

Owner Alfred Stoltmaker

Mailing Address

Permit No. 19876

Cost \$ 9,500.00

Lot 6 Block N

Subdivision HIBISCUS
ISLAND

Address 230 N. Hibiscus Drive

General Contractor Taylor Construction Company

Bond No. 3039

3232-05-0330

Architect Robert Swartburg

Engineer A.H. Baxter

(Priority application
#44-066-00480- approved
(D. H. Burk.....

Zoning Regulations: Use RD

Area 22

Lot Size 76 X 125

Building Size: Front 55'

Depth 30

Height 15 Stories one

Certificate of Occupancy No.

Use RESIDENCE & GARAGE (3bedrooms)

Type of Construction CBS

Foundation Concrete piling

Roof Tile

Date April 3, 1945

Plumbing Contractor

Sewer Connection

Date

Temporary Closet

Plumbing Contractor # 18224 City Plumbing Company

Date May 11, 1945

Water Closets 2,

Bath Tubs 1,

Floor Drains Laundry tray 1,

Lavatories 2,

Showers 1,

Grease Traps

Urinals

Sinks 1,

Drinking Fountains

Gas Stoves 1,

Gas Heaters 1,

Rough Approved

Date

Gas Radiators 1,

Gas Turn On Approved

Septic Tank Contractor

#18224 City Plumbing Co: 1.... Tank Size

Date May 11, 1945

Oil Burner Contractor

#18224 Acme Septic Tank Co: 1--- Tank Size 600 gallons

Date June 4, 1945

Sprinkler System

Electrical Contractor # 21075.. Lowry Electric Co:

Address # 21173

Date June 12, 1945

Switch 17

Range 1, Motors

Fans Temporary Service July 20, 1945

OUTLETS Light 19

HEATERS Water 1,

Receptacles 24

Space 2,

Centers of Distribution 2,

Refrigerators 1,

Bell transformer 1,
Service equipment 1,

Irons 2,

Sign Outlets

No. FIXTURES 19

Electrical Contractor

Date

FINAL APPROVED BY R.B. Woodmansee Date of Service

February 6, 1946

Alterations or Repairs—Over

PLUMBING PERMIT # 18707 -- Yell for Pennell, Inc. - 1 Gas range - Nov. 6, 1945

ALTERATIONS & ADDITIONS

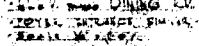
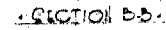
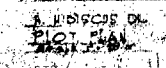
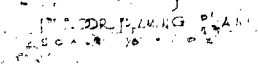
Building Permits:

- #58374 Richard Weiss: Florida Room addition to existing porch - 19'6"x8' - \$500 - Jan. 27, 1959. OK 3/10/59 Cox
#69074 Owner, Alfred Stolemaker: Repaint exterior - \$200. - 4/1/63
#69211 Yale Ogron Mfg. Co.: Replace 18 steel casements with awning type windows - \$650. - 4/25/63
77359 Associated Roofers: Reroof flat roof - \$100 - 11/10/66
#81357 Owner 14" x 18" for sale sign for sale 534-4025 \$5.00 11/12/68
#00100 - owner - for sale sign #298 \$5.00 11/22/71
#02646-Jack Justice Realtor-For Sale Sign #477-\$5-3-6-73
#03566-Orkin Exterminating-Fumigation-\$295-7-12-73
#07173-The Keyes Co-For Sale Sign #829-4-18-75
#23483 2/25/83 F & R Plumb - reroof 18 sqs \$3,000.
-

Plumbing Permits: # 34045 Beutel's Solar Heater Co: 1 Solar Water Heater repairs only -Oct. 15, 1952

- #40634 Serota Plbg: 1 4" Sewer - June 2, 1958
#44964 Beutel's Solar Heater: 1 solar water heater, replace tank - 10/8/65
#49237-Peoples Gas System- 1 Gas Outlet dryer-6-27-72
#57943-Isometric Plumbing- 1 dishwasher-12-4-79
-

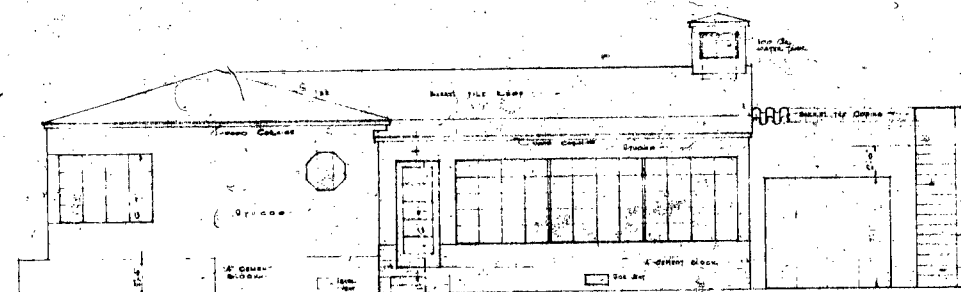
#53397 E & E Elec: 4 light outlets, 2 centers of distrib, 1 service equip, 1 motor(2-5HP)- 3/11/59 OK 3/11/59 Newbold
Electrical Permits: E & E



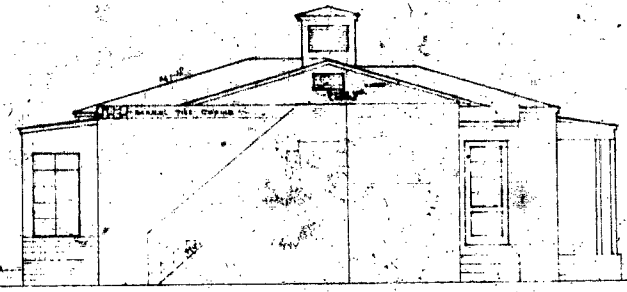
19876

4	B. DONKOT SWARTZBURG, DIRECTOR Guy L. Swartzburg, Jr. At St. Fla.		
	45-1	RM.	8/22/45

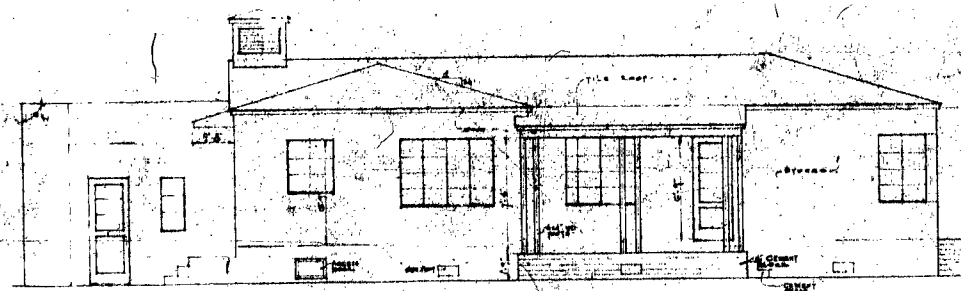
~~CLASSIFIED~~
~~ALL ATTACHED DOCUMENTS~~
~~EXCLUDED FROM AUTOMATIC DOWNGRADING AND DECLASSIFICATION~~
~~MIAMI BEACH, FLORIDA~~
~~TAXIOL CORRUPTION~~
~~MIAMI, FLORIDA~~



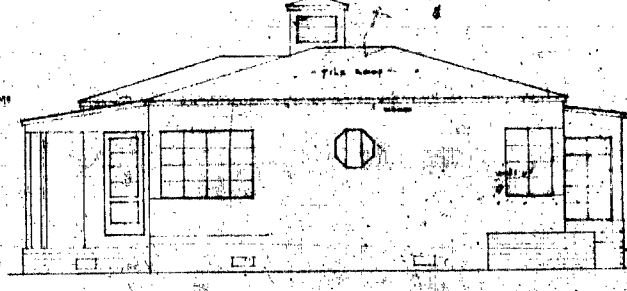
FRONT ELEVATION



SIDE ELEVATION



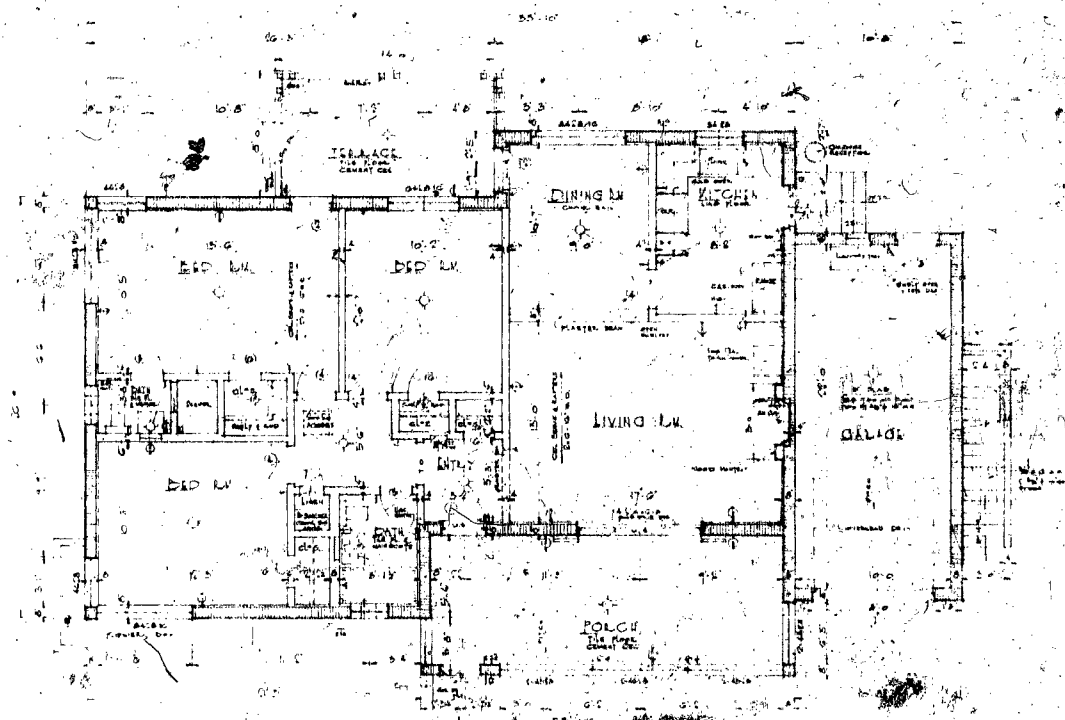
REAR ELEVATION



SIDE ELEVATION

A. ROBERT SWARTZBURG
 ARCHT. & ENGR.
 627 LAMAR ST. N.W.
 ATLANTA, GA.
 15-11-11 3/4" x 11"

RESIDENCE
 MR. & MRS. STOLMAR
 1818 S.W. 10TH AVE.
 MIAMI BEACH, FLORIDA
 TAYLOR CONSTRUCTION CO.
 MIAMI, FLORIDA



FLOOR PLAN
SCALE 1/4" = 1'-0"

DOOR SCHEDULE

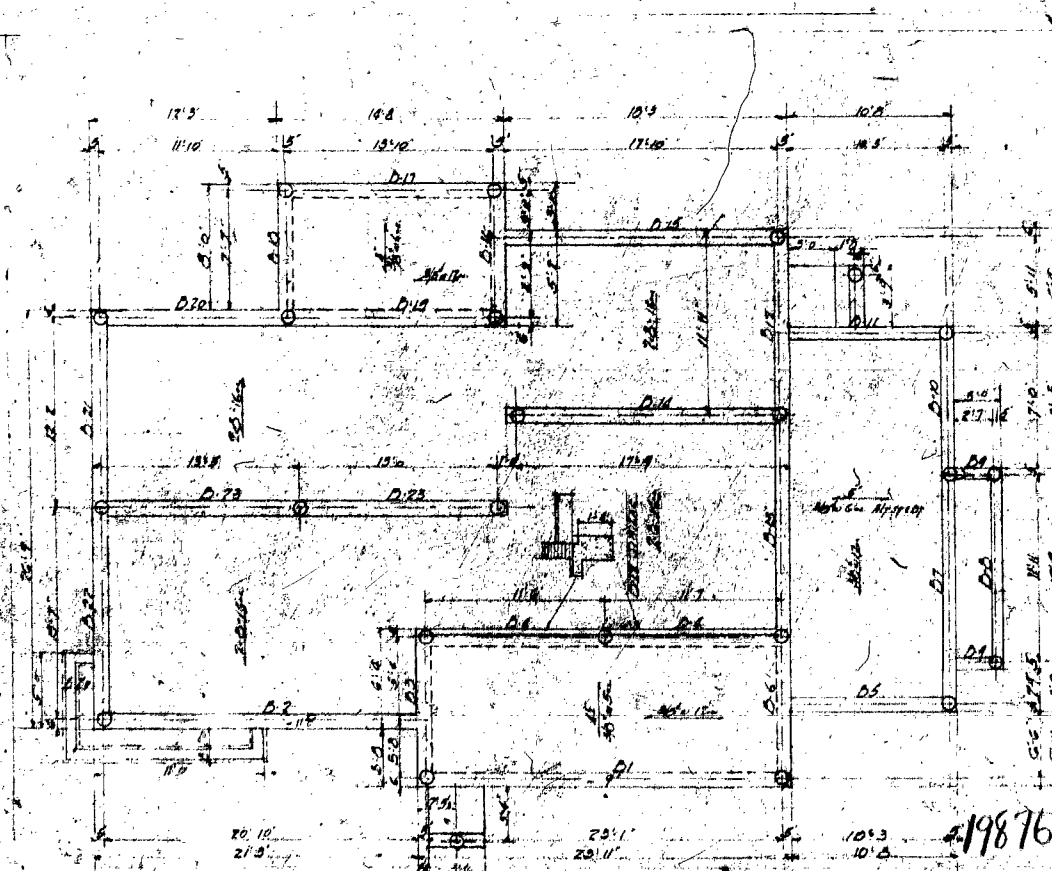
- 1. 6'0" x 6'0" SW. ELEVATOR
- 2. 6'0" x 6'0" SW. ELEVATOR
- 3. 6'0" x 6'0" SW. ELEVATOR
- 4. 6'0" x 6'0" SW. ELEVATOR
- 5. 6'0" x 6'0" SW. ELEVATOR
- 6. 6'0" x 6'0" SW. ELEVATOR
- 7. 6'0" x 6'0" SW. ELEVATOR
- 8. 6'0" x 6'0" SW. ELEVATOR
- 9. 6'0" x 6'0" SW. ELEVATOR
- 10. 6'0" x 6'0" SW. ELEVATOR

ELECTRIC SYMBOLS

- 1. 6'0" x 6'0" SW. ELEVATOR
- 2. 6'0" x 6'0" SW. ELEVATOR
- 3. 6'0" x 6'0" SW. ELEVATOR
- 4. 6'0" x 6'0" SW. ELEVATOR
- 5. 6'0" x 6'0" SW. ELEVATOR
- 6. 6'0" x 6'0" SW. ELEVATOR
- 7. 6'0" x 6'0" SW. ELEVATOR
- 8. 6'0" x 6'0" SW. ELEVATOR
- 9. 6'0" x 6'0" SW. ELEVATOR
- 10. 6'0" x 6'0" SW. ELEVATOR

R. ROBERT SWARTZ, JR.	
RESIDENT	
City of Lincoln, Nebraska	
10	10/10/45

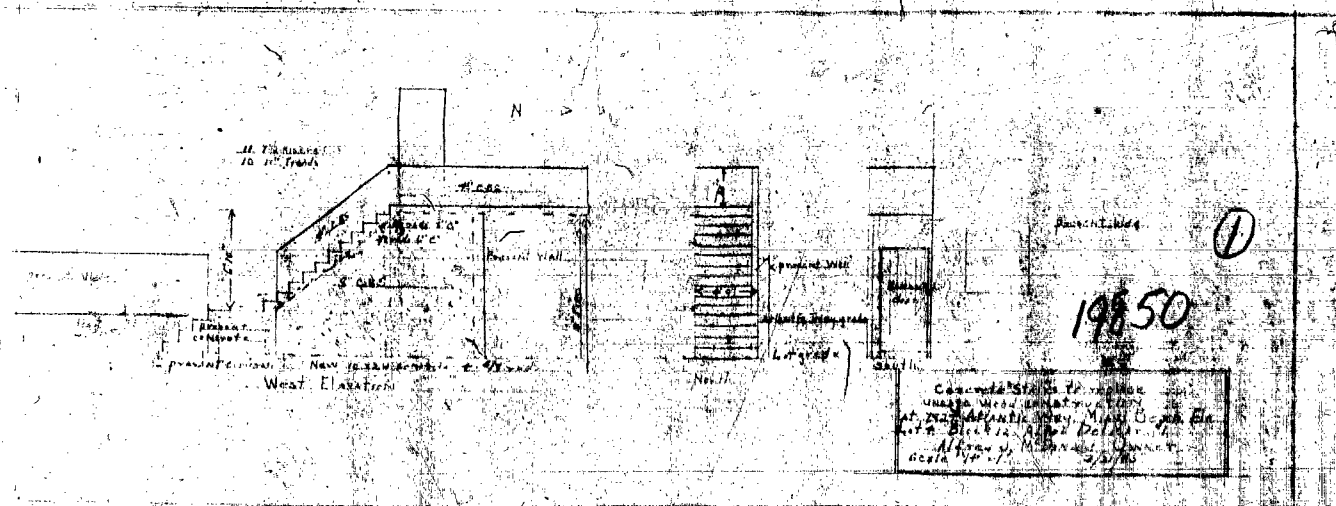
REVISIONS
NO. 1
DATE 10/10/45
BY R. ROBERT SWARTZ, JR.

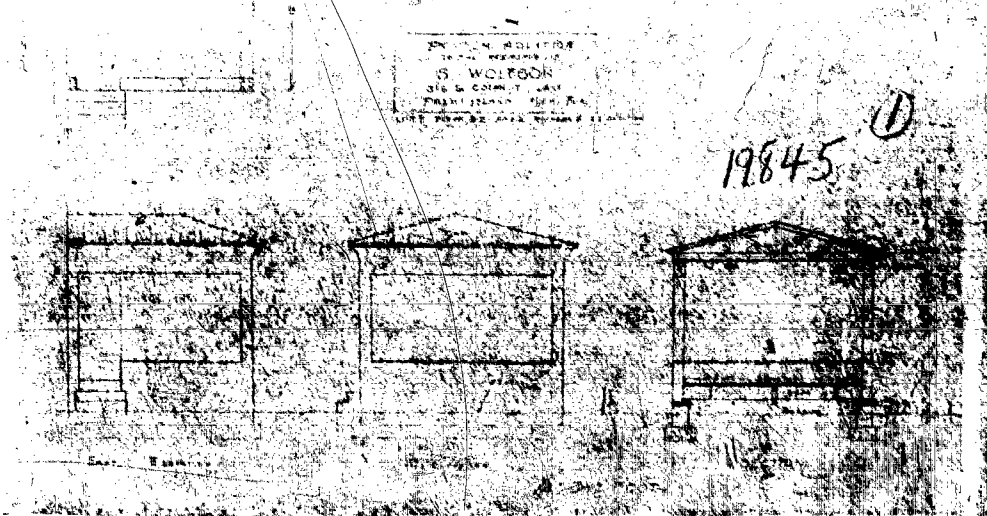


DIAM SCHEDULE

Pile No.	Size	Depth	Remarks
D1	12" x 12"	10' 0"	
D2	12" x 12"	10' 0"	
D3	12" x 12"	10' 0"	
D4	12" x 12"	10' 0"	
D5	12" x 12"	10' 0"	
D6	12" x 12"	10' 0"	
D7	12" x 12"	10' 0"	
D8	12" x 12"	10' 0"	
D9	12" x 12"	10' 0"	
D10	12" x 12"	10' 0"	
D11	12" x 12"	10' 0"	
D12	12" x 12"	10' 0"	
D13	12" x 12"	10' 0"	
D14	12" x 12"	10' 0"	
D15	12" x 12"	10' 0"	
D16	12" x 12"	10' 0"	
D17	12" x 12"	10' 0"	
D18	12" x 12"	10' 0"	
D19	12" x 12"	10' 0"	
D20	12" x 12"	10' 0"	
D21	12" x 12"	10' 0"	
D22	12" x 12"	10' 0"	
D23	12" x 12"	10' 0"	
D24	12" x 12"	10' 0"	
D25	12" x 12"	10' 0"	
D26	12" x 12"	10' 0"	
D27	12" x 12"	10' 0"	
D28	12" x 12"	10' 0"	
D29	12" x 12"	10' 0"	
D30	12" x 12"	10' 0"	
D31	12" x 12"	10' 0"	
D32	12" x 12"	10' 0"	
D33	12" x 12"	10' 0"	
D34	12" x 12"	10' 0"	
D35	12" x 12"	10' 0"	
D36	12" x 12"	10' 0"	
D37	12" x 12"	10' 0"	
D38	12" x 12"	10' 0"	
D39	12" x 12"	10' 0"	
D40	12" x 12"	10' 0"	
D41	12" x 12"	10' 0"	
D42	12" x 12"	10' 0"	
D43	12" x 12"	10' 0"	
D44	12" x 12"	10' 0"	
D45	12" x 12"	10' 0"	
D46	12" x 12"	10' 0"	
D47	12" x 12"	10' 0"	
D48	12" x 12"	10' 0"	
D49	12" x 12"	10' 0"	
D50	12" x 12"	10' 0"	
D51	12" x 12"	10' 0"	
D52	12" x 12"	10' 0"	
D53	12" x 12"	10' 0"	
D54	12" x 12"	10' 0"	
D55	12" x 12"	10' 0"	
D56	12" x 12"	10' 0"	
D57	12" x 12"	10' 0"	
D58	12" x 12"	10' 0"	
D59	12" x 12"	10' 0"	
D60	12" x 12"	10' 0"	
D61	12" x 12"	10' 0"	
D62	12" x 12"	10' 0"	
D63	12" x 12"	10' 0"	
D64	12" x 12"	10' 0"	
D65	12" x 12"	10' 0"	
D66	12" x 12"	10' 0"	
D67	12" x 12"	10' 0"	
D68	12" x 12"	10' 0"	
D69	12" x 12"	10' 0"	
D70	12" x 12"	10' 0"	
D71	12" x 12"	10' 0"	
D72	12" x 12"	10' 0"	
D73	12" x 12"	10' 0"	
D74	12" x 12"	10' 0"	
D75	12" x 12"	10' 0"	
D76	12" x 12"	10' 0"	
D77	12" x 12"	10' 0"	
D78	12" x 12"	10' 0"	
D79	12" x 12"	10' 0"	
D80	12" x 12"	10' 0"	
D81	12" x 12"	10' 0"	
D82	12" x 12"	10' 0"	
D83	12" x 12"	10' 0"	
D84	12" x 12"	10' 0"	
D85	12" x 12"	10' 0"	
D86	12" x 12"	10' 0"	
D87	12" x 12"	10' 0"	
D88	12" x 12"	10' 0"	
D89	12" x 12"	10' 0"	
D90	12" x 12"	10' 0"	
D91	12" x 12"	10' 0"	
D92	12" x 12"	10' 0"	
D93	12" x 12"	10' 0"	
D94	12" x 12"	10' 0"	
D95	12" x 12"	10' 0"	
D96	12" x 12"	10' 0"	
D97	12" x 12"	10' 0"	
D98	12" x 12"	10' 0"	
D99	12" x 12"	10' 0"	
D100	12" x 12"	10' 0"	

FOUNDACTION & PILING PLAN
RESIDENCE FOR
MR. ALFRED STEINER
1100 S. W. 1st St. MIAMI, FLA.
TAYLOR & CO. ENGINEERS
MIAMI, FLA.





City of Miami Beach Building Department

IMPORTANT NOTICE

Exterior windows and doors installation always requires a building permit and the following **MANDATORY** inspections:

1. - **Framing/structure inspection (Code 1135 or 1190).** It is to be sure that the structure receiving and supporting the window/door in **sound conditions** to hold the window/door on its place. On new construction it is usually under the master permit.
2. - **Bucks inspection (Code 1135 or 1190 until new Code is created).** Bucks and shims are regulated by the Florida Building Code and by the specific N.O.A. In some cases structural calculations and details are required.
3. - **Window/door installation inspection (Code 1185).** It shall be done when windows are installed but **not** finished/concealed yet. Inspector will inspect anchors, window/doors type, model, and to checking means of escape and safeguard requirements.
4. - **Planning (Code 7005) and Fire (Code 3099) Finals.** Contractor shall be sure that these two departments' requirements are fulfilled and call inspections required. Single Family Residences are exempt of Fire inspection.
5. - **Final Windows/doors (Code 1187).** To be performed when windows/ doors are completely finished and operable, and all the previous inspections approved. This inspection will close the window permit. Keep stickers/labels for this inspection.

SPECIAL INSTRUCTIONS FOR REPLACEMENT OF EXISTING WINDOWS/DOORS ON EXISTING BUILDINGS:

To avoid possible water damage and to minimize the time without windows/doors in occupied buildings, inspections 1, 2, and 3 can be performed at the same time as "**in progress**". Contractor **MUST** call for these in progress inspection the **first and every following day** of removal and installation work. Failing to call these inspections will generate an automatic \$250.00 Fine. Contractor will be responsible of removing and re-installing any window/door required by the inspector to perform the mandatory inspections.

If the inspector does not show up after an inspection has been called thru the automated system, the Contractor is allowed to install windows/doors but not finish them, to allow inspector to see the work done. Taking pictures is recommended on this case, even though **pictures are not a substitute of inspections.**

Engineer/Architect inspections **are not accepted** unless required by the Plans Examiner at the time of Permit approval or by the Inspector at the job site.

Person Receiving Document X

Alice Bryant

230 N HIBISCUS DRIVE



NOTICE: In addition to the requirement of this permit there may be additional restrictions applicable to this property that may be found in the Public Records of this County and there may be additional permits required from other government entities such as water management districts, state agencies, or federal agencies.

The City of Miami Beach assumes no responsibility for accuracy

results from these plans which are subject to change without notice. Federal, State, and Local Laws, Rules, and Regulations.

THE FOLLOWING:

BUILDING:	MX/SCHAD 3-14-12
ZONING:	3/14/12
DRB/HAB:	
CONCURRENCY:	
PLUMBING:	
ELECTRICAL:	
MECHANICAL:	
FIRE PREVENTION:	
ENGINEERING:	
PUBLIC WORKS:	ENC-3-14-2012
STRUCTURAL:	AV 3/14/12
ELEVATOR:	

48 HOURS PRIOR TO EXCAVATING
CONTRACTOR SHALL CALL FOR LOCATION
OF UNDERGROUND UTILITIES
SUNSHINE ONE-CALL 1-800-432-4770
CITY OF MIAMI BEACH 305-673-7080



0
3
0





0
2
0





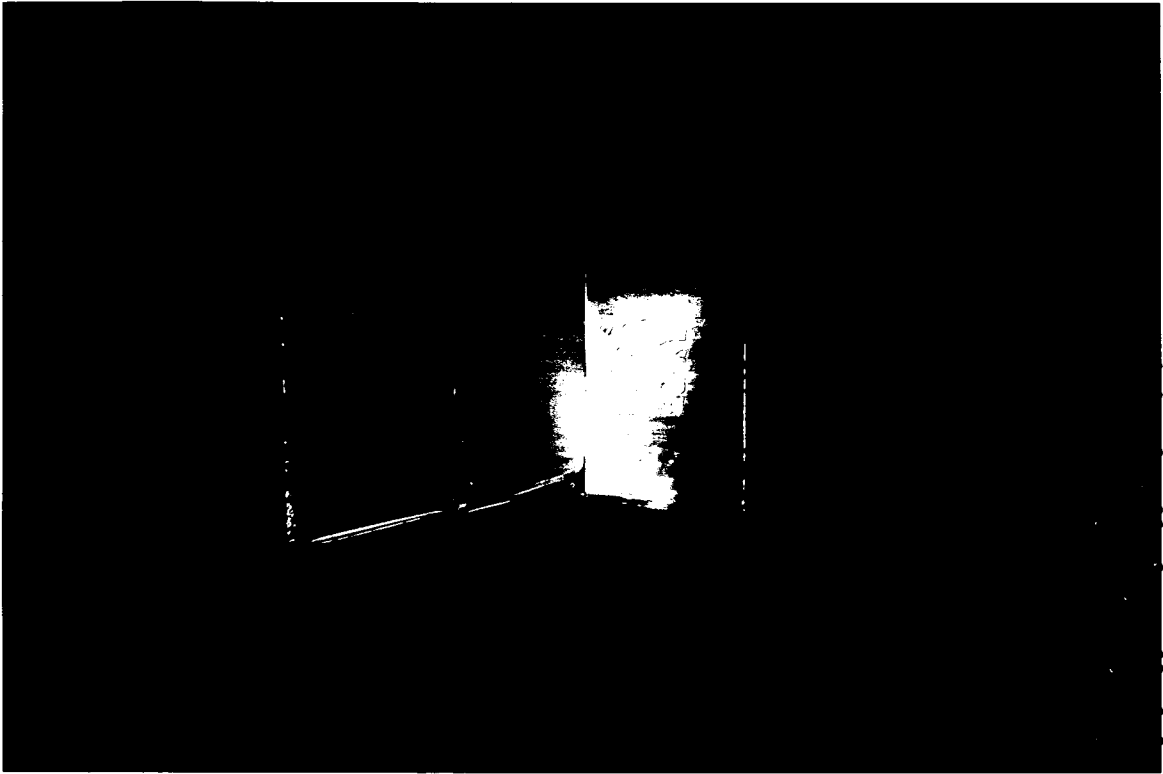
0
2
0



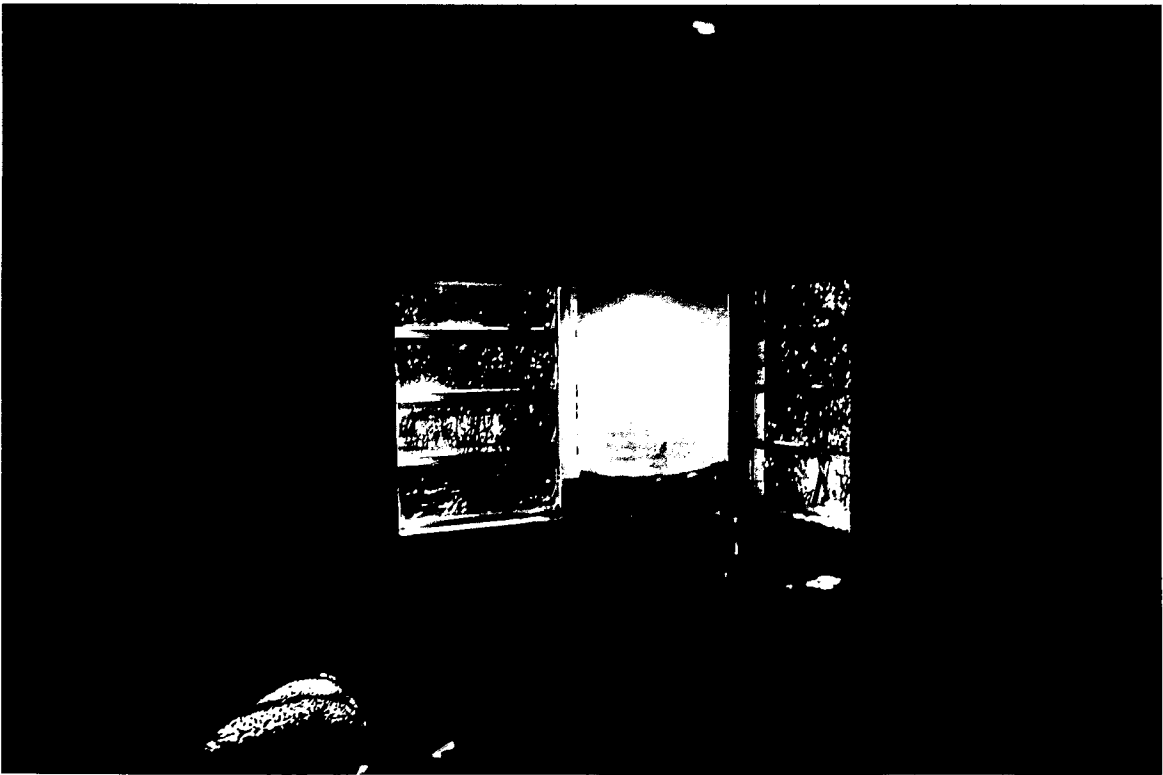


0
3
0





0
3
0





030



2007 FLORIDA BUILDING CODE

WORST CASE DESIGN PRESSURE CHART FOR COMPONENTS AND CLADDING per ASCE 7-05 FOR BUILDINGS WITH MEAN ROOF HEIGHT OF 60 FEET OR LESS

Emma T. Mellinger, P.E.
1600 S. Federal Highway, #207, Pompano Beach, FL 33062
(954) 784-6991 (954) 781-5708 fax
emma@csgs.com

DESIGN PRESSURES FOR INTERIOR ZONES ("Zone 4")

Mean Roof Height (ft)	10	15	20	25	30	35	40	45	50
15	-46.5	-45.2	-44.4	-43.7	-43.1	-42.7	-42.3	-41.9	-41.6
16	-50.4	-49.2	-48.3	-47.6	-47.1	-46.6	-46.2	-45.9	-45.5
17	-51.1	-49.9	-49.0	-48.3	-47.7	-47.3	-46.8	-46.5	-46.2
18	-51.7	-50.5	-49.6	-48.9	-48.3	-47.9	-47.4	-47.1	-46.8
19	-52.4	-51.1	-50.2	-49.5	-48.9	-48.4	-48.0	-47.7	-47.3
20	-53.0	-51.7	-50.8	-50.1	-49.5	-49.0	-48.6	-48.2	-47.9
22	-53.5	-52.2	-51.3	-50.6	-50.0	-49.5	-49.1	-48.7	-48.4
24	-54.6	-53.3	-52.4	-51.6	-51.0	-50.5	-50.1	-49.7	-49.4
26	-55.6	-54.3	-53.3	-52.6	-52.0	-51.5	-51.0	-50.6	-50.3
28	-56.6	-55.2	-54.2	-53.5	-52.9	-52.3	-51.9	-51.5	-51.1
30	-57.5	-56.1	-55.1	-54.3	-53.7	-53.2	-52.7	-52.3	-51.9
32	-58.3	-56.9	-55.9	-55.1	-54.5	-53.9	-53.5	-53.1	-52.7
34	-59.1	-57.7	-56.7	-55.9	-55.2	-54.7	-54.2	-53.8	-53.4
36	-59.9	-58.4	-57.4	-56.6	-55.9	-55.4	-54.9	-54.5	-54.1
38	-60.6	-59.1	-58.1	-57.3	-56.6	-56.1	-55.6	-55.1	-54.8
40	-61.3	-59.8	-58.7	-57.9	-57.3	-56.7	-56.2	-55.8	-55.4
44	-62.0	-60.5	-59.4	-58.6	-57.9	-57.3	-56.8	-56.4	-56.0
48	-62.6	-61.1	-60.0	-59.2	-58.5	-57.9	-57.4	-56.9	-56.5
52	-63.2	-61.7	-60.6	-59.8	-59.1	-58.5	-58.0	-57.5	-57.1
56	-63.8	-62.3	-61.2	-60.4	-59.7	-59.1	-58.6	-58.1	-57.7
60	-64.4	-62.9	-61.8	-61.0	-60.3	-59.7	-59.2	-58.7	-58.3

DESIGN PRESSURES FOR EXTERIOR ZONES ("Zone 5")

Mean Roof Height (ft)	10	15	20	25	30	35	40	45	50
15	-46.5	-45.2	-44.4	-43.7	-43.1	-42.7	-42.3	-41.9	-41.6
16	-62.2	-59.8	-58.0	-56.7	-55.6	-54.6	-53.8	-53.1	-52.5
17	-67.1	-65.0	-63.8	-62.8	-61.8	-60.9	-60.1	-59.4	-58.8
18	-67.7	-65.6	-64.4	-63.4	-62.5	-61.6	-60.8	-60.1	-59.5
19	-68.3	-66.2	-65.0	-64.0	-63.1	-62.2	-61.4	-60.7	-60.1
20	-68.9	-66.8	-65.6	-64.6	-63.7	-62.8	-62.0	-61.3	-60.7
22	-69.4	-67.3	-66.1	-65.1	-64.2	-63.3	-62.5	-61.8	-61.2
24	-69.9	-67.8	-66.6	-65.6	-64.7	-63.8	-63.0	-62.3	-61.7
26	-70.4	-68.3	-67.1	-66.1	-65.2	-64.3	-63.5	-62.8	-62.2
28	-70.9	-68.8	-67.6	-66.6	-65.7	-64.8	-64.0	-63.3	-62.7
30	-71.4	-69.3	-68.1	-67.1	-66.2	-65.3	-64.5	-63.8	-63.2
32	-71.9	-69.8	-68.6	-67.6	-66.7	-65.8	-65.0	-64.3	-63.7
34	-72.4	-70.3	-69.1	-68.1	-67.2	-66.3	-65.5	-64.8	-64.2
36	-72.9	-70.8	-69.6	-68.6	-67.7	-66.8	-66.0	-65.3	-64.7
38	-73.4	-71.3	-70.1	-69.1	-68.2	-67.3	-66.5	-65.8	-65.2
40	-73.9	-71.8	-70.6	-69.6	-68.7	-67.8	-67.0	-66.3	-65.7
44	-74.4	-72.3	-71.1	-70.1	-69.2	-68.3	-67.5	-66.8	-66.2
48	-74.9	-72.8	-71.6	-70.6	-69.7	-68.8	-68.0	-67.3	-66.7
52	-75.4	-73.3	-72.1	-71.1	-70.2	-69.3	-68.5	-67.8	-67.2
56	-75.9	-73.8	-72.6	-71.6	-70.7	-69.8	-69.0	-68.3	-67.7
60	-76.4	-74.3	-73.1	-72.1	-71.2	-70.3	-69.5	-68.8	-68.2

JOB SITE LOCATION:

WIND SPEED = 146 MPH, EXPOSURE "C"

These tables are valid for the following conditions only:

- 1 Wind Speed (3-second gust): 146 mph.
 - 2 Building Category: II (General Residential and Commercial Construction).
 - 3 Importance Factor: 1.0
 - 4 Exposure Category: C
 - 5 Topographic Factor (Kzt): 1.0 (Flat Terrain)
 - 6 Directionality Factor (Kd): 0.85
- For situations requiring Kd=1.0, multiply the values in these tables by 1.18. Verify Kd requirements with local building official and product approvals before use.

7 Gopi: +/- 0.18

8 Enclosed Building

Consult an Engineer for any other conditions

Instructions

- 1 Tables show the "worst case" design pressures, with any unknown variable at its critical condition.
- 2 Tables are valid only for mean roof heights of 60 feet or less.
- 3 Tables are valid for any roof slope. For reductions for roof slopes less than 10 degrees, consult Engineer for site specific analysis.
- 4 Calculate the average roof height. If average cannot be determined, use the peak roof height. Round up the roof height to the next highest table value.
- 5 Calculate the tributary area (length x height) of the opening in question. Round the tributary area down to the next smallest table value. If the tributary area is unknown, use the most critical value (10 square feet).
- 6 Area between structural mullions shall be used as tributary area.
- 7 Determine the Zone (Interior 4, or Exterior 5) of the opening. An opening with any portion closer than distance "a" to a building corner shall be considered in an Exterior Zone (5), otherwise if all of the opening falls more than distance "a" from a building corner, the opening shall be considered in an Interior Zone (4).
- 8 Distance "a," as referred to above, shall be calculated as 10% of the minimum building width, but not less than 3 feet.
- 9 Read the worst case positive and negative design pressures for use as required by governing building codes.

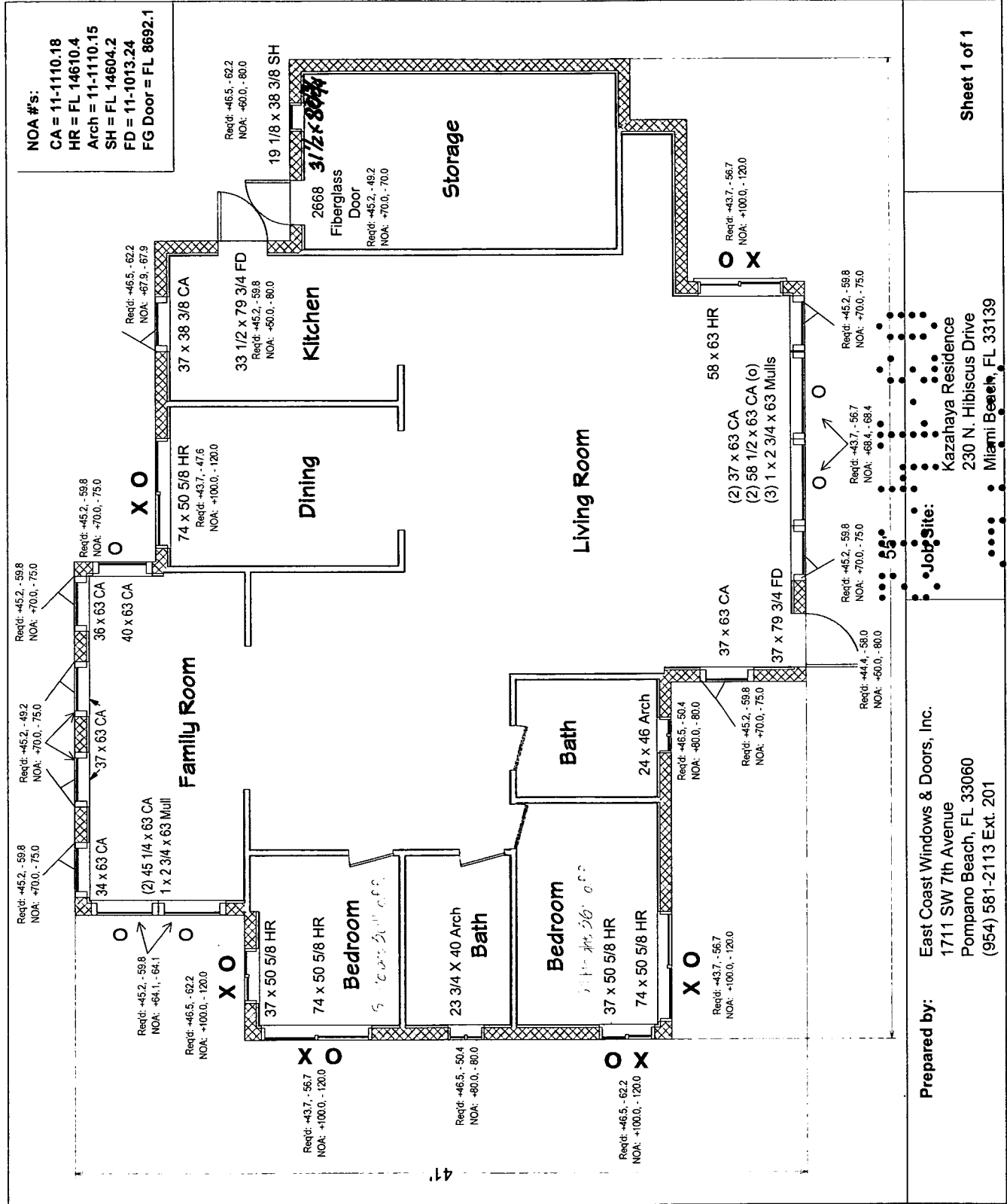
General Notes

- 1 These tables are not valid as a site-specific drawing
- 2 These tables are only valid when signed and embossed with raised impression seal by Emma T. Mellinger, P.E.
- 3 No alterations or markings on this document are permitted
- 4 These tables apply to walls and vertical surfaces only.
- 5 Use of these tables, and the values and coefficients listed herein is to be dictated and verified by the governing building department and permit holder.
- 6 These tables are intended solely to illustrate design wind pressures as listed. No other warranty or certification is intended or applicable.
- 7 This document is the work and property of Emma T. Mellinger, P.E., and shall not be reproduced in whole or in part without her express written consent.

