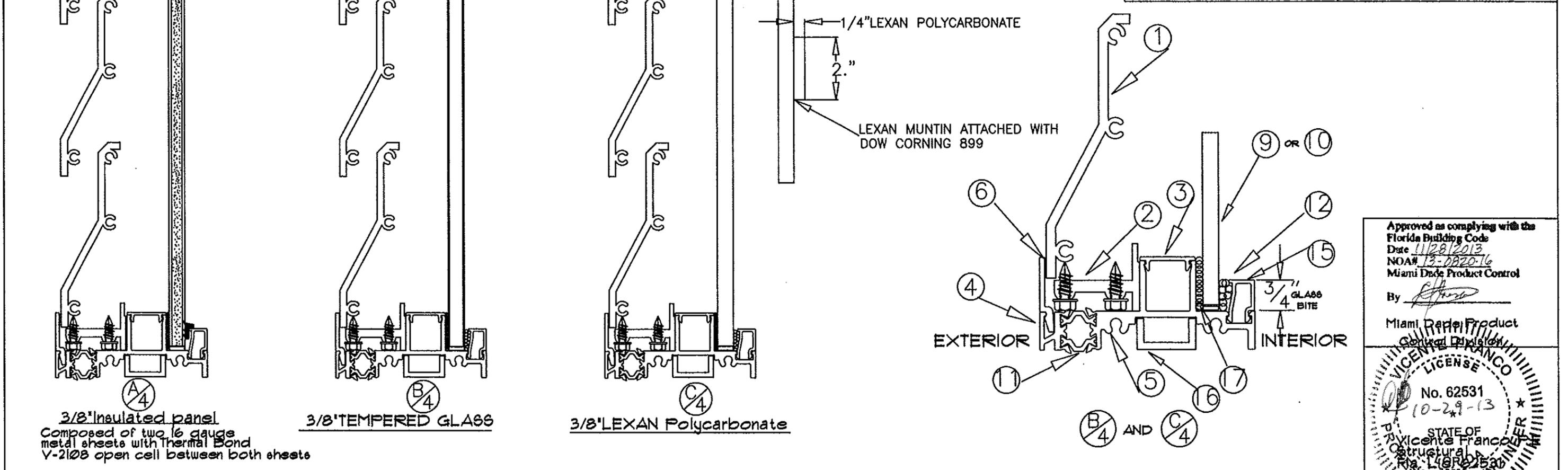
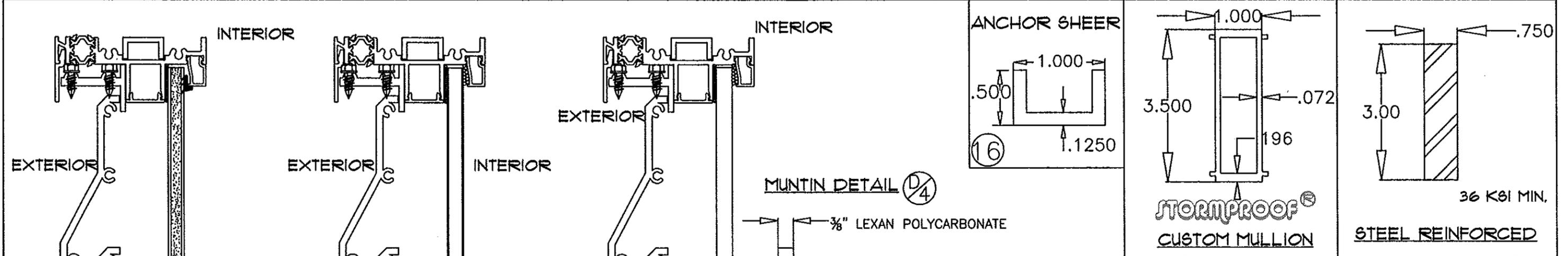
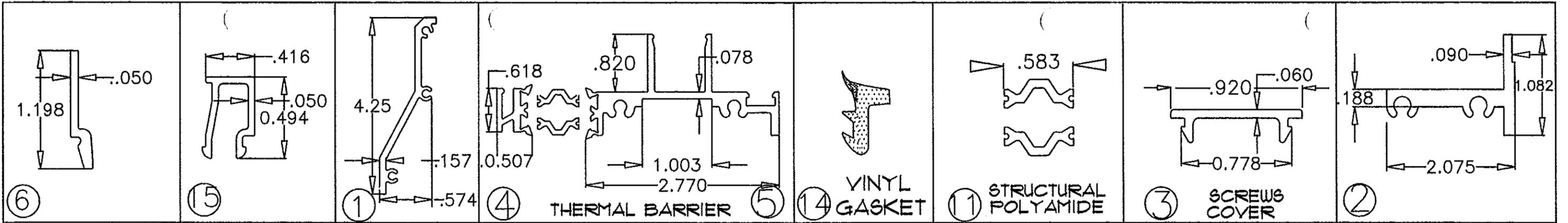
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 Miami Dade Product Control