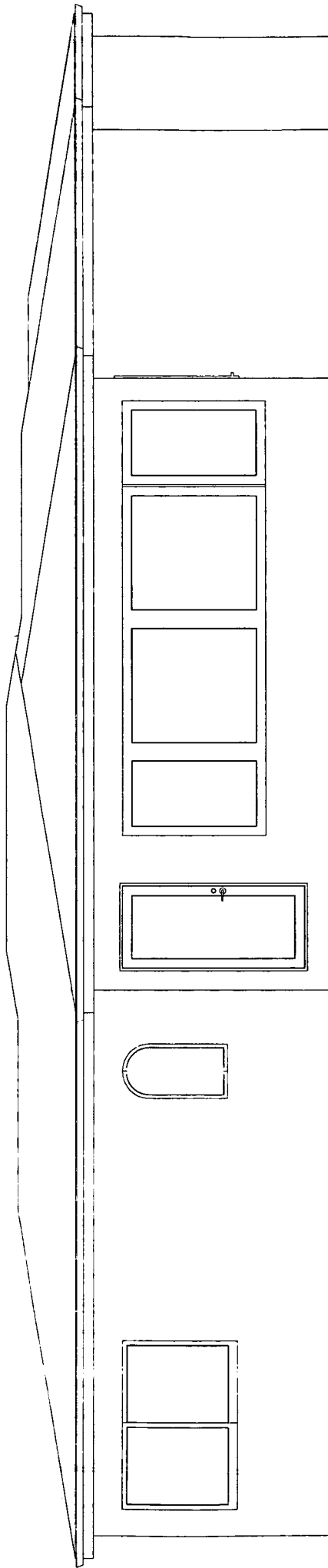
Emma T. Mellinger, P.E.
FL P.E. # 50049

Date: August 10, 2011

Wind Loads



230 N Hibiscus Drive

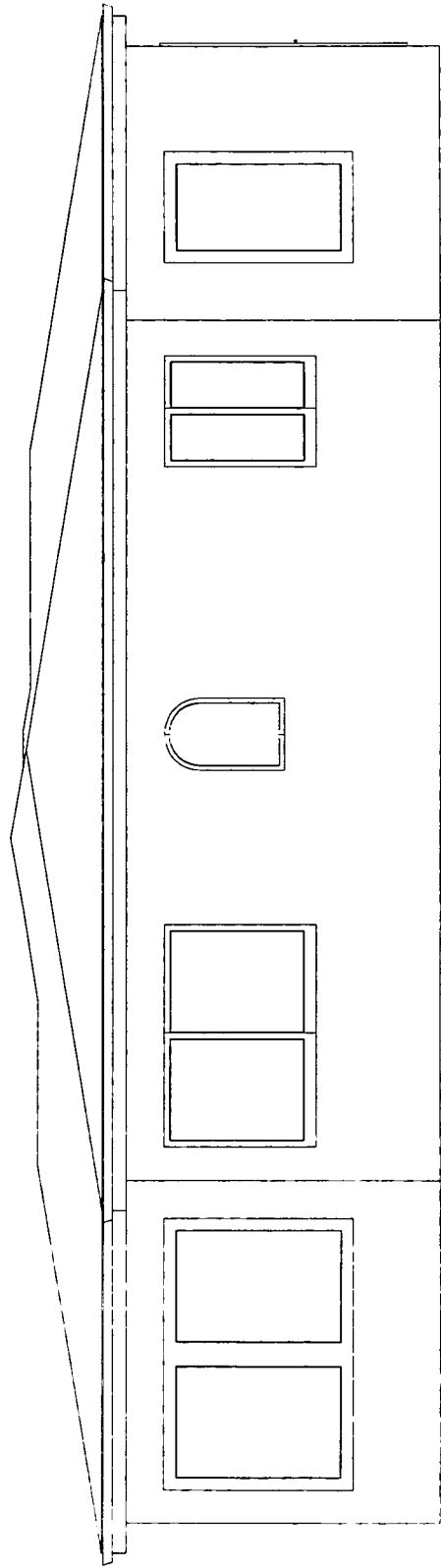


Front Elevation

Elevation

37.1.00
02.0

230 N Hibiscus Drive

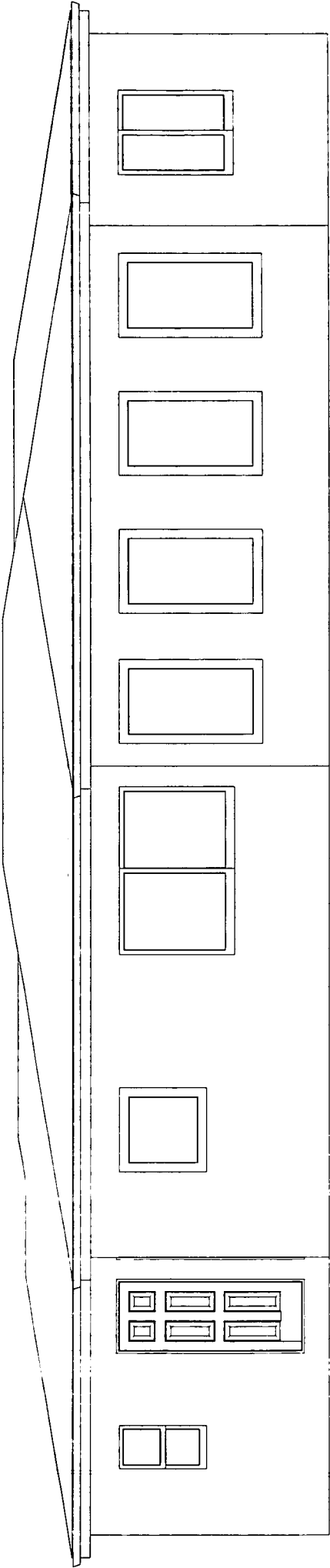


Left Side Elevation

374788

230

230 N Hibiscus Drive

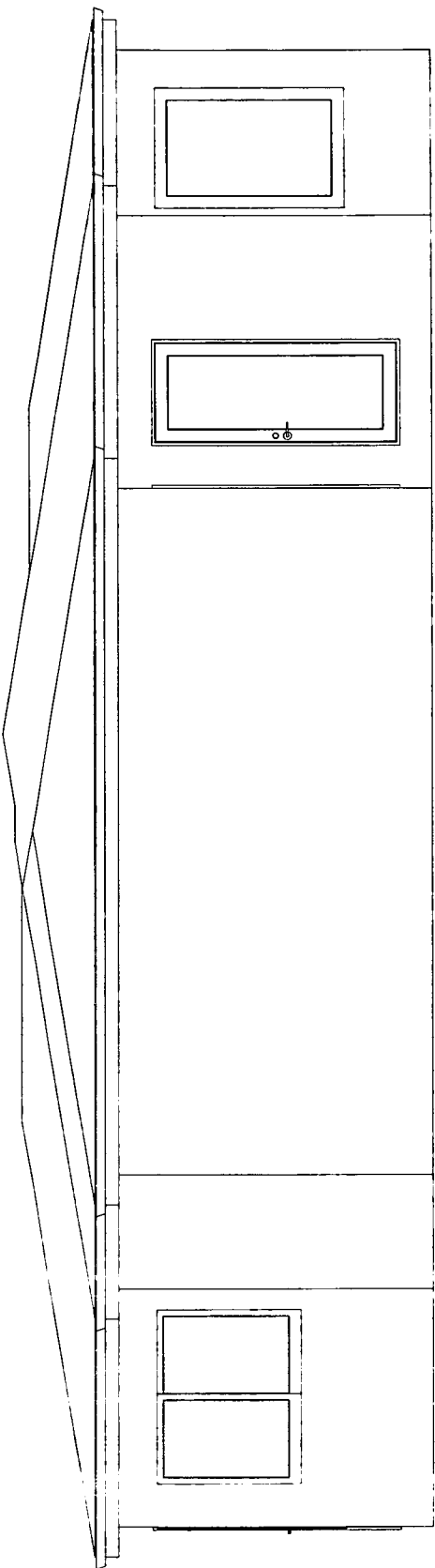


Rear Elevation

23.41.00

0240

230 N Hibiscus Drive



Right Side Elevation

23.41.99

23.41.99



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 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 "CA-740" Aluminum Casement Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. 7045-8, titled "Aluminum Casement Windows, Impact", sheets 1 through 13 of 13, prepared by manufacturer, dated 12/17/02 with revision "E" dated 10/24/11, 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 Missile 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 No. 08-0117.11 and consists of this page 1, 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
2/2/12

NOA No. 11-1110.18
Expiration Date: May 22, 2013
Approval Date: February 09, 2012
Page 1

PGT Industries

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under previous NOA No. 05-1129.11 and 03-0611.02)
2. Drawing No. 7045-8, titled "Aluminum Casement Windows, Impact", sheets 1 through 13 of 13, prepared by manufacturer, dated 12/17/02 with revision "E" dated 10/24/11, 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 202-94
2. along with marked-up drawings and installation diagram of outswing aluminum casement window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.'s FTL-4607 and FTL-4608, dated 05/10/05, both signed and sealed by Edmund Largaespada, P. E.
(Submitted under previous NOA No. 05-1129.11)
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) 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 outswing aluminum casement window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.'s FTL-3729, FTL-3587, FTL-3582 and FTL-3580, dated 02/28/03 and 10/03/02, all signed and sealed by Joseph C. Chan, P. E.
(Submitted under previous NOA No. 03-0611.02)

C. CALCULATIONS

1. Revised anchor verification calculations and structural analysis, dated 11/21/05 complying with FBC, prepared by manufacture, signed and sealed by Lucas A. Turner, P. E.
(Submitted under previous NOA No. 08-0117.11)
2. Glazing complies with ASTM E1300-98/ 04

D. QUALITY ASSURANCE

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


Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 11-1110.18
Expiration Date: May 22, 2013
Approval Date: February 09, 2012

PGT Industries

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

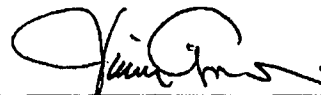
1. Notice of Acceptance No. 11-0624.01 issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont Butacite® PVB Interlayer" dated 09/08/11, expiring on 12/11/16.
2. Notice of Acceptance No. 11-0325.05 issued to Solutia, Inc. for their "Saflex - Clear or colored Interlayer" dated 04/21/11, expiring on 04/21/16.

F. STATEMENTS

1. Statement letter of conformance and compliance with the FBC-2007 (with the 2009 supplement) and FBC-2010, dated 10/29/11, signed and sealed by Anthony Lynn Miller, P. E.
2. Statement letter of no financial interest and independence, dated 10/29/11, signed and sealed by Anthony Lynn Miller, P. E.
3. Letter of *Adoption of as his Own, the Work of another Engineer*, per Section 61G15-27.001 of the F.B.P.E., dated 10/07/11 signed and sealed by Anthony Lynn Miller, P. E.
4. Statement letter of no financial interest, independence, conformance and compliance with the Florida Building Code, dated 01/11/08, signed and sealed by Robert L. Clark, P. E.
(Submitted under previous NOA No. 08-0117.11)
5. Laboratory compliance letters for Test Reports No.'s FTL-4607 and FTL-4608, issued by Fenestration Testing Laboratory, Inc., dated 05/10/05, both signed and sealed by Edmundo Largaespada, P. E.
(Submitted under previous NOA No. 05-1129.11)
6. Laboratory compliance letters for Test Reports No.'s FTL-3729, FTL-3587, FTL-3582 and FTL-3580, issued by Fenestration Testing Laboratory, Inc., dated 02/28/03 and 10/03/02, all signed and sealed by Joseph C. Chan, P. E.
(Submitted under previous NOA No. 03-0611.02)

G. OTHERS

1. Notice of Acceptance No. 08-0117.11, issued to PGT Industries for their Series "CA-740 Aluminum Casement Window - L.M.I." approved on 05/15/08 and expiring on 05/22/13.



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 11-1110.18
Expiration Date: May 22, 2013
Approval Date: February 09, 2012

NOTES: LARGE MISSILE WINDOWS

1. GLAZING OPTIONS:

- 5/16" LAMINATED GLASS COMPRISED OF (1) LITE OF 1/8" ANNEALED GLASS AND (1) LITE OF 1/8" HEAT STRENGTHENED GLASS W/ AN .080 INTERLAYER OF SOLUTIA OR DUPONT PVB.
- 5/16" LAMINATED GLASS COMPRISED OF (2) LITES OF 1/8" HEAT STRENGTHENED GLASS W/ AN .080 INTERLAYER OF SOLUTIA OR DUPONT PVB.
- 7/16" LAMINATED GLASS COMPRISED OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS W/ AN .080 INTERLAYER OF SOLUTIA OR DUPONT PVB.
- 7/16" LAMINATED GLASS COMPRISED OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS W/ AN .080 INTERLAYER OF SOLUTIA OR DUPONT PVB.
- 13/16" I.G. GLASS COMPRISED OF (1) LITE OF 1/8" HEAT STRENGTHENED GLASS AND (1) 5/16" LAMINATED COMPONENT WITH A 3/8" AIR SPACE. 5/16" LAMINATED GLASS COMPRISED OF (2) LITES OF 1/8" HEAT STRENGTHENED GLASS WITH AN .080 SOLUTIA OR DUPONT PVB INTERLAYER.
- 13/16" I.G. GLASS COMPRISED OF (1) LITE OF 1/8" HEAT STRENGTHENED GLASS AND (1) 7/16" LAMINATED COMPONENT WITH AN AIR SPACE. 7/16" LAMINATED GLASS COMPRISED OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS WITH AN .080 SOLUTIA OR DUPONT PVB INTERLAYER.
- 13/16" I.G. GLASS COMPRISED OF (1) LITE OF 1/8" ANNEALED GLASS AND (1) 7/16" LAMINATED COMPONENT WITH AN AIR SPACE. 7/16" LAMINATED GLASS COMPRISED OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH AN .080 SOLUTIA OR DUPONT PVB INTERLAYER.

IN MIAMI-DADE COUNTY OPTIONS E, F, AND G WHEN INSTALLED OVER 30' THE OUTBOARD LITE OF GLASS MUST BE UPGRADED TO TEMPERED. Δ

- CONFIGURATIONS: Δ , $\Delta\Delta$, $\Delta\Delta\Delta$, $\Delta\Delta\Delta\Delta$, $\Delta\Delta\Delta\Delta\Delta$ AND $\Delta\Delta\Delta\Delta\Delta\Delta$
- DESIGN PRESSURE RATINGS / COMPARATIVE ANALYSIS TABLES:
 - NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E 1300-88.
 - POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E 1300-88.
 - DESIGN PRESSURES UNDER 40 P.S.F. NOT APPLICABLE IN MIAMI-DADE COUNTY.
 - FOR "X" CONFIGURATIONS SEE SHEET 5.
 - FOR "XX" CONFIGURATIONS SEE SHEET 6.
 - FOR "XXX" "XXX" & "O" CONFIGURATIONS SEE SHEET 7.
 - FOR "XXX" "XXX" & "XO" OR "OX" CONFIGURATIONS SEE SHEET 8.
 - FOR UNEQUAL LITE "XOX", "XO" & "OX" CONFIGURATIONS SEE SHEET 9.

$\Delta\Delta$ 4. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEETS 3, 4 AND 13 FOR ADDITIONAL ANCHORAGE INFORMATION.

HEAD & SILL: MAX. 4" FROM CORNERS
MAX. 4" & 7" ON EACH SIDE OF MEETING RAILS
MAX. 14 1/2" SPACING ON VENTS
MAX. 13" SPACING ON FIXED LITES

JAMBS: (2) ANCHORS 3" APART AT MID-SPAN ON FIXED LITE ONLY
MAX. 4" FROM CORNERS
MAX. 13" SPACING

Δ SEE SHEET 13 FOR APPROVED ANCHORS. 1/4" TAPCONS OR 1/4" SS4 CRETE-FLEX MAY BE USED IN CONCRETE OR WOOD APPLICATIONS TO ACHIEVE THE DESIGN PRESSURES SHOWN IN SHEETS 5 THROUGH 8. SEE SHEETS 5 THROUGH 8 FOR DESIGN PRESSURE LIMITATIONS WHEN ANCHORING WITH #12 SCREWS.

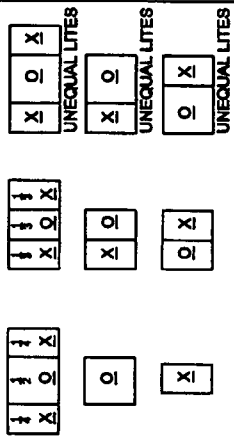
5. SHUTTER REQUIREMENT: NONE REQUIRED

6. NARROW JOINT SEALANT IS USED ON ALL FOUR CORNERS OF THE FRAME.

Δ 7. REFERENCE TEST REPORTS: FTL-3580, FTL-3582, FTL-3587, FTL-3588, FTL-3592, FTL-3597, FTL-3628, FTL-4807 AND FTL-4808.

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

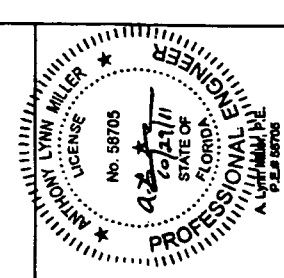
CONFIGURATIONS OPTIONS



NOA DRAWING TABLE OF CONTENTS

NOTES.....	SHEET
GLAZING DETAILS.....	1
ELEVATIONS.....	2
DESIGN PRESSURE TABLES.....	3-4
SECTIONS.....	5-9
CORNER CONSTRUCTION.....	10
EXTRUSION PROFILES.....	11-12
PARTS LIST.....	12
ANCHORAGE.....	1, 3, 4, 13

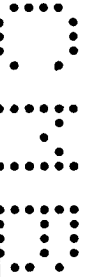
PRODUCT REVISED
in compliance with the Florida
Building Code
Approved by:
[Signature]
Miami Dade Product Council

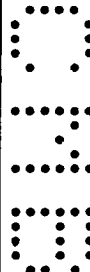


NOTES AND TABLE OF CONTENTS

PCT		1070 TECHNOLOGY DRIVE NOKOMIS, FL 34429		P.O. BOX 1639 NOKOMIS, FL 34424	
Customer	CA-740	Revision	1	Quantity	7046-9
Product	ALUMINUM CASEMENT WINDOW, IMPACT	Material	NTS	Unit	E







COMPARATIVE ANALYSIS TABLE 1.									
GLAZING OPTIONS: A. 5/16" LAMI (1/8"A, .090, 1/8"HS) B. 5/16" LAMI (1/8"HS, .090, 1/8"HS) E. 13/16" LAMI (1/8"HS, 3/8" SPACE, 5/16" LAMI-W/ 1/8"HS, .090, 1/8"HS)									
"X" WINDOWS									
HEIGHT									
"X" WIDTH	26	31	36	38 3/8	43	48	50 5/8	54	57
19 1/8	NEG POS	NEG POS	NEG POS	NEG POS	NEG POS	NEG POS	NEG POS	NEG POS	NEG POS
A	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0
B,E	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0
24	A	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0
B,E	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0
26 1/2	A	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0
B,E	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0
30	A	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0
B,E	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0
32	A	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0
B,E	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0	-90.0 70.0
34	A	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0
B,E	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0
36	A	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0
B,E	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0
37	A	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0
B,E	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0	-75.0 70.0

TABLE 2. "X" WINDOWS TEST REPORTS: FTL-3587

GLAZING OPTION: C. 7/16" LAMI (3/16"A, .090, 3/16"HS)	ALL "X" SIZES UP TO 37" WIDE x 63" HIGH AND ALL "X" SIZES UP TO 32" WIDE x 72" HIGH	-90.0 70.0
---	---	------------

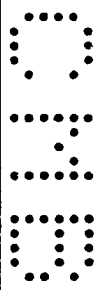
TABLE 2A. "X" WINDOWS TEST REPORTS: FTL-4607, FTL-4808

GLAZING OPTIONS: C. 7/16" LAMI (3/16"A, .090, 3/16"HS) F. 13/16" LAMI (1/8"A, AIR SPACE, 7/16" LAMI-W/ 3/16"A, .090, 3/16"HS)	ALL "X" SIZES UP TO 37" WIDE x 76" HIGH	-55.0 55.0
---	---	------------

X

NOTES: A
 1. FOR INSTALLATIONS IN WOOD OR CONCRETE TO THE FULL DESIGN PRESSURES IN THE ABOVE TABLES, USE ELCO 1/4" TAPCONS OR 1/4" SS4 CRETE-FLEX ANCHORS.
 2. IF INSTALLING WITH #12 SCREWS, DESIGN PRESSURE IS LIMITED TO 69.8 P.S.F.

Project No: 171003 Date: 02/20/06 Drawn By: J.L. Check By: J.L. Date: 12/11/02	Revision: C Description: NO CHANGE THIS SHEET Revision: D Description: REVISE ANCHORS & ADD 76" HEIGHT OPTION Revision: E Description: NO CHANGE THIS SHEET	1070 TECHNOLOGY DRIVE NORFOLK, VA 24706 P.O. BOX 1639 NORFOLK, VA 24714	PRESSURES: X CONFIG WINDOWS ALUMINUM CASEMENT WINDOW, IMPACT Variable Better C-740 NTS 5 x 13 7045-8 E
--	--	--	---



PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No.
 Registration No.
 By: [Signature]
 Mutual Date Product Control

11-11-10-18
 11-11-10-18

ANTHONY LYNN MILLER
 LICENSE
 No. 58705
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 ALUMINUM
 P.E. 08705

X	X
---	---

COMPARATIVE ANALYSIS TABLE 3. "XX" WINDOWS TEST REPORTS: FTL-3582

GLAZING OPTION: A. 5/16" LAMI (1/8"A, .090, 1/8"HS)

"XX" WIDTH	HEIGHT																							
	26		31		38		38 3/8		43		48		50 5/8		54		57		60		63			
	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS		
37	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	
43	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	
48	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	
53 1/8	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	
57	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-74.4	70.0	-69.8	99.8	-85.2	70.0	-72.1	70.0	-69.5	89.5	-67.5	87.5	
60	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-68.4	88.4	-63.9	83.9	-60.0	60.0	-58.5	58.5	-56.2	56.2	-53.4	53.4	
64	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-71.1	70.0	-61.8	61.8	-58.9	58.9	-56.1	56.1	-53.8	53.8	-50.4	50.4	-47.7	47.7	
68	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-65.5	65.5	-57.5	57.5	-54.9	54.9	-51.8	51.8	-48.6	48.6	-45.2	45.2	-42.4	42.4	
72	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-60.4	60.4	-54.3	54.3	-51.1	51.1	-47.9	47.9	-44.8	44.8	-42.2	42.2	-39.7	39.7	
74	A	-75.0	70.0	-75.0	70.0	-73.7	70.0	-67.9	67.9	-59.0	59.0	-52.8	52.8	-49.9	49.9	-46.4	46.4	-43.5	43.5	-41.1	41.1	-38.6	38.6	

TABLE 4. "XX" WINDOWS TEST REPORTS: FTL-3582, FTL-3728

GLAZING OPTIONS: B. 5/16" LAMI (1/8"HS, .090, 1/8"HS) E. 13/16" LAMI (1/8"HS, 3/8" SPACE, 5/16" LAMI-W/ 1/8"HS, .090, 1/8"HS)

ALL "XX" SIZES UP TO 74" WIDE x 63" HIGH -75.0 70.0

TABLE 5. "XX" WINDOWS TEST REPORT: FTL-3580

GLAZING OPTION: C. 7/16" LAMI (3/16"A, .090, 3/16"HS)

ALL "XX" SIZES UP TO 74" WIDE x 63" HIGH -80.0 70.0

TABLE 5A. "XX" WINDOWS TEST REPORTS: FTL-3580, FTL-4807, FTL-4808

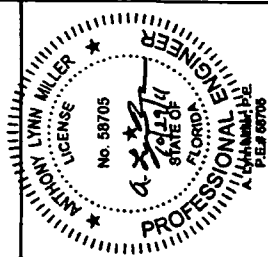
GLAZING OPTIONS: C. 7/16" LAMI (3/16"A, .090, 3/16"HS) F. 13/16" LAMI (1/8"A, AIR SPACE, 7/16" LAMI-W/ 3/16"A, .090, 3/16"HS)

ALL "XX" SIZES UP TO 74" WIDE x 78" HIGH -85.0 55.0

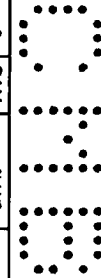
A

- NOTES: A
 1. FOR INSTALLATIONS IN WOOD OR CONCRETE TO THE FULL DESIGN PRESSURES IN THE ABOVE TABLES, USE ELCO 1/4" TAPCONS OR 1/4" SS4 CRETE-FLEX ANCHORS.
 2. IF INSTALLING WITH #12 SCREWS, DESIGN PRESSURE IS LIMITED TO 69.8 P.S.F.

PRODUCT REVISION
 as complying with the Florida
 Building Code
 Acceptance No. 11-1112-18
 Registered Date 11/22/2013
 Miami Dade Product Control



PGT 1070 TECHNOLOGY DRIVE NORCROSS, GA 30270 P.O. BOX 1829 NORCROSS, GA 30274	PRESURE-XX CONFIG. WINDOWS ALUMINUM CASEMENT WINDOW, IMPACT Verify Better	NTS 8 13 7045-8 E
---	---	-------------------------------



COMPARATIVE ANALYSIS TABLE 11.

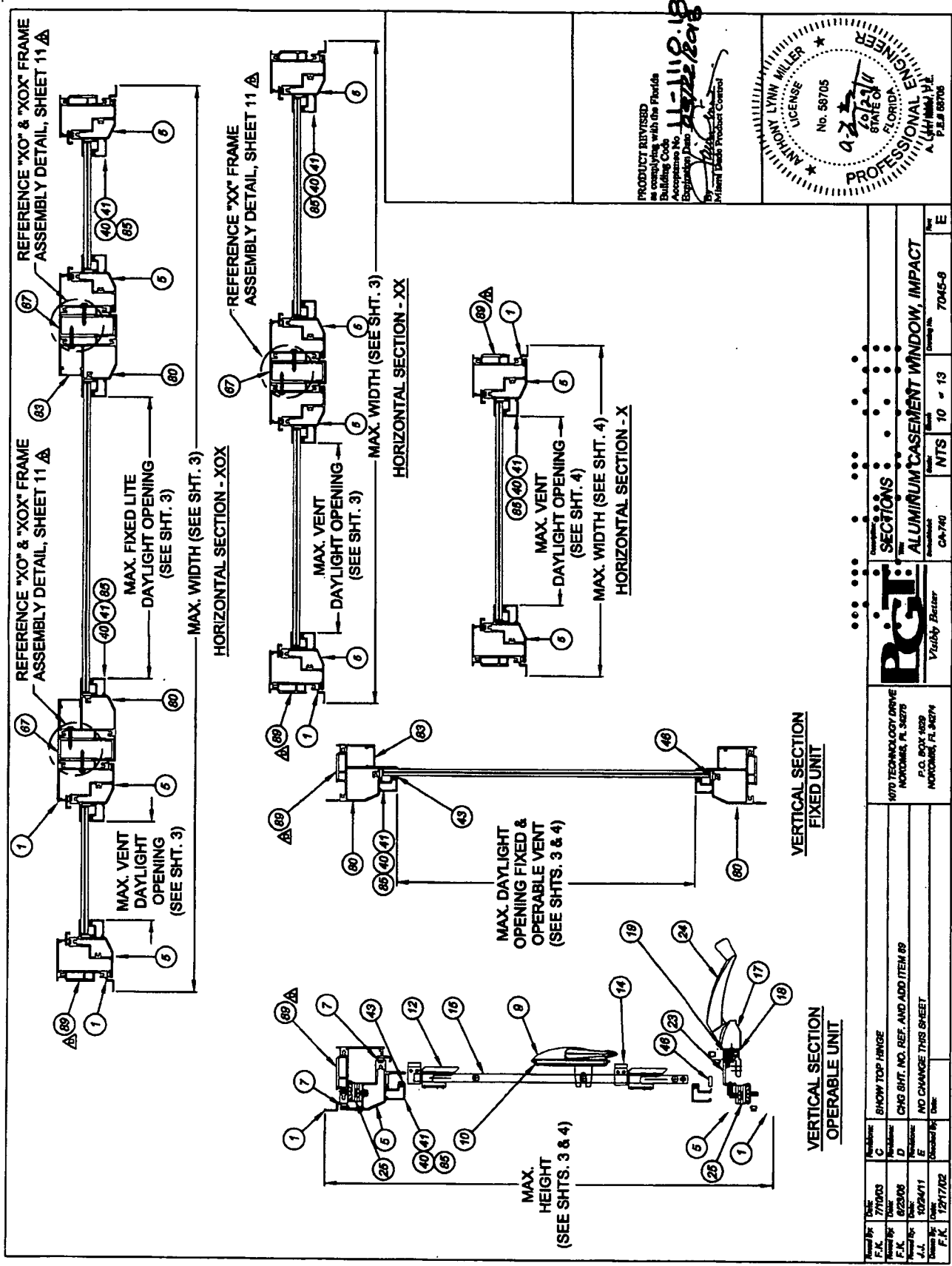
	x
	o
	x

complying with the Florida

Building Code
Acceptance No.
Application Date
[Signature]
ami Dade Product Control

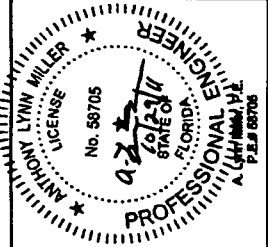
ANTHONY LYNN MILLER
LICENSE

NOTES: 1. FOR INSTALLATIONS IN WOOD OR CONCRETE TO THE FULL DESIGN PRESSURES IN THE ABOVE TABLES, USE ELCO 1/4" TAPCONS OR 1/4" SS4 CRETE-FLEX ANCHORS.



PRODUCT REVISED
in accordance with the Florida
Building Code
Acceptance No.
Expiration Date
By
Aluminum Trade Product Control

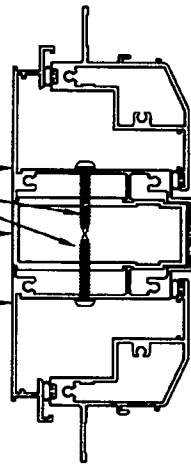
11-11-02



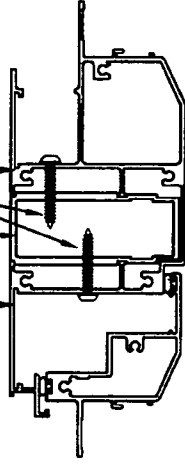
1070 TECHNOLOGY DRIVE NORCOM, FL 32670 P.O. BOX 8829 NORCOM, FL 32674		NTS 10 - 13		Drawing No. 7045-8
1070 TECHNOLOGY DRIVE NORCOM, FL 32670 P.O. BOX 8829 NORCOM, FL 32674		NTS 10 - 13		Drawing No. 7045-8
1070 TECHNOLOGY DRIVE NORCOM, FL 32670 P.O. BOX 8829 NORCOM, FL 32674		NTS 10 - 13		Drawing No. 7045-8

340

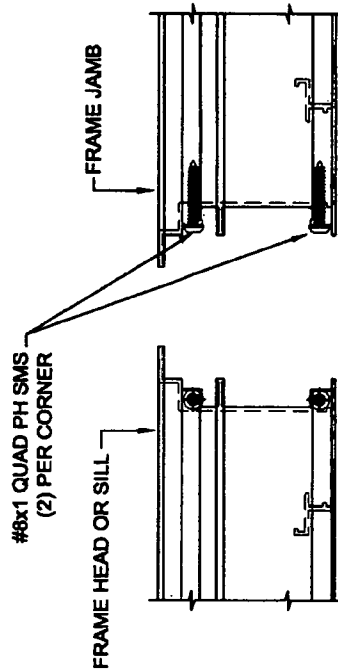
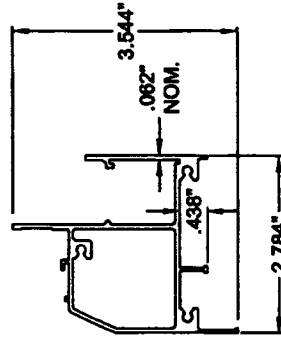
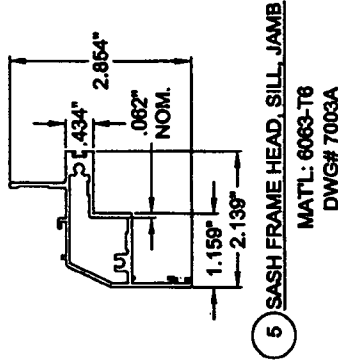
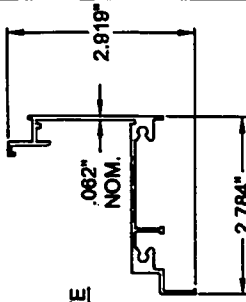
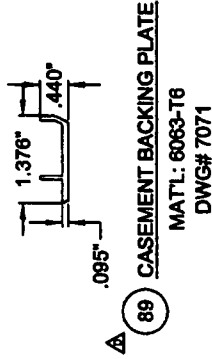
FRAME ASSEMBLY
TUBE, MAT'L: 6063-T6



#12x1 PH TEK SMS
13" MAX. O.C. W/ (2) SCREWS
3" APART AT MID-SPAN
"X" FRAME JAMB
"O" FRAME JAMB



NOTE: ALL ALUMINUM SHALL BE OF 6063-T6



MAIN FRAME ASSEMBLY DETAIL

PCT Division of **QUEST** INCORPORATED

Questions? **EXTRUSIONS & ASSEMBLY DETAILS**
The **ALUMINUM CASEMENT WINDOW, IMPACT**

11070 TECHNOLOGY DRIVE
NORCOMB, FL 34278

P.O. BOX 1539
NORCOMB, FL 34274

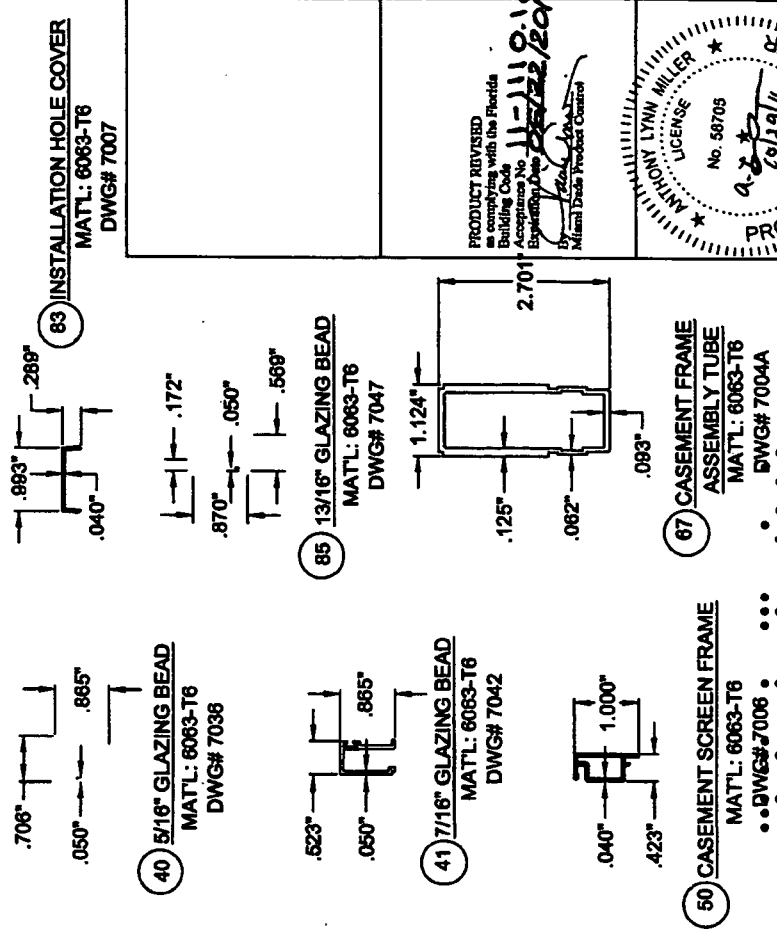
EXTRUSIONS & ASSEMBLY DETAILS ALUMINUM CASEMENT WINDOW, IMPACT	
Project: CA-740 Drawing No.: 7046-B	Date: E

Revised By:	Date:	Revised By:	Date:	Revised By:	Date:	Revised By:	Date:
F.F.K.	7/10/03	F.F.K.	6/23/06	F.F.K.	10/24/11	F.F.K.	
C		D		E			
NO CHANGE THIS SHEET		ADD ITEM 89		NO CHANGE THIS SHEET			

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **11-0117-11**
Expiration Date **11/08/11**
By *[Signature]*
Miami Dade Product Control

PARTS LIST			PARTS LIST CONT.		
ITEM	DWG #	PQT. #	DESCRIPTION	ITEM	DWG #
1	7002A		MAIN FRAM. - HEAD, SILL & JAMBS	73	7025
2	7155	781PQA	#8 X 1 QUAD PH SMS	74	7016
3	7008		FRAM. CORNER KEY	75	70834A
4			1/2" X 1/2" X 1/8" CLOSED-CELL FOAM TAPE	80	7005A
5	7003A		SASH - TOP, BOTTOM & SIDE RAILS	81	1155
6	7155	781PQA	#8 X 1 QUAD PH SMS	82	7010
7	7017	67017K	BULB WEATHERSTRIP - 187X-240	83	7007
8	7009		SASH CORNER KEY	85	7047
9	7024		MAXIM MULTI-POINT LOCK	86	
10	7026		LOCK SUPPORT PLATE	87	
11			#10-24 X .562 PH. PN. TYPE F	88	
12	7014		MULTI-LOCK KEEPER (R.H. & L.H.)	89	67071
13	1157	70X70P7SMS	TIE BAR GUIDE		
14	7013		TIE BAR ASSEMBLY		
15	7015		MAXIM DYAD OPERATOR		
16	7028		MAXIM DUAL ARM OPERATOR		
17	7027		OPERATOR GASKET		
18	7030		BACKING PLATE		
19	7031		#4-32 X .375 PH. PN. TYPE B		
20			STUD BRACKET (L.H. & R.H.)		
21	7032	78382A	#8 X 5/8" FLT. PH. SMS		
22			OPERATOR TRACK & SLIDER (DUAL ARM)		
23	7033		SNAP-ON HANDLE		
24	7022		12" HINGE (HEAVY DUTY)		
25	7023		#10 X .500 PH. FLT.		
26	710412PP		5/16" LAMINATED (1/8" & 1/8"HS GLASS)		
30			.090 INTERLAYER - SOLUTIA OR DUPONT PVB		
31			5/16" LAMINATED (1/8"HS & 1/8"HS GLASS)		
			.090 INTERLAYER - SOLUTIA OR DUPONT PVB		
32			7/16" LAMINATED (3/16" & 3/16"HS GLASS)		
			.090 INTERLAYER - SOLUTIA OR DUPONT PVB		
33			7/16" LAMINATED (3/16"HS & 3/16"HS GLASS)		
			.090 INTERLAYER - SOLUTIA OR DUPONT PVB		
40	7036		GLAZING BEAD (5/16")		
41	7042		VINYL BULB WSTP (THICK)		
43	1224	61P247	SILICONE - DOW CORNING 899, 995 OR EQUIV.		
44			PARABOND		
45			SETTING BLOCK		
46	1634	6163K	SCREEN FRAM. B		
50	7006		SCREEN CORNER KEY		
51	7040		SCREEN CLOTH		
52			SCREEN SPLINE - SERRATED		
53	1635	61635K	#8 X .500 SQ. PN. TEK SMS		
54	331	60976	CASEMENT FRAME ASSY. TUBE		
55	78X12PSTW/B	7004A	#12 X 1" PH. PHIL. THK.		
67			LOCK SUPPORT PLATE		
68	712X1PPT		LOCK SPACER		
69	7011		SNAP-ON T-HANDLE KNOB		
70	7012		FOLDING HANDLE		
71	7019				
72	7018				

PARTS LIST CONT.		
ITEM	DWG #	PQT. #
73	7025	
74	7016	
75	70834A	
80	7005A	
81	1155	
82	7010	
83	7007	
85	7047	
86		
87		
88		
89	67071	



PRODUCT REVISED
 Approved by the Florida
 Building Code
 Acceptance No. 11-1119-18
 Expiration Date 05/22/2018
 Miami Trade Product Control

ANTHONY LYNN MILLER
 LICENSE
 No. 58705
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 A.L.M.M.P.E.
 P.E.# 68706

PGT PARTS LIST & EXTRUSIONS

1070 TECHNOLOGY DRIVE
 MORGAN, FL 34705
 P.O. BOX 1529
 MORGAN, FL 34774

NO CHANGE THIS SHEET
 ADD EQUIV. TO ITEM 44, SILICONE AND ADD ITEMS 87, 88 AND 89
 NO CHANGE THIS SHEET

12/17/02

Business & Professional Regulation

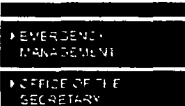


BCIS Home | Log In | User Registration | Hot Topics | Submit Surcharge | Stats & Facts | Publications | FBC Staff | BCIS Site Map | Links | Search |



Product Approval
USER: Public User

Product Approval Menu > Product or Application Search > Application List > Application Detail



FL # FL14610
Application Type New
Code Version 2007
Application Status Approved
*Approved by DCA. Approvals by DCA shall be reviewed and ratified by the POC and/or the Commission if necessary.

Comments
Archived ☐

Product Manufacturer Eastern Architectural Systems
Address/Phone/Email 10030 Bavaria Road
Ft. Myers, FL 33913
(800) 281-6564
fbc@buildingdrops.com

Authorized Signature AJ Giacalone
fbc@buildingdrops.com

Technical Representative
Address/Phone/Email

Quality Assurance Representative
Address/Phone/Email

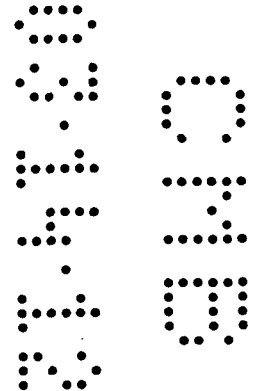
Category Windows
Subcategory Horizontal Slider

Compliance Method Certification Mark or Listing

Certification Agency National Accreditation & Management Institute,
Validated By National Accreditation & Management Institute,

Referenced Standard and Year (of Standard)	Standard	Year
	AAMA/WDMA/CSA 101/I.S.2/A440	2005
	ANSI/AAMA/NWWDA 101/I.S.2	1997
	ASTM E1886	2005
	ASTM E1996	2005
	TAS 201	1994
	TAS 202	1994
	TAS 202	1994

Equivalence of Product Standards
Certified By



Product Approval Method

Method 1 Option A

Date Submitted

05/31/2011

Date Validated

08/18/2011

Date Pending FBC Approval

Date Approved

08/25/2011

Summary of Products

FL #	Model, Number or Name	Description
14610.1	Series "1000" Aluminum	Horizontal Sliding Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +35/-35 Other: Configuration: XOX Max. Frame Size: W-112" H-63" Max. Vent Size: W-28" H-60.25" Glazing: Fixed Lite: 1/8" Tempered Glass Vent Lite: 3/16" Annealed Glass		Certification Agency Certificate ~~FL14610 R0 C CAC NI009471.01.PDF~~ Quality Assurance Contract Expiration Date ~~04/30/2014~~ Installation Instructions ~~FL14610 R0 II EAS004 R1 SIGNED AND CERT.pdf~~ ~~Verified By: Alexis Spyrou, P.E. Florida P.E. 68101~~ ~~Created by Independent Third Party: Yes~~ Evaluation Reports ~~FL14610 R0 AE PER 1319 SIGNED AND CERT.pdf~~ ~~Created by Independent Third Party: Yes~~
14610.2	Series "1000" Aluminum	Horizontal Sliding Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Configuration: XO Glazing: 3/16" Monolithic Annealed Glass Refer to drawing EAS002 for Max. Frame and Vent Sizes and Design Pressure Ratings		Certification Agency Certificate ~~FL14610 R0 C CAC NI006178.01.PDF~~ ~~FL14610 R0 C CAC NI006178.02.PDF~~ Quality Assurance Contract Expiration Date ~~06/30/2015~~ Installation Instructions ~~FL14610 R0 II EAS002 R1 SIGNED AND CERT.pdf~~ ~~Verified By: Alexis Spyrou, P.E. Florida P.E. 68101~~ ~~Created by Independent Third Party: Yes~~ Evaluation Reports ~~FL14610 R0 AE PER 1317 SIGNED AND CERT.pdf~~ ~~Created by Independent Third Party: Yes~~
14610.3	Series "FWI 1000" Aluminum Impact Rated	Horizontal Sliding Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +80/-80 Other: Configuration: OX Max. Frame Size: W-72" H-60" Max. Sash Size: W-36" H-57" Glazing: Laminated 3/16" Heat Strengthened Glass/0.090" Saflex/Keepsake Maximum/ 3/16" Heat Strengthened Glass, Interlayer Approved under NOA 09-0127.13		Certification Agency Certificate ~~FL14610 R0 C CAC 09-0127.13.pdf~~ ~~FL14610 R0 C CAC NI006149.01.pdf~~ Quality Assurance Contract Expiration Date ~~12/31/2014~~ Installation Instructions ~~FL14610 R0 II EAS001.pdf~~ ~~Verified By: Alexis Spyrou, P.E. Florida P.E. 68101~~ ~~Created by Independent Third Party: Yes~~ Evaluation Reports ~~FL14610 R0 AE PER 1316.pdf~~ ~~Created by Independent Third Party: Yes~~
14610.4	Series "FWI 1000" Aluminum Impact Rated	Horizontal Sliding Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +100/-120 Other: Glazing: Laminated 3/16" Heat Strengthened Glass/0.100" PVB Interlayer by Solutia/ 3/16" Heat Strengthened Glass Refer to drawing EAS003 for Max. Frame & Panel Sizes, Interlayer Approved under NOA 09-0127.13		Certification Agency Certificate ~~FL14610 R0 C CAC 09-0127.13.pdf~~ ~~FL14610 R0 C CAC NI010658.01.PDF~~ ~~FL14610 R0 C CAC NI010658.PDF~~ Quality Assurance Contract Expiration Date ~~02/28/2015~~ Installation Instructions ~~FL14610 R0 II EAS003.pdf~~ ~~Verified By: Alexis Spyrou, P.E. Florida P.E. 68101~~ ~~Created by Independent Third Party: Yes~~ Evaluation Reports ~~FL14610 R0 AE PER 1318.pdf~~ ~~Created by Independent Third Party: Yes~~
14610.5	Series 3241 Vinyl	Horizontal Sliding Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50/-50		Certification Agency Certificate ~~FL14610 R0 C CAC NI010634.01.PDF~~ Quality Assurance Contract Expiration Date ~~03/31/2014~~ Installation Instructions

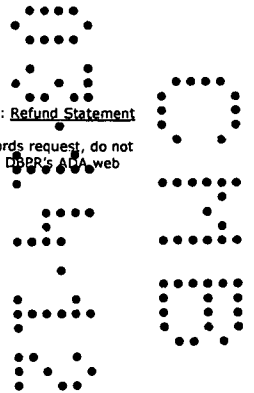
Other: Configuration: XO Max. Frame Size: W-71.5" H-59.5" Glazing: 3/4" O.A. I.G.-1/8" Annealed Glass		~~FL14610_R0_II_EAS045 SIGNED AND CERT.pdf~~ Verified By: Alexis Spyrou, P.E. Florida P.E. 68101 Created by Independent Third Party: Yes Evaluation Reports ~~FL14610_R0_AE_PER_1406.pdf~~ Created by Independent Third Party: Yes
14610.6	Series 4241 Vinyl Impact Rated	Horizontal Sliding Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +50/-50 Other: Configuration: XO Max. Frame Size: W-71.5" H-59.5" Glazing: 3/4" O.A. I.G.-1/8" Annealed Glass/Laminate-1/8" Annealed Glass/0.090" PVB by Solutia/1/8" Annealed Glass		Certification Agency Certificate ~~FL14610_R0_C_CAC_NI010634.02.PDF~~ ~~FL14610_R0_C_CAC_NI010634.PDF~~ Quality Assurance Contract Expiration Date 03/31/2014 Installation Instructions ~~FL14610_R0_II_EAS046.pdf~~ Verified By: Alexis Spyrou, P.E. Florida P.E. 68101 Created by Independent Third Party: Yes Evaluation Reports ~~FL14610_R0_AE_PER_1407.pdf~~ Created by Independent Third Party: Yes

Contact Us :: [1940 North Monroe Street, Tallahassee, FL 32399](#)

The State of Florida is an AA/EEO employer. [Copyright 2007-2010 State of Florida](#). :: [Privacy Statement](#) :: [Accessibility Statement](#) :: [Refund Statement](#)

Under Florida law, e-mail addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions regarding DBPR's ADA web accessibility, please contact our Web Master at webmaster@dbpr.state.fl.us.

Product Approval Accepts:



A 3x3 grid of dots forming the number 202. The top row has 4 dots, the middle row has 5 dots, and the bottom row has 4 dots.

 Eastern ARCHITECTURAL SYSTEMS	EASTERN ARCHITECTURAL SYSTEMS 10000 MAYHEW ROAD FT. MYERS, FL. 33913 PH (802) 432-1204 FX (202) 346-5113	
	PREPARED BY: CERTWORKS, LLC 127 W. FAIRBANKS AVE. STE. 438 WINTER PARK, FL 32789 PH (407) 944-5957 FX (407) 444-2444	
TITLE: SERIES FW1 1000 HR INSTALLATION & GENERAL NOTES	NO. _____ DESCRIPTION _____ BY _____ DATE _____	REVISIONS

DATE: 4.04.11
 DOWN BY: JLA
 CHK BY: HFN
 SCALE: NTS

DWG # **EAS003**
 SHEET: 1 OF 5

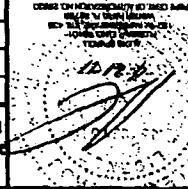


EASTERN ARCHITECTURAL SYSTEMS
127 W. FAIRBANKS AVE., STE. 43B
WINTER PARK, FL 32789
TEL: (407) 644-4957 FAX: (407) 644-4366

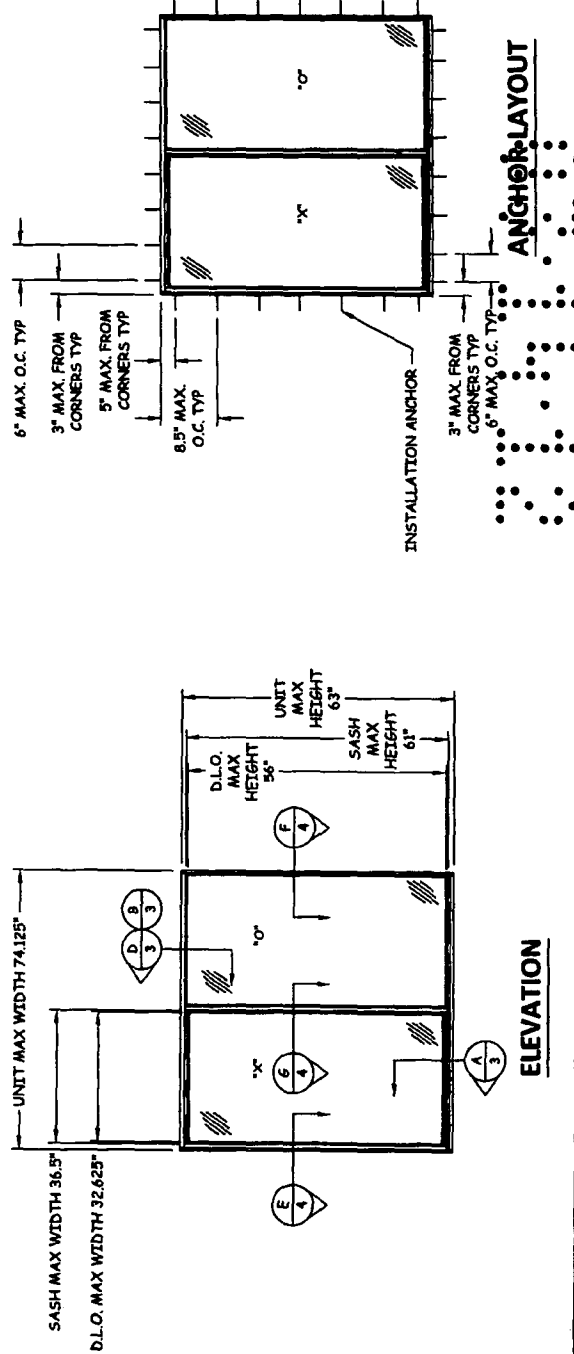
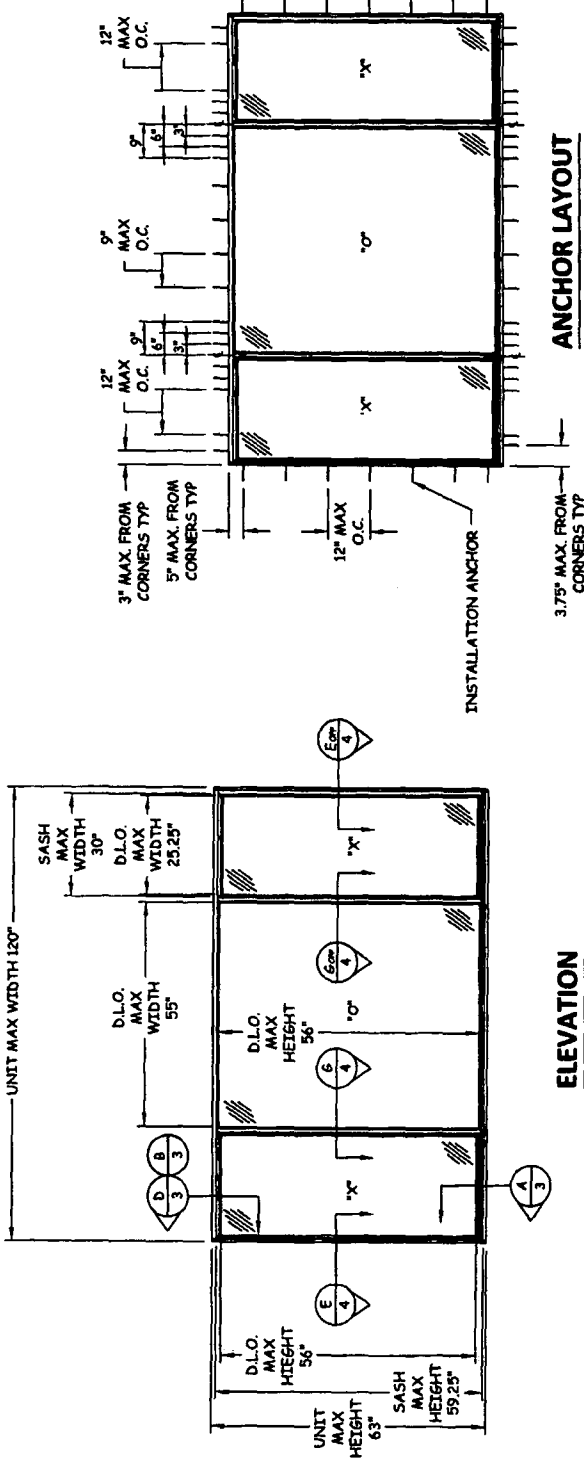
PREPARED BY: CERTWORKS, LLC
127 W. FAIRBANKS AVE., STE. 43B
WINTER PARK, FL 32789
TEL: (407) 644-4957 FAX: (407) 644-4366

NO.	DESCRIPTION	BY	DATE

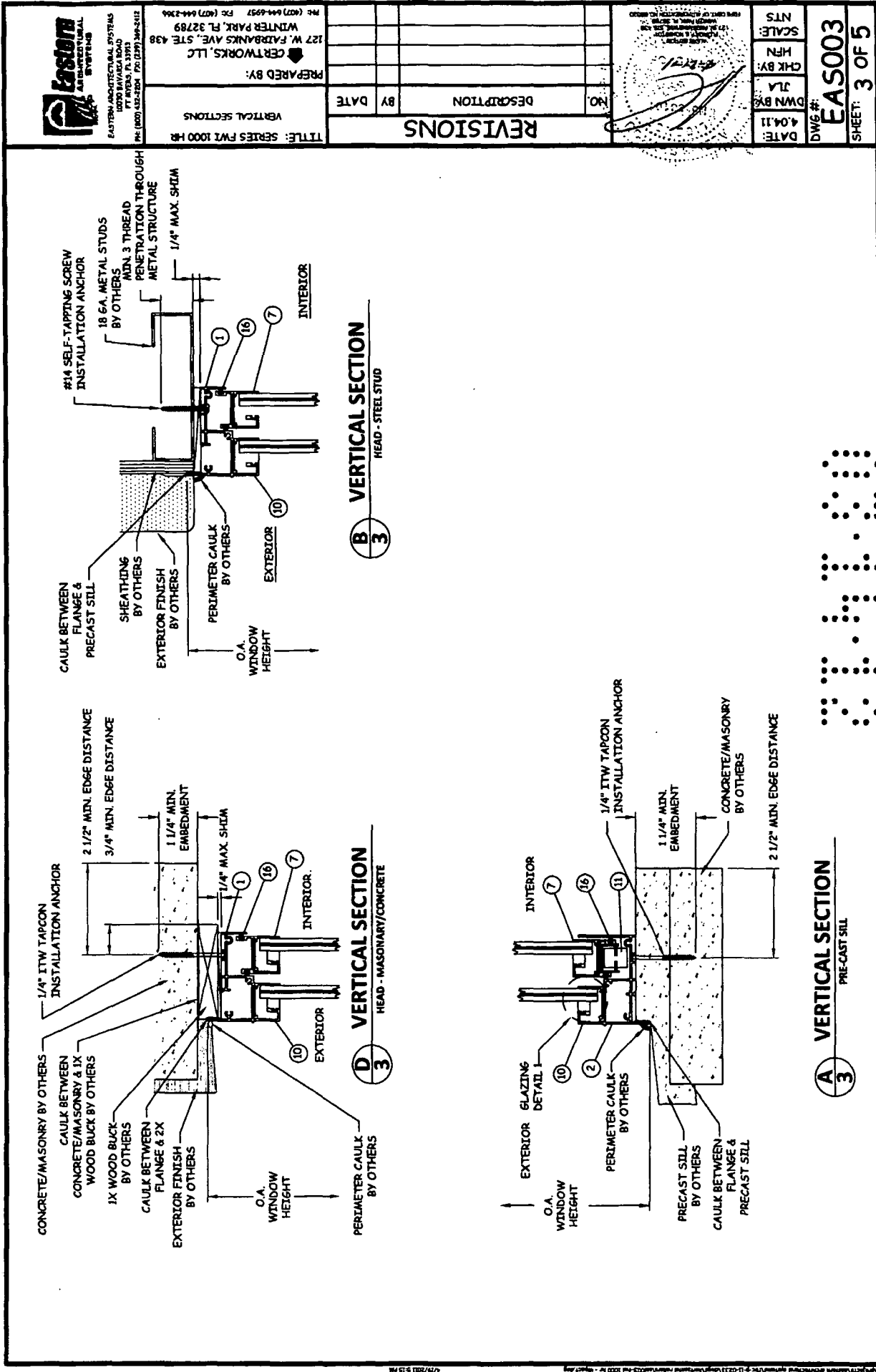
REVISIONS



DATE	4.04.19
DWG #	EAS003
SHEET	2 OF 5
SCALE	1/4" = 1'-0"
CHK BY	JLA
NTS	



340



EAS003		SHEET: 3 OF 5	
DWG #:	EAS003	DATE:	4.04.11
SCALE:	NTS	CHK BY:	JLA
DATE:	4.04.11	DOWN BY:	JLA
REVISIONS			
NO.	DESCRIPTION	BY	DATE
1	TITLE: SERIES FW/ 1000 HR		
2	VERTICAL SECTIONS		
3	PREPARED BY:		
4	CERTWORKS, LLC		
5	127 W. FAIRBANKS AVE., STE. 438		
6	WINTER PARK, FL 32789		
7	PH: (407) 644-6957		
8	FX: (407) 644-2366		
9	FX: (407) 644-2366		
10	FX: (407) 644-2366		
11	FX: (407) 644-2366		
12	FX: (407) 644-2366		
13	FX: (407) 644-2366		
14	FX: (407) 644-2366		
15	FX: (407) 644-2366		
16	FX: (407) 644-2366		
17	FX: (407) 644-2366		
18	FX: (407) 644-2366		
19	FX: (407) 644-2366		
20	FX: (407) 644-2366		
21	FX: (407) 644-2366		
22	FX: (407) 644-2366		
23	FX: (407) 644-2366		
24	FX: (407) 644-2366		
25	FX: (407) 644-2366		
26	FX: (407) 644-2366		
27	FX: (407) 644-2366		
28	FX: (407) 644-2366		
29	FX: (407) 644-2366		
30	FX: (407) 644-2366		
31	FX: (407) 644-2366		
32	FX: (407) 644-2366		
33	FX: (407) 644-2366		
34	FX: (407) 644-2366		
35	FX: (407) 644-2366		
36	FX: (407) 644-2366		
37	FX: (407) 644-2366		
38	FX: (407) 644-2366		
39	FX: (407) 644-2366		
40	FX: (407) 644-2366		
41	FX: (407) 644-2366		
42	FX: (407) 644-2366		
43	FX: (407) 644-2366		
44	FX: (407) 644-2366		
45	FX: (407) 644-2366		
46	FX: (407) 644-2366		
47	FX: (407) 644-2366		
48	FX: (407) 644-2366		
49	FX: (407) 644-2366		
50	FX: (407) 644-2366		
51	FX: (407) 644-2366		
52	FX: (407) 644-2366		
53	FX: (407) 644-2366		
54	FX: (407) 644-2366		
55	FX: (407) 644-2366		
56	FX: (407) 644-2366		
57	FX: (407) 644-2366		
58	FX: (407) 644-2366		
59	FX: (407) 644-2366		
60	FX: (407) 644-2366		
61	FX: (407) 644-2366		
62	FX: (407) 644-2366		
63	FX: (407) 644-2366		
64	FX: (407) 644-2366		
65	FX: (407) 644-2366		
66	FX: (407) 644-2366		
67	FX: (407) 644-2366		
68	FX: (407) 644-2366		
69	FX: (407) 644-2366		
70	FX: (407) 644-2366		
71	FX: (407) 644-2366		
72	FX: (407) 644-2366		
73	FX: (407) 644-2366		
74	FX: (407) 644-2366		
75	FX: (407) 644-2366		
76	FX: (407) 644-2366		
77	FX: (407) 644-2366		
78	FX: (407) 644-2366		
79	FX: (407) 644-2366		
80	FX: (407) 644-2366		
81	FX: (407) 644-2366		
82	FX: (407) 644-2366		
83	FX: (407) 644-2366		
84	FX: (407) 644-2366		
85	FX: (407) 644-2366		
86	FX: (407) 644-2366		
87	FX: (407) 644-2366		
88	FX: (407) 644-2366		
89	FX: (407) 644-2366		
90	FX: (407) 644-2366		
91	FX: (407) 644-2366		
92	FX: (407) 644-2366		
93	FX: (407) 644-2366		
94	FX: (407) 644-2366		
95	FX: (407) 644-2366		
96	FX: (407) 644-2366		
97	FX: (407) 644-2366		
98	FX: (407) 644-2366		
99	FX: (407) 644-2366		
100	FX: (407) 644-2366		

Eastern Architectural Systems
EASTERN ARCHITECTURAL SYSTEMS
10000 BAYVIEW ROAD
WINTER PARK, FL 32789
PH: (407) 644-2366 FX: (407) 644-2366
FX: (407) 644-2366



EASTERN ARCHITECTURAL SYSTEMS
127 W. FAIRBANKS AVE., STE. 438
WINTER PARK, FL 32789
PH: (800) 432-2504 FAX: (321) 342-2412

TITLE: SERIES FW1 1000 HR
COMPONENTS &
BILL OF MATERIALS
PREPARED BY:
CENTWORKS, LLC
127 W. FAIRBANKS AVE., STE. 438
WINTER PARK, FL 32789
PH: (407) 644-6957 FAX: (407) 644-2346

REVISIONS	
NO.	DESCRIPTION
BY	DATE

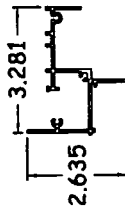


DATE: 4.04.11	DWN BY: JLA	CHK BY: HFN	SCALE: NTS
DWG #: EAS003			
SHEET: 5 OF 5			

BILL OF MATERIALS

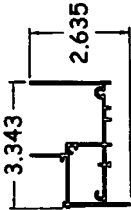
ITEM NO.	DESCRIPTION	MATERIAL	MANUFACTURER
1	FRAME HEAD	6063-T6	EAS, INC
2	FRAME SILL	6063-T6	EAS, INC
3	FIXED FRAME JAMB	6063-T6	EAS, INC
4	FRAME LOCK JAMB	6063-T6	EAS, INC
5	FIXED RAIL	6063-T6	EAS, INC
6	APPLIED FIN	6063-T6	EAS, INC
7	VENT HEAD/STILE	6063-T6	EAS, INC
8	VENT JAMB STILE	6063-T6	EAS, INC
9	MEETING RAIL	6063-T6	EAS, INC
10	GLAZING BEAD	6063-T6	EAS, INC
11	ROLLER ASSEMBLY		
12	WEEP COVERS		
13	FRAME JAMB BULB VINYL		
14	VENT STILE BULB VINYL		
15	MEETING RAIL WOOL FILL		
16	VENT HEAD/STILE WOOL FILL		
17	VENT HEAD/STILE WOOL FILL		
18	FOAM PADS		
19	SASH LOCK	6063-T6	EAS, INC

1 FRAME HEAD
0.062" TYP WALL THICKNESS

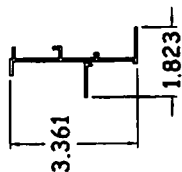


2

FRAME SILL
0.062" TYP WALL THICKNESS

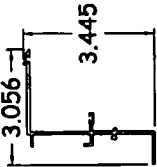


3 FIXED FRAME JAMB
0.062" TYP WALL THICKNESS

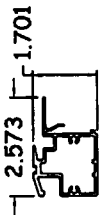


4

FRAME LOCK JAMB
0.062" TYP WALL THICKNESS

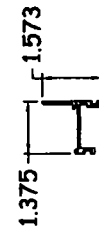


5 FIXED RAIL
0.062" TYP WALL THICKNESS



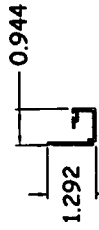
7

VENT STILE
0.062" TYP WALL THICKNESS

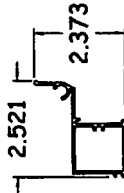


10

GLAZING BEAD
0.062" TYP WALL THICKNESS

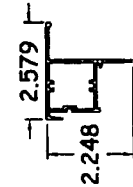


8 VENT JAMB STILE
0.062" TYP WALL THICKNESS



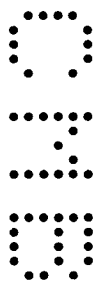
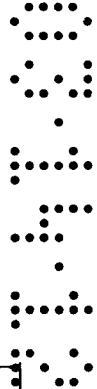
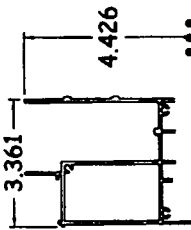
9

VENT MEETING RAIL
0.062" TYP WALL THICKNESS



2

HI RISE FRAME SILL
0.062" TYP WALL THICKNESS





CertWorks ... it works

FBPE Certificate of Authorization No. 28520

127 W. Fairbanks Ave.
Suite 438
Winter Park, FL 32789
407.644.6957 PH
407.644.2366 FX
info@certwrks.com

Product Evaluation Report
of
Eastern Architectural Systems, Inc.

Series FWI 1000
Horizontal Roller Window
(Impact)
for
Florida Product Approval
FL#

Report No. 1318

Florida Building Code
Per Rule 9N-3

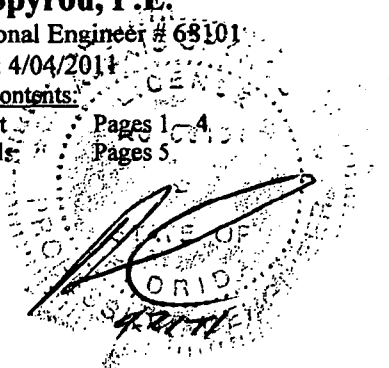
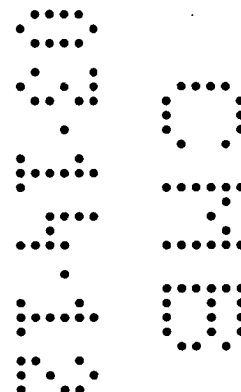
Method: 1 – A (Certification)
Category: Windows
Sub – Category: Horizontal Slider

Product: Series FWI 1000 Horizontal Roller
Material: Aluminum 6063-T6
Product Dimensions: 74.125" x 63"
120" x 63"

Prepared For:
Eastern Architectural Systems
10030 Bavaria Road
Ft Myers, FL 33913

Prepared by:
Alexis Spyrou, P.E.
Florida Professional Engineer # 68101
Date: 4/04/2011

Contents:
Evaluation Report: Pages 1 – 4
Installation Details: Pages 5



Alexis Spyrou, P.E.
Florida No. 68101



CertWorks *... it works*

FBPE Certificate of Authorization No. 28520

FL#:
Date: 4/04/2011
Report No: 1318

Manufacturer: Eastern Architectural Systems, Inc.

Product Category: Windows

Product Sub-Category: Horizontal Slider

Compliance Method: State Product Approval Rule 9N-3.005 (1)(a)

Product Name: Series FWI 1000 Horizontal Roller Window (Impact)

Scope: This is a Product Evaluation Report issued by Alexis Spyrou, P.E. (FL # 68101) for Eastern Architectural Systems, Inc. based on Rule Chapter No. 9N-3.005, Method 1a of the State of Florida Product Approval, Department of Community Affairs - Florida Building Commission.

Alexis Spyrou, P.E. does 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 current Florida Building Code as per standards listed on page three of this document.

See Installation Instructions **EAS003**, signed and sealed by Alexis Spyrou, P.E. (FL # 68101) for specific use parameters.

Limits of Use:

1. This product has been evaluated and is in compliance with the current Florida Building Code, including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment into substrate material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product complies with Section 1609.1.2 of the current Florida Building Code and does not require an impact resistant covering.
4. Site conditions that deviate from the details of drawing **EAS003**, require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **EAS003**, for size and design pressure limitations.

Alexis Spyrou, P.E.
Florida No. 68101
Page 2 of 5



Quality Assurance:

The manufacturer has demonstrated compliance of window products in Accordance with the Florida Building Code and Rule 9N-3.005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity through **National Accreditation & Management Institute** (FBC Organization #: QUA1789).

Performance Standards:

The product described herein has been tested per:

- TAS 201-94
- TAS 202-94
- TAS 203-94

Referenced Data:

1. Product Testing performed by National Certified Testing Laboratories, Inc. (FBC Organization #: TST1589)
Report #: NCTL-210-3751-1
2. Product Testing performed by National Certified Testing Laboratories, Inc. (FBC Organization #: TST1589)
Report #: NCTL-210-3752-1
3. Quality Assurance
National Accreditation & Management Institute
(FBC Organization #: QUA1789)



Installation: 1. Approved anchor types and substrates are as follows:

Through Frame Installation:

- A. For two by (2X) wood frame substrate, use **#14 Wood Screws** type wood frame anchors of sufficient length to achieve minimum embedment of 1.50" into wood framing.
- B. For concrete or masonry substrate where one by (1X), non-structural, wood bucking is employed, use **1/4" diameter ITW Tapcon** type concrete screw anchors of sufficient length to achieve minimum embedment of 1.25" into concrete or masonry.
- C. For concrete or masonry substrate where wood bucking is NOT employed, use **1/4" diameter ITW Tapcon** type concrete screw anchors of sufficient length to achieve minimum embedment of 1.25" into concrete or masonry.
- D. For steel stud substrate, use **#14 self-tapping screw** anchors of sufficient length to achieve three (3) threads minimum penetration beyond the metal structure.

Refer to Installation Instructions (**EAS003**) for anchor spacing and more details of the installation requirements.

Design Pressure:

Design Pressure	
Size	DP
74.125" x 63"	+100/- 120 PSF
120" x 63"	+100/- 120 PSF



CertWorks ... it works

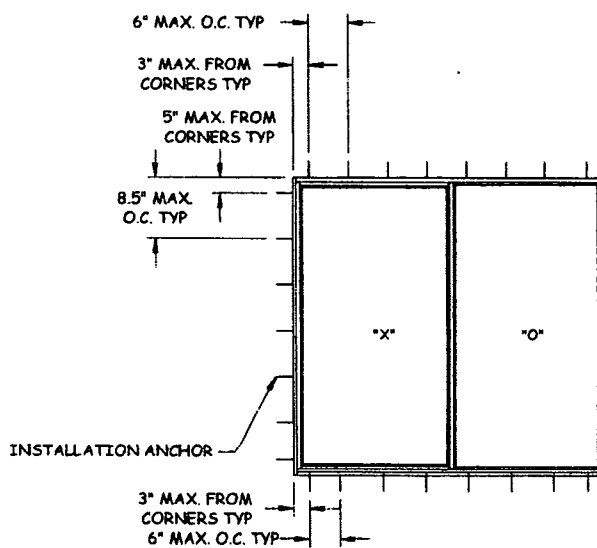
FBPE Certificate of Authorization No. 28520

FL#:
Date: 4/04/2011
Report No: 1318

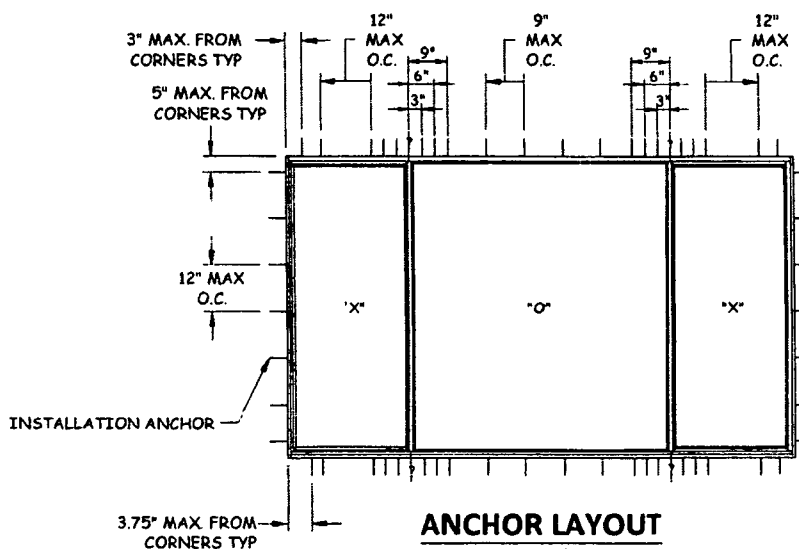
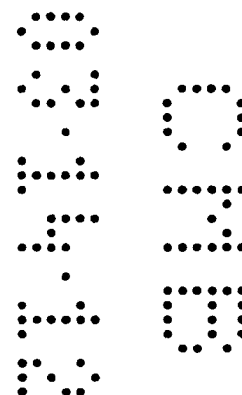
Installation Method

Eastern Architectural Systems, Inc.

Series FWI 1000 Horizontal Roller Window



ANCHOR LAYOUT



**ANCHOR LAYOUT
FLANGE**



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 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 "PW-701" Aluminum Fixed Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. 4259-4 titled "Aluminum Picture Window, Impact", sheets 1 through 8 of 8, prepared by manufacturer, dated 07/14/03 with revision "D" dated 10/18/11, 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 No. 10-0504.05 and consists of this page 1, 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
1/25/12

NOA No. 11-1110.15
Expiration Date: February 19, 2014
Approval Date: February 02, 2012
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under previous NOA No. 03-1105.01)
2. Drawing No. 4259-4 titled "Aluminum Picture Window, Impact", sheets 1 through 8 of 8, prepared by manufacturer, dated 07/14/03 with revision "D" dated 10/18/11, 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 203-94along 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, dated 08/19/10, complying with FBC-2007, prepared by manufacture, signed and sealed by Anthony L. Miller, P. E.
(Submitted under previous NOA No. 10-0504.05)
2. Glazing complies with ASTM E1300-02/ 04

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 11-0325.05 issued to Solutia, Inc. for their "Saflex - Clear or colored Interlayer" dated 04/21/11, expiring on 04/21/16.
2. 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.

F. STATEMENTS

1. Statement letter of conformance and compliance with the FBC-2007 (with the 2009 supplement) and FBC-2010, dated 10/29/11, signed and sealed by Anthony Lynn Miller, P. E.
2. Statement letter of no financial interest and independence, dated 10/29/11, signed and sealed by Anthony Lynn Miller, P. E.



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 11-1110.15
Expiration Date: February 19, 2014
Approval Date: February 02, 2012

PGT Industries

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

3. Letter of *Adoption of as his Own, the Work of another Engineer* per Section 61G15-27.001 of the F.B.P.E., dated 08/19/10 signed and sealed by Anthony Lynn Miller, P. E.
(Submitted under previous NOA No. 10-0504.08)
4. Statement letter of conformance and compliance with the Florida Building Code, dated 08/19/10 signed and sealed by Anthony Lynn Miller, P. E.
(Submitted under previous NOA No. 10-0504.08)
5. Statement letter of no financial interest and independence, dated 08/19/10 signed and sealed by Anthony Lynn Miller, P. E.
(Submitted under previous NOA No. 10-0504.08)
6. Laboratory compliance letter for Test Reports No.'s FTL-3835 and FTL-3850, issued by Fenestration Testing Laboratory, Inc., dated 07/31/03, signed and sealed by Joseph C. Chan, P. E.
(Submitted under previous NOA No. 03-1105.01)

G. OTHERS

1. Notice of Acceptance No. 10-0504.05, issued to PGT Industries for their Series "PW-701 Aluminum Fixed Window - L.M.I." approved on 09/22/10 and expiring on 02/19/14.



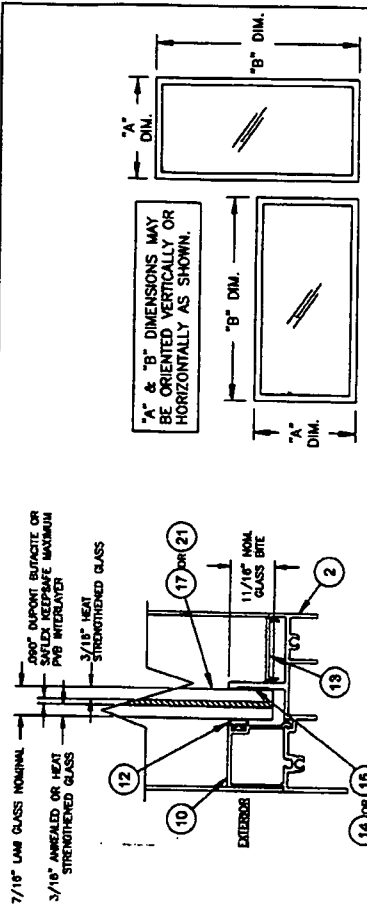
Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 11-1110.15
Expiration Date: February 19, 2014
Approval Date: February 02, 2012

Fin and Flanged Windows	Maximum Design Pressure (+/- psf)												
	7/16 Lami 3/16A - .000 PVB - 3/16S 7/16 Lami No 3/16TP - 7/16 AR - 3/16S - .000 PVB - 3/16S												
	"A" or "B" Dimension (in)												
24	30	36	42	48	54	60	66	72	78	84	90	96	102
36	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
60	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
72	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
84	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
96	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
108	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
120	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
132	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
144	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0

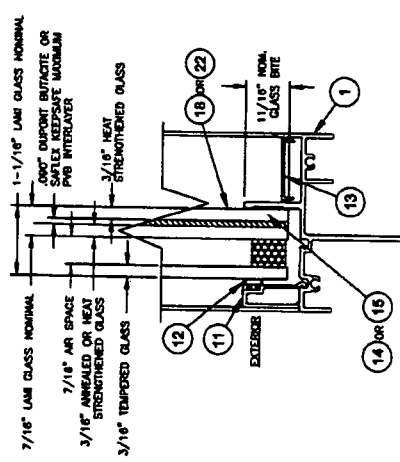
Fin and Flanged Windows	Maximum Design Pressure (+/- psf)												
	7/16 Lami 3/16S - .000 PVB - 3/16S 7/16 Lami No 3/16TP - 7/16 AR - 3/16S - .000 PVB - 3/16S												
	"A" or "B" Dimension (in)												
24	30	36	42	48	54	60	66	72	78	84	90	96	102
36	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
60	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
72	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
84	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
96	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
108	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
120	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
132	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
144	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0

NOTES:

1. ANY ONE SIDE OF THE WINDOW CANNOT BE MORE THAN 145" NOR CAN THE WINDOW AREA EXCEED 32FT².
2. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.
3. FOR ARCHITECTURAL WINDOWS, FIND THE SMALLEST WINDOW SIZE IN THE TABLE ABOVE WHICH THE OVERALL WIDTH AND HEIGHT DIMENSIONS COMPLETELY FIT WITHIN.
4. THE WINDOWS WIDTH AND HEIGHT (DIMENSIONS "A" AND "B") MAY BE REVERSED TO OBTAIN A MORE ACCURATE RESULT FROM THE TABLE (SEE FIGURE, THIS SHEET).

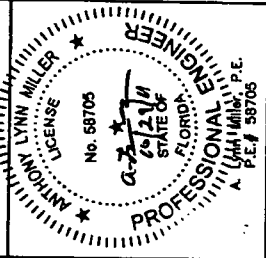


**7/16" LAMI GLAZING DETAIL
FLANGED OR INTEGRAL FIN FRAME
(FLANGE FRAME SHOWN)**



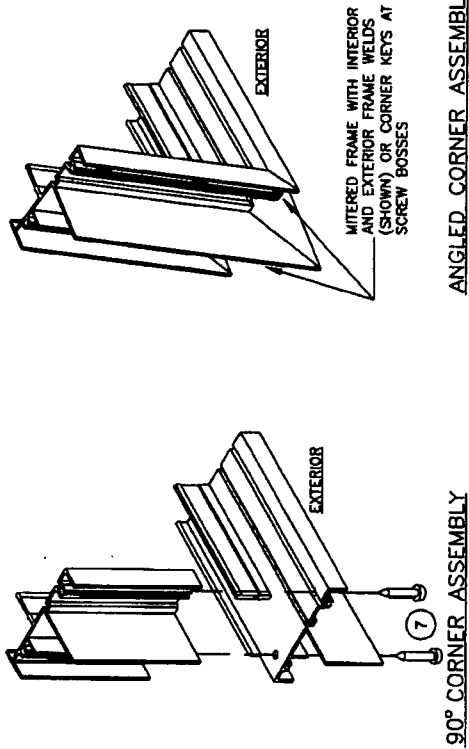
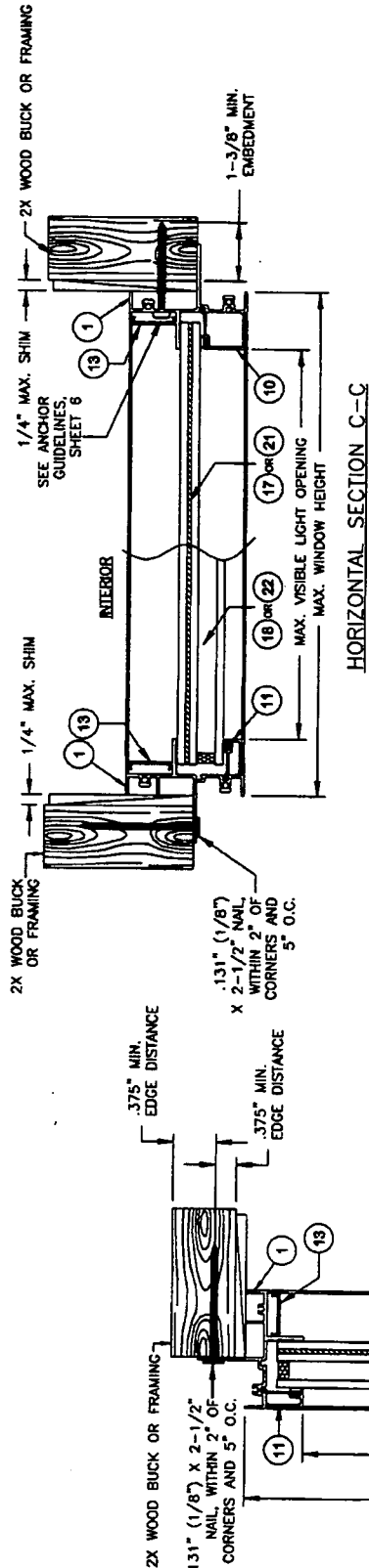
**1-1/16" LAMI I.G. GLAZING DETAIL
FLANGED OR INTEGRAL FIN FRAME
(INTEGRAL FIN FRAME SHOWN)**

PRODUCT REVISED
as complying with the Florida
Building Code
Adopting No.
11-1100-15
By
11-1100-15
Nokom's Trade Product Control



GLAZING DETAILS ALUMINUM PICTURE WINDOW, IMPACT		Date: 11/10/15 Drawn By: 11-1100-15 Checked By: 11-1100-15 Title: 11-1100-15	Project No.: 4288-4 Drawing No.: 4288-4 Sheet: 2 of 8
1070 TECHNOLOGY DRIVE N. VENICE, FL 33572 P.O. BOX 1529 NOKOM'S, FL 34274		Revision: NTS Scale: 2" = 8'	

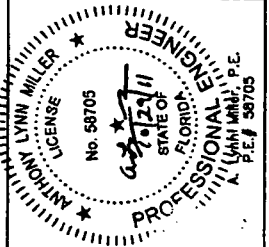
INSTALLATION DETAILS FOR FINNED FRAMES



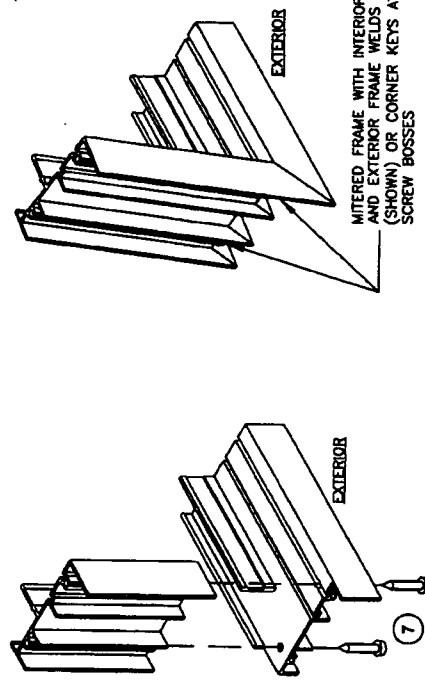
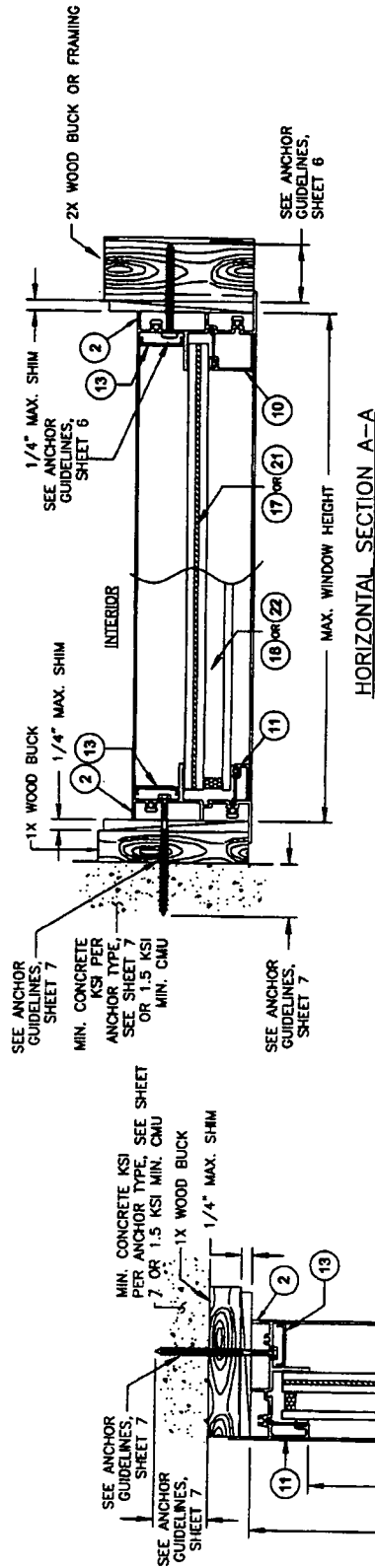
- NOTES**
1. USE ONLY NAILS PER ABOVE, OR ANCHORS LISTED ON SHEET 6. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS.

Drawn By: J.J. 10/18/11 Checked By: J.R. 3/31/10 Revised By: F.J. 7/14/08	NO CHANGE THIS SHEET COMPLETE RETRAV AND REORGANIZATION TO INCLUDE INFORMATION FOR LARGER WINDOWS	1070 TECHNOLOGY DRIVE N. VENICE, FL 34475 P.O. BOX 1528 NOKOMIS, FL 34274	PGI	INSTALLATION FINNED FRAME ALUMINUM PICTURE WINDOW, IMPACT	Scale: 3/8" = 1'-0" Sheet: 4289-4 Rev: D
--	---	--	-------------------	---	---

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-110.5
Expiry Date 07/14/2014
Michael J. Miller Product Designer



INSTALLATION DETAILS FOR FLANGED FRAMES



ANGLED CORNER ASSEMBLY

90° CORNER ASSEMBLY

NOTES

1. USE ONLY ANCHORS LISTED ON SHEETS 6 AND 7. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS.
2. WOOD BUCKS DEPICTED IN THE SECTIONS ON THIS PAGE AS 1X ARE BUCKS WHOSE TOTAL THICKNESS IS LESS THAN 1-1/2". 1X WOOD BUCKS ARE OPTIONAL. IF UNIT CAN BE INSTALLED DIRECTLY TO SOLID CONCRETE, WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY AUTHORITY HAVING JURISDICTION.

1070 TECHNOLOGY DRIVE N. VENICE, FL 33596 P.O. BOX 1529 NOKOMIS, FL 34274	1070 TECHNOLOGY DRIVE N. VENICE, FL 33596 P.O. BOX 1529 NOKOMIS, FL 34274	1070 TECHNOLOGY DRIVE N. VENICE, FL 33596 P.O. BOX 1529 NOKOMIS, FL 34274	1070 TECHNOLOGY DRIVE N. VENICE, FL 33596 P.O. BOX 1529 NOKOMIS, FL 34274
NO CHANGE THIS SHEET	COMPLETE REDRAW AND RECONFIGURATION TO INCLUDE INFORMATION FOR LARGER WINDOWS.	NO CHANGE THIS SHEET	COMPLETE REDRAW AND RECONFIGURATION TO INCLUDE INFORMATION FOR LARGER WINDOWS.
Drawn By: J.J. 10/18/11	Drawn By: J.J. 10/18/11	Drawn By: J.J. 10/18/11	Drawn By: J.J. 10/18/11
Check By: J.J. 10/18/11	Check By: J.J. 10/18/11	Check By: J.J. 10/18/11	Check By: J.J. 10/18/11
Scale: 1/4" = 1'-0"	Scale: 1/4" = 1'-0"	Scale: 1/4" = 1'-0"	Scale: 1/4" = 1'-0"
Sheet: 4 of 8	Sheet: 4 of 8	Sheet: 4 of 8	Sheet: 4 of 8
Project: 4289-4	Project: 4289-4	Project: 4289-4	Project: 4289-4
Drawn By: J.J. 10/18/11	Drawn By: J.J. 10/18/11	Drawn By: J.J. 10/18/11	Drawn By: J.J. 10/18/11
Check By: J.J. 10/18/11	Check By: J.J. 10/18/11	Check By: J.J. 10/18/11	Check By: J.J. 10/18/11
Scale: 1/4" = 1'-0"	Scale: 1/4" = 1'-0"	Scale: 1/4" = 1'-0"	Scale: 1/4" = 1'-0"
Sheet: 4 of 8	Sheet: 4 of 8	Sheet: 4 of 8	Sheet: 4 of 8
Project: 4289-4	Project: 4289-4	Project: 4289-4	Project: 4289-4

INSTALLATION FLANGED FRAME
ALUMINUM PICTURE WINDOW, IMPACT



1070 TECHNOLOGY DRIVE
N. VENICE, FL 33596
P.O. BOX 1529
NOKOMIS, FL 34274

1070 TECHNOLOGY DRIVE
N. VENICE, FL 33596
P.O. BOX 1529
NOKOMIS, FL 34274

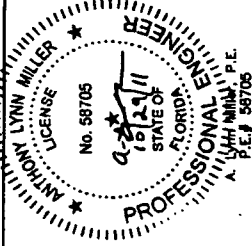
1070 TECHNOLOGY DRIVE
N. VENICE, FL 33596
P.O. BOX 1529
NOKOMIS, FL 34274

1070 TECHNOLOGY DRIVE
N. VENICE, FL 33596
P.O. BOX 1529
NOKOMIS, FL 34274

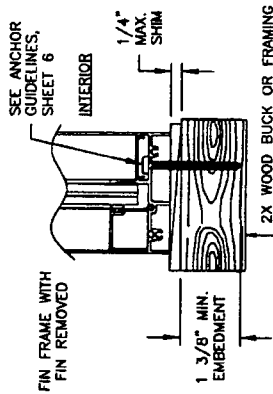
1070 TECHNOLOGY DRIVE
N. VENICE, FL 33596
P.O. BOX 1529
NOKOMIS, FL 34274

1070 TECHNOLOGY DRIVE
N. VENICE, FL 33596
P.O. BOX 1529
NOKOMIS, FL 34274

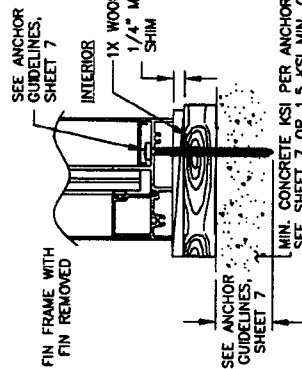
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No.
11-110.15
Expiring Date
12/31/11
By
Nathan Dale Product Control



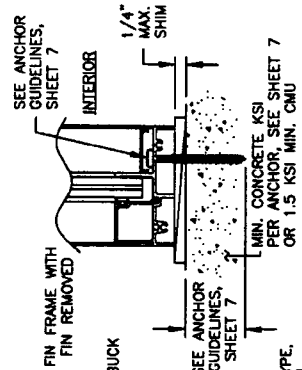
MISC. INSTALLATION DETAILS



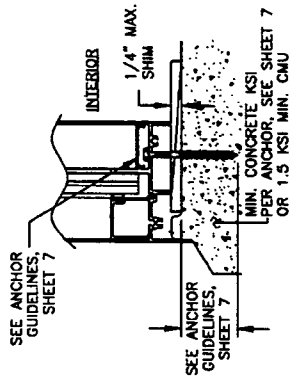
FLANGE FRAME
(OTHER FRAMES SIM.)
2X WOOD SUBSTRATE



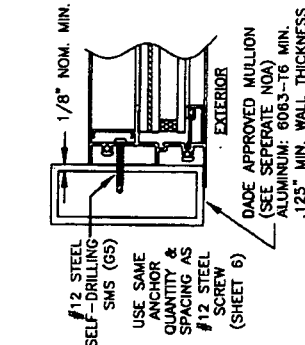
FLANGE FRAME
(OTHER FRAMES SIM.)
1X WOOD BUCKSTRIP



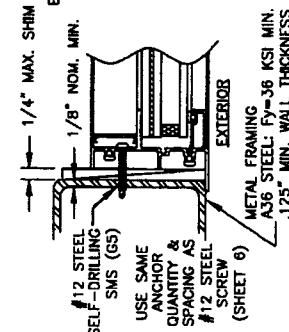
FLANGE FRAME
(OTHER FRAMES SIM.)
DIRECTLY TO MASONRY



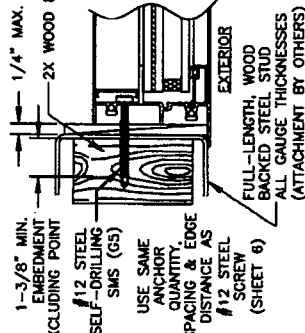
FLANGE FRAME
PRECAST SLOPED SILL



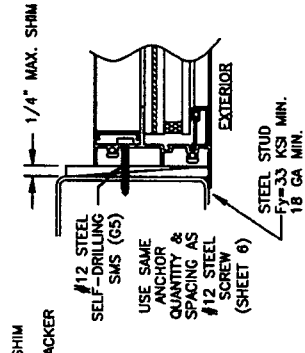
FLANGE FRAME
(OTHER FRAMES SIM.)
ALUMINUM MULL SUBSTRATE



FLANGE FRAME
(OTHER FRAMES SIM.)
STRUCTURAL STEEL SUBSTRATE



FLANGE FRAME
(OTHER FRAMES SIM.)
STEEL STUD/WOOD SUBSTRATE



FLANGE FRAME
(OTHER FRAMES SIM.)
STEEL STUD SUBSTRATE

NOTES

1. USE ONLY ANCHORS LISTED ON SHEETS 6 AND 7. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS.
2. WOOD BUCKS DEPICTED IN THE SECTIONS ON THIS PAGE AS 1X ARE BUCKS WHOSE TOTAL THICKNESS IS LESS THAN 1-1/2". 1X WOOD BUCKS ARE OPTIONAL IF UNIT CAN BE INSTALLED DIRECTLY TO SOLID CONCRETE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY AUTHORITY HAVING JURISDICTION.
3. FOR ATTACHMENT TO 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.