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





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Miami Dade Product Control Division
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LICENSE No. 62531
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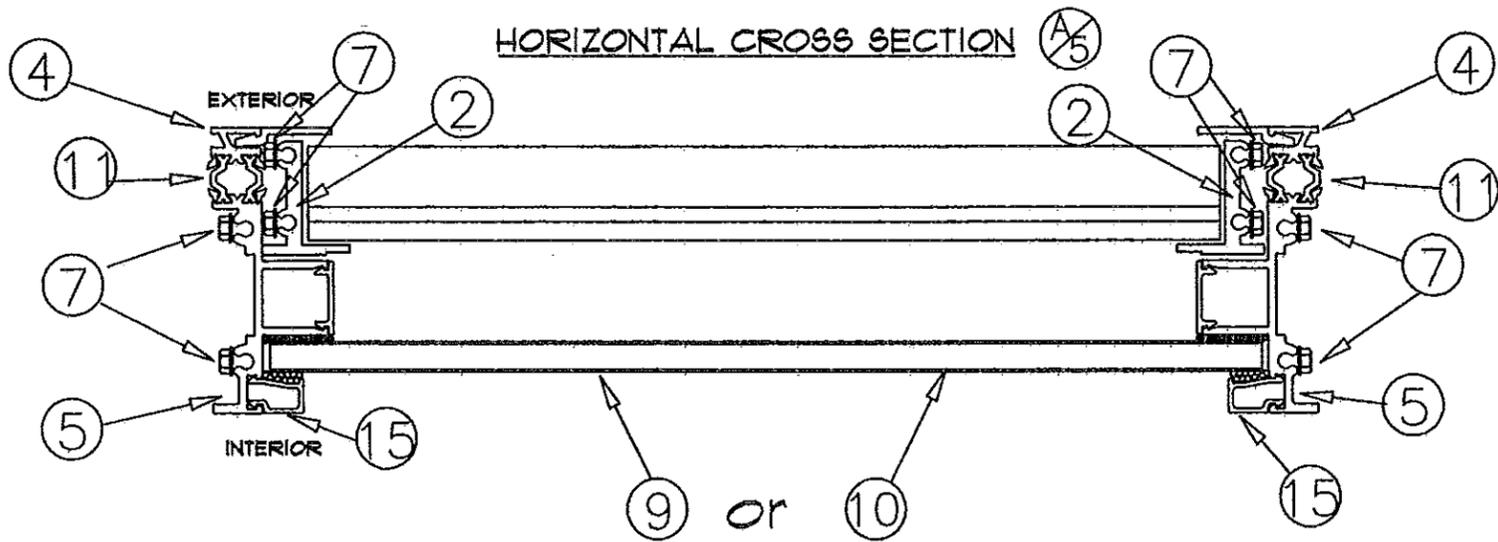
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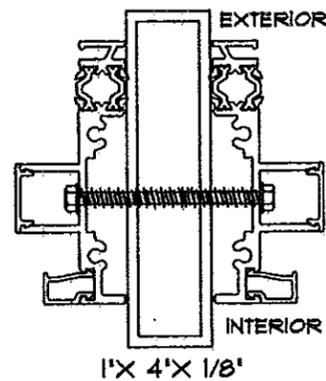
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Sheet 4 of 6



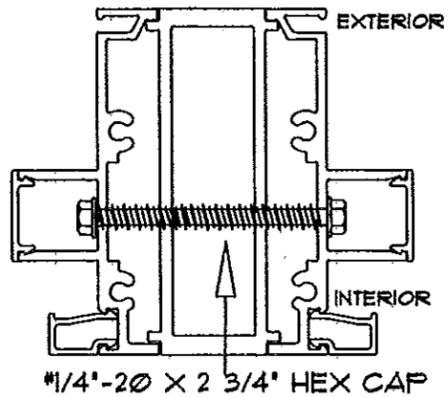
STANDARD MULLION
Under Separate NOA
Lower Design
Pressure Shall Control