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1328
NOKOMIS, FL 34274



1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1328
NOKOMIS, FL 34274

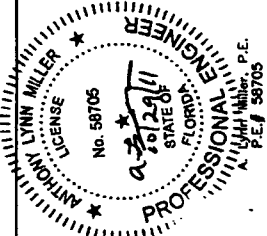
NO CHANGE THIS SHEET
FOR THE WINDOW AND MULLION
IN INFORMATION FOR LARGER WINDOWS.

NO CHANGE THIS SHEET
FOR THE WINDOW AND MULLION
IN INFORMATION FOR LARGER WINDOWS.

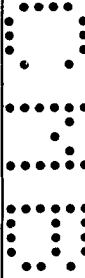
NO CHANGE THIS SHEET
FOR THE WINDOW AND MULLION
IN INFORMATION FOR LARGER WINDOWS.

NO CHANGE THIS SHEET
FOR THE WINDOW AND MULLION
IN INFORMATION FOR LARGER WINDOWS.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No.
11-1110.16
Engineering Date: 02/11/2011
By: [Signature]
Admitt Trade Product Control



INSTALLATION FINNED FRAME
ALUMINUM PICTURE WINDOW, IMPACT
PN-701
N.T.S.
6 x 8
4259-4



Head, Sill and Jamb Anchor Quantities Into Wood or Metal (Anchor Types 1-4)

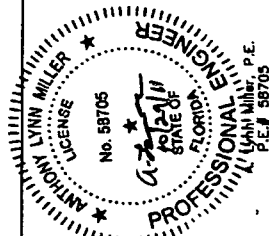
Anchor Type	Anchor Location*	"A" or "B" Dimension (in)											
		24	30	36	42	48	54	60	66	72	78	84	90
36	Jamb	1	2	3	4	1	2	3	4	1	2	3	4
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
	Jamb	4	4	4	4	5	5	5	5	6	6	6	6
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
48	Jamb	5	5	5	5	6	6	6	6	7	7	7	7
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
	Jamb	6	6	6	6	7	7	7	7	8	8	8	8
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
60	Jamb	6	6	6	6	7	7	7	7	8	8	8	8
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
	Jamb	7	7	7	7	8	8	8	8	9	9	9	9
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
67.875	Jamb	7	7	7	7	8	8	8	8	9	9	9	9
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
	Jamb	8	8	8	8	9	9	9	9	10	10	10	10
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
72	Jamb	8	8	8	8	9	9	9	9	10	10	10	10
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
	Jamb	9	9	9	9	10	10	10	10	11	11	11	11
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
78.8	Jamb	9	9	9	9	10	10	10	10	11	11	11	11
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
	Jamb	10	10	10	10	11	11	11	11	12	12	12	12
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
84	Jamb	10	10	10	10	11	11	11	11	12	12	12	12
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
	Jamb	11	11	11	11	12	12	12	12	13	13	13	13
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
88.3	Jamb	11	11	11	11	12	12	12	12	13	13	13	13
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
	Jamb	12	12	12	12	13	13	13	13	14	14	14	14
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
98	Jamb	12	12	12	12	13	13	13	13	14	14	14	14
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
	Jamb	13	13	13	13	14	14	14	14	15	15	15	15
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
108.7	Jamb	13	13	13	13	14	14	14	14	15	15	15	15
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
	Jamb	14	14	14	14	15	15	15	15	16	16	16	16
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
120	Jamb	14	14	14	14	15	15	15	15	16	16	16	16
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
	Jamb	15	15	15	15	16	16	16	16	17	17	17	17
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
128	Jamb	15	15	15	15	16	16	16	16	17	17	17	17
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
	Jamb	16	16	16	16	17	17	17	17	18	18	18	18
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
145	Jamb	16	16	16	16	17	17	17	17	18	18	18	18
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4
	Jamb	17	17	17	17	18	18	18	18	19	19	19	19
	Head/Sill	2	2	2	2	3	3	3	3	4	4	4	4

* Width and Height dimensions may be reversed to locate anchor quantities on the table. If so, the Head/Sill and Jamb rows must also be reversed so that the longer dimension gets the most anchors.

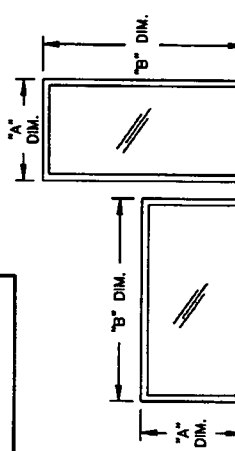
NOTES:

1. ANY ONE SIDE OF THE WINDOW CANNOT BE MORE THAN 145" NOR CAN THE WINDOW AREA EXCEED 32FT².
2. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.
3. FOR ARCHITECTURAL WINDOWS, FIND THE SMALLEST WINDOW SIZE IN THE TABLE ABOVE WHICH THE OVERALL WIDTH AND HEIGHT DIMENSIONS COMPLETELY FIT WITHIN.
4. THE WINDOWS WIDTH AND HEIGHT (DIMENSIONS "A" AND "B") MAY BE REVERSED TO OBTAIN A MORE ACCURATE RESULT FROM THE TABLE (SEE FIGURE, THIS SHEET).
5. DIFFERENT ANCHORS MAY BE CHOSEN FROM MULTIPLE TABLE COLUMNS TO MATCH THE SUBSTRATE.

PRODUCT REVISED
in compliance with the Florida
Building Code
Acceptance No. 11-110-16
Examination Date 02/11/10
By [Signature]
Miami Dade Product Control



"A" & "B" DIMENSIONS MAY
BE ORIENTED VERTICALLY OR
HORIZONTALLY AS SHOWN.



ANCHORAGE, WOOD SUBSTRATE ALUMINUM PICTURE WINDOW, IMPACT		Drawing No. 4259-4 Date 6/8
Project Name 1070 TECHNOLOGY DRIVE N. VENICE, FL 33575	Client P.O. BOX 1528 NOKOMIS, FL 34274	Designer L. LYNN MILLER, P.E. License No. 58705
Revision 1. NO CHANGE THIS SHEET 2. CORRECTION FOR WINDOW AND ANCHOR INFORMATION FOR LARGER WINDOWS. 3. NEW SHEET	Checked By F.K. 7/14/08	Date 7/14/08

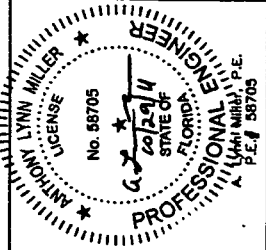
Anchor Type	"A" or "B" Dimension (in)												
	24			30			36			42			
	5	6	7	5	6	7	5	6	7	5	6	7	
36	Jamb	4	3	4	4	3	4	4	3	4	4	3	4
	Head/Sill	2	2	3	3	4	3	5	6	4	5	4	3
48	Jamb	5	4	5	4	5	6	4	5	6	5	6	5
	Head/Sill	2	2	3	3	4	3	5	6	4	5	6	5
60	Jamb	6	5	6	6	5	6	6	7	6	6	7	6
	Head/Sill	2	2	3	3	4	3	5	6	4	5	6	5
67.875	Jamb	7	6	7	6	7	6	7	6	7	6	7	6
	Head/Sill	2	2	3	3	4	3	5	6	4	5	6	5
72	Jamb	8	6	8	7	6	8	7	6	8	7	6	8
	Head/Sill	2	2	3	3	4	3	5	6	4	5	6	5
76.6	Jamb	9	7	8	7	8	7	8	7	8	7	8	7
	Head/Sill	2	2	3	3	4	3	5	6	4	5	6	5
84	Jamb	9	7	8	7	8	7	8	7	8	7	8	7
	Head/Sill	2	2	3	3	4	3	5	6	4	5	6	5
86.3	Jamb	9	7	8	7	8	7	8	7	8	7	8	7
	Head/Sill	2	2	3	3	4	3	5	6	4	5	6	5
96	Jamb	10	8	10	9	8	10	9	8	10	9	8	10
	Head/Sill	2	2	3	3	4	3	5	6	4	5	6	5
109.7	Jamb	12	9	12	10	9	12	10	9	12	10	9	12
	Head/Sill	2	2	3	3	4	3	5	6	4	5	6	5
120	Jamb	13	10	13	11	10	13	11	10	13	11	10	13
	Head/Sill	2	2	3	3	4	3	5	6	4	5	6	5
128	Jamb	13	11	13	12	11	13	12	11	13	12	11	13
	Head/Sill	2	2	3	3	4	3	5	6	4	5	6	5
145	Jamb	16	12	16	13	12	16	13	12	16	13	12	16
	Head/Sill	2	2	3	3	4	3	5	6	4	5	6	5

• Width and Height dimensions may be reversed to locate anchor quantities on the table. If so, the Head/Sill and Jamb rows must also be reversed so that the longer dimension gets the most anchors.

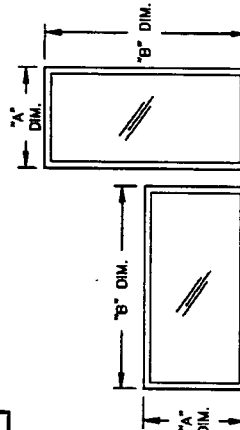
- Width and Height dimensions may be reversed to locate anchor quantities on the table. If so, the Head/Sill and Jamb rows must also be reversed so that the longer dimension gets the most anchors.

1. ANY ONE SIDE CANNOT BE MORE THAN 145" AND HAVE AN AREA OF MORE THAN 32FT².
2. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.
3. FOR ARCHITECTURAL WINDOWS, FIND THE SMALLEST WINDOW SIZE IN THE TABLE ABOVE WHICH THE OVERALL WIDTH AND HEIGHT DIMENSIONS COMPLETELY FIT WITHIN.
4. THE WINDOWS WIDTH AND HEIGHT (DIMENSIONS "A" AND "B") MAY BE REVERSED TO OBTAIN A MORE ACCURATE RESULT.
5. DIFFERENT ANCHORS MAY BE CHOSEN FROM MULTIPLE TABLE COLUMNS TO MATCH THE SUBSTRATE.

as complying with the Florida
Building Code
Acceptance No. 11-11816
Expiration Date 07/17/2014
By *[Signature]*
Miami-Dade Product Control



"A" & "B" DIMENSIONS MAY
BE ORIENTED VERTICALLY OR
HORIZONTALLY AS SHOWN.



ANCHORAGE, MASONRY SUBSTRATE

ALUMINUM PICTURE WINDOW, IMPACT

770 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

CHANGE THIS SHEET
COMPLETE REDRAW AND REORGANIZATION TO INCLUDE
ORGANIZATION FOR LABS, ETC.

NO	D	NO
CODING	REVISIONS:	CODING
INFORMATION	C	INFORMATION
NE	B	NE
Checked By Date:	Checked By Date:	Checked By Date:
J.J.	J.R.	F.K.
10/18/11	3/31/10	4/4/07
Reviewed By Date:	Reviewed By Date:	Reviewed By Date:
J.J.	J.R.	F.K.
10/18/11	3/31/10	4/4/07
Drawn By Date:	Drawn By Date:	Drawn By Date:

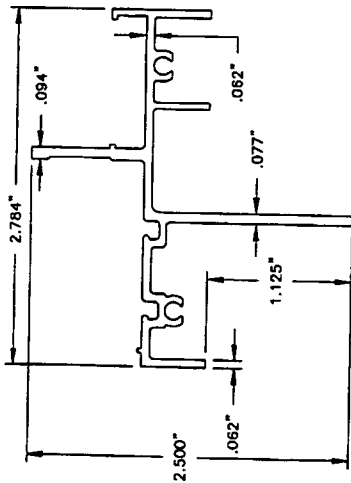
Loc.	Sheet:	Brewing No.	Date
MTS	7 of 8	4258-4	D

Area/Model: 5W-701

NOKOMIS, FL 34274

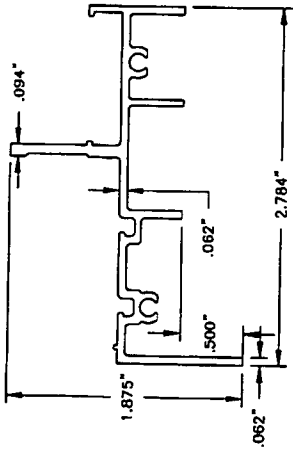
--	--

Drawn By:	Date:	Checked By:
F.K.	7/14/03	



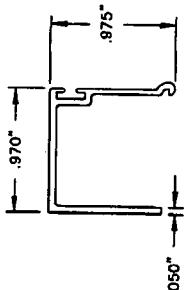
INTEGRAL FIN FRAME

① MAT'L: 6063-T5
DWG NO. 4256A

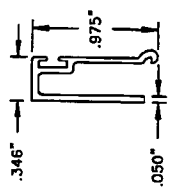


FLANGED FRAME

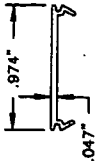
② MAT'L: 6063-T5
DWG NO. 4253



⑩ MAT'L: 6063-T5
DWG NO. 4255



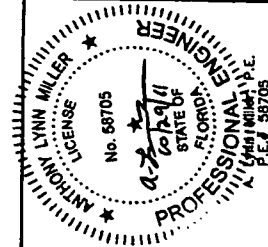
⑪ MAT'L: 6063-T5
DWG NO. 4254



INSTALL FASTENER COVER
⑬ MAT'L: 6063-T5
DWG NO. 4224

ITEM	DWG #	PART #	DESCRIPTION
1	4256A	84256	Integral fin frame head, sill & jamb
2	4263	84263	Flanged frame head, sill & jamb
7	1155	781POX	#8 x 1 Quad PH SMS stainless steel
8			Schnoor-Morehead SM5504 acrylic narrow joint sealant or
10	4255	84255	7/16 lami glass bead
11	4254	84254	1-1/16 lami I.G. glass bead
12	1224	8TP247	Vinyl bulb weatherstrip (thick)
13	4224		Installation fastener cover
14			Dow Corning 889 glazing sealant or equivalent
15			Dow Corning 985 silicone structural sealant, black
17			7/16" lami glass: 3/16" annealed - .080 DuPont Butacite or Saflex KeepSafe Maximum PVB interlayer - 3/16" heat strengthened
18			1-1/16" lami I.G. glass: 3/16" heat strengthened outboard - 7/16" airspace - 3/16" annealed - .080 DuPont Butacite or Saflex KeepSafe Maximum PVB interlayer - 3/16" heat strengthened
20	4282	84282	Architectural corner key
21			7/16" lami glass: 3/16" heat strengthened - .080 DuPont Butacite or Saflex KeepSafe Maximum PVB interlayer - 3/16" heat strengthened
22			1-1/16" lami I.G. glass: 3/16" heat strengthened outboard - 7/16" airspace - 3/16" heat strengthened - .080 DuPont Butacite or Saflex KeepSafe Maximum PVB interlayer - 3/16" heat strengthened

PRODUCT REVISED
in compliance with the Florida
Building Code
Acceptance No. 11-111016
Expiration Date 12/31/2011
Lynn Miller
Miami Trade Product Control



1070 TECHNOLOGY DRIVE N. VENICE, FL 33475 P.O. BOX 1529 NOKOMES, FL 34274		EXTRUSION PROFILES & PARTS LIST ALUMINUM PICTURE WINDOW, IMPACT	
Revision 10/18/11 J.J. 10/31/10 J.R. 7/14/03 F.K.	NO CHANGE THIS SHEET COMPLETE REDRAW AND REORGANIZATION TO INCLUDE INFORMATION FOR LARGER WINDOWS.	Part NTS 8 x 8 4259-4	Sheet D

FLORIDA DEPARTMENT OF
Business & Professional Regulation

Florida Department of
Business & Professional Regulation

Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > [Application Detail](#)

EMERGENCY MANAGEMENT

OFFICE OF THE SECRETARY

BCIS Home | Log In | User Registration | Hot Topics | Submit Surcharge | Stats & Facts | Publications | FBC Staff | BCIS Site Map | Links | Search |

FL #

Application Type

Code Version

Application Status

Comments

Archived

Product Manufacturer

Address/Phone/Email

Authorized Signature

Technical Representative

Address/Phone/Email

Quality Assurance Representative

Address/Phone/Email

Category

Subcategory

Compliance Method

Certification Agency

Validated By

Referenced Standard and Year (of Standard)

Equivalence of Product Standards

Certified By

FL14604

New

2007

Approved

*Approved by DCA. Approvals by DCA shall be reviewed and ratified by the POC and/or the Commission if necessary.

☐

Eastern Architectural Systems

10030 Bavaria Road

Ft. Myers, FL 33913

(800) 281-6564

fbc@buildingdrops.com

AJ Giacalone

fbc@buildingdrops.com

Windows

Single Hung

Certification Mark or Listing

National Accreditation & Management Institute,

National Accreditation & Management Institute,

Standard	Year
AAMA/WDMA/CSA 101/1.S.2/A440	2005
ANSI/AAMA/NWWDA 101/1.S.2	1997
ASTM E1886	2002
ASTM E1996	2002
TAS 201	1994
TAS 202	1994
TAS 203	1994

Product Approval Method

Method 1 Option A

Date Submitted

05/31/2011

Date Validated

09/07/2011

Date Pending FBC Approval

Date Approved

09/09/2011

Summary of Products		
PL #	Model, Number or Name	Description
14604.1	Series "1000" Aluminum	Single Hung Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +45/-45 Other: Configuration: O/X Max. Frame Size: W-53" H-77" Max. Vent Size: W-50" H-38" Glazing: 3/16" Annealed Glass		Certification Agency Certificate FL14604 R0 C CAC NI006177.01-R1.PDF Quality Assurance Contract Expiration Date 06/30/2015 Installation Instructions FL14604 R0 II EAS009 R1 SIGNED AND CERT 9-6-11.pdf Verified By: Alexis Spyrou, P.E. Florida P.E. 68101 Created by Independent Third Party: Yes Evaluation Reports FL14604 R0 AE PER 1324 SIGNED AND CERT.pdf Created by Independent Third Party: Yes
14604.2	Series "FWI 1000" Aluminum Impact Rated	Single Hung Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Refer to drawing EAS010 for Window Size, Glazing, & Design Pressure Rating, Impact Interlayer Approved under NOA 09-0127.13		Certification Agency Certificate FL14604 R0 C CAC 09-0127.13.pdf FL14604 R0 C CAC NI006148.01.pdf FL14604 R0 C CAC NI010670.PDF Quality Assurance Contract Expiration Date 12/31/2014 Installation Instructions FL14604 R0 II EAS010 R1 SIGNED AND CERT.pdf Verified By: Alexis Spyrou, P.E. Florida P.E. 68101 Created by Independent Third Party: Yes Evaluation Reports FL14604 R0 AE PER 1325.pdf Created by Independent Third Party: Yes
14604.3	Series "FWI 1000" Aluminum Impact Rated	Single Hung Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +60/-60 Other: Configuration: O/X Max. Frame Size: W-53" H-96" Max. Vent Size: W-50" H-48" Glazing: Laminated-1/8" Annealed Glass/0.090" Safety-Plus II Interlayer/1/8" Annealed Glass, Impact Interlayer Approved under NOA 09-0127.13		Certification Agency Certificate FL14604 R0 C CAC 09-0127.13.pdf FL14604 R0 C CAC NI009020.02.pdf Quality Assurance Contract Expiration Date 09/30/2015 Installation Instructions FL14604 R0 II EAS008.pdf Verified By: Alexis Spyrou, P.E. Florida P.E. 68101 Created by Independent Third Party: Yes Evaluation Reports FL14604 R0 AE PER 1323.pdf Created by Independent Third Party: Yes
14604.4	Series "FWI 1000" Aluminum Impact Rated	Single Hung Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +75/-75 Other: Configuration: O/X Max. Frame Size: W-48" H-72" Max. Vent Size: W-47" H-38" Glazing: 3/4" Overall Laminated I.G.- 1/8" Heat Strengthened Glass/0.090" Saflex by Solutia/1/8" Heat Strengthened Glass/0.250" Air Space/ 1/8" Heat Strengthened Glass, Impact Interlayer Approved under NOA 09-0127.13		Certification Agency Certificate FL14604 R0 C CAC 09-0127.13.pdf FL14604 R0 C CAC NI009020.03-R1.PDF Quality Assurance Contract Expiration Date 12/31/2014 Installation Instructions FL14604 R0 II EAS007.pdf Verified By: Alexis Spyrou, P.E. Florida P.E. 68101 Created by Independent Third Party: Yes Evaluation Reports FL14604 R0 AE PER 1322.pdf Created by Independent Third Party: Yes
14604.5	Series "FWI 1000" Aluminum Impact Rated	Single Hung Window
Limits of Use Approved for use in HVHZ: Yes		Certification Agency Certificate FL14604 R0 C CAC 08-0206.01.pdf

Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +120/-150 Other: Configuration: O/X Max. Frame Size: W-54" H-77" Max. Vent Size: W-51" H-38" Glazing: Lamine-3/16" Heat Strengthened Glass/0.100" HP Solutia/ 3/16" Heat Strengthened Glass, Impact Interlayer Approved under NOA 08-0206.01		FL14604 R0 C CAC NI009020.01-R1.PDF Quality Assurance Contract Expiration Date 04/30/2015 Installation Instructions FL14604 R0 II EAS005 R1 SIGNED AND CERT.pdf Verified By: Alexis Spyrou, P.E. Florida P.E. 68101 Created by Independent Third Party: Yes Evaluation Reports FL14604 R0 AE PER 1320 SIGNED AND CERT.pdf Created by Independent Third Party: Yes
14604.6	Series 1431 Vinyl	Single Hung Window with Nailing Fin
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50/-50 Other: Configuration: O/X Max. Frame Size: W-48" H-72" Max. Vent Size: W-44.38" H-35" Glazing: 3/4" Overall I.G.		Certification Agency Certificate FL14604 R0 C CAC NI010607-R1.PDF Quality Assurance Contract Expiration Date 12/31/2014 Installation Instructions FL14604 R0 II EAS036.pdf Verified By: Alexis Spyrou, P.E. Florida P.E. 68101 Created by Independent Third Party: Yes Evaluation Reports FL14604 R0 AE PER 1352.pdf Created by Independent Third Party: Yes
14604.7	Series 1441 Vinyl	Single Hung Window with Flange
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50/-50 Other: Configuration: O/X Max. Frame Size: W-54" H-72" Max. Vent Size: W-50.38" H-35.13" Glazing: 3/4" Overall I.G.		Certification Agency Certificate FL14604 R0 C CAC NI010813-R1.PDF Quality Assurance Contract Expiration Date 04/30/2015 Installation Instructions FL14604 R0 II EAS037 R1.pdf Verified By: Alexis Spyrou, P.E. Florida P.E. 68101 Created by Independent Third Party: Yes Evaluation Reports FL14604 R0 AE PER1353 R1.pdf Created by Independent Third Party: Yes
14604.8	Series 2451/1431 Vinyl Impact Rated	Single Hung Window with Nailing Fin
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +50/-50 Other: Configuration: O/X Max. Frame Size: W-48" H-72" Max. Vent Size: W-44.25" H-35" Glazing: 3/4" Overall Laminated I.G.- 1/8" Annealed Glass/Lamine-1/8" Annealed Glass/0.090" PVB by Solutia/1/8" Annealed Glass		Certification Agency Certificate FL14604 R0 C CAC NI010607-R1.PDF FL14604 R0 C CAC NI010608.PDF Quality Assurance Contract Expiration Date 12/31/2014 Installation Instructions FL14604 R0 II EAS038.pdf Verified By: Alexis Spyrou, P.E. Florida P.E. 68101 Created by Independent Third Party: Yes Evaluation Reports FL14604 R0 AE PER 1354.pdf Created by Independent Third Party: Yes
14604.9	Series 2461/1441 Vinyl Impact Rated	Single Hung Window with Flange
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +50/-50 Other: Configuration: O/X Max. Frame Size: W-54" H-72" Max. Vent Size: W-50.5" H-35.5" Glazing: 3/4" Overall Laminated I.G.- 1/8" Annealed Glass/Lamine-1/8" Annealed Glass/0.090" PVB by Solutia/1/8" Annealed Glass		Certification Agency Certificate FL14604 R0 C CAC NI010630.PDF FL14604 R0 C CAC NI010813-R1.PDF Quality Assurance Contract Expiration Date 10/31/2014 Installation Instructions FL14604 R0 II EAS039.pdf Verified By: Alexis Spyrou, P.E. Florida P.E. 68101 Created by Independent Third Party: Yes Evaluation Reports FL14604 R0 AE PER 1355 R1.pdf Created by Independent Third Party: Yes

[Back](#)
[Next](#)
[Contact Us :: 1940 North Monroe Street, Tallahassee FL 32399](#)

 The State of Florida is an AA/EEO employer. [Copyright 2007-2010 State of Florida.](#) :: [Privacy Statement](#) :: [Accessibility Statement](#) :: [Refund Statement](#)

 Under Florida law, e-mail addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions regarding DBPR's ADA web accessibility, please contact our Web Master at webmaster@dbpr.state.fl.us.

Product Approval Accepts:

INSTALLATION NOTES:

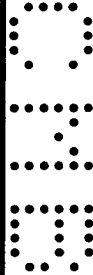
- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE $1/4$ INCH. SHIM WHERE SPACE OF $1/16$ INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR FLANGE INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE $1/4$ INCH DIAMETER ITW TAPCON OF SUFFICIENT LENGTH TO ACHIEVE $1/4$ INCH MINIMUM EMBEDMENT.
- FOR FLANGE INSTALLATION INTO WOOD FRAMING USE #14 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE $1 1/2$ INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- FOR FIN INSTALLATION INTO WOOD FRAMING USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE $1 1/2$ INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2700 PSI.
 - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- THIS PRODUCT IS LARGE AND SMALL MISSILE IMPACT RESISTANT APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW FRAME MATERIAL: 6063-T5 ALUMINUM
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300-04 GLASS CHARTS. SEE SHEET 3 FOR GLAZING DETAILS.
- DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
 - X: OPERABLE PANEL
 - O: FIXED PANEL

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	INSTALLATION & GENERAL NOTES
2	ELEVATION & ANCHOR LAYOUTS
3	VERTICAL & HORIZONTAL SECTIONS & GLAZING DETAILS
4	VERTICAL & HORIZONTAL SECTIONS

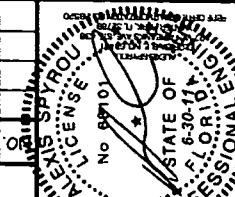
DESIGN PRESSURE RATING		
GLAZE TYPE	DESIGN PRESSURE	MISSILE IMPACT RATING
A	+60/-80 PSF	LARGE AND SMALL MISSILE IMPACT RESISTANT
B	+80/-100 PSF	LARGE AND SMALL MISSILE IMPACT RESISTANT



EASTERN ARCHITECTURAL SYSTEMS
127 W. FAIRBANKS AVE., STE. 438
WINTER PARK, FL 32789
PH: (407) 432-2204 FX: (239) 369-2412

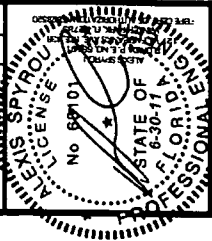
PREPARED BY: CERTWORKS, LLC
127 W. FAIRBANKS AVE., STE. 438
WINTER PARK, FL 32789
PH: (407) 644-6957 FX: (407) 644-2366

REVISIONS
DATE BY DESCRIPTION



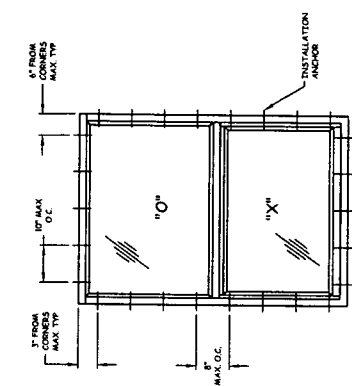
DATE: 4.05.11
DWG #: EAS010
SHEET: 1 OF 4

NO.	DESCRIPTION	BY	DATE

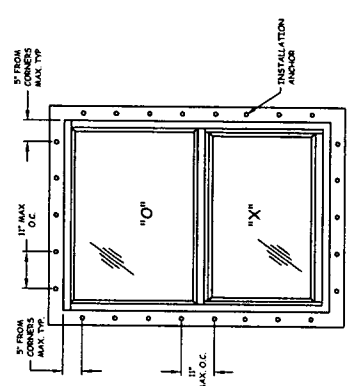


DATE:	4.05.11
DWN BY:	JLA
CHK BY:	HFN
SCALE:	NTS

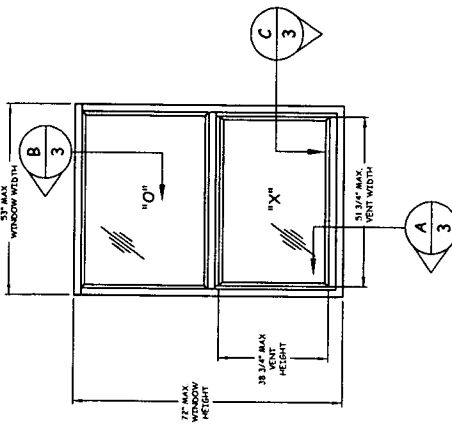
DWG #: **EAS010**
SHEET: **2 OF 4**



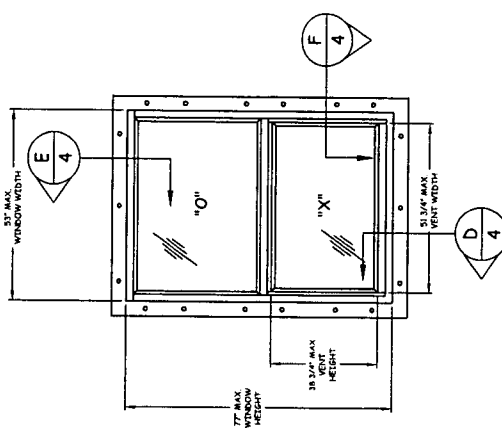
ANCHOR LAYOUT



ANCHOR LAYOUT



ELEVATION FLANGE



ELEVATION



EASTERN ARCHITECTURAL SYSTEMS
10030 BAVARIA ROAD
FORT MYERS, FL 33903
PH: (800) 432-0204 FAX: (239) 399-2412

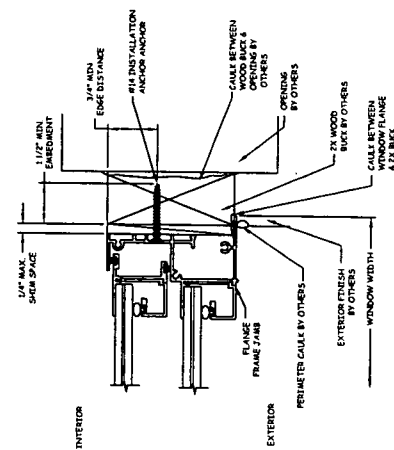
TITLE: SERIES FW1 1000 SH
VERTICAL & HORIZONTAL SECTIONS
PREPARED BY: CERTWORKS, LLC
127 W. FAIRBANKS AVE., STE. 438
WINTER PARK, FL 32789
PH: (407) 644-6957 FX: (407) 644-2366

REVISIONS	
NO.	DESCRIPTION
BY	DATE

STATE OF FLORIDA
PROFESSIONAL ENGINEERING
No. 897101
ALEXIS SPYROU
LICENSED PROFESSIONAL ENGINEER
EXPIRATION DATE 6-30-14

DATE: 4.05.11
DWG #: EAS010
SHEET: 3 OF 4

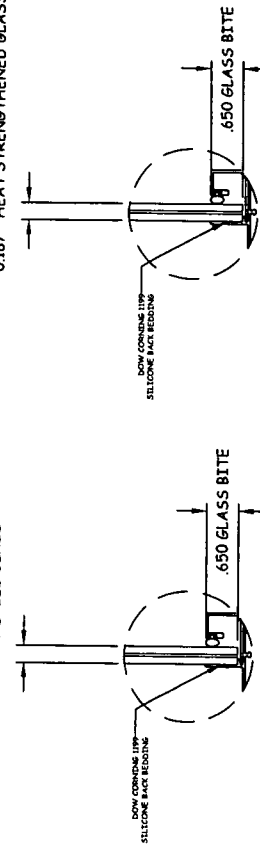
SCALE: NTS
CHK BY: HFN
JLA
DWN BY: HFN



3 VERTICAL SECTION
JAMB - 2X WOOD FRAME
FLANGE INSTALLATION

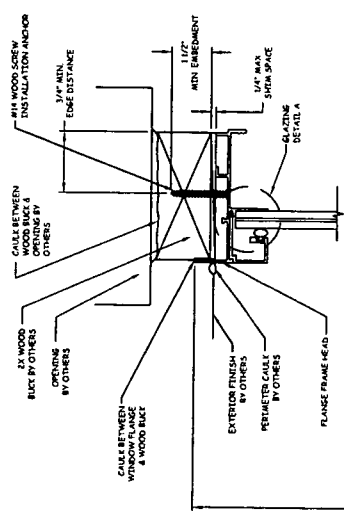
0.460" O.A. LAMINATED GLASS CONSISTING OF:
0.185" HEAT STRENGTHENED GLASS,
0.090" SAFLEX INTERLAYER BY SOLUTIA,
0.185" ANNEALED GLASS

0.464" O.A. LAMINATED GLASS CONSISTING OF:
0.187" HEAT STRENGTHENED GLASS,
0.090" SAFLEX INTERLAYER BY SOLUTIA,
0.187" HEAT STRENGTHENED GLASS

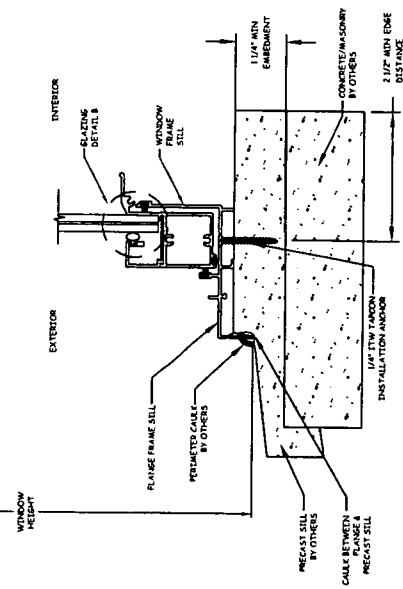


GLAZING DETAIL A

GLAZING DETAIL B



3 VERTICAL SECTION
HEAD - 2X WOOD FRAME
FLANGE INSTALLATION



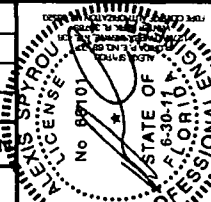
3 VERTICAL SECTION
SILL - CONCRETE/MASONRY
FLANGE INSTALLATION



EASTERN ARCHITECTURAL SYSTEMS
1000 W. FAIRBANKS AVE.
FT. MYERS, FL 33901
PH: (800) 432-2204 FX: (239) 369-2412

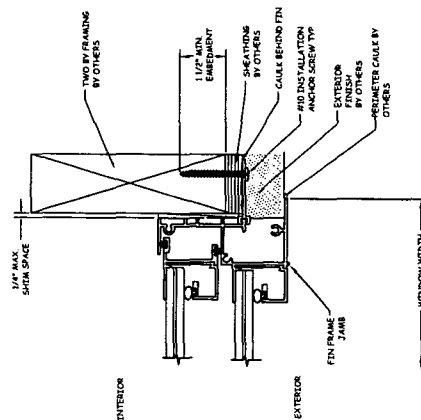
TITLE: SERIES FW1 1000 SH
VERTICAL
& HORIZONTAL SECTIONS
PREPARED BY:
CERTWORKS, LLC
127 W. FAIRBANKS AVE., STE. 438
WINTER PARK, FL 32789
PH: (407) 644-6957 FX: (407) 644-2366

REVISIONS		DESCRIPTION	BY	DATE

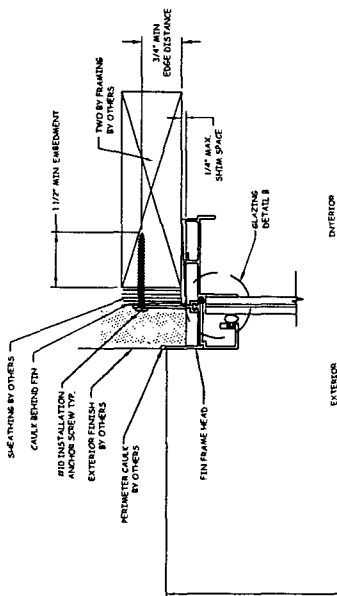


DATE: 4.05.11
DWN BY: JLA
CHK BY: HFN
SCALE: NTS

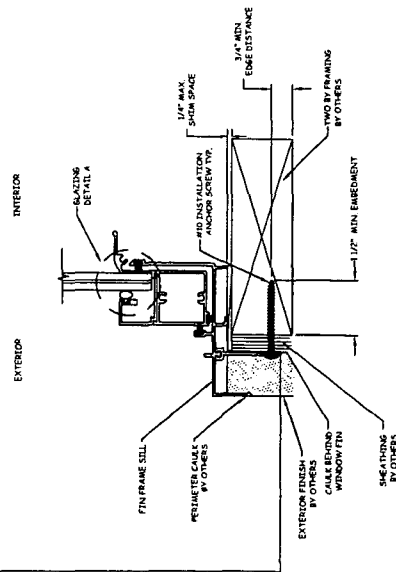
DWG #: EAS010
SHEET: 4 OF 4



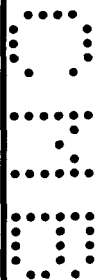
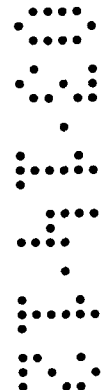
F VERTICAL SECTION
HEAD - 2X WOOD FRAME
FIN INSTALLATION



E VERTICAL SECTION
HEAD - 2X WOOD FRAME
FIN INSTALLATION



D VERTICAL SECTION
SILL - 2X WOOD FRAME
FIN INSTALLATION





CertWorks *... it works*

FBPE Certificate of Authorization No. 28520

127 W. Fairbanks Ave.
Suite 438
Winter Park, FL 32789
407.644.6957 PH
407.644.2366 FX
info@certwrks.com

**Product Evaluation Report
of
Eastern Architectural Systems, Inc.**

**Series FWI 1000
Single Hung Window
(Impact)**

**for
Florida Product Approval
FL#**

Report No. 1325

**Florida Building Code
Per Rule 9N-3**

**Method: 1 – A (Certification)
Category: Windows
Sub – Category: Single Hung**

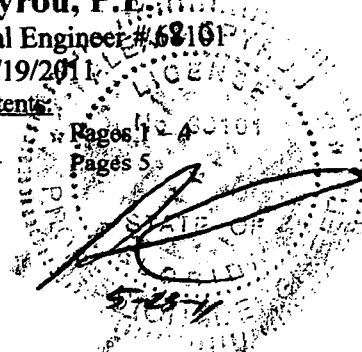
**Product: Series FWI 1000 Single Hung
Material: Aluminum 6063-T5
Product Dimensions: 53" x 72"
53" x 77"**

**Prepared For:
Eastern Architectural Systems
10030 Bavaria Road
Ft Myers, FL 33913**

**Prepared by:
Alexis Spyrou, P.E.
Florida Professional Engineer #68101
Date: 5/19/2011**

**Contents:
Evaluation Report
Installation Details**

**Pages 1 - 4
Pages 5 - 10**



**Alexis Spyrou, P.E.
Florida No. 68101**



CertWorks ... it works

FBPE Certificate of Authorization No. 28520

FL#:
Date: 5/19/2011
Report No: 1325

Manufacturer: Eastern Architectural Systems, Inc.

Product Category: Windows

Product Sub-Category: Single Hung

Compliance Method: State Product Approval Rule 9N-3.005 (1)(a)

Product Name: Series FWI 1000 Single Hung Window
(Impact)

Scope: This is a Product Evaluation Report issued by Alexis Spyrou, P.E. (FL # 68101) for Eastern Architectural Systems, Inc. based on Rule Chapter No. 9N-3.005, Method 1a of the State of Florida Product Approval, Department of Community Affairs - Florida Building Commission.

Alexis Spyrou, P.E. does 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 current Florida Building Code as per standards listed on page three of this document.

See Installation Instructions **EAS010**, signed and sealed by Alexis Spyrou, P.E. (FL # 68101) for specific use parameters.

Limits of Use:

1. This product has been evaluated and is in compliance with the current Florida Building Code, including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment into substrate material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product complies with Section 1609.1.2 of the current Florida Building Code and does not require an impact resistant covering.
4. Site conditions that deviate from the details of drawing **EAS010**, require further engineering analysis by a licensed engineer or registered architect.
5. See Installation Instructions **EAS010**, for size and design pressure limitations.

Alexis Spyrou, P.E.
Florida No. 68101
Page 2 of 5



CertWorks ... it works

FBPE Certificate of Authorization No. 28520

FL#:
Date: 5/19/2011
Report No: 1325

Quality Assurance:

The manufacturer has demonstrated compliance of window products in Accordance with the Florida Building Code and Rule 9N-3.005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity through **National Accreditation & Management Institute** (FBC Organization #: QUA1789).

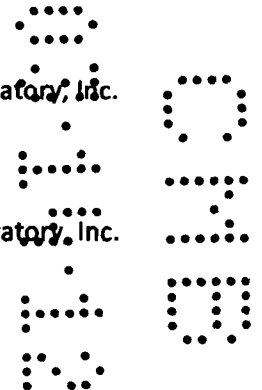
Performance Standards:

The product described herein has been tested per:

- TAS 201-94
- TAS 202-94
- TAS 203-94

Referenced Data:

1. Product Testing performed by Fenestration Testing Laboratory, Inc.
(FBC Organization #: TST1657)
Report #: 02-311-24, Report Date: 10/17/2007
2. Product Testing performed by Fenestration Testing Laboratory, Inc.
(FBC Organization #: TST1657)
Report #: 11-749-03, Report Date: 7/29/2008
3. Quality Assurance
National Accreditation & Management Institute
(FBC Organization #: QUA1789)





Installation: 1. Approved anchor types and substrates are as follows:

Through Frame Installation:

- A. For two by (2X) wood frame substrate, use **#14 Wood Screws** type wood frame anchors of sufficient length to achieve minimum embedment of 1.50" into wood framing.
- B. For concrete or masonry substrate where one by (1X), non-structural, wood bucking is employed, use **1/4" diameter ITW Tapcon** type concrete screw anchors of sufficient length to achieve minimum embedment of 1.25" into concrete or masonry.
- C. For concrete or masonry substrate where wood bucking is NOT employed, use **1/4" diameter ITW Tapcon** type concrete screw anchors of sufficient length to achieve minimum embedment of 1.25" into concrete or masonry.

Through Fin Installation:

- A. For two by (2X) wood frame substrate, use **#10 Wood Screws** type wood frame anchors of sufficient length to achieve minimum embedment of 1.50" into wood framing

Refer to Installation Instructions (**EAS010**) for anchor spacing and more details of the installation requirements.

Design Pressure:

Design Pressure		
Glass Type	Size	DP
A	53" x 72"	+60/-80 PSF
B	53" x 77"	+80/-100 PSF

Glazing:

Type A: 0.46" OA laminated glass consisting of: 0.185" Heat Strengthened Glass - 0.090" Saflex Interlayer - 0.185" Annealed Glass

Type B: 0.464" OA laminated glass consisting of: 0.187" Heat Strengthened Glass - 0.090" Saflex Interlayer - 0.187" Heat Strengthened Glass



CertWorks ... it works

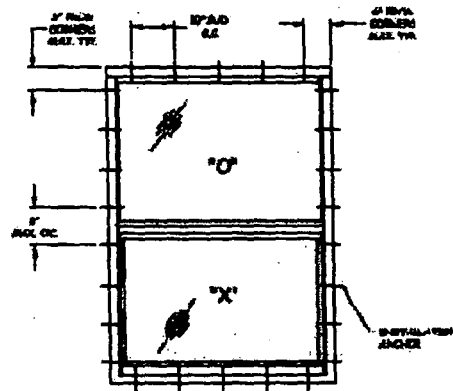
FBPE Certificate of Authorization No. 28520

FL#:
Date: 5/19/2011
Report No: 1325

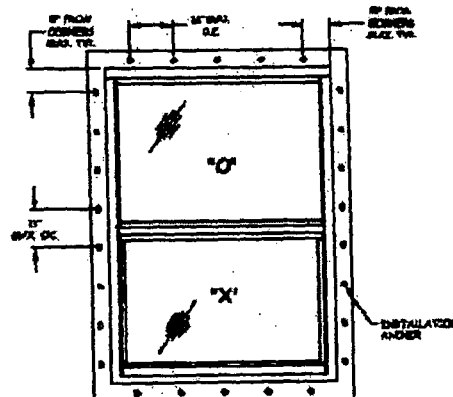
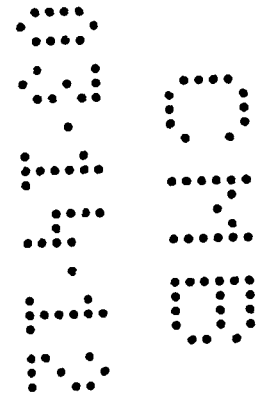
Installation Method

Eastern Architectural Systems, Inc.

Series FWI 1000 Single Hung Window



**ANCHOR LAYOUT
FLANGE**



**ANCHOR LAYOUT
FIN**

Alexis Spyrou, P.E.
Florida No. 68101
Page 5 of 5

Impact-mull



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,
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 PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

NOTICE: In addition to the requirement of this permit there may be additional restrictions applicable to this property that may be found in a Public Records of this County and the AHJ may 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 "PGT" Clipped Extruded Aluminum Tube Mullion - L.M.I.

APPROVAL DOCUMENT: Drawing No. 6300JR, titled "Impact-Resistant Aluminum Tube Mullions", sheets 1 through 22 of 22, prepared by manufacturer, dated 08/29/11, 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 # 10-0819.05 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

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



NOA No. 11-0922.01

Expiration Date: May 26, 2016

Approval Date: December 08, 2011

Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **6300JR**, titled "Impact-Resistant Aluminum Tube Mullions", sheets 1 through 22 of 22, prepared by manufacturer, dated 08/29/11, 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 202-94.
along with marked-up drawings and installation diagram of clipped aluminum mullions, prepared by Fenestration Testing Lab, Inc., Test Report No. **FTL 6443** (samples A-1 thru E-1), dated 02/28-11, and addendum letter dated 05/05/11, all signed and sealed by Marlin D. Brinson, P. E.
(Submitted under previous NOA #10-0819.05)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-2007** and **FBC-2010**, prepared by manufacturer, dated 09/20/11, signed and sealed by Anthony Lynn Miller, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

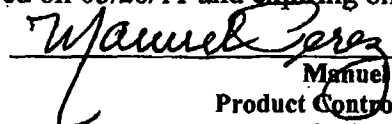
1. None.

F. STATEMENTS

1. Statement letter of conformance with the **FBC-2007** and **FBC-2010**, and no financial interest, dated June 06, 2011, signed and sealed by Anthony Lynn Miller, P.E.
2. Proposal # **10-1070-R** issued by BNC to PGT Industries, dated 01/07/11, signed by Ishaq I. Chanda, Product Control Examiner.

G. OTHER

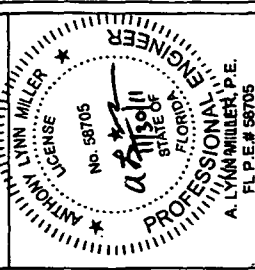
1. Notice of Acceptance No. **10-0819.05**, issued to PGT Industries, for their PGT Series Aluminum Clipped Mullion – L.M.I., approved on 05/26/11 and expiring on 05/26/16.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 11-0922.01
Expiration Date: May 26, 2016
Approval Date: December 08, 2011



PROJECT NO.	6300JR
DATE	08/29/11
DESIGNED BY	J. ROSOWSKI
CHECKED BY	N/A
DATE	08/29/11
PROJECT NAME	IMPACT-RESISTANT ALUMINUM TUBE MULLIONS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-000001
Expiration Date 12/31/2016
By: [Signature]
Miami-Dade Product Council



GENERAL NOTES	1
INSTRUCTIONS	1
ELEVATIONS	1
MULL TO 2X WOOD	2
MULL TO 1X & MASONRY	2
INSTALLATION NOTES	2
MULL TO MASONRY	3
MULL TO STEEL STUD	3
MULL TO MULLS	3
ANCHOR CLIPS	3
ALTERNATE CLIPS	4
DAY MULL INSTALLATION	4
1 X 2 X .125 MULL SPECS	5
1 X 2 X .375 MULL SPECS	6
1 X 2.75 X .375 MULL SPECS	7
1 X 2.75 X .50 MULL SPECS	8
1 X 3.125 X .50 MULL SPECS	9
1 X 4 X .125 MULL SPECS	10
1 X 4 X .375 MULL SPECS	11
1.25 X 3.125 X .253 MULL SPECS	12
2 X 4 X .125 MULL SPECS	13
2 X 4 X .375 MULL SPECS	14
1.25 X 2.11 X .125 MULL SPECS	15
30" X 3.25 BAY MULL SPECS	16
45" X 3.25 BAY MULL SPECS	17
MULLION & CLIP DIMENSIONS	18-20
EXAMPLES 1 & 2	21
LOADING EXAMPLES	22

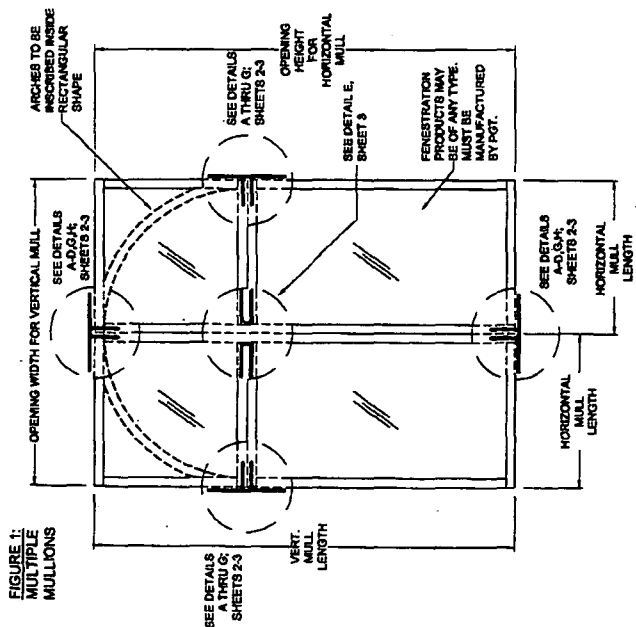
GENERAL NOTES:

- 1) DETAILS SHOWN ARE FOR THE MULLION ONLY. ANCHORS SHOWN ARE IN ADDITION TO ANY ANCHORS REQUIRED FOR THE FENESTRATION PRODUCT INSTALLATION. TYPICAL APPLICATIONS ARE SHOWN. EACH SITUATION IS UNIQUE AND SHOULD BE EVALUATED BY AN EXPERIENCED INSTALLER FOR THE BEST INSTALLATION METHOD. OPTIONAL 1X OR 2X WOOD BUCKS IF USED, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS AND ARE TO BE DESIGNED BY OTHERS.
- 2) THE TYPE AND NUMBER OF ANCHORS IS CRITICAL TO THE STRUCTURAL PERFORMANCE OF THE MULLION UNITS. MULLIONS HAVE BEEN TESTED AS "FREE-FLOATING" AND DO NOT NEED TO BE DIRECTLY ATTACHED TO THE MULLION CLIPS, BUT SHALL NOT HAVE A GAP OF MORE THAN 1/4" FROM THE CLIP.
- 3) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. MULLIONS ARE CALCULATED TO DEFLECT NO MORE THAN L/180. THE 1/3 STRESS INCREASE WAS NOT USED IN THIS ANCHOR EVALUATION. THE 1.8 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF WOOD SCREWS.
- 4) PROPER SEALING OF ENTIRE ASSEMBLY IS THE RESPONSIBILITY OF OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- 5) USE THE COMBINED WIDTH OR HEIGHT OF ONLY TWO ADJACENT FENESTRATION PRODUCTS TO DETERMINE PRESSURES AND ANCHORAGE FOR THE COMMON MULLION. SEE EXAMPLES ON THIS SHEET AND SHEET 21. FOR MULTIPLE UNITS, CONSIDER ONLY TWO ADJACENT UNITS AT A TIME WHEN USING THE DESIGN PRESSURE AND ANCHORAGE TABLES. THE LOWEST DESIGN PRESSURE OF MULTIPLE MULLIONS OR FENESTRATION PRODUCTS SHALL APPLY.
- 6) WHEN FINDING YOUR SIZE IN THE MULLION TABLES, ALWAYS ROUND UP TO THE NEXT SIZE SHOWN ON THE TABLE(S).
- 7) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE. ANCHORS SHALL BE COATED OR CORROSION RESISTANT AS APPROPRIATE FOR SUBSTRATE MATERIAL. DISSIMILAR MATERIALS SHALL BE PROTECTED AS REQUIRED TO PREVENT REACTIONS.
- 8) REFERENCE: TEST REPORTS: FTL-6443; ELCO ULTRACON/AGGRE-GATOR NOVA; ANSIF/AFPA NDS FOR WOOD CONSTRUCTION; AIA-ALUMINUM DESIGN MANUAL
- 9) MULLIONS AND CLIPS HAVE BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, AND ARE APPROVED FOR IMPACT AND NON-IMPACT APPLICATIONS. MULLIONS ARE ONLY TO BE USED WITH POST-APPROVED FENESTRATION PRODUCTS HAVING CURRENT APPROVALS.
- 10) MULLIONS ARE IN COMPLIANCE FOR USE IN THE IWHZ.

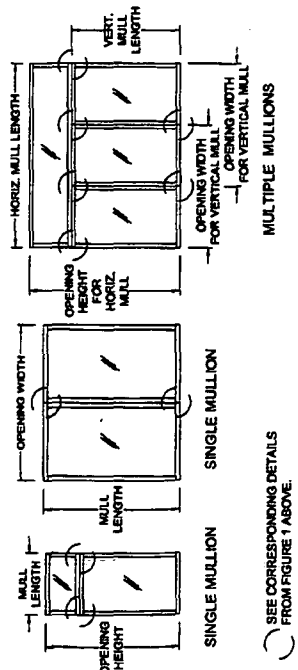
INSTRUCTIONS:

- 1) DETERMINE THE DESIGN PRESSURE REQUIREMENT (LBS/FT²) FOR THE OPENING USING THE ASCE-7 STANDARD.
- 2) CHOOSE A MULLION TYPE THAT WILL FIT THE DEPTH OF THE FENESTRATION PRODUCTS FRAME DEPTH.
- 3) REFER TO SHEET 22 TO DETERMINE IF THE WIND LOADING IS "RECTANGULAR" OR "TRIANGULAR/TRAPEZOIDAL".
- 4) FIND THE CHOSEN MULLION'S MULLION CAPACITY (LBS/FT²) FROM TABLES 1A THROUGH 13A, ON SHEETS 6 THROUGH 17 RESPECTIVELY. USING THE MULLION TYPE, LENGTH AND OPENING WIDTH OR HEIGHT (DEPENDS IF THE MULLION IS SPANNING VERTICALLY OR HORIZONTALLY). THE MULLION CAPACITY (LBS/FT²) OBTAINED SHALL MEET OR EXCEED THE DESIGN PRESSURE REQUIREMENT (LBS/FT²) FOR THE OPENING OBTAINED IN STEP 1).
- 5) FROM THE SAME TABLE USED IN STEP 4) ABOVE, FIND THE VALUE IN THE NEXT COLUMN ANCHOR CAPACITY REQUIRED (LBS). THIS VALUE REPRESENTS THE WINDLOAD TRANSFERRED TO THE SUBSTRATE BY THE ANCHORS AND MUST BE MET TO ATTAIN THE FULL MULLION CAPACITY.
- 6) FROM THE ANCHOR CAPACITY (LBS) TABLE ON THE SAME SHEET AND USING YOUR ACTUAL SUBSTRATE CONDITION (MULTIPLE ANCHOR/SUBSTRATE/ANCHOR-CLIP PATTERN MAY APPLY) SELECT AN ANCHOR CLIP PATTERN AND VERIFY THAT THE REQUIRED ANCHOR CAPACITY IS MET.
- 7) IF THE MULLION CAPACITY (LBS/FT²) OBTAINED IN THE TABLE IS HIGHER THAN THE DESIGN PRESSURE REQUIREMENT (LBS/FT²) FOR THE OPENING, YOU MAY USE THE "ANCHOR CAPACITY ADJUSTMENT FORMULA" TO OBTAIN THE LOWER ANCHOR CAPACITY REQUIRED. WITH THIS VALUE, A LOWER ANCHOR CAPACITY OPTION MAY BE SELECTED FOR THE SAME SUBSTRATE.
- 8) VERIFY THE DESIGN PRESSURE RATING (LBS/FT²) FOR THE FENESTRATION PRODUCT TO BE USED AND COMPARE WITH THE FINAL MULLION CAPACITY (LBS/FT²) OBTAINED FOR THE MULLION SYSTEM. THE LOWER OF THE TWO SHALL APPLY FOR THE ENTIRE MULLION FENESTRATION PRODUCT ASSEMBLY.
- 9) HIGHLIGHT OPTION USED AND TABLE VALUES USED IN A SPECIFIC APPLICATION WHEN USING THIS NOA TO APPLY FOR A PERMIT.

SUITABLE FOR ALL LOCATIONS REQUIRING NON-IMPACT OR LARGE AND SMALL MISSILE IMPACT-RESISTANT PRODUCTS



ADDITIONAL EXAMPLES OF MULL CONFIGURATIONS:



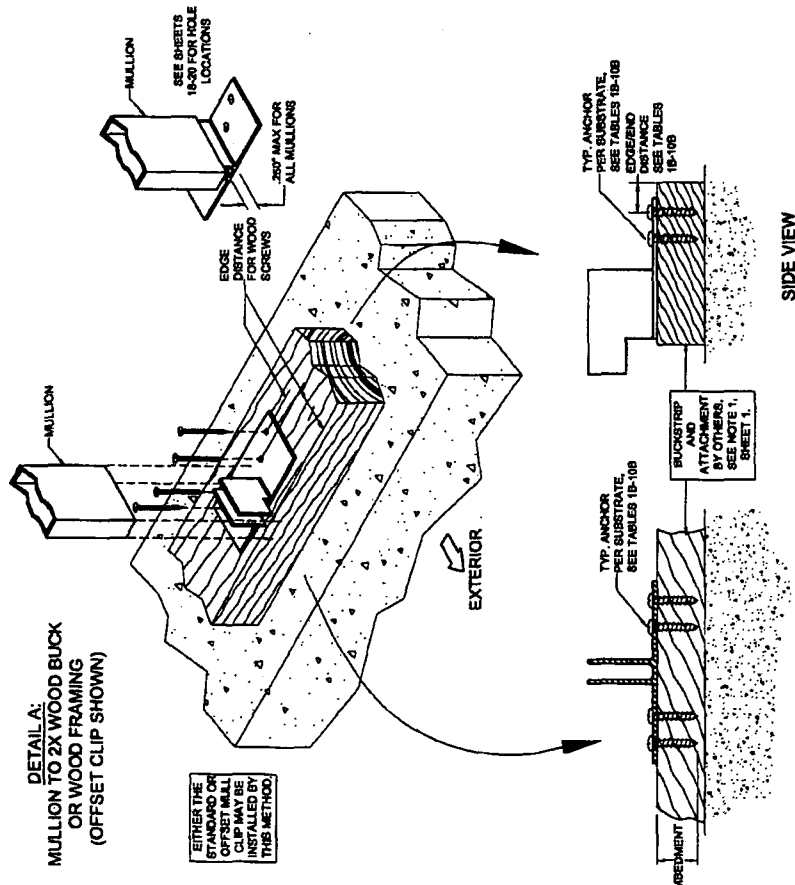
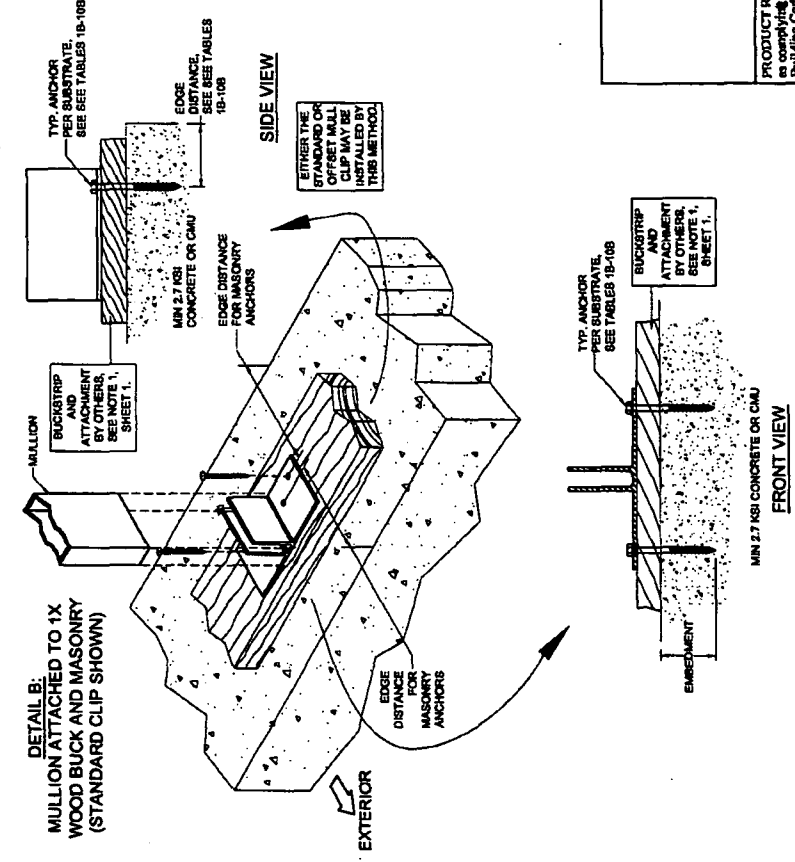
SEE CORRESPONDING DETAILS FROM FIGURE 1 ABOVE.

1020 TECHNOLOGY DRIVE
M. VANCE, P.E. #24275
P.O. BOX 1528
MARIETTA, GA 30067
F.L. CERT. OF AUTH. #20298

IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
INSTALLATION INSTRUCTIONS A
Drawing No. 6300JR
Scale: N/A
Date: 08/29/11
Checked By: J. ROSOWSKI
Rev. 2 of 22

PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 14-00000
Expiration Date 10/31/2016
By: *Handwritten Signature*
Miami Data Product Company

ANTHONY MILLER
LICENSE
No. 58705
11/3/04
FLORIDA
STATE OF
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E. # 68705



- INSTALLATION NOTES:**
- 1) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
 - 2) QUANTITY OF ANCHORS AND MULLION SIZE SHOWN ABOVE ARE FOR PICTORIAL REPRESENTATION ONLY. BECAUSE THE ANCHOR CAPACITY IS BASED PARTLY ON THE ANCHOR TO ANCHOR DISTANCE, THE CORRECT QUANTITY AND LOCATION OF ANCHORS MUST BE FOLLOWED, REFER TO THE TABLES ON THE FOLLOWING SHEETS. FOR DETAILS A-D, EITHER THE STANDARD OR INTERIOR CLIP MAY BE USED.
 - 3) ANCHOR HEAD TYPE MAY BE PANHEAD, HEX-HEAD OR FLATHEAD.
 - 4) WOOD BUCKS ARE OPTIONAL, SEE DETAIL C, SHEET 3.
 - 5) FOR MASONRY APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ELCO UL-TRACON OR ELCO 1/4\" S.S. AGGREGATOR MASONRY ANCHORS.

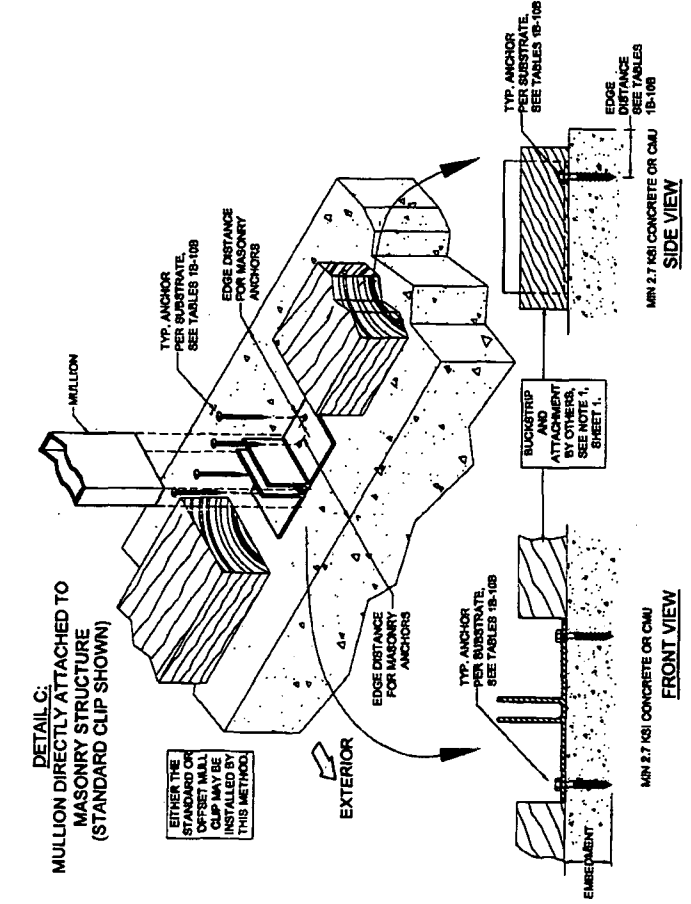
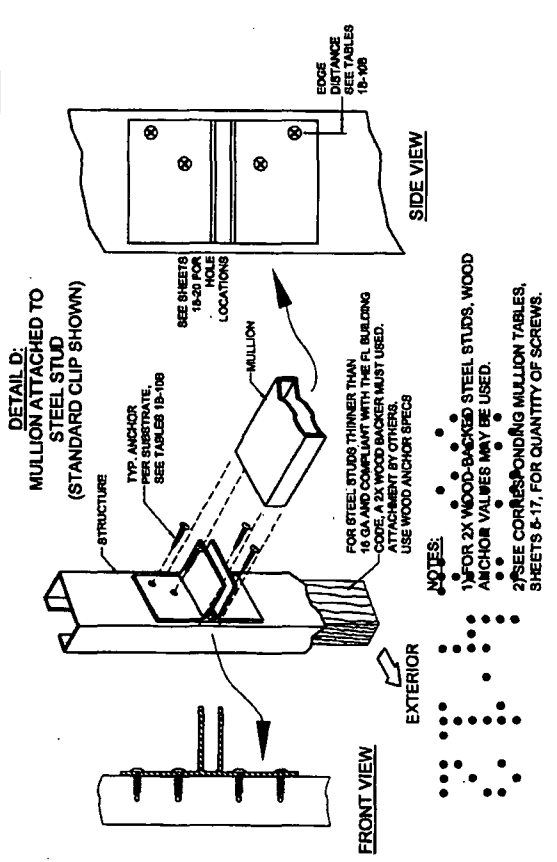
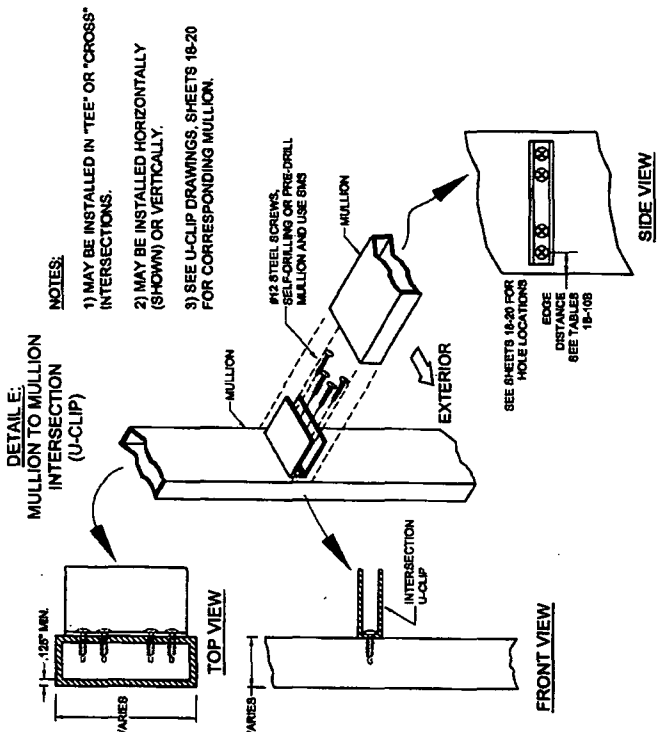
34100

34100

PROJECT: 1000 TECHNOLOGY DRIVE MIAMI, FL 33127 DATE: 08/28/11 DRAWN BY: J. ROSOWSKI CHECKED BY: N/A SCALE: N/A SHEET: 3 OF 22 PROJECT NO: 6300JR TITLE: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS	
---	--

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 11-0979.01
 Expiration Date 11-15-2016
 By: *Matthew Perry*
 Miami Dade Product Council

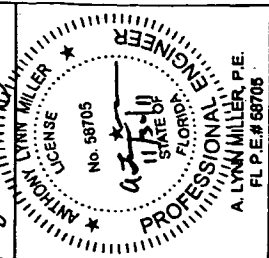
ANTHONY LYNN MILLER
 LICENSE
 No. 58705
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 A. LYNN MILLER, P.E.
 FL P.E. # 58705



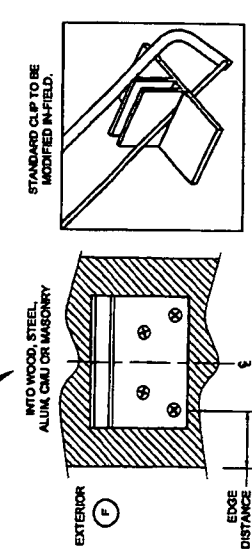
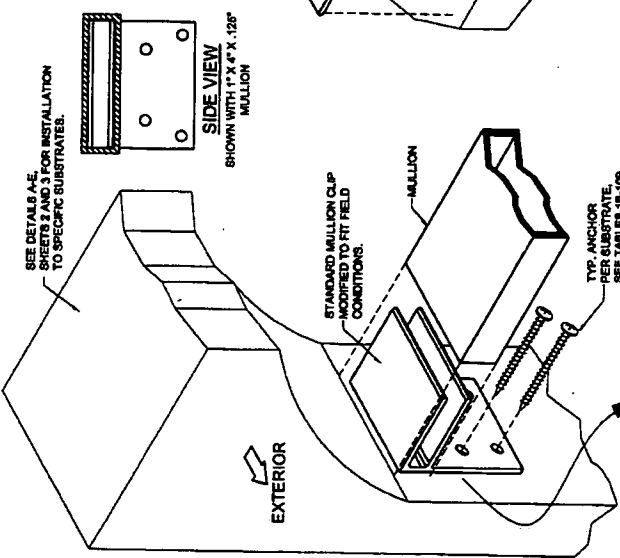
- INSTALLATION NOTES:**
- 1) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
 - 2) QUANTITY OF ANCHORS AND MULLION SIZE SHOWN ABOVE ARE FOR PICTORIAL REPRESENTATION ONLY. BECAUSE THE ANCHOR CAPACITY IS BASED PARTLY ON THE ANCHOR TO ANCHOR DISTANCE, THE CORRECT QUANTITY AND LOCATION OF ANCHORS MUST BE FOLLOWED. REFER TO THE TABLES ON THE FOLLOWING SHEETS. FOR DETAILS A-D, EITHER THE STANDARD OR INTERIOR CLIP MAY BE USED.
 - 3) ANCHOR HEAD TYPE MAY BE PANHEAD, HEXHEAD OR FLATHEAD.
 - 4) WOOD BUCKS ARE OPTIONAL. SEE DETAIL C, SHEET 3.
 - 5) FOR MASONRY APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ELCO ULTRACON OR ELCO 1/4" S.S. AGGREGATOR MASONRY ANCHORS.

3340

IMPACT-RESISTANT ALUMINUM TUBE MULLIONS INSTALLATION INSTRUCTIONS C		Drawing No. 6300JR Date: 08/29/11 Checked By: J. ROSOWSKI Design By: J. ROSOWSKI	Scale: N/A Project: N/A
1070 TECHNICAL DRAFT A. LYNN MILLER, P.E. 1400 BOX 1528 MORGAN, FL 34274 P.O. CERT. OF AUTH. # 22228		PRODUCT REVISED In compliance with the Florida Building Code Amendment No. 11090001 Effective Date 11/01/2016 By: <i>[Signature]</i> Michael J. Miller, P.E. Michael J. Miller Engineering	



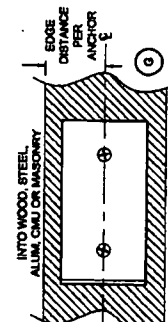
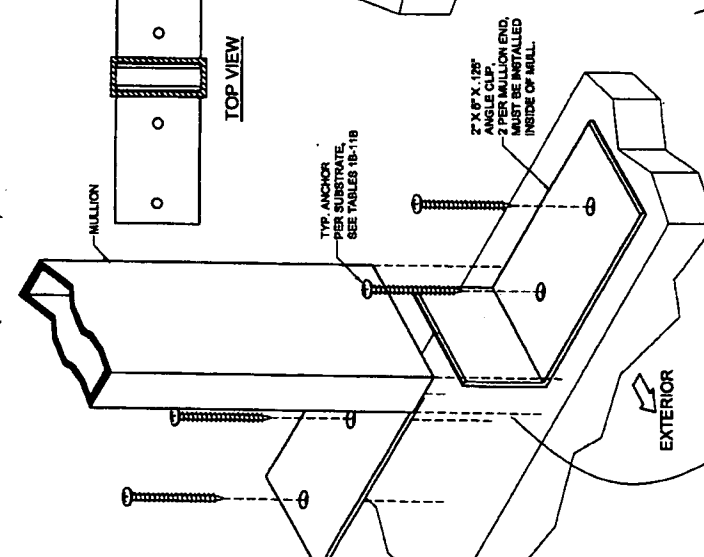
DETAIL F:
FIELD-MODIFIED MULLION CLIP
(F-CLIP)



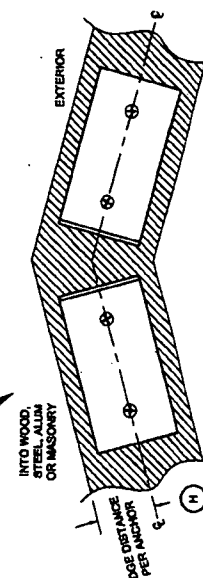
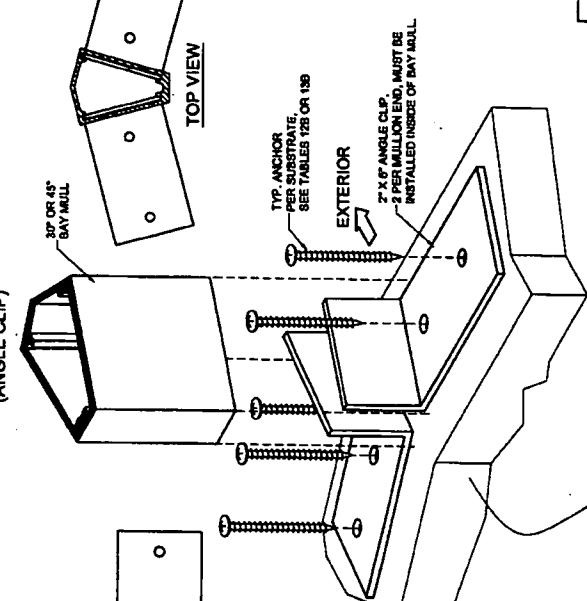
NOTES FOR INSTALLATION OPTIONS F:

- 1) DETAIL IS NOT APPLICABLE FOR THE BAY OR 1.28" X 2.11" X .125" MULLION.
- 2) SEE TABLES 1B-10B FOR ANCHOR QUANTITIES AND SHEETS 1B-20 FOR HOLE LOCATIONS.
- 3) THE 2X6 CLIP IS NOT SUITABLE FOR THIS APPLICATION.

DETAIL G:
ANGLE MULLION CLIP
(ANGLE CLIP)

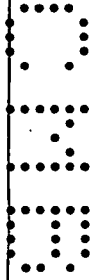
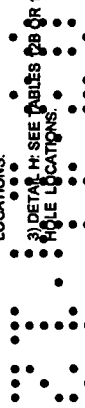


DETAIL H:
BAY MULLION INSTALLATION
(ANGLE CLIP)



NOTES FOR INSTALLATION OPTIONS G & H:

- 1) USE 2 ANGLE CLIPS PER MULLION END. CLIPS MUST BE INSERTED INSIDE OF MULLION.
- 2) DETAIL G: SEE TABLES 1B-11B FOR ANCHOR QUANTITIES AND SHEETS 1B-20 FOR HOLE LOCATIONS.
- 3) DETAIL H: SEE TABLES 1B-13B FOR ANCHOR QUANTITIES AND SHEETS 1B-20 FOR HOLE LOCATIONS.



IMPACT-RESISTANT ALUMINUM TUBE MULLIONS		Description		1 X 2 X .125 MULL SPECS		Stock		6300JR		Date		5/4/22	
				Scale		N/A		Drawing file		Checked by		Date	
				J ROSOWSKI		08/29/11		Fabricate					

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{\text{min}}) \times \left(\frac{\text{ANCHOR CAP. (MINIMUM)}}{\text{MULLION CAP. (MINIMUM)}} \right) = \text{ANCHOR CAP. (MINIMUM)}$$

USE THIS FORMULA TO OBTAIN THE 'ANCHOR CAPACITY REQUIRED' CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

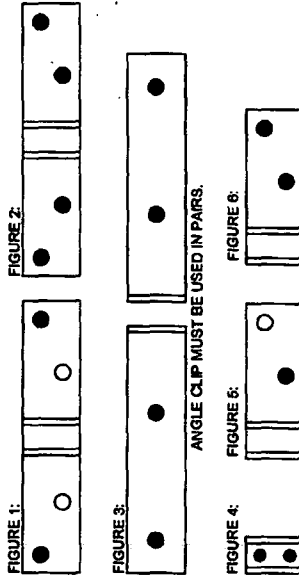
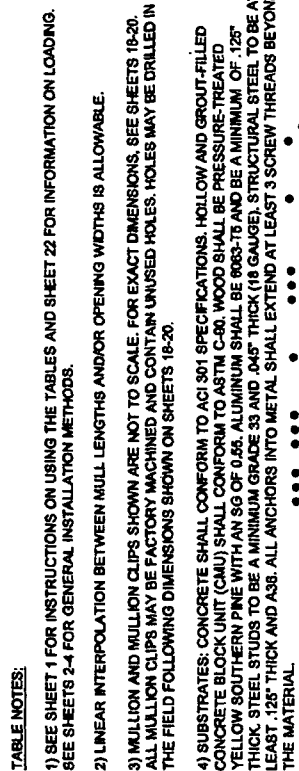
[illegible]

TABLE 2A

1 x 2 x .375 Alum. Tube Mullion	Opening Width (for vertically-spanning mullions) or Opening Height (for horizontally-spanning mullions)											
	50 in		60 in		70 in		80 in		90 in		100 in	
	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading
42 in	170.0	430	151.3	682	170.0	478	128.7	607	100.7	453	78.0	607
48 in	124.8	507	138.0	418	101.4	507	119.2	410	86.8	371	74.1	458
50.025 in	103.7	458	114.8	370	86.4	458	89.8	371	66.4	354	64.8	458
54 in	65.4	400	83.3	336	71.2	400	69.9	336	61.0	400	72.7	336
60 in	42.3	324	65.9	276	51.9	324	47.5	270	44.5	324	51.2	284
63 in	32.8	244	57.4	252	44.9	244	40.2	240	38.4	244	43.6	241
66 in	26.8	200	46.8	200	39.0	200	35.4	200	33.4	200	37.6	221
72 in	20.0	160	37.9	160	30.2	160	27.2	160	25.2	160	29.2	160
76 in	16.0	120	31.0	120	25.2	120	22.2	120	20.2	120	24.2	120
78 in	14.0	108	28.8	108	23.8	108	21.2	108	19.2	108	22.2	108
80 in	12.0	96	24.0	96	19.2	96	17.2	96	15.2	96	18.2	96
84 in	10.0	84	20.0	84	16.0	84	14.0	84	12.0	84	15.0	84
90 in	8.0	72	16.0	72	12.0	72	10.0	72	8.0	72	11.0	72
96 in	6.0	60	12.0	60	8.0	60	6.0	60	4.0	60	7.0	60

TABLE 2B

Anchor Clip Patterns	Anchor Capacity Table (lbs)											
	2.7K Concrete				Hollow CMU				Fired CMU			
	Substrate	Anchor Type	Edge Distance (in)	Embedment (in)	Substrate	Anchor Type	Edge Distance (in)	Embedment (in)	Substrate	Anchor Type	Edge Distance (in)	Embedment (in)
2 Anchors @ 4.75" Min. O.C. / Standard or Offset Clip (Pgs. 32, 33)	2.7K Concrete	1/4" E-clip Unreinforced	1" - 3-1/2"	5-3/4"	1/4" E-clip Unreinforced	1/4" E-clip Unreinforced	1" - 3-1/2"	5-3/4"	1/4" E-clip Unreinforced	1/4" E-clip Unreinforced	1" - 3-1/2"	5-3/4"
4 Anchors @ 1.16" Min. O.C. / Standard (or Offset) Clip (Pgs. 32, 33)	2.7K Concrete	1/4" E-clip Unreinforced	1" - 3-1/2"	5-3/4"	1/4" E-clip Unreinforced	1/4" E-clip Unreinforced	1" - 3-1/2"	5-3/4"	1/4" E-clip Unreinforced	1/4" E-clip Unreinforced	1" - 3-1/2"	5-3/4"
4 Anchors @ 1.16" Min. O.C. / 2x2x4 Angle Clip / Pgs. 32, 33	2.7K Concrete	1/4" E-clip Unreinforced	1" - 3-1/2"	5-3/4"	1/4" E-clip Unreinforced	1/4" E-clip Unreinforced	1" - 3-1/2"	5-3/4"	1/4" E-clip Unreinforced	1/4" E-clip Unreinforced	1" - 3-1/2"	5-3/4"
2 Anchors @ 0.45" Min. O.C. / U-clip, into 1/4" Alum. (Pgs. 42, 43)	2.7K Concrete	1/4" E-clip Unreinforced	1" - 3-1/2"	5-3/4"	1/4" E-clip Unreinforced	1/4" E-clip Unreinforced	1" - 3-1/2"	5-3/4"	1/4" E-clip Unreinforced	1/4" E-clip Unreinforced	1" - 3-1/2"	5-3/4"
2 Anchors @ 1.16" Min. O.C. / F-clip (Pgs. 61, 62)	2.7K Concrete	1/4" E-clip Unreinforced	1" - 3-1/2"	5-3/4"	1/4" E-clip Unreinforced	1/4" E-clip Unreinforced	1" - 3-1/2"	5-3/4"	1/4" E-clip Unreinforced	1/4" E-clip Unreinforced	1" - 3-1/2"	5-3/4"
2 Anchors @ 1.16" Min. O.C. / F-clip (Pgs. 61, 62)	2.7K Concrete	1/4" E-clip Unreinforced	1" - 3-1/2"	5-3/4"	1/4" E-clip Unreinforced	1/4" E-clip Unreinforced	1" - 3-1/2"	5-3/4"	1/4" E-clip Unreinforced	1/4" E-clip Unreinforced	1" - 3-1/2"	5-3/4"

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

FIGURE 1:

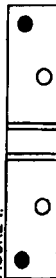


FIGURE 2:

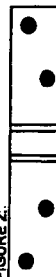


FIGURE 3:



FIGURE 4:

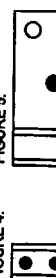


FIGURE 5:



FIGURE 6:



ANGLE CLIP MUST BE USED IN PAIRS.

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$(DP_{m}) \times (\text{ANCHOR CAP.}_{\text{TABLE}}) = \text{ANCHOR CAP.}_{\text{ADJ.}}$
 USE THIS FORMULA TO OBTAIN THE 'ANCHOR CAP. ADJ.' CAPACITY REQUIRED CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

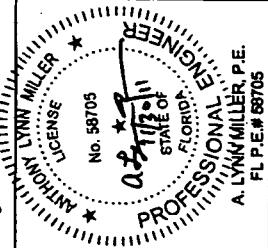
1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 22 FOR INFORMATION ON LOADING.
 SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 18-20.
 ALL MULLION CLIPS MAY BE FACTORY MACHINED AND CONTAIN UNUSED HOLES. HOLES MAY BE DRILLED IN THE FIELD FOLLOWING DIMENSIONS SHOWN ON SHEETS 18-20.

4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE SOUTHERN PINE (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL BE PRESSURE-TREATED YELLOW SOUTHERN PINE WITH AN SG OF 0.65. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .125" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST 125" THICK AND A36. ALL ANCHORS SHALL BE MINIMUM 1/4" DIA. STEEL BARS.

PRODUCT REVIEWED
 as complying with the Florida
 Building Code
 Inspection Date: 11/29/2011
 By: [Signature]
 Miami Trade Products Company



IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
 1 X 2 X .375 MULL. SPECS
 N/A
 08/29/11
 6300JR
 6 of 22
 100% TENSILE STRENGTH
 N. VERDE, FL 34778
 P.O. BOX 1529
 MONROE, FL 34774
 FL CERT. OF AUTH. 20206

TABLE 4A

Mullion Capacity Table (Beam)	Opening Width (for vertically-spacing mullions) or Opening Height (for horizontally-spacing mullions)											
	60 in			70 in			80 in			100 in		
	Rectangular Loading	Triangular Loading	Anchor Capacity (lb)	Rectangular Loading	Triangular Loading	Anchor Capacity (lb)	Rectangular Loading	Triangular Loading	Anchor Capacity (lb)	Rectangular Loading	Triangular Loading	Anchor Capacity (lb)
1 x 2.75 x .650 Alum. Tube Mullion												
43 in	170.0	620	170.0	430	170.0	744	170.0	850	170.0	478	170.0	850
48 in	170.0	706	170.0	624	170.0	850	170.0	964	170.0	651	170.0	964
50.025 in	170.0	747	170.0	665	170.0	890	170.0	1004	170.0	691	170.0	1004
54 in	170.0	797	170.0	715	170.0	940	170.0	1054	170.0	741	170.0	1054
60 in	170.0	885	170.0	791	170.0	1015	170.0	1129	170.0	817	170.0	1129
65 in	170.0	935	170.0	841	170.0	1065	170.0	1179	170.0	867	170.0	1179
68 in	170.0	975	170.0	881	170.0	1105	170.0	1219	170.0	907	170.0	1219
72 in	170.0	1015	170.0	921	170.0	1145	170.0	1259	170.0	947	170.0	1259
78 in	170.0	1055	170.0	961	170.0	1185	170.0	1299	170.0	987	170.0	1299
80 in	170.0	1065	170.0	971	170.0	1195	170.0	1309	170.0	997	170.0	1309
88 in	170.0	1085	170.0	991	170.0	1215	170.0	1329	170.0	1017	170.0	1329
90 in	170.0	1095	170.0	1001	170.0	1225	170.0	1339	170.0	1027	170.0	1339
98 in	170.0	1115	170.0	1021	170.0	1245	170.0	1359	170.0	1047	170.0	1359
100 in	170.0	1125	170.0	1031	170.0	1255	170.0	1369	170.0	1057	170.0	1369
110 in	170.0	1145	170.0	1051	170.0	1275	170.0	1389	170.0	1077	170.0	1389
120 in	170.0	1165	170.0	1071	170.0	1295	170.0	1409	170.0	1097	170.0	1409

TABLE 4B

Anchor Clip Patterns	Anchor Capacity Table (lb)											
	3/8" Conc.			1/2" Elco Unrein.			1/2" Elco Unrein.			1/2" Elco Unrein.		
	Edge Distance (in)	Embedment (in)	Anchor Type	Edge Distance (in)	Embedment (in)	Anchor Type	Edge Distance (in)	Embedment (in)	Anchor Type	Edge Distance (in)	Embedment (in)	Anchor Type
2 Anchors @ 4 1/8" Min. O.C. / Standard for Offset Clip (Fig. 1)	1 1/2"	1 1/2"	1/4" Elco Unrein.	1 1/2"	1 1/2"	1/4" Elco Unrein.	1 1/2"	1 1/2"	1/4" Elco Unrein.	1 1/2"	1 1/2"	1/4" Elco Unrein.
4 Anchors @ 1 1/8" Min. O.C. / Standard for Offset Clip (Fig. 2)	1 1/2"	1 1/2"	1/4" Elco Unrein.	1 1/2"	1 1/2"	1/4" Elco Unrein.	1 1/2"	1 1/2"	1/4" Elco Unrein.	1 1/2"	1 1/2"	1/4" Elco Unrein.
4 Anchors @ 2" Min. O.C. / 2" Sp. Angle Clips (Fig. 3)	1 1/2"	1 1/2"	1/4" Elco Unrein.	1 1/2"	1 1/2"	1/4" Elco Unrein.	1 1/2"	1 1/2"	1/4" Elco Unrein.	1 1/2"	1 1/2"	1/4" Elco Unrein.
2 Anchors @ 0.45" Min. O.C. / U-Clip (Fig. 4)	1 1/2"	1 1/2"	1/4" Elco Unrein.	1 1/2"	1 1/2"	1/4" Elco Unrein.	1 1/2"	1 1/2"	1/4" Elco Unrein.	1 1/2"	1 1/2"	1/4" Elco Unrein.
1 Anchor / F-Clip (Fig. 5)	1 1/2"	1 1/2"	1/4" Elco Unrein.	1 1/2"	1 1/2"	1/4" Elco Unrein.	1 1/2"	1 1/2"	1/4" Elco Unrein.	1 1/2"	1 1/2"	1/4" Elco Unrein.
2 Anchors @ 1 1/8" Min. O.C. / P-Clip (Fig. 6)	1 1/2"	1 1/2"	1/4" Elco Unrein.	1 1/2"	1 1/2"	1/4" Elco Unrein.	1 1/2"	1 1/2"	1/4" Elco Unrein.	1 1/2"	1 1/2"	1/4" Elco Unrein.

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

FIGURE 1:



FIGURE 2:

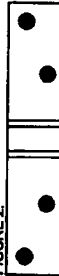


FIGURE 3:



ANGLE CLIP MUST BE USED IN PAIRS.

FIGURE 4:

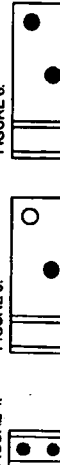


FIGURE 5:



FIGURE 6:



ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{\text{min}}) \times (\text{ANCHOR CAP.} \times \frac{1000}{\text{ANCHOR CAP.}}) = \text{ANCHOR CAP.}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 22 FOR INFORMATION ON LOADING.

2) SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

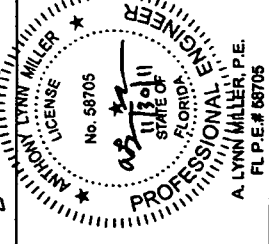
3) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

4) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 18-20. ALL MULLION CLIPS MAY BE FACTORY MACHINED AND CONTAIN UNUSED HOLES. HOLES MAY BE DRILLED IN THE FIELD FOLLOWING DIMENSIONS SHOWN ON SHEETS 18-20.