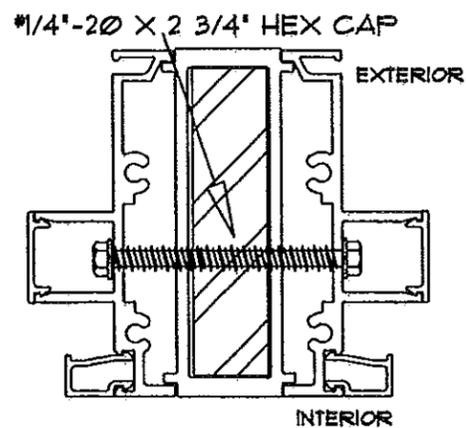
DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		MULLION W/STEEL REINF.	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
18	60	75.0	140.0
24		75.0	140.0
30		75.0	140.0
36		75.0	140.0
42		75.0	140.0
48		75.0	140.0
18	72	75.0	140.0
24		75.0	140.0
30		75.0	140.0
36		75.0	140.0
42		75.0	140.0
48		75.0	140.0

DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		MULLION WITHOUT/ STEEL REINF.	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
18	60	75	105.0
24		75	105.0
30		75	105.0
36		75	105.0
42		75	105.0
48		75	105.0
18	66	75	105.0
24		75	105.0
30		75	105.0
36		75	105.0
42		75	105.0
48		75	105.0
18	72	75	105.0
24		75	105.0
30		75	105.0
36		75	105.0
42		75	105.0
48		75	105.0

MULLION WITHOUT REINFORCEMENT

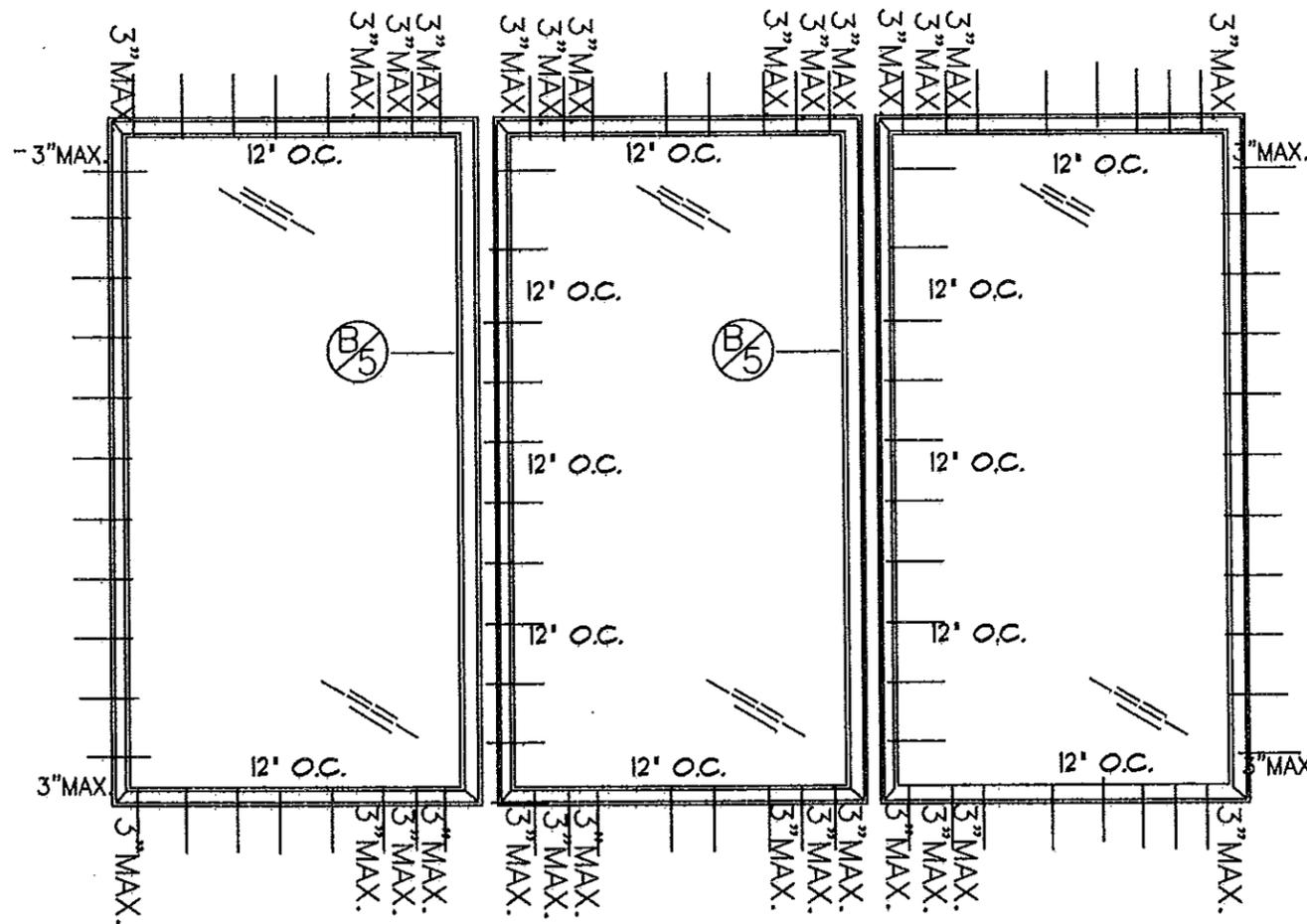
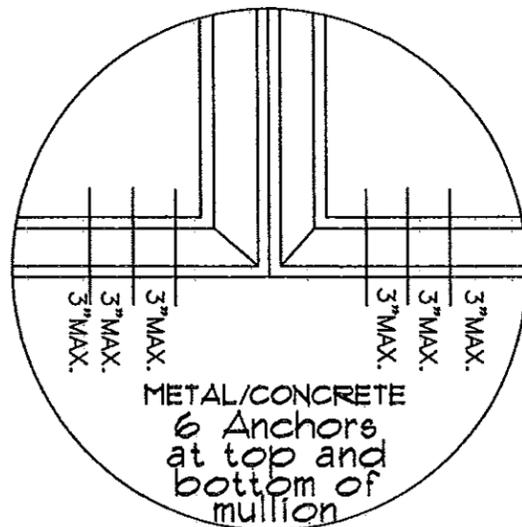