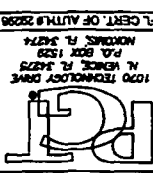
5) SUBSTRATE: CONCRETE SHALL CONFORM TO AC 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL BE PRESSURE-TREATED YELLOW SOUTHERN PINE WITH AN SG OF 0.06. ALUMINUM SHALL BE 6063-T6 AND BE A MINIMUM OF .125" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 36 SCREW THREADS BEYOND THE MATERIAL.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-09-001
Expiration Date 12/31/2014

By: *[Signature]*
Manufactured Product Company



IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
1 x 2.75 x .650 MULL SPECS
Checked By: N/A
Date: 08/29/11
Drawing No: 6300JR
Scale: 8 x 22
1020 TECHNICAL DRAFT
K. WHITE, P.E. 34775
INCHES 1/4" = 1'-0"



IMPACT-RESISTANT ALUMINUM TUBE MULLIONS

1 X 3.125 X .5 MULL SPECS

Product: 6300JR

Rev: 9 of 22

Date: 08/29/11

Drawn By: J. ROSOWSKI

Checked By: N/A

Scale: N/A

Rev: N/A

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 11-0372-01 Engineering Two Year Expiration Date 11/30/11

By: [Signature]

ANTHONY LYNN MILLER, P.E. No. 58705 STATE OF FLORIDA

PROFESSIONAL ENGINEER

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

TABLE 5A Mullion Capacity Table (lb/ft)

Mullion Capacity Table (Built)																						
Opening Width (for vertically-spacing mullions) or Opening Height (for horizontally-spacing mullions)																						
1" x 3.125" x .500" Alum Tube Mull	50 in			70 in			90 in			100 in			120 in			140 in			160 in			
	Rectangular Loading (lb/ft ²)	Tripping Loading (lb/ft)	Anchor Capacity (lb/ft ²)	Rectangular Loading (lb/ft ²)	Tripping Loading (lb/ft)	Anchor Capacity (lb/ft ²)	Rectangular Loading (lb/ft ²)	Tripping Loading (lb/ft)	Anchor Capacity (lb/ft ²)	Rectangular Loading (lb/ft ²)	Tripping Loading (lb/ft)	Anchor Capacity (lb/ft ²)	Rectangular Loading (lb/ft ²)	Tripping Loading (lb/ft)	Anchor Capacity (lb/ft ²)	Rectangular Loading (lb/ft ²)	Tripping Loading (lb/ft)	Anchor Capacity (lb/ft ²)	Rectangular Loading (lb/ft ²)	Tripping Loading (lb/ft)	Anchor Capacity (lb/ft ²)	
42 in	170.0	620	170.0	650	170.0	500	170.0	660	170.0	500	170.0	660	170.0	740	170.0	650	170.0	740	170.0	650	170.0	620
48 in	170.0	700	170.0	520	170.0	600	170.0	690	170.0	630	170.0	1150	170.0	680	170.0	630	170.0	1150	170.0	680	170.0	690
50, 60 in	170.0	740	170.0	580	170.0	1040	170.0	690	170.0	720	170.0	1340	170.0	740	170.0	1460	170.0	750	170.0	1460	170.0	750
54 in	170.0	790	170.0	610	170.0	1110	170.0	750	170.0	1270	670	1440	170.0	800	170.0	1500	170.0	830	170.0	1500	170.0	830
60 in	170.0	860	170.0	670	170.0	1260	170.0	830	170.0	1470	730	1580	170.0	870	170.0	1640	170.0	900	170.0	1640	170.0	900
63 in	170.0	900	170.0	700	170.0	1370	170.0	860	170.0	1560	760	1680	170.0	930	170.0	1700	170.0	960	170.0	1700	170.0	960
66 in	168.0	960	170.0	760	170.0	1500	170.0	920	170.0	1710	820	1800	170.0	1000	170.0	1800	170.0	1030	170.0	1800	170.0	1030
72 in	126.0	900	134.0	900	170.0	1620	170.0	910	170.0	1800	880	1940	170.0	1060	170.0	1940	170.0	1090	170.0	1940	170.0	1090
78 in	104.0	720	114.0	690	170.0	1720	170.0	970	170.0	1850	940	2020	170.0	1100	170.0	2020	170.0	1130	170.0	2020	170.0	1130
80 in	68.0	514	67.0	430	54.0	514	57.0	440	41.0	514	50.0	460	41.0	514	48.0	514	50.0	460	41.0	514	48.0	514
96 in	64.0	64.0	65.0	40.0	46.0	390	53.0	460	390	53.0	460	390	53.0	460	390	53.0	460	390	53.0	460	390	53.0
108 in	36.0	357	36.0	322	31.0	357	32.0	357	26.0	312	23.0	357	26.0	312	23.0	357	26.0	312	23.0	357	26.0	312
114 in	35.0	350	35.0	300	29.0	340	30.0	340	25.0	330	25.0	340	25.0	330	25.0	340	25.0	330	25.0	340	25.0	330
120 in	27.0	260	26.0	230	23.0	260	23.0	260	19.0	260	17.0	260	19.0	260	17.0	260	19.0	260	17.0	260	19.0	260

TABLE 5B Anchor Capacity Table (lbs)

Anchor Clip Patterns	Substrate											
	3.1K Concrete	4.1K Concrete	5.1K Concrete	6.1K Concrete	7.1K Concrete	8.1K Concrete	9.1K Concrete	10.1K Concrete	11.1K Concrete	12.1K Concrete	13.1K Concrete	14.1K Concrete
2 Anchors @ 4.1K Min. O.C. / Standard Clip (Fig. 1)	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
4 Anchors @ 4.1K Min. O.C. / Standard Clip (Fig. 2)	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
4 Anchors @ 5.1K Min. O.C. / 2nd Angle Clip (Fig. 3)	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
3 Anchors @ 4.1K Min. O.C. / U-Clip into 1/2" Alum. Fila. G. (Fig. 4)	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
2 Anchors @ 4.1K Min. O.C. / F-Clip (Fig. 5)	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
2 Anchors @ 4.1K Min. O.C. / F-Clip (Fig. 6)	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

TABLE 5C Anchor Capacity Table (lbs)

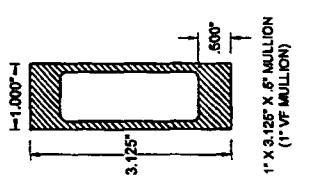
Anchor Clip Patterns	Substrate											
	3.1K Concrete	4.1K Concrete	5.1K Concrete	6.1K Concrete	7.1K Concrete	8.1K Concrete	9.1K Concrete	10.1K Concrete	11.1K Concrete	12.1K Concrete	13.1K Concrete	14.1K Concrete
2 Anchors @ 4.1K Min. O.C. / Standard Clip (Fig. 1)	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
4 Anchors @ 4.1K Min. O.C. / Standard Clip (Fig. 2)	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
4 Anchors @ 5.1K Min. O.C. / 2nd Angle Clip (Fig. 3)	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
3 Anchors @ 4.1K Min. O.C. / U-Clip into 1/2" Alum. Fila. G. (Fig. 4)	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
2 Anchors @ 4.1K Min. O.C. / F-Clip (Fig. 5)	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
2 Anchors @ 4.1K Min. O.C. / F-Clip (Fig. 6)	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

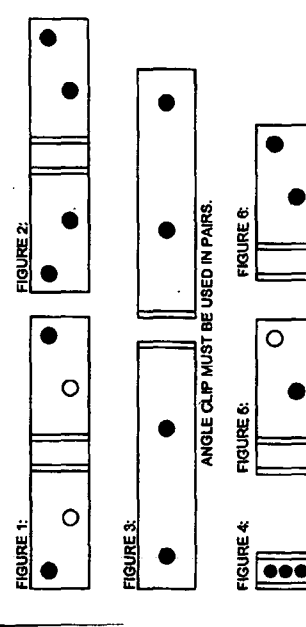
ANCHOR CAPACITY ADJUSTMENT FORMULA:

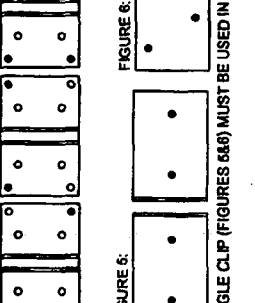
$(OP_{min}) \times (\text{ANCHOR CAP.}_{min}) = \text{ANCHOR CAP.}_{adj}$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE SELECTED CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.



- TABLE NOTES:
- SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 22 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.
 - LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.
 - MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 18-20. ALL MULLION CLIPS MAY BE FACTORY MACHINED AND CONTAIN UNUSED HOLES. HOLES MAY BE DRILLED IN THE FIELD FOLLOWING DIMENSIONS SHOWN ON SHEETS 18-20.
 - SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL BE PRESSURE-TREATED YELLOW SOUTHERN PINE WITH AN SG OF 0.85. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .125" THICK. STEEL STUDS TO BE A MINIMUM GRADE 55 AND .063" THICK (3/16 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL.



[illegible]

○
三
○

TABLE 7A

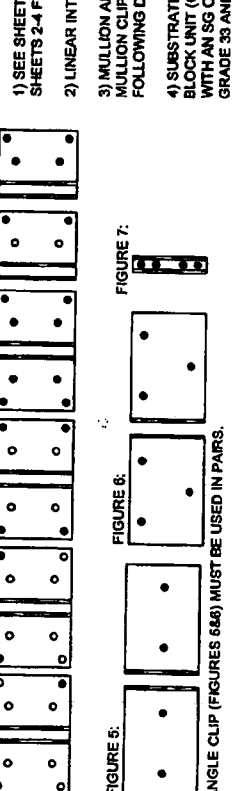
Mullion Length	Opening Width (for vertically-spanning mullions) or Opening Height (for horizontally-spanning mullions)											
	50 in			60 in			70 in			80 in		
	Rectangular Loading	Triangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Triangular Loading
1 x 4 x .375 Alum. Tube Mullion	Anchor Capacity (lb/ft) Anchor Capacity (lb/ft) Anchor Capacity (lb/ft)	Anchor Capacity (lb/ft) Anchor Capacity (lb/ft) Anchor Capacity (lb/ft)	Anchor Capacity (lb/ft) Anchor Capacity (lb/ft) Anchor Capacity (lb/ft)	Anchor Capacity (lb/ft) Anchor Capacity (lb/ft) Anchor Capacity (lb/ft)	Anchor Capacity (lb/ft) Anchor Capacity (lb/ft) Anchor Capacity (lb/ft)	Anchor Capacity (lb/ft) Anchor Capacity (lb/ft) Anchor Capacity (lb/ft)	Anchor Capacity (lb/ft) Anchor Capacity (lb/ft) Anchor Capacity (lb/ft)	Anchor Capacity (lb/ft) Anchor Capacity (lb/ft) Anchor Capacity (lb/ft)	Anchor Capacity (lb/ft) Anchor Capacity (lb/ft) Anchor Capacity (lb/ft)	Anchor Capacity (lb/ft) Anchor Capacity (lb/ft) Anchor Capacity (lb/ft)	Anchor Capacity (lb/ft) Anchor Capacity (lb/ft) Anchor Capacity (lb/ft)	Anchor Capacity (lb/ft) Anchor Capacity (lb/ft) Anchor Capacity (lb/ft)
42 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
44 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
46 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
48 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
50 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
52 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
54 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
56 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
58 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
60 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
62 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
64 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
66 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
68 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
70 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
72 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
74 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
76 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
78 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
80 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
82 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
84 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
86 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
88 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
90 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
92 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
94 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
96 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
98 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
100 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
102 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
104 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
106 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
108 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
110 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
112 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
114 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
116 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
118 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
120 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
122 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
124 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
126 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
128 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
130 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
132 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
134 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
136 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
138 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
140 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
142 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0
144 in	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0

TABLE 7B

Anchor Clip Patterns	Anchor Capacity Table (lbs)											
	2.75 Concrete			3 in Conc.			Fiberglass			PT Wood		
	Anchor Type	Embedment (in)	Edge Distance (in)	Anchor Type	Embedment (in)	Edge Distance (in)	Anchor Type	Embedment (in)	Edge Distance (in)	Anchor Type	Embedment (in)	Edge Distance (in)
2 Anchors @ 4.75 Min. O.C. / Standard Clip (Fig. 1 or 2)	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"
4 Anchors @ 2.25" Min. O.C. / Standard Clip (Fig. 3)	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"
8 Anchors @ 1.125" Min. O.C. / Standard Clip (Fig. 4)	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"
4 Anchors @ 2" Min. O.C. / 2nd Angle Clip (Fig. 5)	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"
8 Anchors @ 2" Min. O.C. / 2nd Angle Clip (Fig. 6)	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"
4 Anchors @ 0.5 Min. O.C. / 7-clip, 100 UTP Alum. (Fig. 7)	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"
2 Anchors @ 2.25" Min. O.C. / F-clip (Fig. 8)	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"
4 Anchors @ 1.125" Min. O.C. / F-clip (Fig. 9)	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"	1/4" x 3/4" x 1/2" E-clip	1-3/4"	2-1/2"

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

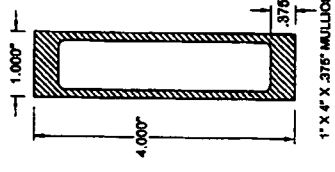
FIGURE 1: FIGURE 2: FIGURE 3: FIGURE 4: FIGURE 5: FIGURE 6: FIGURE 7: FIGURE 8: FIGURE 9:



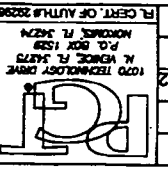
ANGLE CLIP (FIGURES 6&8) MUST BE USED IN PAIRS.

ANCHOR CAPACITY ADJUSTMENT FORMULA:

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE CORRESPONDING TO THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.



- SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 22 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.
- LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.
- MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 18-20. ALL MULLION CLIPS MAY BE FACTORY MACHINED AND COMPLY UNLESS OTHERWISE SPECIFIED. HOLES MAY BE DRILLED IN THE FIELD FOLLOWING DIMENSIONS SHOWN ON SHEETS 18-20.
- SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 308 SPECIFICATIONS. MASONRY AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .125" THICK. STEEL STUDS TO BE A MINIMUM WITH AN SG OF 0.85. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .125" THICK. STEEL STUDS TO BE A MINIMUM WITH AN SG OF 0.85. THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL.



PROJECT: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
 DRAWING NO: 6300JR
 DATE: 08/28/11
 DESIGNED BY: J. ROSOWSKI
 CHECKED BY: J. ROSOWSKI
 SCALE: N/A
 PROJECT NO: 11422
 PROJECT LOCATION: 1000 JEFFERSON AVE, N. W. MIAMI, FL 33137
 PROJECT OWNER: P.O. BOX 1529, MIAMI, FL 33137

PRODUCT REVISED as complying with the Florida Building Code. Acceptance No. 11422.01. Expiration Date 11/28/11. By: [Signature] Miami Trade Product Center.

ATLANTA MILLER, P.E. FL P.E.# 58705

DATE	08/29/11	DATE	08/29/11
NAME	J ROSOWSKI	NAME	J ROSOWSKI
ADDRESS	N/A	ADDRESS	N/A
CITY	N/A	CITY	N/A
STATE	N/A	STATE	N/A
ZIP	63004R	ZIP	63004R
PHONE		PHONE	
TELETYPE		TELETYPE	
FAX		FAX	
EMAIL		EMAIL	
12 d 22		12 d 22	

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

TABLE 6B	Anchor Capacity Table (ks)	ANCHOR CAPACITY ADJUSTMENT FORMULA: ANCHOR CAP
----------	----------------------------	---

Technical drawing of a rectangular plate. The overall dimensions are 1.20" in height and 3.18" in width. A central rectangular hole is shown with a width of 2.86". The plate has a thickness of 1.20" x 3.18" x .285 MILLION (1-1/2" x 1/4" MILLION). The drawing includes dimension lines and arrows indicating the measurements.

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

FIGURE 1:

FIGURE 2:

FIGURE 3:

FIGURE 4:

FIGURE 5:

FIGURE 6:

ANGLE
CLIP MUST
BE USED
IN PAIRS.



FL CERT. OF AUTH. 28298
1000 TECHNOLOGY DRIVE
N. W. 3474
MCKINNEY, TX 75069

Stamp: 13422
6300JR
N/A
08/29/11
J. ROZOWSKI
N/A
N/A

2 X 4 X 25 MULL SPEC
IMPACT-RESISTANT ALUMINUM TUBE MULLIONS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-0997-01
By: *Anthony Lyn Miller*
Miami Trade Product Company

Mullion Capacity Table (lb/ft)		Opening Width (for vertically-spawning mullions) or Opening Height (for horizontally-spawning mullions)																																																																																																																																																																																																																																																																																																																																																																																																																																													
		50 in		60 in		70 in		80 in		90 in		100 in		110 in		120 in		130 in		140 in		150 in																																																																																																																																																																																																																																																																																																																																																																																																																									
2 x 4 x .25 Alum. Tube Mullion	Mullion Length	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading</

TABLE 10A

Mullion Length	Mullion Capacity Table (lb/ft)											
	Opening Width (for vertically-opening mullions) or Opening Height (for horizontally-opening mullions)											
	50 in	60 in	70 in	80 in	90 in	100 in	120 in	140 in	160 in	180 in	200 in	220 in
2 x 6 x .25 Alum. Tube Mullion	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading
	Mullion Capacity (lb/ft)	Anchor Capacity (lb)	Mullion Capacity (lb/ft)	Anchor Capacity (lb)	Mullion Capacity (lb/ft)	Anchor Capacity (lb)	Mullion Capacity (lb/ft)	Anchor Capacity (lb)	Mullion Capacity (lb/ft)	Anchor Capacity (lb)	Mullion Capacity (lb/ft)	Anchor Capacity (lb)
42 in	170.0	620	170.0	620	170.0	620	170.0	620	170.0	620	170.0	620
48 in	170.0	708	170.0	708	170.0	708	170.0	708	170.0	708	170.0	708
54 in	170.0	797	170.0	797	170.0	797	170.0	797	170.0	797	170.0	797
60 in	170.0	885	170.0	885	170.0	885	170.0	885	170.0	885	170.0	885
66 in	170.0	974	170.0	974	170.0	974	170.0	974	170.0	974	170.0	974
72 in	170.0	1063	170.0	1063	170.0	1063	170.0	1063	170.0	1063	170.0	1063
78 in	170.0	1151	170.0	1151	170.0	1151	170.0	1151	170.0	1151	170.0	1151
84 in	170.0	1239	170.0	1239	170.0	1239	170.0	1239	170.0	1239	170.0	1239
90 in	170.0	1328	170.0	1328	170.0	1328	170.0	1328	170.0	1328	170.0	1328
96 in	170.0	1417	170.0	1417	170.0	1417	170.0	1417	170.0	1417	170.0	1417
102 in	170.0	1505	170.0	1505	170.0	1505	170.0	1505	170.0	1505	170.0	1505
108 in	170.0	1594	170.0	1594	170.0	1594	170.0	1594	170.0	1594	170.0	1594
114 in	170.0	1683	170.0	1683	170.0	1683	170.0	1683	170.0	1683	170.0	1683
120 in	170.0	1771	170.0	1771	170.0	1771	170.0	1771	170.0	1771	170.0	1771
144 in	123.1	1894	123.1	1894	123.1	1894	123.1	1894	123.1	1894	123.1	1894

TABLE 10B

Anchor Clip Patterns	Anchor Capacity Table (lb)											
	Substrate											
	2.75 Concrete	3.75 Concrete	4.75 Concrete	5.75 Concrete	6.75 Concrete	7.75 Concrete	8.75 Concrete	9.75 Concrete	10.75 Concrete	11.75 Concrete	12.75 Concrete	13.75 Concrete
Anchor Type	1" E-clip	1" E-clip	1" E-clip	1" E-clip	1" E-clip	1" E-clip	1" E-clip	1" E-clip	1" E-clip	1" E-clip	1" E-clip	1" E-clip
	Edge Distance (in)	Embedment (in)	Edge Distance (in)	Embedment (in)	Edge Distance (in)	Embedment (in)	Edge Distance (in)	Embedment (in)	Edge Distance (in)	Embedment (in)	Edge Distance (in)	Embedment (in)
2 Anchors @ 2.75 Min. O.C. / Standard Clip (Fig. 1)	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"
4 Anchors @ 4.50 Min. O.C. / Standard Clip (Fig. 2)	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"
4 Anchors @ 1.75 Min. O.C. / Standard Clip (Fig. 3)	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"
4 Anchors @ 3 Min. O.C. / 2nd Angle Clip (Fig. 4)	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"
4 Anchors @ 3 Min. O.C. / 2nd Angle Clip (Fig. 5)	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"
4 Anchors @ 1.5 Min. O.C. / 2nd Angle Clip (Fig. 6)	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"
4 Anchors @ 1.5 Min. O.C. / 2nd Angle Clip (Fig. 7)	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"
4 Anchors @ 1.5 Min. O.C. / 2nd Angle Clip (Fig. 8)	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"
4 Anchors @ 1.5 Min. O.C. / 2nd Angle Clip (Fig. 9)	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"
4 Anchors @ 1.5 Min. O.C. / 2nd Angle Clip (Fig. 10)	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"
4 Anchors @ 1.5 Min. O.C. / 2nd Angle Clip (Fig. 11)	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"

FIGURE 1: FIGURE 2: FIGURE 3: FIGURE 4: FIGURE 5: FIGURE 6: FIGURE 7: FIGURE 8: FIGURE 9: FIGURE 10: FIGURE 11:

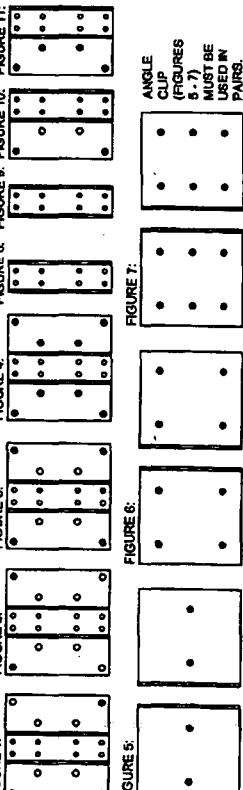
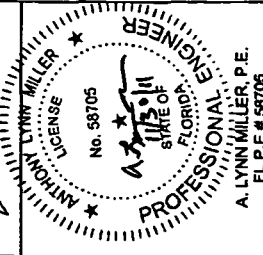


TABLE NOTES:

- SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 22 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.
- LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.
- MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 18-20. ALL MULLION CLIPS MAY BE FACTORY MACHINED AND CONTAIN UNUSED HOLES. HOLES MAY BE DRILLED IN THE FIELD FOLLOWING DIMENSIONS SHOWN ON SHEETS 18-20.
- SUBSTRATES: CONCRETE SHALL CONFORM TO ASTM C-400. WOOD SHALL BE PRESSURE-TREATED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL BE PRESSURE-TREATED YELLOW PINE WITH AN SG OF 0.5. ALUMINUM SHALL BE 6063-T6 AND BE A MINIMUM OF 125" THICK. STEEL STUDS TO BE A MINIMUM GRADE 36 AND .045" THICK AND 3/8" DIA. STRUCTURAL STEEL TO BE AT LEAST 1/2" THICK AND 3/8" DIA. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL.

PRODUCT REVISED
as complying with the Florida
Building Code No. 12-0000-01
Expiration Date 12/31/2016

By: *[Signature]*
Michael J. Miller, P.E.
Professional Engineer



IMPACT-RESISTANT ALUMINUM TUBE MULLIONS

2 x 6 x .25 MULL SPECS

6300JR

14d 22

1070 TECHNOLOGY DRIVE
HICKORY, N.C. 28626

Rev. By: J. ROSOWSKI
Date: 08/29/11
Scale: N/A

Checked By: N/A
Date: 08/29/11
Drawing No. 6300JR

Rev. By: N/A
Date: 08/29/11
Scale: N/A

Checked By: N/A
Date: 08/29/11
Drawing No. 6300JR

Rev. By: N/A
Date: 08/29/11
Scale: N/A

Checked By: N/A
Date: 08/29/11
Drawing No. 6300JR

TABLE 11A

1.26" x 2.11" x .125" Alum Tube Mull		Mullion Capacity Table (lb/ft)											
		Opening Width (for vertically-spanning mullions) or Opening Height (for horizontally-spanning mullions)											
Mull Length	Rectangular Loading	60 in		70 in		80 in		90 in		100 in		120 in	
		Req'd Capacity (lb/ft)	Anchor Capacity (lb/ft)	Req'd Capacity (lb/ft)	Anchor Capacity (lb/ft)	Req'd Capacity (lb/ft)	Anchor Capacity (lb/ft)	Req'd Capacity (lb/ft)	Anchor Capacity (lb/ft)	Req'd Capacity (lb/ft)	Anchor Capacity (lb/ft)	Req'd Capacity (lb/ft)	Anchor Capacity (lb/ft)
42 in	144.2	528	107.0	428	120.2	528	107.0	428	120.2	528	107.0	428	120.2
48 in	166.6	403	108.0	333	80.5	403	108.0	333	80.5	403	108.0	333	80.5
50 in	182.3	383	91.0	301	68.8	383	91.0	301	68.8	383	91.0	301	68.8
54 in	217.8	318	74.1	267	56.5	318	74.1	267	56.5	318	74.1	267	56.5
60 in	247.7	258	63.1	218	41.2	258	63.1	218	41.2	258	63.1	218	41.2
63 in	274.2	234	48.6	200	35.6	234	48.6	200	35.6	234	48.6	200	35.6
66 in	301.1	219	38.4	183	31.0	219	38.4	183	31.0	219	38.4	183	31.0
72 in	345.6	179	30.1	150	23.9	179	30.1	150	23.9	179	30.1	150	23.9
78 in	384.3	140	24.3	121	19.6	140	24.3	121	19.6	140	24.3	121	19.6
78 in	22.6	12	23.6	153	16.6	182	19.9	151	16.1	182	17.8	128	

TABLE 11B

Anchor Clip Patterns	Anchor Capacity Table (lbs)									
	Substrate					2.7% Concrete				
Anchor Type	3/16" Dia U-Bracket					3/16" Dia U-Bracket				
	Edge Distance (in)	Embedment (in)	Edge Distance (in)	Embedment (in)	Edge Distance (in)	Edge Distance (in)	Embedment (in)	Edge Distance (in)	Embedment (in)	Edge Distance (in)
4 Anchor @ 3" Min. O.C. / (2) End Anchor @ 6" Min. O.C.	1-3/4"	5-3/4"	1-3/4"	5-3/4"	1-3/4"	1-3/4"	5-3/4"	1-3/4"	5-3/4"	1-3/4"
	700 lbs	700 lbs	680 lbs	1100 lbs	680 lbs	680 lbs	1100 lbs	680 lbs	1100 lbs	680 lbs

Anchor Capacity Table (lbs)

Anchor Type	Substrate					2.7% Concrete				
	3/16" Dia U-Bracket					3/16" Dia U-Bracket				
Anchor Type	3/16" Dia U-Bracket					3/16" Dia U-Bracket				
	Edge Distance (in)	Embedment (in)	Edge Distance (in)	Embedment (in)	Edge Distance (in)	Edge Distance (in)	Embedment (in)	Edge Distance (in)	Embedment (in)	Edge Distance (in)
4 Anchor @ 3" Min. O.C. / (2) End Anchor @ 6" Min. O.C.	1-3/4"	5-3/4"	1-3/4"	5-3/4"	1-3/4"	1-3/4"	5-3/4"	1-3/4"	5-3/4"	1-3/4"
	700 lbs	700 lbs	680 lbs	1100 lbs	680 lbs	680 lbs	1100 lbs	680 lbs	1100 lbs	680 lbs

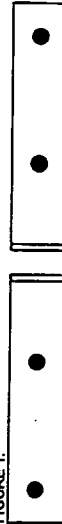
ANCHOR CAPACITY ADJUSTMENT FORMULA:

$(OP_{min}) \times (ANCHOR CAP_{min}) = ANCHOR CAP_{min}$
 USE THIS FORMULA TO OBTAIN THE ANCHOR CAPACITY REQUIRED CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE CAPACITY (FROM THE TABLE) OF THE SELECTED ANCHOR. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

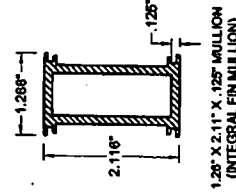
TABLE NOTES:

- SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 22 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.
- LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.
- MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 18-20. ALL MULLION CLIPS MAY BE FACTORY MACHINED AND CONTAIN UNUSED HOLES. HOLES MAY BE DRILLED IN THE FIELD FOLLOWING DIMENSIONS SHOWN ON SHEETS 18-20.
- SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL BE PRESSURE-TREATED YELLOW SOUTHERN PINE WITH AN SG OF 0.45. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .125" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL.

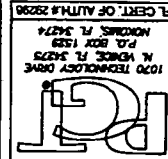
FIGURE 1:



ANGLE CLIP MUST BE USED IN PAIRS.

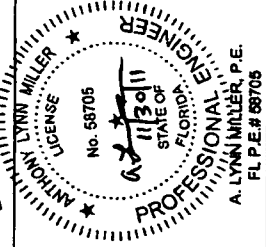


1.26" X 2.11" X .125" MULLION (INTEGRAL FIN MULLION)



PROJECT: 1.26 X 2.11 X .125 MULL SPECS
 DRAWN BY: J. ROSOWSKI
 CHECKED BY: N/A
 DATE: 08/29/11
 SCALE: N/A
 PROJECT NO.: 63000R
 SHEET: 15 OF 22
 REVISIONS:

PRODUCT REVISED
 Building Code
 Acceptance No.
 Expiration Date
 By: [Signature]
 Miami Dade Product Control



FL CERT. OF AUTHORITY 28229
 1000 TECHNOLOGY DRIVE
 N. VENICE FL 33575
 P.O. BOX 1529
 MCKINNEY, FL 32754

IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
 MULLION AND CLIP DIMENSIONS A

Drawn By: N/A
 Checked By: J. ROSOWSKI
 Date: 08/29/11
 Scale: 1/8" = 1'-0"

PRODUCT REVISED
 as complying with the Florida
 Building Code No. 11-0924.01
 Effective Date 11/01/16
 By: [Signature]
 Miami Tube Products Company

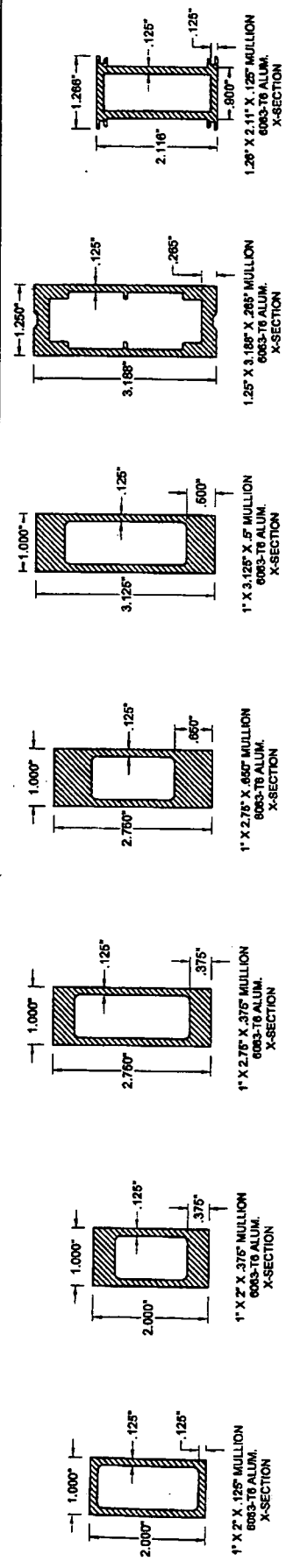
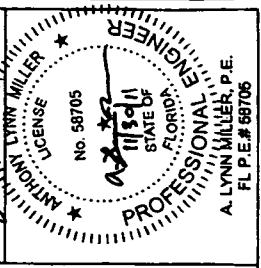


TABLE A

Dimension	Value (in)	For Mullion:
A	1.825	1" X 2" X .125" Aluminum Tube Mullion
B	2.664	
C	0.885	
D	0.740	
E	.450 Min.	
A	1.125	1" X 2" X .375" Aluminum Tube Mullion
B	2.404	
C	0.835	
D	0.480	
E	0.450	
A	1.875	1" X 2.75" X .375" Aluminum Tube Mullion
B	3.000	
C	0.767	
D	1.118	
E	.450 Min.	
A	1.312	1" X 2.75" X .650" Aluminum Tube Mullion
B	3.000	
C	0.478	
D	0.838	
E	.450 Min.	
A	2.000	1" X 3.125" X .600" Aluminum Tube Mull
B	2.837	
C	0.863	
D	1.137	
E	.450 Min.	
A	2.825	1.25" X 3.188" X .265" Aluminum Tube Mull
B	3.282	
C	0.882	
D	1.782	
E	.450 Min.	
A	1.813	1.25" X 2.11" X .121" Aluminum Tube Mull

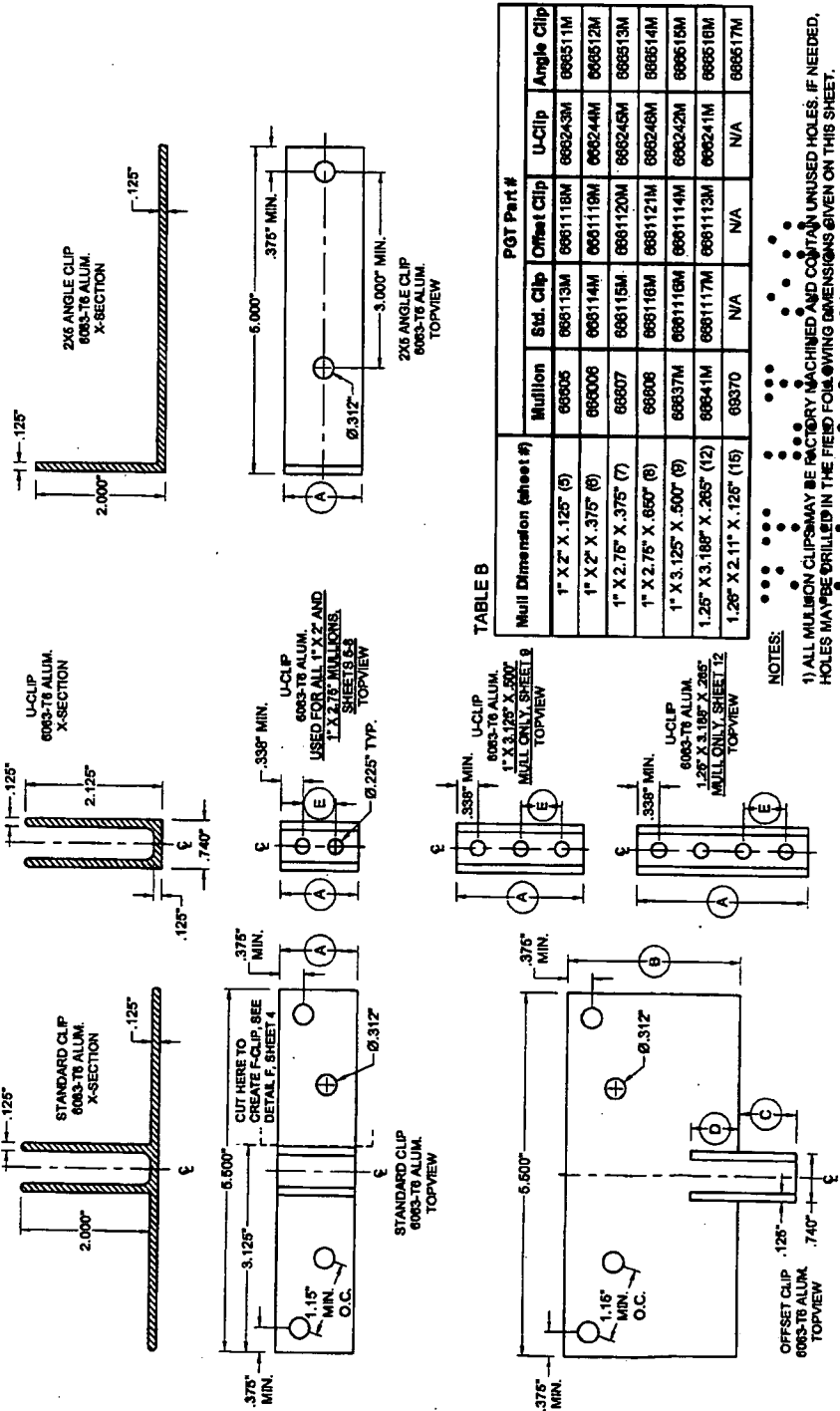
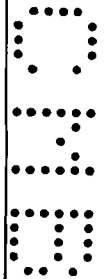


TABLE B

Mullion	Std. Clip	Offset Clip	U-Clip	Angle Clip
68805	688113M	688118M	688243M	688511M
68808	688114M	688119M	688244M	688512M
68807	688115M	688120M	688245M	688513M
68806	688116M	688121M	688246M	688514M
68837M	688116M	688114M	688242M	688515M
68841M	688117M	688113M	688241M	688516M
68370	N/A	N/A	N/A	688517M

NOTES:
 1) ALL MULLION CLIPS MAY BE FACTORY MACHINED AND CONTAIN UNUSED HOLES. IF NEEDED, HOLES MAY BE DRILLED IN THE FIELD FOLLOWING DIMENSIONS GIVEN ON THIS SHEET.
 2) SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

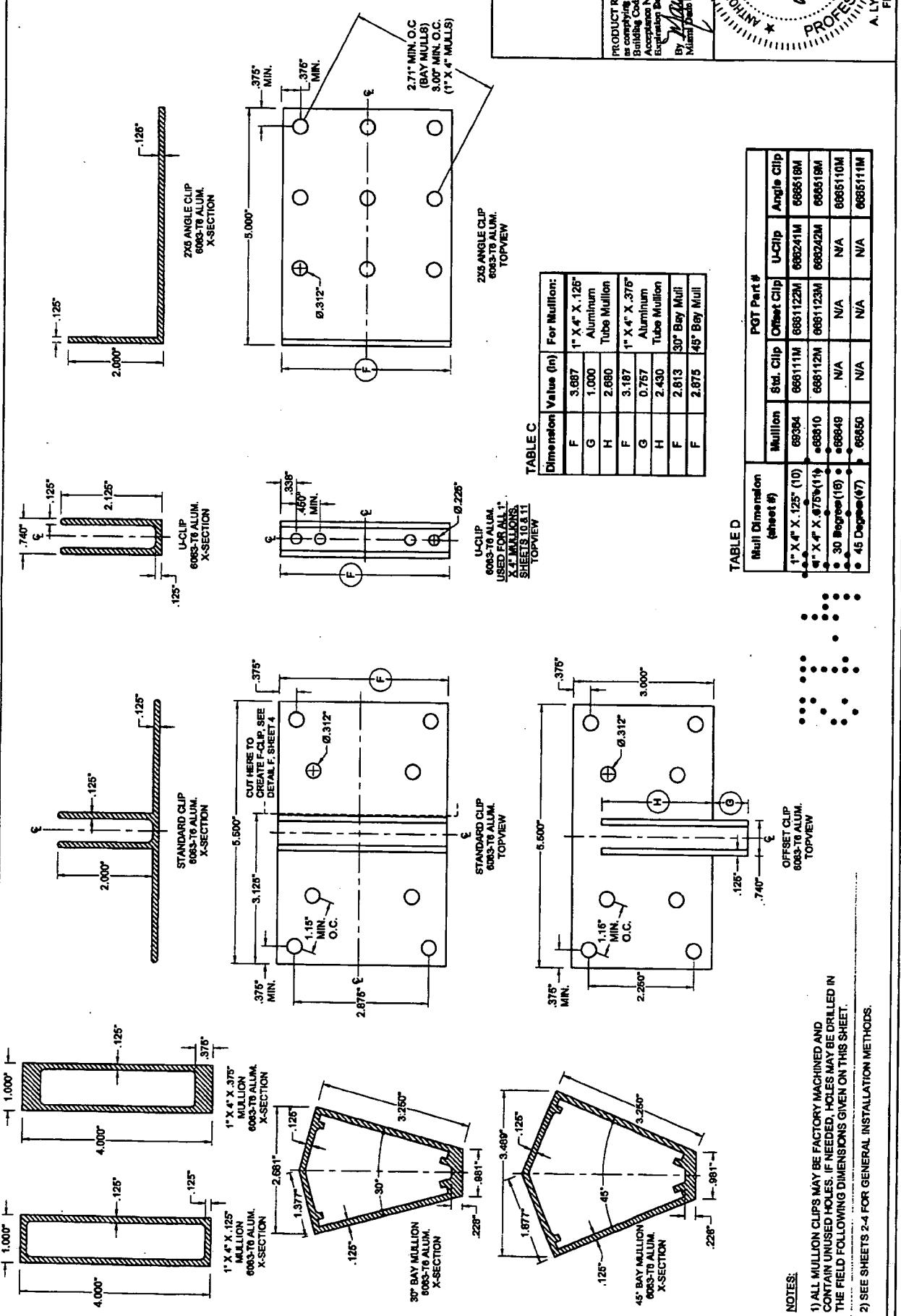




PROJECT: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
 DRAWN BY: J. ROSOWSKI
 CHECKED BY: N/A
 DATE: 08/29/11
 SCALE: N/A
 SHEET: 19422
 PROJECT NO.: 6300JR
 CLIENT: 1070 TECHNOLOGY DRIVE, FORT MYERS, FL 34274

PRODUCT REVISED
 In accordance with the Florida Building Code
 Acceptance No. 11-07700-01
 Explanation Date 11/17/2016
 By: [Signature]
 Miami Dade Product Council

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





IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Drawing No. 6300JR
Scale: N/A
Date: 08/29/11
Designed By: J. ROSOWSKI
Checked By: J. ROSOWSKI
Date: 08/29/11
Rev: 20 of 22
FL CERT. OF AUTH. # 22598

PRODUCT REVISED
in compliance with the Florida
Building Code
Acceptance No. 1-0728-01
Expiration Date 12/31/2011
By: [Signature]
Millard Products Company

ANTHONY MILLER
LICENSE
No. 58705
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
FL P.E. # 86705

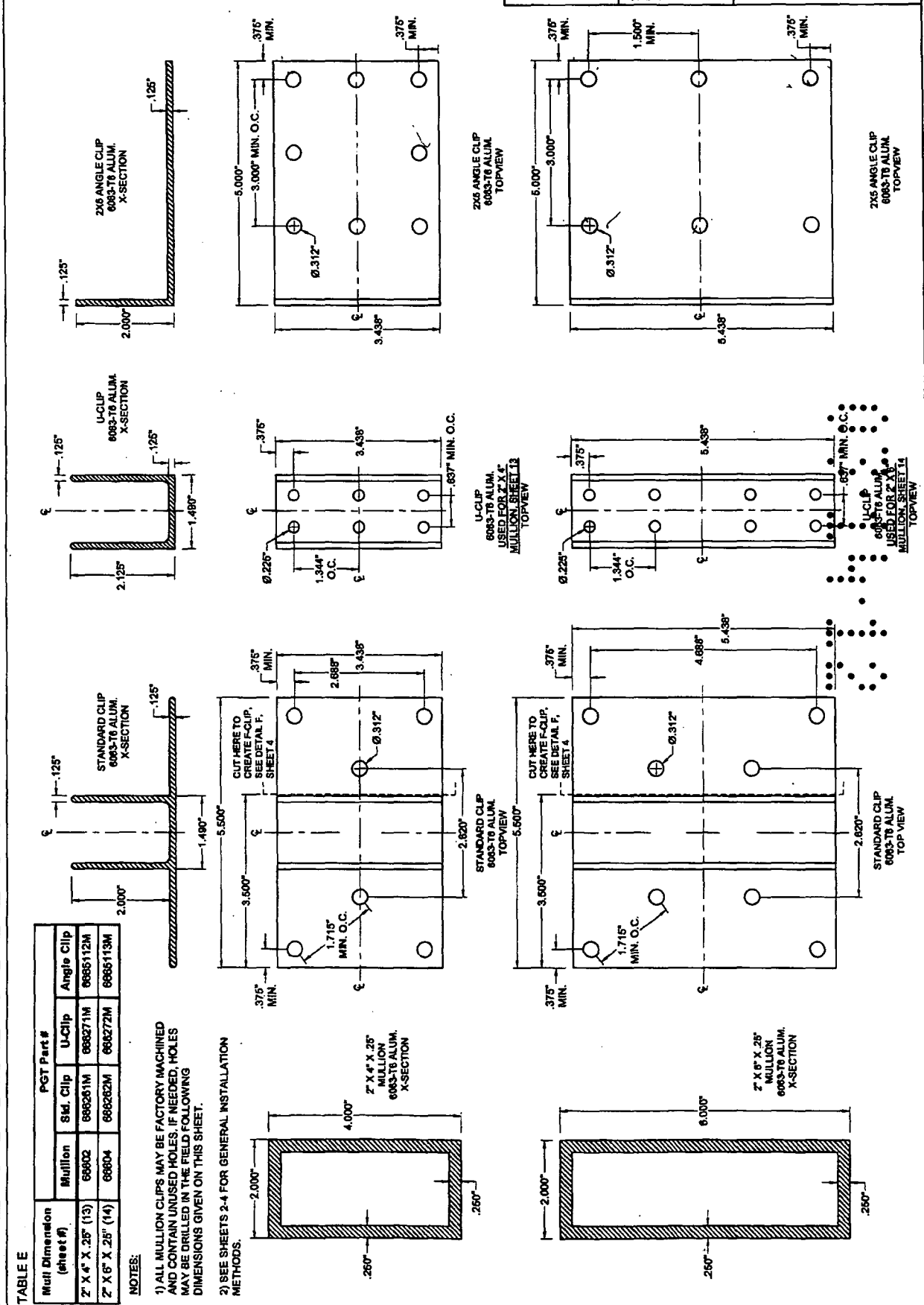


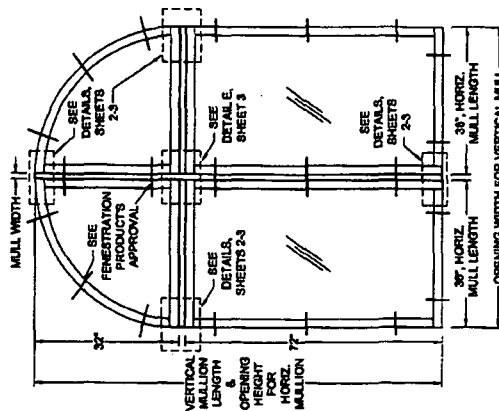
TABLE E

Mull Dimension (sheet #)		PGT Part #	
Mullion	Std. Clip	U-Clip	Angle Clip
2" X 4" X .25" (13)	68602	686261M	6865112M
2" X 6" X .25" (14)	68604	686262M	6865113M

NOTES:
1) ALL MULLION CLIPS MAY BE FACTORY MACHINED AND CONTAIN UNUSED HOLES. IF NEEDED, HOLES MAY BE DRILLED IN THE FIELD FOLLOWING DIMENSIONS GIVEN ON THIS SHEET.
2) SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.



EXAMPLE 1: SINGLE VERTICAL MULLION



EXAMPLE 2: MULTIPLE MILLIONS

THE BUILDING SUBSTRATE IS KNOWN TO BE WOOD ON ALL FOUR SIDES, THE WINDOW FRAME DEPTH IS 2-1/4". THE OPENING REQUIRES A DESIGN PRESSURE OF +60.0/-60.0 PSF.

- 1) INITIALLY ASSUMING THAT A 1" WIDE MULLION IS SUITABLE, THE MULLION LENGTH IS 72" AND THE OPENING WIDTH IS 32"x32"x1" -60". REFERENCE SHEET 22, THE COLUMN USING RECTANGULAR LOADING WOULD BE USED. SCAN THE MULLION TABLES FOR A MULLION THAT IS AT LEAST THE WINDOW FRAME DEPTH OF 2-1/4" AND WILL MEET OR EXCEED THE REQUIRED DESIGN PRESSURE OF +40.0/-60.0 PSF. IF THE TABLE DOES NOT SHOW THE EXACT SIZE, USE THE NEXT LARGER SIZE AVAILABLE.

FROM TABLE 3A, SHEET 7, THE 1" X 2.75" X .375" MULLION (LENGTH = 72", OPENING WIDTH = 70") MEETS THE DESIGN PRESSURE IS +45.3 PSF AND WOULD NOT BE SUITABLE FOR THIS APPLICATION.
- FROM TABLE 4A, SHEET 8, THE 1" X 2.75" X .650" MULLION (LENGTH = 72", OPENING WIDTH = 70") HAS A DESIGN PRESSURE OF +47.7 PSF WHICH EXCEEDS THE REQUIREMENTS FOR THE OPENING AND MAY BE USED IN THIS APPLICATION. NOTE THE ANCHOR CAPACITY REQUIRED OF 68 LBS.
- 2) USE TABLE 4B TO FIND THE ANCHOR TYPE, ANCHOR QUANTITY AND CLIP TYPE REQUIRED FOR THE WOOD SUBSTRATE. BOTH THE STANDARD CLIP WITH (4) #12 ANCHORS AND THE 2X5 ANGLE CLIPS WITH (4) #12 ANCHORS HAVE A CAPACITY OF 840 LBS. THOUGH EITHER ONE COULD BE USED, THE STANDARD CLIP IS EASIER TO INSTALL.
- 3) VERIFY THE DESIGN PRESSURE OF THE FENESTRATION PRODUCTS USED WITH THIS MULLION SYSTEM. THE LOWER DESIGN PRESSURE, OF MULLIONS OR FENESTRATION PRODUCTS, WILL APPLY TO THE OVERALL ASSEMBLY. FINAL DESIGN PRESSURE REQUIRES THAT BOTH THE MULLION AND THE FENESTRATION PRODUCT BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION SPECIFICATIONS INTO RESPECTIVE SUBSTRATES AND FENESTRATION PRODUCTS TO MULLION.

IN THIS EXAMPLE, THE DESIGN PRESSURE REQUIRED WAS +60.0 PSF. THE OVERALL MULLION SYSTEM WAS DETERMINED TO BE 72.7 PSF WITH AN ANCHOR CAPACITY OF 638 LBS. ALTERNATIVELY, THE ANCHOR CAPACITY ADJUSTMENT FORMULA COULD HAVE BEEN USED TO CALCULATE THE ANCHOR CAPACITY REQUIRED FOR THE EXACT DESIGN PRESSURE OF 60 PSF:

$$60 \text{ PSF} \times \left(\frac{638 \text{ LBS}}{72.7 \text{ PSF}} \right) = 524.0 \text{ LBS} \quad (\text{MAY BE USED TO QUALIFY \# 10 STEEL SCREWS FROM TABLE 4B})$$

THE BUILDING SUBSTRATE IS KNOWN TO BE CMU ON THE JAMBS AND USES A CONCRETE HEADER AND SILL. THE WINDOW FRAME DEPTH IS 2-3/8". THE OPENING REQUIRES A DESIGN PRESSURE OF +60.0/58.0 PSF.

FOR THE VERTICAL MILLION:

- 1) INITIALLY ASSUMING THAT A 1" WIDE MULLION IS SUITABLE, THE MULLION LENGTH IS $32' + 72" \times 1' = 105'$ AND THE OPENING WIDTH IS $36' + 36" \times 1' = 73'$. REFERENCE SHEET 22, THE COLUMN USING RECTANGULAR LOADING SHALL BE USED. SCAN THE MULLION TABLES FOR A MULLION THAT IS AT LEAST THE WINDOW FRAME DEPTH OF 2-3/8" AND WILL MEET OR EXCEED THE REQUIRED DESIGN PRESSURE OF 450.0/468.0 PSF. IF THE TABLE DOES NOT SHOW THE EXACT SIZE, USE THE NEXT LARGER SIZE AVAILABLE.
- FROM TABLE 3A, SHEET 7, THE 1" X 2.75" X .375" MULLION (LENGTH = 105", OPENING WIDTH = 80") MEETS THE DEPTH REQUIRED, HOWEVER THE DESIGN PRESSURE IS ± 16.1 PSF AND WOULD NOT BE SUITABLE FOR THIS APPLICATION.
- FROM TABLE 9A, SHEET 13, THE 2" X 4" X .250" MULLION (LENGTH = 105", OPENING WIDTH = 80") HAS A DESIGN PRESSURE OF ± 44.7 PSF WHICH EXCEEDS THE REQUIREMENTS FOR THE OPENING AND MAY BE USED IN THIS APPLICATION. NOTE THE ANCHOR CAPACITY REQUIRED OF 971 LBS.
- BECAUSE IT IS NOW KNOWN THAT THE MULLION WILL ADD 2" TO THE WIDTH OF THE MULLED UNIT, THE ADJUSTED OPENING WIDTH IS $36' + 28" \times 2' = 74'$. NOT 73' AS PREVIOUSLY ASSUMED. VERIFY THAT THE DESIGN PRESSURE IS STILL APPLICABLE FOR THE ADJUSTED OPENING. ALTERNATIVELY, THE WINDOW WIDTHS MAY BE REDUCED TO MAINTAIN THE 73" DIMENSION ($36 - 1/2 \times 38 - 1/2 \times 2 = 73$).
- 2) USE TABLE 6B TO FIND THE ANCHOR TYPE, ANCHOR QUANTITY AND CLIP TYPE REQUIRED FOR THE CONCRETE SUBSTRATE. IN THIS EXAMPLE, ASSUME THE POURED CONCRETE HEADER AND SILL ARE 8" WIDE. IF THE MULLION CLIP WERE TO BE CENTERED WITHIN THE 8", CARE MUST BE TAKEN TO MAINTAIN THE FASTENERS EDGE DISTANCE. USING THE STANDARD CLIP WITH (9) 3/16" ULTRACON ANCHORS AT AN EDGE DISTANCE OF 2-1/2" GIVES AN ANCHOR CAPACITY OF 1060 LBS WHICH IS GREATER, AND THEREFORE SUITABLE, FOR THE REQUIRED ANCHOR CAPACITY OF 971 LBS.

FOR THE HORIZONTAL MILLIONS:

BECAUSE THE VERTICAL MULL WILL BE A 2" X 4" X .250" MULLION, IN THIS EXAMPLE WE WILL MATCH THE HORIZONTAL AND VERTICAL MULLIONS. ALTERNATIVELY, ANOTHER MULLION TYPE COULD BE CHOSEN.

- 1) THE MULLION LENGTH IS 36" AND THE OPENING HEIGHT IS 32"x72"x2" -106". REFERENCING SHEET 22, THE COLUMN USING TRAPEZOIDAL/TRIANGULAR LOADING MAY BE USED. FROM TABLE 9A, SHEET 13, THE 2" X 4" X .250" MULLION @ LENGTH = 42" OPENING HEIGHT = 1207" HAS A DESIGN PRESSURE OF +170.0 PSF WHICH EXCEEDS THE REQUIREMENTS FOR THE OPENING AND MAY BE USED IN THIS APPLICATION. NOTE THE ANCHOR CAPACITY REQUIRED OF 821 LBS.
- 2) USE TABLE 9B TO FIND THE ANCHOR TYPE, ANCHOR QUANTITY AND CLIP TYPE REQUIRED FOR THE GMA SUBSTRATE. IN THIS EXAMPLE, ASSUME THE CNU JAMBS ARE 8" WIDE. IF THE MULLION CLIP WERE TO BE CENTERED WITHIN THE 8" CAKE MUST BE TAKEN TO MAINTAIN THE FASTENER'S EDGE DISTANCE. USING THE 2X4 ANGLE @ 90° WITH (4) 3/16" ULTRACON ANCHORS AT AN EDGE DISTANCE OF 1" GIVES AN ANCHOR CAPACITY OF 840 LBS WHICH IS GREATER, AND THEREFORE SUITABLE FOR THE REQUIRED ANCHOR CAPACITY OF 821 LBS.
- 4) FOR THE U-CLIP IN THE HORIZONTAL MULLION TO VERTICAL MULLION, USE THE SAME ANCHOR CAPACITY OF 921 LBS. TABLE 9B FOR THE U-CLIP SHOWS THE ANCHOR CAPACITY IS 1074 LBS WHEN USING 3 ANCHORS, WHICH IS GREATER, AND THEREFORE SUITABLE, FOR THE REQUIRED ANCHOR CAPACITY REQUIREMENT OF 921 LBS. THE ANCHOR TYPE IS A #12 STEEL SCREW.

FROM THE ABOVE STEPS, OUR MILLION DESIGN PRESSURE IS:

184.7 PSF FROM THE VERTICAL MULLION;

1/-170.0 PSF FROM THE 36" HORIZONTAL MULLION ATTACHING TO CMU;

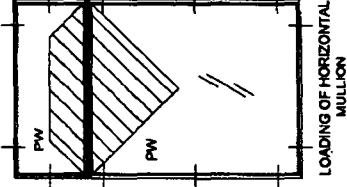
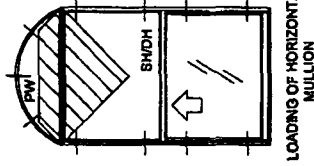
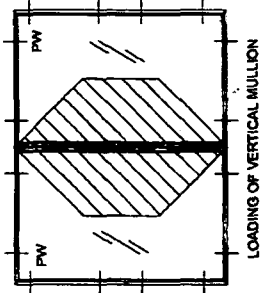
THE LOWEST DESIGN PRESSURE IS 1.043 PSF AND MAY BE USED FOR THE VERTICAL MULLION ATTACHING TO THE VERTICAL MULLION (INTERSECTIONS) 1/1-170.0 PSF FROM THE 36° HORIZONTAL MULLION ATTACHING TO THE VERTICAL MULLION (INTERSECTIONS).

HE LOWEST DESIGN PRESSURE IS +584.7 PSF AND WOULD APPLY TO ALL OF THE BUILDINGS.

VERIFY THE DESIGN PRESSURE OF THE FENESTRATION PRODUCTS USED WITH THIS MULLION SYSTEM. THE LOWER DESIGN PRESSURE, OF MULLIONS OR FENESTRATION PRODUCTS, WILL APPLY TO THE OVERALL ASSEMBLY. FINAL DESIGN PRESSURE REQUIREMENTS FOR BOTH THE MULLION AND THE FENESTRATION PRODUCT BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION SPECIFICATIONS INTO RESPECTIVE SUBSTRATES AND FENESTRATION PRODUCTS TO MULLION.

3 REQUIRED WOULD THE HE 2X6 UCTS, WILL THE ANATIVELY.		IMPACT-RESISTANT ALUMINUM TUBE MILLIONS		Examples Drawing No. 6300JR Date 2/1 d 22 State FL		1070 TECHNOLOGIST DRIVE P.O. BOX 1529 MONROE, LA 70470 FL CERT. OF AUTH. # 22296	
		Description:		Series:		Designer: J ROSOWSKI Date: 08/29/11 Project:	

EXAMPLES OF TRAPEZOIDAL TRIANGULAR LOADING:



NOTES:

- 1) DRAWINGS ARE REPRESENTATIONS OF TYPICAL CONFIGURATIONS. NOT SHOWN MAY BE EXTRAPOLATED FROM THOSE SHOWN.
- 2) IF THE LOADING TYPE CANNOT BE DETERMINED, USE RECTANGULAR LOADING.
- 3) SEE PRODUCTS' APPROVAL FOR ACTUAL ANCHOR LOCATIONS.

PRODUCT REVISED
in compliance with the Florida
Building Code
Amended by
Evolutionary Exam 10/20/06
By: *M. Miller*
Lynn Miller
Miami Pado Products Control

ANTHONY LYNN MILLER
★
LICENSE
NO. 5805
★
FLORIDA
STATE OF
ENGINEER
PROFESSIONAL
A. LYNN MILLER, P.E.
FL 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.A.

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.



Manuel Perez

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.

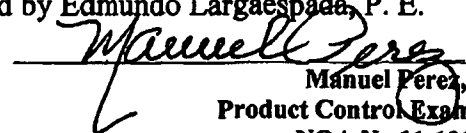
B. TESTS

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 OXXX 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 OXXX 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

PGT Industries

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

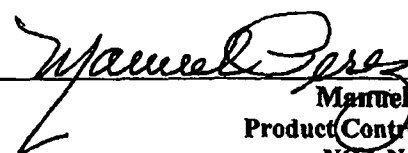
1. Notice of Acceptance No. **10-0922.09** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite® PVB, Interlayer**" dated 12/24/10, expiring on 12/11/11.
2. Notice of Acceptance No. **09-0223.05** issued to Solutia, Inc. for their "**Saflex Multi-layer Glass Interlayer**" dated 04/08/09,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

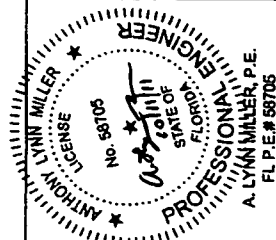
1. GLAZING OPTIONS:

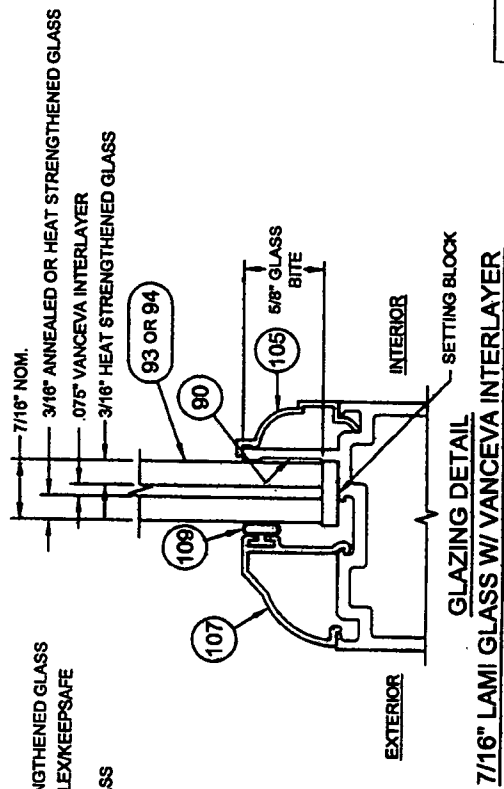
- A**

[illegible]

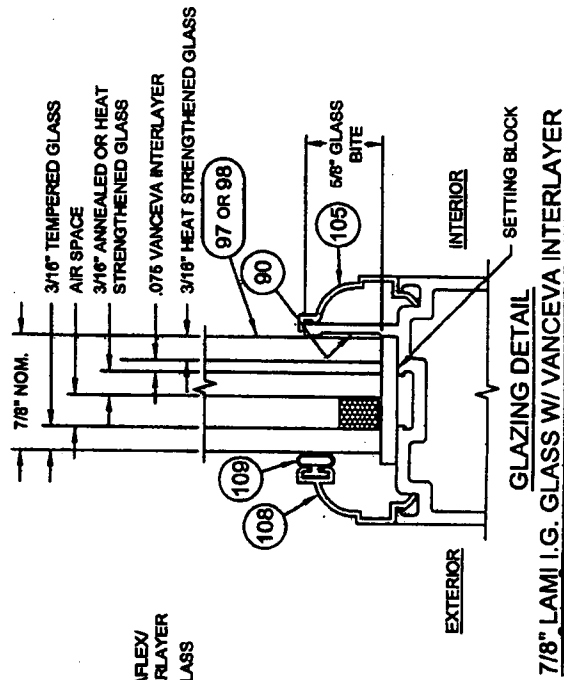
TOPIC	SHEET
GENERAL NOTES.....	1
CONFIGURATIONS.....	1
GLAZING DETAILS.....	2
DESIGN PRESSURES.....	3
ELEVATIONS.....	4
VERT. SECTIONS.....	5
HORIZ. SECTIONS.....	6
PART 8 LIST.....	7
EXTRUSIONS.....	8-9
ANCHORAGE.....	10-12

PRODUCT REVISED
in compliance with the Florida
Building Code
Amendment No. 11-1013-24
Expiration Date ~~Feb. 24, 2015~~



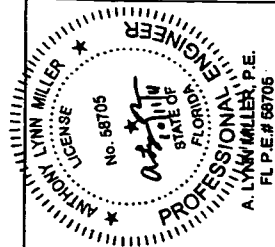
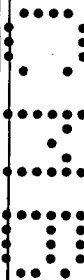


GLAZING DETAIL
7/16" LAMI GLASS W/ PVB INTERLAYER

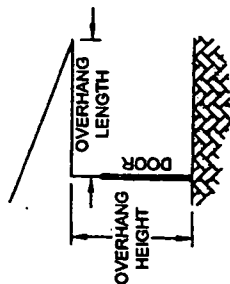


GLAZING DETAIL
7/8" LAMI I.G. GLASS W/ PVB INTERLAYER

PRODUCT REVIEWED
in compliance with the Florida
Building Code
Assignment No. 14-013-24
Expiration Date 03/24/2015
By *[Signature]* JMS
Inspector Scott Walker, Council

[illegible]

Configuration	Width (in)	Allowed Glass Types	Height (in)										
			79 3/4" (6 ⁵)		83 3/4" (7 ⁰)		87 3/4"		91 3/4"		95 3/4" (8 ⁰)		
French Door	X	A, E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	
			+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	
	XX	A, E	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	+70.0	-80.0	
			+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	+100.0	-100.0	
Sidelite	Full Jamb	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
			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	+100.0	-100.0
	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	+98.3	-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)

PRODUCT REVISED
in compliance with the Florida
Building Code
Amendment No. 11-1013, 24
Registration Date FEB 28, 2015
M. J. [Signature]
Professional Engineer

A - 7/16" LAMI (3/16"A., .080 PVB, 3/16"HS)	FTL-4311, 4312, 4315
B - 7/16" LAMI (3/16"HS, .080 PVB, 3/16"HS)	UPGRADE FTL-4311, 4312, 4315
C - 7/16" LAMI (3/16"A., .075 VANCEVA, 3/16"HS)	FTL-4527, 4528, 4530
D - 7/16" LAMI (3/16"HS, .075 VANCEVA, 3/16"HS)	UPGRADE FTL-4527, 4528, 4530
E - 7/8" LAMI I.G. (3/16"TT, 1/4" AIR SPACE, 3/16"A., .080 PVB, 3/16"HS)	FTL-4311, 4312, 4315
F - 7/8" LAMI I.G. (3/16"TT, 1/4" AIR SPACE, 3/16"HS, .080 PVB, 3/16"HS)	UPGRADE FTL-4311, 4312, 4315
G - 7/8" LAMI I.G. (3/16"TT, 1/4" AIR SPACE, 3/16"A., .075 VANCEVA, 3/16"HS)	FTL-4527, 4528, 4530
H - 7/8" LAMI I.G. (3/16"TT, 1/4" AIR SPACE, 3/16"HS, .075 VANCEVA, 3/16"HS)	UPGRADE FTL-4527, 4528, 4530

Revised By	Date	Part Number	Notes	Quantity	Unit	Material	Finish	Remarks
J/C	01/05/08	B	UPDATE TABLE 1 TO ASTM F 1500-02	1	EA	100% T300 CARBON FIBER	BLACK	100% T300 CARBON FIBER DRIVE
J/C	02/05/08	C	ADDED INTERDIAGRAM FOR LOW RISE BOLL	1	EA	100% T300 CARBON FIBER	BLACK	100% T300 CARBON FIBER DRIVE
J/C	02/05/08	D	NO CHANGES THIS SHEET	1	EA	100% T300 CARBON FIBER	BLACK	100% T300 CARBON FIBER DRIVE
J/C	01/28/10	L.T.	NO CHANGES THIS SHEET	1	EA	100% T300 CARBON FIBER	BLACK	100% T300 CARBON FIBER DRIVE
J/C	12/23/04	L.T.	NO CHANGES THIS SHEET	1	EA	100% T300 CARBON FIBER	BLACK	100% T300 CARBON FIBER DRIVE

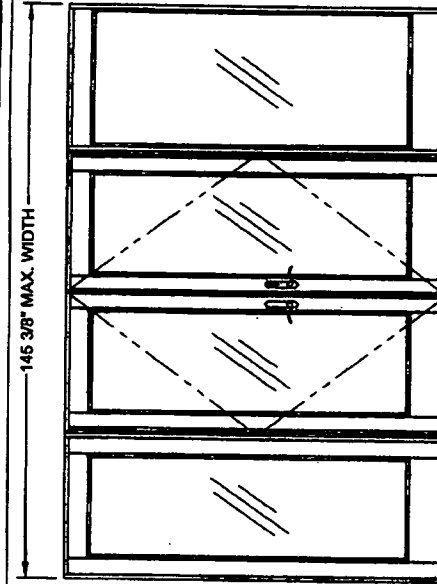
100% T300 CARBON FIBER DRIVE
NOMINALS: 10" x 4" x 1/2"
P.D. 305/329
NOMINALS: FL 34274

Quantity	Unit	Material	Finish	Remarks
1	EA	100% T300 CARBON FIBER	BLACK	100% T300 CARBON FIBER DRIVE

DESIGN PRESSURES

ALUM. FRENCH DOOR & SIDE LITES, IMPACT

Material	Grade	Quantity	Unit	Material	Grade	Quantity	Unit
NTS	3	12	EA	8000-11	E		



OXXO (SHOWING EACH VERSION SIDELITE)



O (NARROW JAMB)

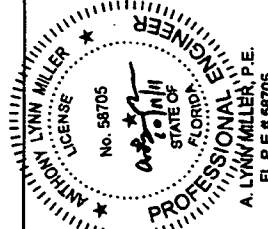
NOTES:
1. CONFIGURATIONS WITH SIDE LITES CAN BE EITHER NARROW JAMB OR FULL JAMB VERSION.
2. FOR ANCHOR SPACING AND DETAILS SEE SHEETS 8 THROUGH 11.
3. FOR VERTICAL SECTIONS SEE SHEET 6 AND FOR HORIZONTAL SECTIONS SEE SHEET 6.

Formal Title	Date	Signature	
F.A.	07/20/8	B	NO CHANGES THIS SHEET
Reviewed By	Date	Signature	
J.A.S.	06/22/09	C	NO CHANGES THIS SHEET
Final Title	Date	Signature	
J.R.	6/25/94	D	NO CHANGES THIS SHEET
Drawn by	Date	Checked by	Date
F.K.	12/23/04	L.T.	4/6/05

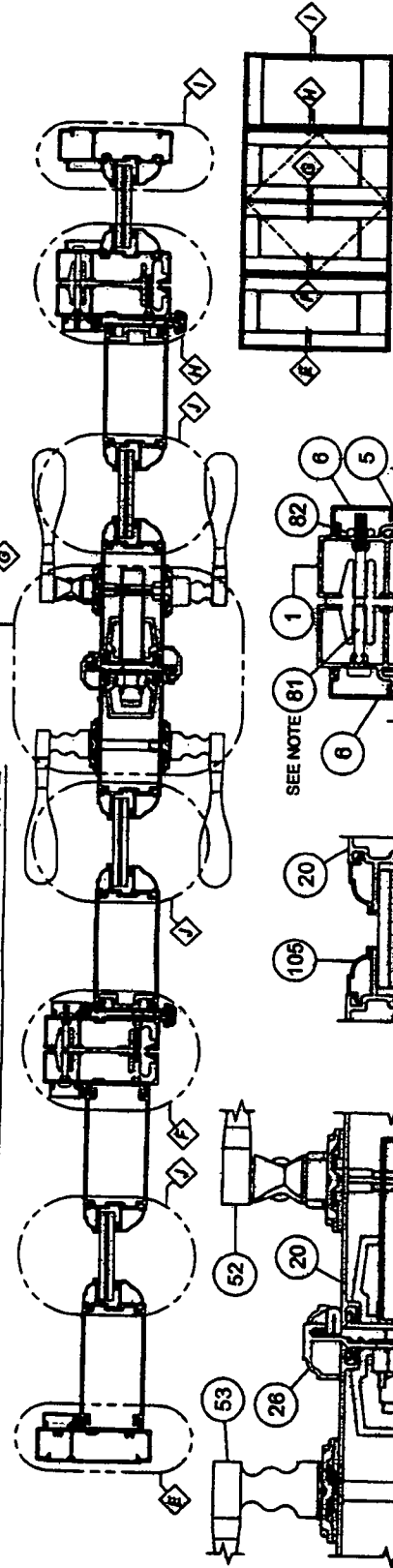
1050 TECHNOLOGY DRIVE
NOROLIS, FL 32709
PH. 822/6129
NOROLIS, FL 32774

Description	EXAMPLE ELEVATIONS					
Title	ALUM. FRENCH DOOR & SIDE LITES, IMPACT					
Manufacturer	Model	NTS	Scale	Quantity	Material	Notes
FD7980		4	" 12"		8000-11	E

PRODUCT REVIEWED
in compliance with the Florida
Building Code
Asymmetric No. 11-1013.74
Expiration Date FEB. 24, 2015
By *[Signature]*
Professional Seal Number 0000000000

[illegible]

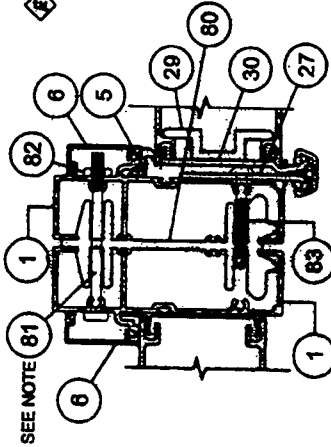
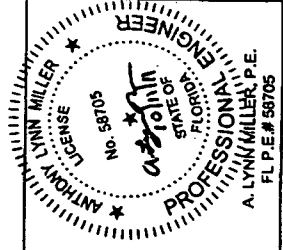
OXO HORIZONTAL SECTION SHOWING (1) OF EACH SIDE LITE TYPE



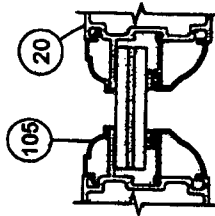
NOTE: ASSEMBLY HARDWARE QTY (3) 11" FROM TOP & BOTTOM AND ONE AT MIDSPAN

INTERIOR
EXTERIOR

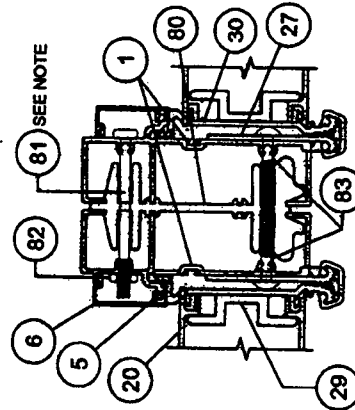
PRODUCT SERVICES
in conjunction with the Florida
Building Code
Approved by the Florida
Department of Building
Regulation
No. 11-10123-24
Expiration Date 12/31/15
Anthony Lynn Miller, P.E.
Professional Engineer
FL P.E.# 58705



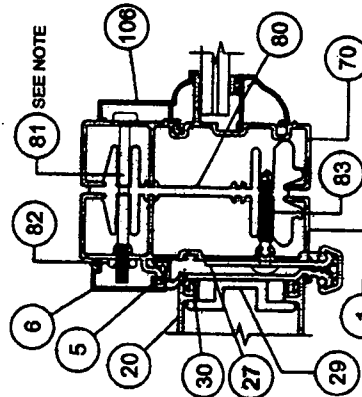
DETAIL F
FULL JAMB SIDE LITE
(AT HINGE JAMB)



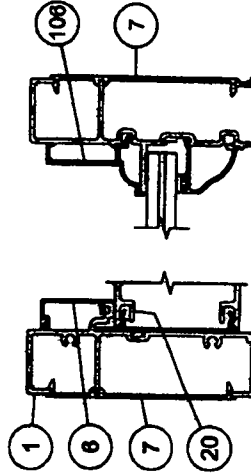
DETAIL J
SLAB AT
GLASS BED



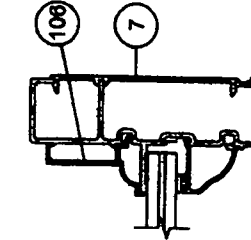
DETAIL K
HINGE JAMB TO HINGE JAMB
... (NOT SHOWN ABOVE)



DETAIL H
NARROW JAMB SIDE LITE
(AT HINGE JAMB)

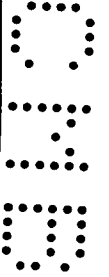


DETAIL E
JAMB, FULL JAMB
SIDE LITE



DETAIL I
JAMB, NARROW
JAMB SIDE LITE

Horizontal Section Details				ALUM. FRENCH DOOR & SIDE LITES, IMPACT			
Model No.	FD760	Size	1/2	Material	6	Finish	8000-11
Rev.		Qty	12	Notes			
NO CHANGE THIS SHEET NO CHANGE THIS SHEET NO CHANGE THIS SHEET NO CHANGE THIS SHEET							
Rev.	1	By	L.T.	Date	4/8/05		
Rev.	2	By	L.T.	Date	4/8/05		
Rev.	3	By	L.T.	Date	4/8/05		
Rev.	4	By	L.T.	Date	4/8/05		
Rev.	5	By	L.T.	Date	4/8/05		
Rev.	6	By	L.T.	Date	4/8/05		
Rev.	7	By	L.T.	Date	4/8/05		
Rev.	8	By	L.T.	Date	4/8/05		
Rev.	9	By	L.T.	Date	4/8/05		
Rev.	10	By	L.T.	Date	4/8/05		
Rev.	11	By	L.T.	Date	4/8/05		
Rev.	12	By	L.T.	Date	4/8/05		
Rev.	13	By	L.T.	Date	4/8/05		
Rev.	14	By	L.T.	Date	4/8/05		
Rev.	15	By	L.T.	Date	4/8/05		
Rev.	16	By	L.T.	Date	4/8/05		
Rev.	17	By	L.T.	Date	4/8/05		
Rev.	18	By	L.T.	Date	4/8/05		
Rev.	19	By	L.T.	Date	4/8/05		
Rev.	20	By	L.T.	Date	4/8/05		
Rev.	21	By	L.T.	Date	4/8/05		
Rev.	22	By	L.T.	Date	4/8/05		
Rev.	23	By	L.T.	Date	4/8/05		
Rev.	24	By	L.T.	Date	4/8/05		
Rev.	25	By	L.T.	Date	4/8/05		
Rev.	26	By	L.T.	Date	4/8/05		
Rev.	27	By	L.T.	Date	4/8/05		
Rev.	28	By	L.T.	Date	4/8/05		
Rev.	29	By	L.T.	Date	4/8/05		
Rev.	30	By	L.T.	Date	4/8/05		
Rev.	31	By	L.T.	Date	4/8/05		
Rev.	32	By	L.T.	Date	4/8/05		
Rev.	33	By	L.T.	Date	4/8/05		
Rev.	34	By	L.T.	Date	4/8/05		
Rev.	35	By	L.T.	Date	4/8/05		
Rev.	36	By	L.T.	Date	4/8/05		
Rev.	37	By	L.T.	Date	4/8/05		
Rev.	38	By	L.T.	Date	4/8/05		
Rev.	39	By	L.T.	Date	4/8/05		
Rev.	40	By	L.T.	Date	4/8/05		
Rev.	41	By	L.T.	Date	4/8/05		
Rev.	42	By	L.T.	Date	4/8/05		
Rev.	43	By	L.T.	Date	4/8/05		
Rev.	44	By	L.T.	Date	4/8/05		
Rev.	45	By	L.T.	Date	4/8/05		
Rev.	46	By	L.T.	Date	4/8/05		
Rev.	47	By	L.T.	Date	4/8/05		
Rev.	48	By	L.T.	Date	4/8/05		
Rev.	49	By	L.T.	Date	4/8/05		
Rev.	50	By	L.T.	Date	4/8/05		
Rev.	51	By	L.T.	Date	4/8/05		
Rev.	52	By	L.T.	Date	4/8/05		
Rev.	53	By	L.T.	Date	4/8/05		
Rev.	54	By	L.T.	Date	4/8/05		
Rev.	55	By	L.T.	Date	4/8/05		
Rev.	56	By	L.T.	Date	4/8/05		
Rev.	57	By	L.T.	Date	4/8/05		
Rev.	58	By	L.T.	Date	4/8/05		
Rev.	59	By	L.T.	Date	4/8/05		
Rev.	60	By	L.T.	Date	4/8/05		
Rev.	61	By	L.T.	Date	4/8/05		
Rev.	62	By	L.T.	Date	4/8/05		
Rev.	63	By	L.T.	Date	4/8/05		
Rev.	64	By	L.T.	Date	4/8/05		
Rev.	65	By	L.T.	Date	4/8/05		
Rev.	66	By	L.T.	Date	4/8/05		
Rev.	67	By	L.T.	Date	4/8/05		
Rev.	68	By	L.T.	Date	4/8/05		
Rev.	69	By	L.T.	Date	4/8/05		
Rev.	70	By	L.T.	Date	4/8/05		
Rev.	71	By	L.T.	Date	4/8/05		
Rev.	72	By	L.T.	Date	4/8/05		
Rev.	73	By	L.T.	Date	4/8/05		
Rev.	74	By	L.T.	Date	4/8/05		
Rev.	75	By	L.T.	Date	4/8/05		
Rev.	76	By	L.T.	Date	4/8/05		
Rev.	77	By	L.T.	Date	4/8/05		
Rev.	78	By	L.T.	Date	4/8/05		
Rev.	79	By	L.T.	Date	4/8/05		
Rev.	80	By	L.T.	Date	4/8/05		
Rev.	81	By	L.T.	Date	4/8/05		
Rev.	82	By	L.T.	Date	4/8/05		
Rev.	83	By	L.T.	Date	4/8/05		
Rev.	84	By	L.T.	Date	4/8/05		
Rev.	85	By	L.T.	Date	4/8/05		
Rev.	86	By	L.T.	Date	4/8/05		
Rev.	87	By	L.T.	Date	4/8/05		
Rev.	88	By	L.T.	Date	4/8/05		
Rev.	89	By	L.T.	Date	4/8/05		
Rev.	90	By	L.T.	Date	4/8/05		
Rev.	91	By	L.T.	Date	4/8/05		
Rev.	92	By	L.T.	Date	4/8/05		
Rev.	93	By	L.T.	Date	4/8/05		
Rev.	94	By	L.T.	Date	4/8/05		
Rev.	95	By	L.T.	Date	4/8/05		
Rev.	96	By	L.T.	Date	4/8/05		
Rev.	97	By	L.T.	Date	4/8/05		
Rev.	98	By	L.T.	Date	4/8/05		
Rev.	99	By	L.T.	Date	4/8/05		
Rev.	100	By	L.T.	Date	4/8/05		



FD758 DOOR(S)		DESCRIPTION	PCTV
ITEM	DWG#		
1	8005	FRAME - HEAD & HINGE/JAMB	68005
2	8003A	OUT-SWING SILL	68003A
3	8004C	OUT-SWING SILL COVER	68004C
4	8008	DRIP CAP	68008
5	8009	HEAD, SILL & JAMB WEATHERSTRIP (SCHEDULE)	080377E500
6	8007	SCREW COVER	68007
7	8009	INSTALL PLATE	68009
8	8005	FRAME ASSEMBLY SCREW #8 X 1" PH QUAD	781PQA
9	8002	ASTRAGAL END BRAD	48002
10	8008	OUT-SWING SILL (LOW RISE)	48008
DOOR PANEL			
1	8005	HEAD, SILL & JAMB WEATHERSTRIP (SCHEDULE)	080377E500
2	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	8015	SWEEP SCREWS #4 X 1/2" PH LPH	68015
26	8012	ASTRAGAL ACTIVE & INACTIVE	68012
27	8014	BEAR HINGE JAMB SIDE	68014
28	8014	BEAR HINGE COVER	68014
29	8014	BEAR HINGE BACK-UP PLATE	68014
30	8014	BEAR HINGE DOOR SIDE	68014
31	8005	BEAR HINGE FINISHING	68005
32	8005	BEAR HINGE SET SCREW #4-22 X 1/4"	68005
33	8005	BEAR HINGE SET SCREW #12 X 1/4" TRUSS HD.	68005
34	8005	BEAR HINGE SET SCREW #12 X 1/2" TRUSS HD.	68005
35	8005	THREADED ROD 5/16-18 X 3"	68005
36	8005	FLANGED HEX NUT 5/16-18	68005
37	8005	TRUSS CLAMP	68005
38	8005	GRAT LATCH MECHANISM (ASHLAND)	68005
39	8005	LOCK BLOCK	68005
40	8005	LATCH ASSEMBLY SCREW #8 X 2" SS PHILL TR HD	68005
41	8005	SHOOT BOLT ROD (SULLIVAN)	68005
42	8005	STANDARD FLUSH BOLTS W/SS ROD (SULLIVAN)	68005
43	8005	SHOOT BOLT CLONE	68005
44	8005	SHOOT BOLT CLONE & STRIKE SCREW 8-22 X 3/8" SS PHILL TR HD	68005
45	8005	RIGHT - STRIKE PLATE AT ASTRAGAL (ACTIVE/HINGED LEFT)	68005
46	8005	LEFT - STRIKE PLATE AT ASTRAGAL (ACTIVE/HINGED RIGHT)	68005
47	8005	STRIKE PLATE SCREW 8-22 X 3/8" SS PHILL TR HD	68005
48	8005	STRIKE PLATE MIDDLE SCREW 6-24 X 1/2" PH	68005
49	8005	STRIKE PLATE AT HEAD & SILL	68005
50	8005	HEAD STRIKE SCREW 8-22 X 1/2" PHILL PH	68005
51	8005	STRIKE PLATE SCREW 8-22 X 1/2" PHILL UNDERCUT PH	68005
52	8005	ACTIVE TRIM SET (ASHLAND)	68005
53	8005	PASSIVE TRIM SET (ASHLAND)	68005
54	8005	STAINLESS STEEL MASSIVE LOCK GEAR (ASHLAND)	68005
55	8005	TOP RAIL (LAG BOLT DESIGN)	68005
56	8005	BOTTOM RAIL (LAG BOLT DESIGN)	68005
57	8005	5/16" X 3 1/2" LAG BOLTS	68005

FD758 FULL JAMB SIDE LITE		DESCRIPTION	PCTV
ITEM	DWG#		
1	8005	FRAME - HEAD, SILL & JAMB	68005
4	8008	DRIP CAP	68008
6	8007	SCREW COVER	68007
7	8009	INSTALL PLATE	68009
8	8005	FRAME ASSEMBLY SCREW #8 X 1" PH QUAD	781PQA
20	8012	STILE	68012
21	8014	TOP RAIL	68014
22	8013	BOTTOM RAIL	68013
35	8005	THREADED ROD 5/16-18 X 3"	68005
36	8005	FLANGED HEX NUT 5/16-18	68005
37	8009	TRUSS CLAMP	68009
40	8005	4 1/2" X 3/4" PH SQ DRIVE TEK SCREW	7804PSTW
41	8005	SOB LITE HEAD TRIM	68005
42	8009	SOB LITE JAMB TRIM	68009
FD758 NARROW JAMB SIDE LITE			
1	8005	FRAME - HEAD & SILL	68005
4	8008	DRIP CAP	68008
6	8007	SCREW COVER	68007
7	8009	INSTALL PLATE	68009
8	8005	FRAME ASSEMBLY SCREW #8 X 1" PH QUAD	781PQA
21	8014	TOP RAIL	68014
22	8013	BOTTOM RAIL	68013
35	8005	THREADED ROD 5/16-18 X 3"	68005
36	8005	FLANGED HEX NUT 5/16-18	68005
37	8009	TRUSS CLAMP	68009
40	8005	4 1/2" X 3/4" PH SQ DRIVE TEK SCREW	7804PSTW
41	8005	SOB LITE HEAD TRIM	68005
42	8009	SOB LITE JAMB TRIM	68009
ASSEMBLY KIT			
80	8005	FRENCH DOOR ASSEMBLY BEAM	68005
81	8005	5/16-18 X 2 1/2" PH SCREW	68005
82	8005	5/16-18 HEX NUT	68005
83	8005	5/16 X 1 1/2" TR HD TEK SCREW	68005
84	8005	SUBELL (OPTIONAL)	68005
GLASS, BEADS & SILICONE			
90	8005	GLAZING SEALANT, DOW CORNING 885, 995 OR EQUIVALENT	68005
91	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
92	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
93	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
94	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
95	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
96	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
97	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
98	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
99	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
100	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
101	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
102	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
103	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
104	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
105	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
106	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
107	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
108	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
109	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
110	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
111	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
112	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
113	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
114	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
115	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
116	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
117	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
118	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
119	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
120	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
121	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
122	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
123	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
124	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
125	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
126	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
127	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
128	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
129	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
130	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
131	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
132	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
133	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
134	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
135	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
136	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
137	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
138	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
139	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
140	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
141	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
142	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
143	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
144	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
145	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
146	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
147	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
148	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
149	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
150	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
151	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
152	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
153	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
154	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
155	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
156	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
157	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
158	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
159	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
160	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
161	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
162	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
163	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
164	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
165	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
166	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
167	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
168	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
169	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
170	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
171	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
172	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
173	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
174	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
175	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
176	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
177	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
178	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
179	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
180	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
181	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
182	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
183	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
184	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
185	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
186	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
187	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
188	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
189	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
190	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
191	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
192	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
193	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
194	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
195	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
196	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
197	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
198	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
199	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005
200	8005	7/16" LAMINATED GLASS 1/4" ANN. 000 PWS, 3/16" HS	68005

1970 TECHNOLOGY DRIVE
MONTICELLO, IL 61878
P.O. BOX 1609
MONTICELLO, IL 61874

UPDATE ITEM 2, ADD ITEM 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77,

PRODUCT REVIEWED
as complying with the Florida
Building Code
Adopted by Resolution No. 11-03-24
Effective Date 11/03/2015

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

EXTRUSION PROFILES
ALUM. FRENCH DOOR & SIDE LITES, IMPACT

Profile	1/2	8	12	8000-11	E
FD780					

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

#8004C 6063-T5
OS SILL COVER

#8008 6063-T5
DRIP CAP

#8009 6063-T5
INSTALL PLATE

#8056 6063-T6
OUT-SWING LOW SILL

#8017 6063-T5
TOP SWEEP

#8012 6063-T6
STILE

#8014 6063-T5
TOP RAIL

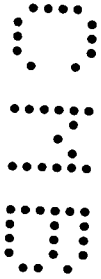
#8016 6063-T5
BOTTOM SWEEP

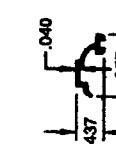
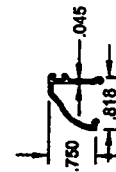
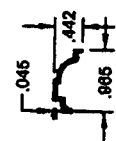
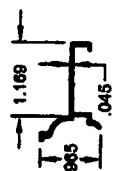
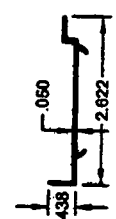
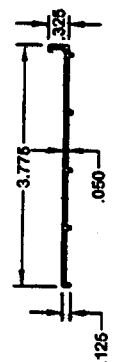
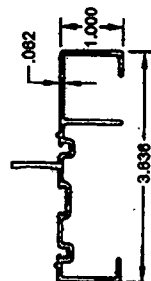
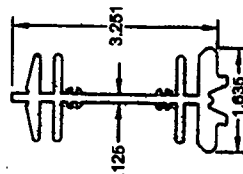
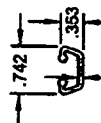
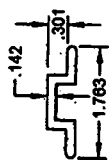
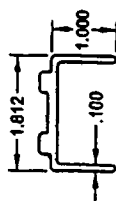
#8013 6063-T6
BOTTOM RAIL

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

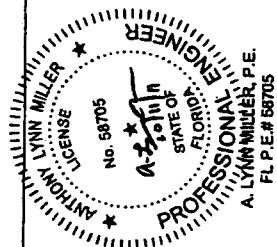
#8015 6063-T6
ASTRAGAL

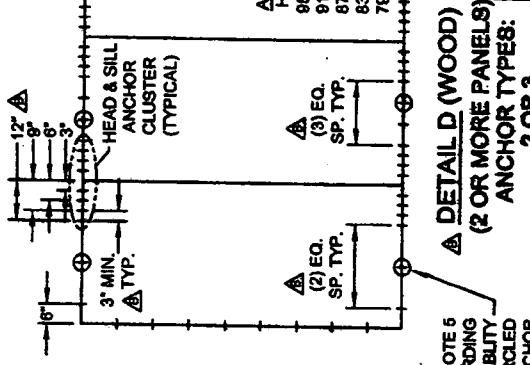
#8013A 6063-T6
BOTTOM RAIL, LAG BOLT DESIGN





PRODUCT REVIEWED
in compliance with the Florida
Shipping Code
Acceptance No. 11-1013-2A
Expiration Date FEB. 14, 2015
By *[Signature]*
FBI - Miami

[illegible]

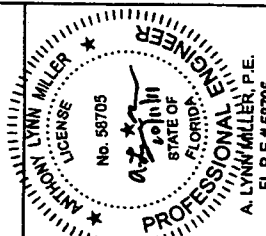


HEAD AND SILL.....6" MAX. FROM FRAME CORNERS, AND AT 3", 6", 9" AND 12" MAX. ON EACH SIDE OF ASSEMBLY BEAM AND/OR ASTRAGAL LOCATIONS (CLUSTER OF 8), PLUS ENCRICLED ANCHORS OUTSIDE CLUSTERS, REQUIRED ONLY ON PANEL WIDTHS OVER 27 3/4".