SECTION B/B

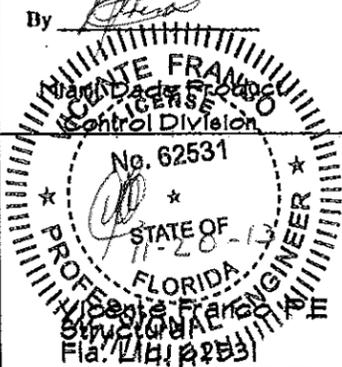


MULLION WITH STEEL REINFORCEMENT

DETAIL TYPICAL UNCLIPPED MULLION



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Miami Dade Product Control



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Date:	8/12/13	Revision	
Chk By:	V F	Revision	

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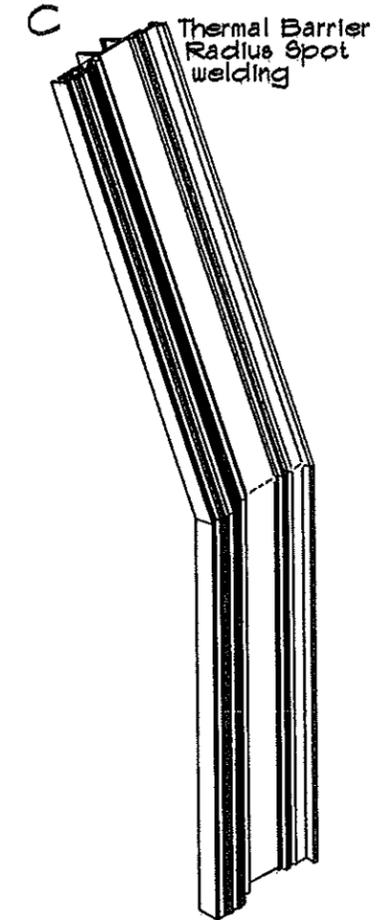
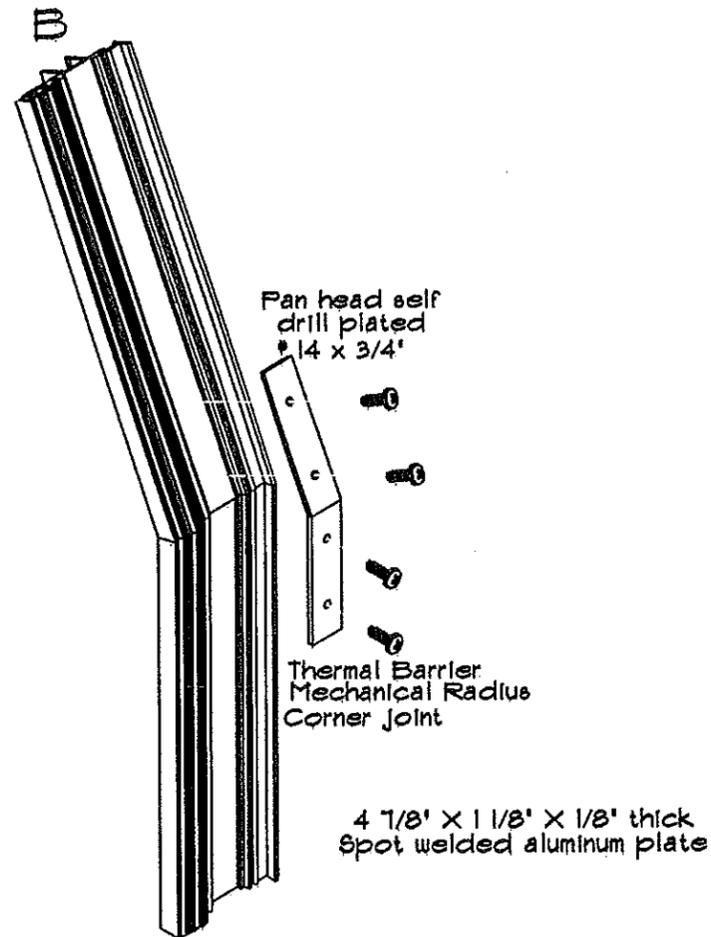
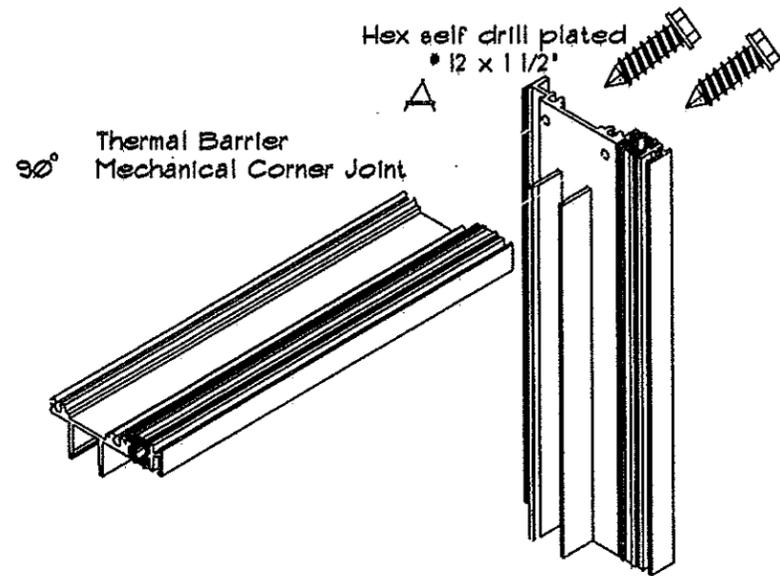
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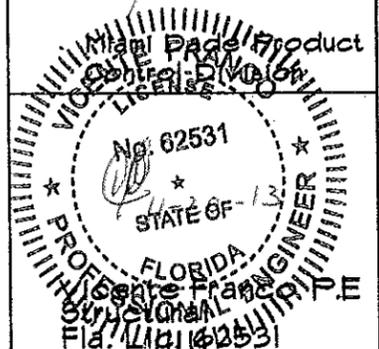
Sheet 5 of 6

Frame Assembling Detail
Non-Welding And Welding

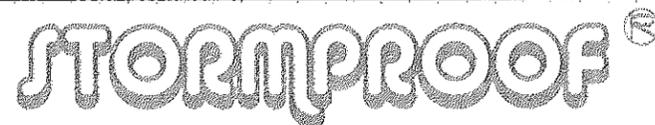


A	Thermal Barrier 90° Mechanical Corner Joint Hex Self Drill Plated # 12 x 1 1/2"
B	Thermal Barrier Mechanical Radius Corner Joint Pan Head Self Drill Plated # 14 x 3/4"
C	Thermal Barrier Radius Spot Welding

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Date 11/20/2013
NOAH 13-0820.16
Miami Dade Product Control
By [Signature]



Drawn By: <u>GM</u>	Revision:
Date: <u>8/12/13</u>	Revision:
Chk By: <u>VF</u>	Revision:



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Sheet 6 of 6