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

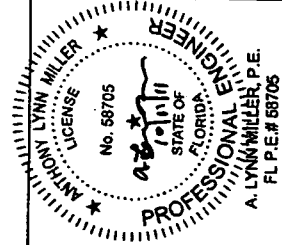
[illegible]

FEDERAL OF MARYLAND
 is complying with the Federal
 Building Code.
 Assignment No. 11-1013-24
 Expiration Date 12/15/2015
 11-1013-24
 11-1013-24
 11-1013-24

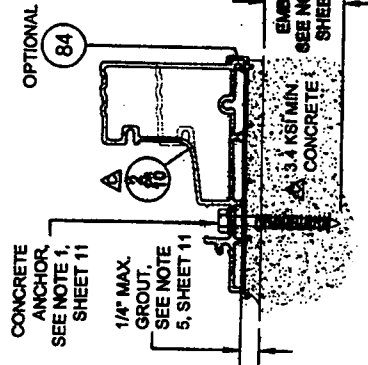




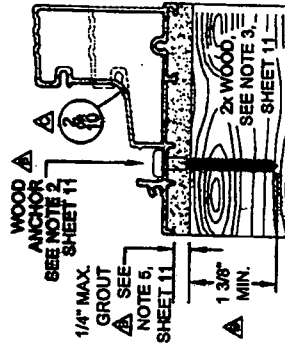
PHASE TWO REPORT
 in compliance with the Florida
 Building Code
 Address: No. 11-103-2A
 Inspection Date FEB. 14, 2015
 By: *[Signature]*
 Project: *[Signature]*



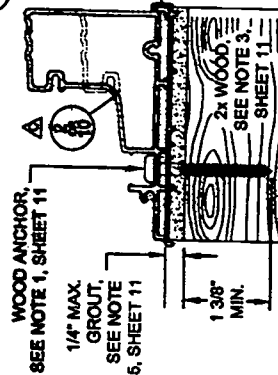
(ALL SILL SECTIONS)



TYPICAL DOOR SILL
(DIRECT TO CONCRETE)

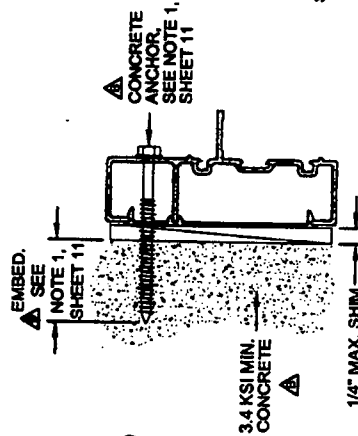


TYPICAL DOOR SILL
(DIRECT TO WOOD)

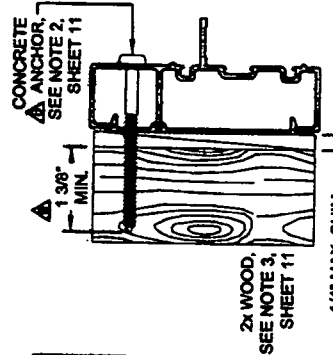
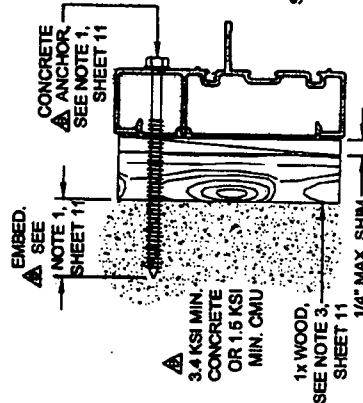


OPTIONAL DOOR SILL
(SUBSILL TO WOOD)

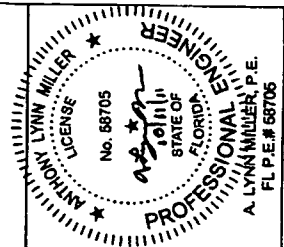
↑
INTERIOR
(ALL JAMB SECTIONS)
EXTERIOR



TYPICAL DOOR & SIDE LITE JAMB



PRODUCT RECEIVED
in compliance with the Florida
Building Code
Aspiration No. 11-1013-24-
Expiration Date FEB 25, 2015
Inspector: [Signature]

[illegible]

FLORIDA DEPARTMENT OF Community Affairs



[DCA HOME](#) [ABOUT DCA](#) [DCA PROGRAMS](#) [CONTACT](#)

[BCIS Home](#) | [Log In](#) | [User Registration](#) | [Hot Topics](#) | [Submit Surcharge](#) | [Stats & Facts](#) | [Publications](#) | [FBC Staff](#) | [BCIS Site Map](#) | [Links](#) | [Search](#)



Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > [Application Detail](#)

- ▶ COMMUNITY PLANNING
- ▶ HOUSING & COMMUNITY DEVELOPMENT
- ▶ EMERGENCY MANAGEMENT
- ▶ OFFICE OF THE SECRETARY

FL #

FL8692-R2

Application Type

Revision

Code Version

2007

Application Status

Approved

*Approved by DCA. Approvals by DCA shall be reviewed and ratified by the POC and/or the Commission if necessary.

Comments

Archived

Product Manufacturer

Masonite International

Address/Phone/Email

One North Dale Mabry
Suite 950
Tampa, FL 33609
(615) 441-4258
sschreiber@masonite.com

Authorized Signature

Steve Schreiber
sschreiber@masonite.com

Technical Representative

Address/Phone/Email

Quality Assurance Representative

Address/Phone/Email

Category

Exterior Doors

Subcategory

Swinging Exterior Door Assemblies

Compliance Method

Certification Mark or Listing

Certification Agency

National Accreditation & Management Institute,

Validated By

National Accreditation & Management Institute,

Referenced Standard and Year (of Standard)

Standard

Year

TAS 201

1994

TAS 202

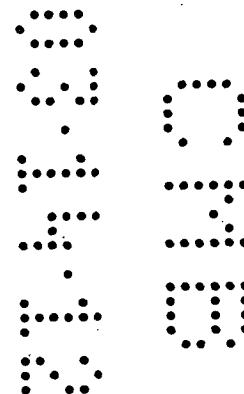
1994

TAS 203

1994

Equivalence of Product Standards

Certified By



Product Approval Method

Method 1 Option A

Date Submitted

02/01/2011

Date Validated

03/10/2011

Date Pending FBC Approval

Date Approved

03/22/2011

Summary of Products

FL #	Model, Number or Name	Description
8692.1	Hurricane Belleville Fiberglass Door Unit	6'-8" Opaque I/S and O/S Single Door
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +70.0/-70.0 Other: Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7 do not exceed the design pressures listed. 3'-0" x 6'-8" max nominal size. Hurricane protective system is NOT required. See anchor detail DWG-MA-FL0170-07 for additional information.		Certification Agency Certificate FL8692_R2_C_CAC_NI007077-R1.PDF Quality Assurance Contract Expiration Date 12/31/2014 Installation Instructions FL8692_R2_II_FL0170.pdf Verified By: National Accreditation & Management Institute, Created by Independent Third Party: Evaluation Reports FL8692_R2_AE_504A.pdf Created by Independent Third Party: Yes
8692.2	Hurricane Belleville Fiberglass Door Unit	8'-0" Opaque I/S and O/S Single Door
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +70.0/-70.0 Other: Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7 do not exceed the design pressures listed. 3'-0" x 8'-0" max nominal size. Hurricane protective system is NOT required. See anchor detail DWG-MA-FL0171-07 for additional information.		Certification Agency Certificate FL8692_R2_C_CAC_NI007077-R1.PDF Quality Assurance Contract Expiration Date 12/31/2014 Installation Instructions FL8692_R2_II_FL0171.pdf Verified By: National Accreditation & Management Institute, Created by Independent Third Party: Evaluation Reports FL8692_R2_AE_503A.pdf Created by Independent Third Party: Yes
8692.3	Hurricane Belleville Fiberglass Door Unit	6'-8" Opaque I/S Single or Double Door w/ or w/o Sidelites
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +50.5/-50.5 Other: Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7 do not exceed the design pressures listed. 12'-0" x 6'-8" max nominal size. Hurricane protective system is NOT required. See anchor detail DWG-MA-FL0170-07 for additional information.		Certification Agency Certificate FL8692_R2_C_CAC_NI007077-R1.PDF Quality Assurance Contract Expiration Date 12/31/2014 Installation Instructions FL8692_R2_II_FL0170.pdf Verified By: National Accreditation & Management Institute, Created by Independent Third Party: Evaluation Reports FL8692_R2_AE_502A.pdf Created by Independent Third Party: Yes
8692.4	Hurricane Belleville Fiberglass Door Unit	6'-8" Opaque O/S Single or Double Door w/ or w/o Sidelites
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +55.0/-50.5 Other: Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7 do not exceed the design pressures listed. 12'-0" x 6'-8" max nominal size. Hurricane protective system is NOT required. See anchor detail DWG-MA-FL0170-07 for additional information.		Certification Agency Certificate FL8692_R2_C_CAC_NI007077-R1.PDF Quality Assurance Contract Expiration Date 12/31/2014 Installation Instructions FL8692_R2_II_FL0170.pdf Verified By: National Accreditation & Management Institute, Created by Independent Third Party:

Hurricane Zone, and where pressure requirements as determined by ASCE 7 do not exceed the design pressures listed. 12'-0" x 6'-8" max nominal size. Hurricane protective system is NOT required. See anchor detail DWG-MA-FL0170-07 for additional information.		Institute, Created by Independent Third Party: Evaluation Reports FL8692 R2 AE 502A.pdf Created by Independent Third Party: Yes
8692.5	Hurricane Belleville Fiberglass Door Unit	8'-0" Opaque I/S Single or Double Door w/ or w/o Sidelites
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +50.5/-50.5 Other: Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7 do not exceed the design pressures listed. 12'-0" x 8'-0" max nominal size. Hurricane protective system is NOT required. See anchor detail DWG-MA-FL0171-07 for additional information.		Certification Agency Certificate FL8692 R2 C CAC NI007077-R1.PDF Quality Assurance Contract Expiration Date 12/31/2014 Installation Instructions FL8692 R2 II FL0171.pdf Verified By: National Accreditation & Management Institute, Created by Independent Third Party: Evaluation Reports FL8692 R2 AE 501A.pdf Created by Independent Third Party: Yes
8692.6	Hurricane Belleville Fiberglass Door Unit	8'-0" Opaque O/S Single or Double Door w/ or w/o Sidelites
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +55.0/-50.5 Other: Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7 do not exceed the design pressures listed. 12'-0" x 8'-0" max nominal size. Hurricane protective system is NOT required. See anchor detail DWG-MA-FL0171-07 for additional information.		Certification Agency Certificate FL8692 R2 C CAC NI007077-R1.PDF Quality Assurance Contract Expiration Date 12/31/2014 Installation Instructions FL8692 R2 II FL0171.pdf Verified By: National Accreditation & Management Institute, Created by Independent Third Party: Evaluation Reports FL8692 R2 AE 501A.pdf Created by Independent Third Party: Yes
8692.7	Hurricane Belleville Fiberglass Door Unit	6'-8" Glazed I/S and O/S Single or Double Door w/ or w/o Sidelites
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +55.0/-55.0 Other: Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7 do not exceed the design pressures listed. 12'-0" x 6'-8" max nominal size. Hurricane protective system is NOT required. See anchor detail DWG-MA-FL0172-07 for additional information.		Certification Agency Certificate FL8692 R2 C CAC NI007077-R1.PDF Quality Assurance Contract Expiration Date 12/31/2014 Installation Instructions FL8692 R2 II FL0172.pdf Verified By: National Accreditation & Management Institute, Created by Independent Third Party: Evaluation Reports FL8692 R2 AE 502A.pdf Created by Independent Third Party: Yes
8692.8	Hurricane Belleville Fiberglass Door Unit	8'-0" Glazed I/S Single or Double Door w/ or w/o Sidelites
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +43.0/-47.0 Other: Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7 do not exceed the design pressures listed. 12'-0" x 8'-0" max nominal size. Hurricane protective system is NOT required. See anchor detail DWG-MA-FL0173-07 for additional information.		Certification Agency Certificate FL8692 R2 C CAC NI007077-R1.PDF Quality Assurance Contract Expiration Date 12/31/2014 Installation Instructions FL8692 R2 II FL0173.pdf Verified By: National Accreditation & Management Institute, Created by Independent Third Party: Evaluation Reports FL8692 R2 AE 501A.pdf Created by Independent Third Party: Yes
8692.9	Hurricane Belleville Fiberglass Door Unit	8'-0" Glazed O/S Single or Double Door w/ or w/o Sidelites
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes		Certification Agency Certificate FL8692 R2 C CAC NI007077-R1.PDF Quality Assurance Contract Expiration Date

Impact Resistant: Yes Design Pressure: +47.0/-45.0 Other: Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7 do not exceed the design pressures listed. 12'-0" x 8'-0" max nominal size. Hurricane protective system is NOT required. See anchor detail DWG-MA-FL0173-07 for additional information.	12/31/2014 Installation Instructions FL8692_R2_II_FL0173.pdf Verified By: National Accreditation & Management Institute, Created by Independent Third Party: Evaluation Reports FL8692_R2_AE_501A.pdf Created by Independent Third Party: Yes
8692.10 Hurricane Belleville Fiberglass Door Unit	8'-0" Glazed I/S and O/S Single or Double Door w/ or w/o Sidelites (with surface bolts)
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +55.0/-55.0 Other: Evaluated for use in locations adhering to the Florida Building Code including the High Velocity Hurricane Zone, and where pressure requirements as determined by ASCE 7 do not exceed the design pressures listed. 12'-0" x 8'-0" max nominal size. Hurricane protective system is NOT required. See anchor detail DWG-MA-FL0173-07 for additional information.	Certification Agency Certificate FL8692_R2_C_CAC_NI007077-R1.PDF Quality Assurance Contract Expiration Date 12/31/2014 Installation Instructions FL8692_R2_II_FL0173.pdf Verified By: National Accreditation & Management Institute, Created by Independent Third Party: Evaluation Reports FL8692_R2_AE_501A.pdf Created by Independent Third Party: Yes

[Back](#)
[Next](#)

Department of Community Affairs
 Florida Building Code Online
 Codes and Standards
 2555 Shumard Oak Boulevard
 Tallahassee, Florida 32399-2100
 (850) 487-1824, Fax (850) 414-8436

© 2000-2010 The State of Florida. All rights reserved.

[Privacy Statement](#) |
 [Copyright Statement](#) |
 [Accessibility Statement](#) |
 [Plug-in Software](#) |
 [Customer Service Survey](#) |
 [Contact Us](#)

Product Approval Accepts:





HURRICANE BELLEVILLE FIBERGLASS DOOR UNIT 6-8" DOUBLE DOOR WITH / WITHOUT SIDELITES

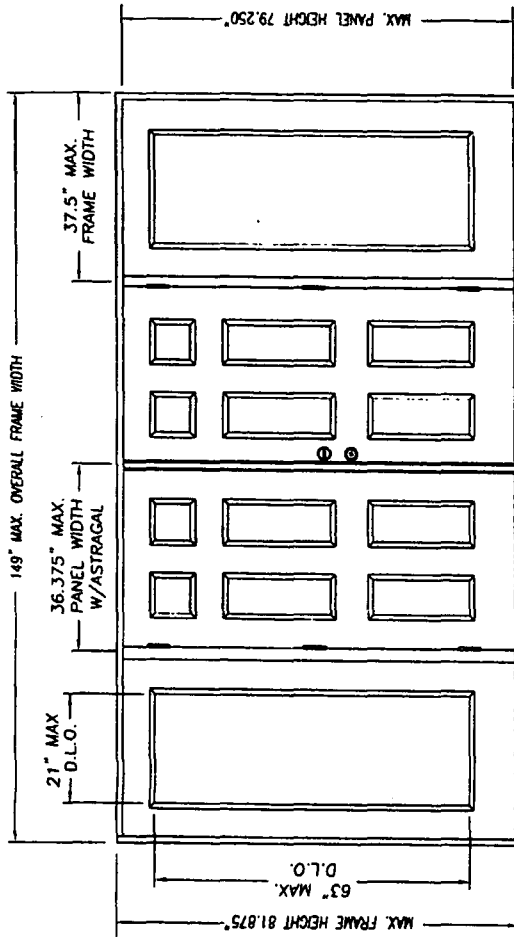
GENERAL NOTES

- EVALUATED FOR USE IN LOCATIONS ADHERING TO THE FLORIDA BUILDING CODE AND WHERE PRESSURE REQUIREMENTS AS DETERMINED BY ASCE 7, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, DOES NOT EXCEED THE DESIGN PRESSURES LISTED.
- THIS PRODUCT DOES NOT REQUIRE THE USE OF A HURRICANE PROTECTIVE SYSTEM (SHUTTERS).
- POLYURETHANE CORE FLAME SPREAD INDEX OF 50 AND SMOKE DEVELOPED INDEX OF 60 PER ASTM E84.
- PLASTICS TESTING OF FIBERGLASS FACING:

TEST DESCRIPTION	DESIGNATION	RESULT
SELF IGNITION TEMP	ASTM D1929	732 °F > 650 °F
RATE OF BURNING	ASTM D635	0.56 IN/MIN
SMOKE DENSITY	ASTM D2843	53.4%
TENSILE STRENGTH*	ASTM D638	3.2% DIFF
- PLASTICS TESTING OF LITE FRAME MATERIAL:

TEST DESCRIPTION	DESIGNATION	RESULT
SELF IGNITION TEMP	ASTM D1929	980 °F > 650 °F
RATE OF BURNING	ASTM D635	1.04 IN/MIN
SMOKE DENSITY	ASTM D2843	73.8%
TENSILE STRENGTH*	ASTM D638	2.8% DIFF

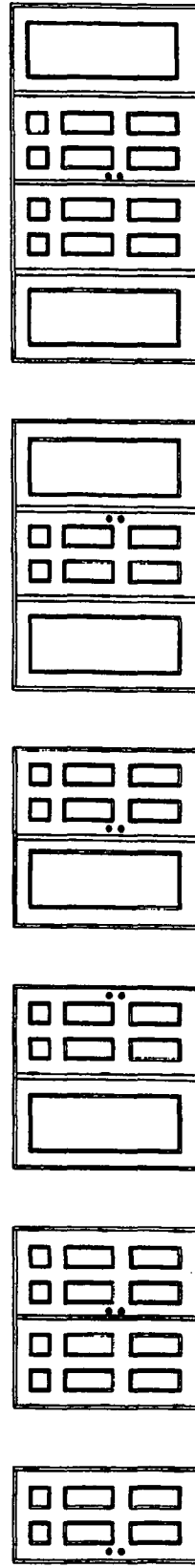
* COMPARATIVE TENSILE STRENGTH AFTER WEATHERING
4500 HOURS XENON ARC METHOD 1



DOUBLE DOOR UNIT W/SIDELITES

Attachment to NAB

Certification No.: N160 3072-21
Reviewed By: [Signature]
Date Reviewed: 12/12/16



SINGLE DOOR UNIT DOUBLE DOOR UNIT SINGLE DOOR UNIT W/SIDELITES DOUBLE DOOR UNIT W/SIDELITES

SHEET #	DESCRIPTION
1	TYPICAL ELEVATIONS & GENERAL NOTES
2	ANCHORING LOCATIONS & DETAILS
3	ANCHORING LOCATIONS & DETAILS

CONFIG	MAX WIDTH	DESIGN PRESSURE RATING				WHERE WATER INFILTRATION PERFORMANCE IS REQUIRED TO BE 15% OF DESIGN PRESSURE			
		INSWING	OUTSWING	INSWING	OUTSWING	INSWING	OUTSWING	INSWING	OUTSWING
X	37.5"	+70.0 / -70.0	+70.0 / -70.0	+19.0 / -19.0	+70.0 / -70.0	+70.0 / -70.0	+70.0 / -70.0	+70.0 / -70.0	+70.0 / -70.0
XX	74"	+50.5 / -50.5	+50.5 / -50.5	+19.0 / -19.0	+40.0 / -40.0	+40.0 / -40.0	+40.0 / -40.0	+40.0 / -40.0	+40.0 / -40.0
OX or XO	75"	+50.5 / -50.5	+50.5 / -50.5	+19.0 / -19.0	+40.0 / -40.0	+40.0 / -40.0	+40.0 / -40.0	+40.0 / -40.0	+40.0 / -40.0
OXO or XOX	112.5"	+50.5 / -50.5	+50.5 / -50.5	+19.0 / -19.0	+40.0 / -40.0	+40.0 / -40.0	+40.0 / -40.0	+40.0 / -40.0	+40.0 / -40.0
OXOX	149"	+50.5 / -50.5	+50.5 / -50.5	+19.0 / -19.0	+40.0 / -40.0	+40.0 / -40.0	+40.0 / -40.0	+40.0 / -40.0	+40.0 / -40.0

* High Dam Threshold Design

1-21-11

Kurt Balhazor
FLORIDA P.E.
#56533

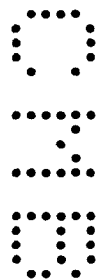
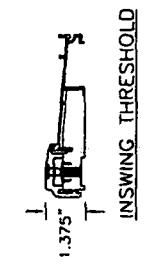
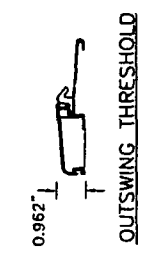
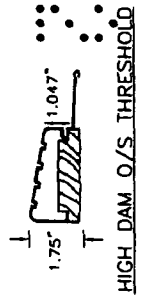
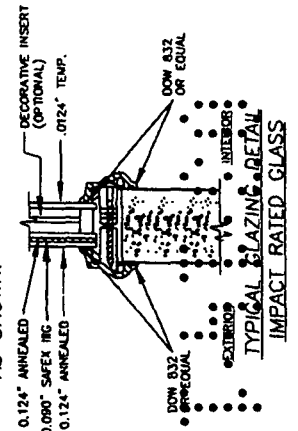
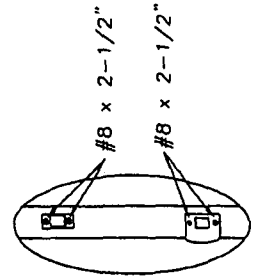
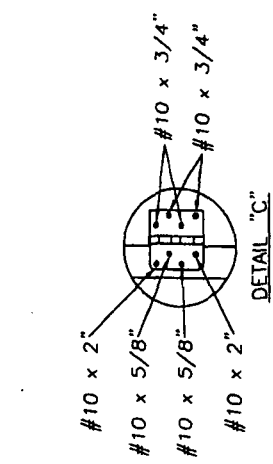
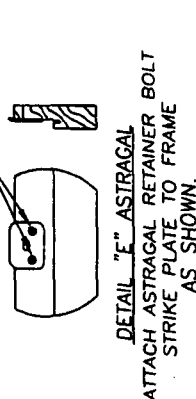
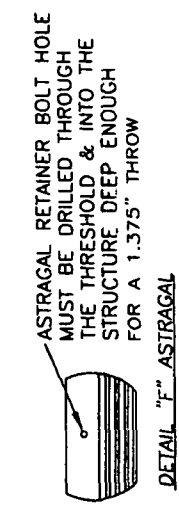
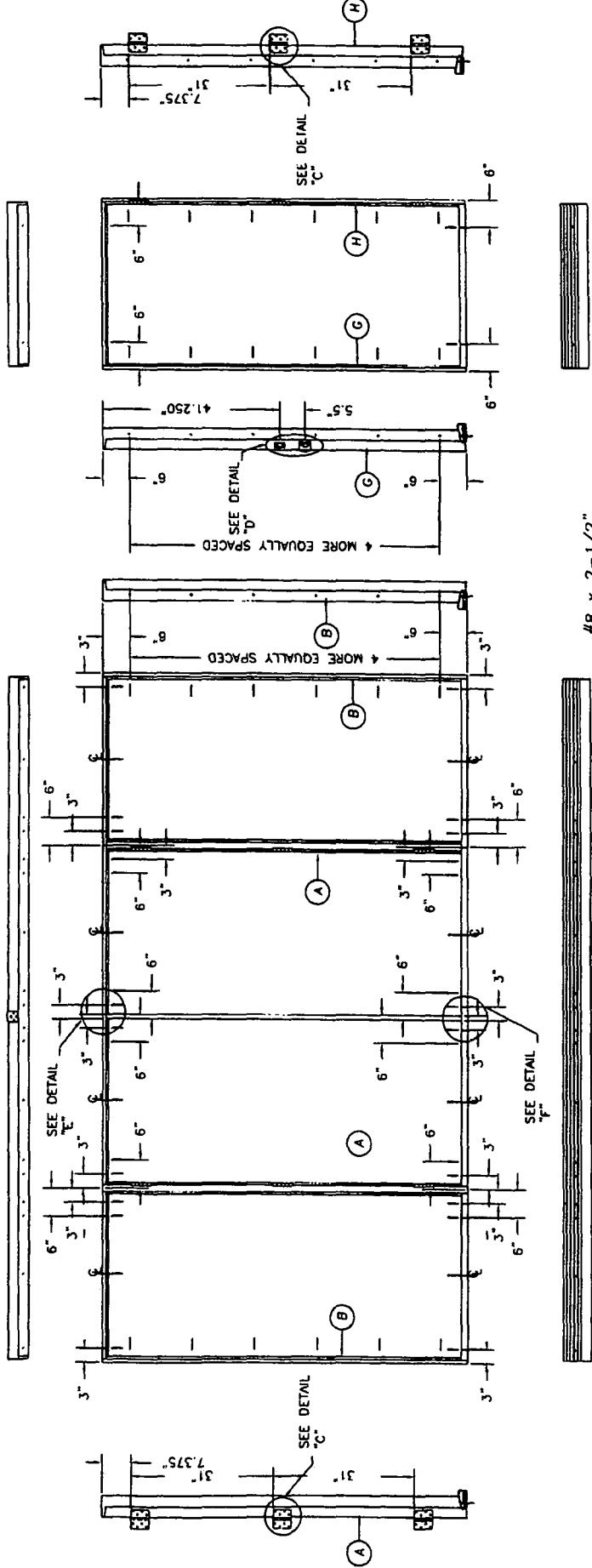
MASONITE INTERNATIONAL CORP.
1955 POWIS ROAD
WEST CHICAGO, IL 60185

PRODUCT: EXTERIOR DOOR PRODUCT
DOUBLE 6-8" OPaque
FIBERGLASS DOOR
PART OR ASSEMBLY:
TYPICAL ELEVATIONS
& GENERAL NOTES

REVISIONS
NO. DATE
A 11/2/10
MISC UPDATES
BY SWS

DATE: 4/9/07
SCALE: N.T.S.
DWG. BY: SWS
CHK. BY:
DRAWING NO.:
DWG-M4-F10170-07
SHEET 1 of 3

MASONITE INTERNATIONAL CORP. 1955 POWIS ROAD WEST CHICAGO, IL 60185		PRODUCT: EXTERIOR DOOR PRODUCT 6" 6" FIBERGLASS OPaque DOUBLE DOOR UNIT PART OR ASSEMBLY: ANCHORING LOCATIONS & DETAILS		REVISIONS NO. DATE BY SWS 11/2/10 MISC UPDATES 11/2/10	
DATE: 4/9/07 SCALE: N.T.S. DWG. BY: SWS CHK. BY: DRAWING NO.: DWG-MA-FD170-07 SHEET 2 of 3		Certification No.: N160 7073-21 Reviewed By: [Signature] Date Reviewed: 12/2/10 Addendum to HAM			

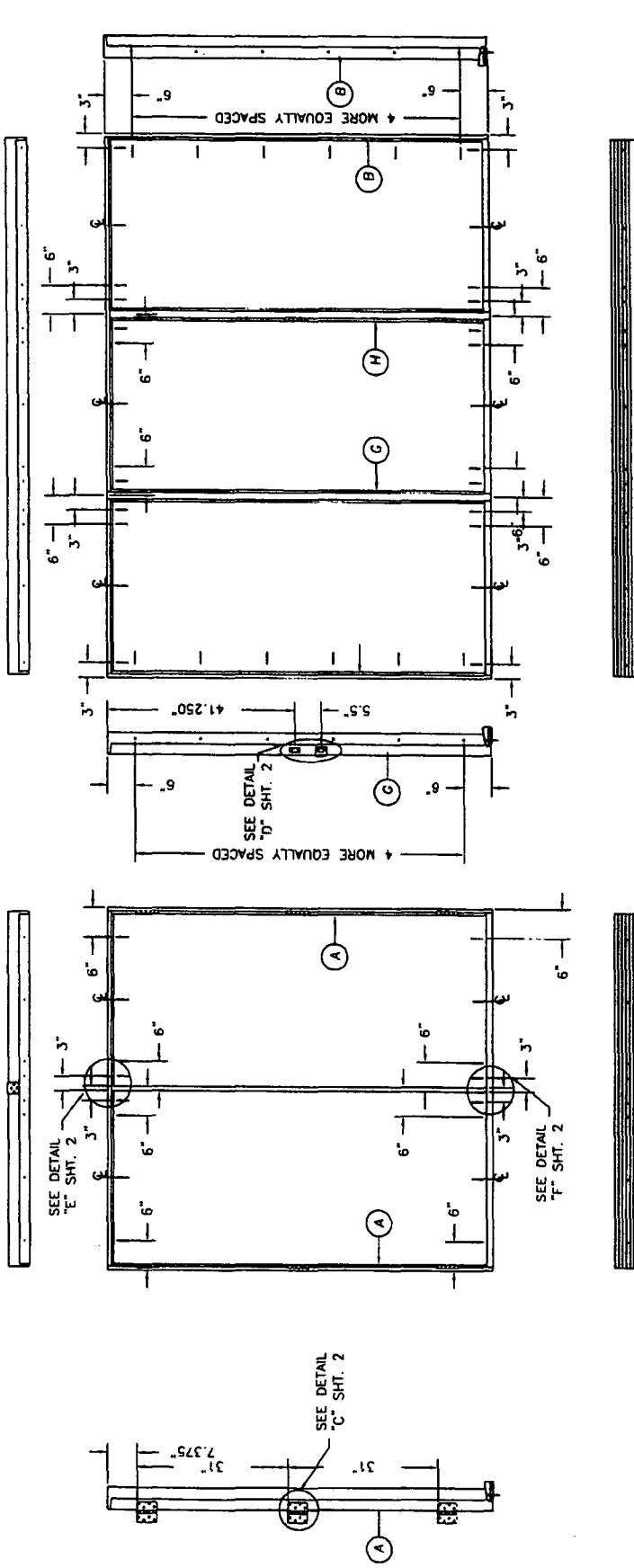


MASONITE INTERNATIONAL CORP.
1955 POWIS ROAD
WEST CHICAGO, IL 60185

PRODUCT:
EXTERIOR DOOR PRODUCT
6-8" FIBERGLASS OPaque
DOUBLE DOOR UNIT
ANCHORING LOCATIONS
& DETAILS

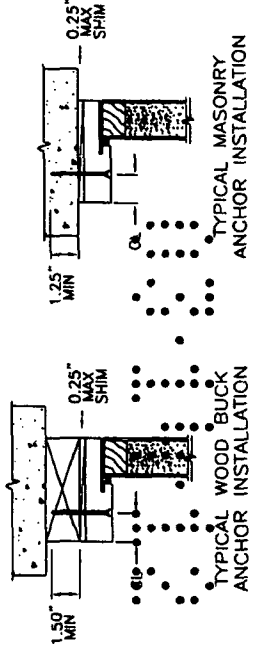
REVISIONS	NO.	DATE
MISC UPDATES	11/2/10	
BY		
SWS		

DATE: 4/9/07
SCALE: N.T.S.
DWG. BY: SWS
CHK. BY:
DRAWING NO.:
DWG-44-FL0170-07
SHEET 3 OF 3



HARDWARE SCHEDULE

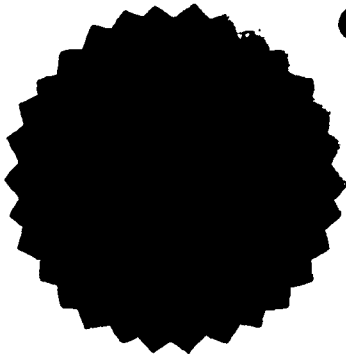
1. KWIKSET SERIES 400 GRADE 3 CYLINDRICAL LATCH AND SERIES 980 GRADE 1 DEADLOCK HARDWARE TO BE INSTALLED AT 5'-1/2" CENTERLINE.
2. 4" X 4" FULL MORTISE BUTT HINGES.



ATTACHMENT DETAIL

1. ANCHOR ANALYSIS FOR LOADING CONDITIONS PREPARED, SIGNED AND SEALED BY LUIS R. LOMAS, PE (FLORIDA #62514) WITH THE LOWEST (LEAST) FASTENER RATING FROM THE DIFFERENT FASTENERS BEING CONSIDERED FOR USE. JAMB, HEAD, AND THRESHOLD FASTENERS ANALYZED FOR THIS UNIT INCLUDE #10 WOOD SCREWS OR 3/16" TAPCONS. A PHYSICAL SHIM MUST BE PLACED IN SHIM SPACE AT EACH ANCHOR LOCATION.
2. THE WOOD SCREW SINGLE SHEAR DESIGN VALUES COME FROM ANSI/AF&PA NDA FOR SOUTHERN PINE LUMBER AND ACHIEVEMENT OF 1-1/2" MINIMUM EMBEDMENT. THE TAPCON MUST ACHIEVE MINIMUM EMBEDMENT OF 1-1/4".
3. WOOD BUCKS BY OTHERS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO STRUCTURE.
4. MINIMUM DESIGN VALUE STRENGTH OF ANCHORS 171 LBS.

NAMI NOTICE OF PRODUCT LINE CERTIFICATION



Certification No.: NI007077-R1 Page 1
Date: 04/10/2007
Revision Date: 12/17/2010
Certification Program: Structural
Company: Masonite International
Code: M-703-1

The "Notice of Product Line Certification" is valid only when Administrator's Seal is applied to the upper left hand portion of this form and a certification label is applied to the product. This certification seal represents product conformity to the applicable specification and that all certification criteria has been satisfied.

The products and systems listed below are approved for listing in the Directory of Certified Products at www.NAMICertification.com. Please review, and advise NAMI immediately if data, as shown requires corrections.

Company: **Masonite International Corporation**
1955 Powis Road
West Chicago, IL 60185

Product Line: **Masonite "Hurricane Belleville Fiberglass Door" Side-Hinged Door**

Test Report: **NCTL-210-3102-1/210-3105-1/210-3367-1/210-3389-1**

Section 1: General Description of the Products and Systems under this Certification

- 1.1 **Frame:** The frame jambs consist of finger jointed pine with all corners coped, butted, and sealed using three 2" long wire staples (.04375").
- 1.2 **Mullion Construction:** Where used, each mullion constructed of laminated lumber and attached to the header and threshold with three #10 x 3" Philips Flat Head Wood Screws or back to back wood jambs.
- 1.3 **Glazing:** Where used, the overall impact rated laminated glass was glazed into an ASA Polycarbonate frame. Consisted of 0.124" Annealed/0.090" Solutia Saflex IIIG/0.124" Annealed/Decorative Insert-0.124" Tempered Glass/ or 0.124" Annealed/0.090 Solutia Saflex IIIG/0.124" Annealed and 0.124" Tempered Glass with aluminum or butyl spacer.
- 1.4 **Door Leaf Construction:** Each door leaf was constructed from 0.075" thick reinforced fiberglass composite material. Top rail and stiles constructed from wood, with or without composite edge band.

National Accreditation & Management Institute, Inc.
4794 George Washington Memorial Highway, Hayes, VA 23072
Tel: (804) 684-5124 Fax: (804) 684-5122

Section 2: Registered Suppliers

- | | | |
|-----|-------------|-----------------|
| 2.1 | Door Lites: | Specialty |
| 2.2 | Astragal: | Endura Ultimate |

Section 3: Additional Supportive Test or Acceptance Data Provided with Certification Documentation included:

- 3.1 Fiberglass Door Facing-Tested for Tensile & Elongation Properties per ASTM D638, both before and after weathering for 4500 hours per ASTM G26 Xenon Arc Method 1. Test Report No. ATI-94556.01-106-31.
- 3.2 Skin material tested to ASTM D635, ASTM D2843 and ASTM D1929 And conditioned for not less than 40 hours per ASTM D618. "Rate of Burn, Self Ignition Temperature and Smoke Density Tests" to Fiberglass Skin conducted by ETC Laboratories, Test Report ETC-98-417-7139.0.
- 3.3 Impact lite frame material tested to ASTM D635, ASTM D2843; ASTM D1929 and ASTM D638 Test Report No. ATI-94556.01-106-31.
- 3.4 Miami-Dade Building Code Compliance Notice of Acceptance for Solutia Interlayers, NOA No.: 09-0127.13.
- 3.5 Surface Burning Characteristics for Foam Filled Door performed by Omega Point Laboratories to ASTM E84-98, "Standard Test Method for Surface Burning Characteristics of Building Materials-Report No. 15977-104313.
- 3.6 Anchor Calculations for: (Revised Section 04/26/05)
Anchor Performance Calculation Report-Performed by Luis R. Lomas, P.E. (Florida No. 62514)
- 3.1 National Accreditation & Management Institute W-1362/W-1416.

See additional Pages of Certification for Certified Product Line Matrix(s) and Installation Details. If you have any questions regarding this certification, please contact NAMI at (804) 684-5124.

National Accreditation & Management Institute, Inc.
4794 George Washington Memorial Highway, Hayes, VA 23072
Tel: (804) 684-5124 Fax: (804) 684-5122

NOTICE OF PRODUCT CERTIFICATION

Company: Masonite International Corporation
1955 Powis Road
West Chicago, IL 60185

Certification No.: NI007077-R1 Page 3
Certification Date: 04/10/2007
Expiration Date: 12/31/2014
Revision Date: 12/17/2010

Product: Fiberglass Impact Rated Opaque Inswing or Outswing Door w/ and w/o Impact Rated Sidelites (w/Wood Frame unless noted)
Specifications Tested To: TAS 201/202/203-94/ASTM E330

The "Notice of Product Certification" is only valid if the NAMI Certification Label has been applied to the product as described within this document. The certification label represents product conformity to the applicable specification and that all certification criteria has been satisfied. This product has been approved for listing within NAMI's Certified Product Listing at www.Namincertification.com. NAMI's Certification Program is accredited by The American National Standards Institute (ANSI).

Configuration	Inswing or Outswing	Glazed or Opaque	Maximum Size	Structural Design Pressure	Water Test Pressure	Missile Impact Rated	Test Report Number Drawing Number & Comments
X Single	I/S	Opaque	3'0" x 6'8"	+70/-70	2.86 psf	Yes	NCTL-210-3102-1 Maximum Panel Size: 3'0" x 6'8" Anchor Drawings-MA-FL0170-07
X Single	O/S	Opaque	3'0" x 6'8"	+70/-70	10.5 psf	Yes	NCTL-210-3102-1 Maximum Panel Size: 3'0" x 6'8" Anchor Drawings-MA-FL0170-07
XX Double	I/S	Opaque	6'0" x 6'8"	+50.5/-50.5	2.86 psf	Yes	NCTL-210-3105-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Anchor Drawings-MA-FL0170-07
XX Double	O/S	Opaque	6'0" x 6'8"	+55/-50.5	6.00 psf 8.25 psf*	Yes	NCTL-210-3105-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Anchor Drawings-MA-FL0170-07
XO/OX Single w/Sidelite	I/S	Opaque Door Glazed Sidelite	6'0" x 6'8"	+50.5/-50.5	2.86 psf	Door-Yes Sidelite-Yes	NCTL-210-3105-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Anchor Drawings-MA-FL0170-07
XO/OX Single w/Sidelites	O/S	Opaque Door Glazed Sidelite	6'0" x 6'8"	+55/-50.5	6.00 psf 8.25 psf*	Door-Yes Sidelite-Yes	NCTL-210-3105-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Anchor Drawings-MA-FL0170-07
OXO Single w/Sidelites	I/S	Opaque Door Glazed Sidelites	9'0" x 6'8"	+50.5/-50.5	2.86 psf	Door-Yes Sidelites-Yes	NCTL-210-3105-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Anchor Drawings-MA-FL0170-07
OXO Single w/Sidelites	O/S	Opaque Door Glazed Sidelites	9'0" x 6'8"	+55/-50.5	6.00 psf 8.25 psf*	Door-Yes Sidelites-Yes	NCTL-210-3105-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Anchor Drawings-MA-FL0170-07
OXOX Double w/Sidelites	I/S	Opaque Doors Glazed Sidelites	12'4" x 6'8"	+50.5/-50.5	2.86 psf	Doors-Yes Sidelites-Yes	NCTL-210-3105-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Anchor Drawings-MA-FL0170-07
OXOX Double w/Sidelites	O/S	Opaque Doors Glazed Sidelites	12'4" x 6'8"	+55/-50.5	6.00 psf 8.25 psf*	Doors-Yes Sidelites-Yes	NCTL-210-3105-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Anchor Drawings-MA-FL0170-07

*Denotes High Dam Threshold Design

National Accreditation & Management Institute, Inc./4394 George Washington Memorial Highway/Hyattsville, VA 22072

Tel: (804) 684-5124 Fax: (804) 684-5124

NAMI AUTHORIZED SIGNATURE:

NOTICE OF PRODUCT CERTIFICATION

Company: Masonite International Corporation
1955 Powis Road
West Chicago, IL 60185

Certification No.: NI007077-R1 Page 4
Certification Date: 04/10/2007
Expiration Date: 12/31/2014
Revision Date: 12/17/2010

Product: Fiberglass Impact Rated Opaque Inswing or Outswing Door w/ and w/o Impact Rated Sidelites (w/Wood Frame unless noted)
Specifications Tested To: TAS 201/202/203-94/ASTM E330

The "Notice of Product Certification" is only valid if the NAMI Certification Label has been applied to the product as described within this document. The certification label represents product conformity to the applicable specification and that all certification criteria has been satisfied. This product has been approved for listing within NAMI's Certified Product Listing at www.Namincertification.com. NAMI's Certification Program is accredited by The American National Standards Institute (ANSI).

Configuration	Inswing or Outswing	Glazed or Opaque	Maximum Size	Structural Design Pressure	Water Test Pressure	Missile Impact Rated	Test Report Number Drawing Number & Comments
X Single	I/S	Opaque	3'0" x 8'0"	+70/-70	2.86 psf	Yes	NCTL-210-3102-1 Maximum Panel Size: 3'0" x 8'0" Anchor Drawings-MA-FL0171-07
X Single	O/S	Opaque	3'0" x 8'0"	+70/-70	10.5 psf	Yes	NCTL-210-3102-1 Maximum Panel Size: 3'0" x 8'0" Anchor Drawings-MA-FL0171-07
XX Double	I/S	Opaque	6'0" x 8'0"	+50.5/-50.5	2.86 psf	Yes	NCTL-210-3105-1 Maximum Panel Size: 3'0" x 8'0" Anchor Drawings-MA-FL0171-07
XX Double	O/S	Opaque	6'0" x 8'0"	+55/-50.5	6.00 psf 8.25 psf*	Yes	NCTL-210-3105-1 Maximum Panel Size: 3'0" x 8'0" Anchor Drawings-MA-FL0171-07
XO/OX Single w/Sidelite	I/S	Opaque Door Glazed Sidelite	6'0" x 8'0"	+50.5/-50.5	2.86 psf	Door-Yes Sidelite-Yes	NCTL-210-3105-1 Maximum Panel Size: 3'0" x 8'0" Anchor Drawings-MA-FL0171-07
XO/OX Single w/Sidelites	O/S	Opaque Door Glazed Sidelite	6'0" x 8'0"	+55/-50.5	6.00 psf 8.25 psf*	Door-Yes Sidelite-Yes	NCTL-210-3105-1 Maximum Panel Size: 3'0" x 8'0" Anchor Drawings-MA-FL0171-07
OXO Single w/Sidelites	I/S	Opaque Door Glazed Sidelites	9'0" x 8'0"	+50.5/-50.5	2.86 psf	Door-Yes Sidelites-Yes	NCTL-210-3105-1 Maximum Panel Size: 3'0" x 8'0" Anchor Drawings-MA-FL0171-07
OXO Single w/Sidelites	O/S	Opaque Door Glazed Sidelites	9'0" x 8'0"	+55/-50.5	6.00 psf 8.25 psf*	Door-Yes Sidelites-Yes	NCTL-210-3105-1 Maximum Panel Size: 3'0" x 8'0" Anchor Drawings-MA-FL0171-07
OXXO Double w/Sidelites	I/S	Opaque Doors Glazed Sidelites	12'4" x 8'0"	+50.5/-50.5	2.86 psf	Doors-Yes Sidelites-Yes	NCTL-210-3105-1 Maximum Panel Size: 3'0" x 8'0" Anchor Drawings-MA-FL0171-07
OXXO Double w/Sidelites	O/S	Opaque Doors Glazed Sidelites	12'4" x 8'0"	+55/-50.5	6.00 psf 8.25 psf*	Doors-Yes Sidelites-Yes	NCTL-210-3105-1 Maximum Panel Size: 3'0" x 8'0" Anchor Drawings-MA-FL0171-07

*Denotes High Dam Threshold Design

National Accreditation & Management Institute, Inc./4794 George Washington Memorial Highway/Hayes, VA 23072
Tel: (804) 684-5124 Fax: (804) 684-5122

NAMI AUTHORIZED SIGNATURE:

NOTICE OF PRODUCT CERTIFICATION

Company: Masonite International Corporation
1955 Powis Road
West Chicago, IL 60185

Certification No.: NI007077-R1 Page 5
Certification Date: 04/10/2007
Expiration Date: 12/31/2014
Revision Date: 12/17/2010

Product: Fiberglass Impact Rated Glazed Inswing or Outswing Door w/ and w/o Impact Rated Sidelites (w/Wood Frame unless noted)
Specifications Tested To: TAS 201/202/203-94/ASTM E330

The "Notice of Product Certification" is only valid if the NAMI Certification Label has been applied to the product as described within this document. The certification label represents product conformity to the applicable specification and that all certification criteria has been satisfied. This product has been approved for listing within NAMI's Certified Product Listing at www.Namincertification.com. NAMI's Certification Program is accredited by The American National Standards Institute (ANSI).

Configuration	Inswing or Outswing	Glazed or Opaque	Maximum Size	Structural Design Pressure	Water Test Pressure	Missile Impact Rated	Test Report Number & Drawing Number & Comments
X Single	I/S	Glazed	3'0" x 6'8"	+55/-55	2.86 psf	Yes	NCTL-210-3389-1 Maximum Panel Size: 3'0" x 6'8" Anchor Drawings-MA-FL0172-07
X Single	O/S	Glazed	3'0" x 6'8"	+55/-55	6.00 psf 8.25 psf*	Yes	NCTL-210-3389-1 Maximum Panel Size: 3'0" x 6'8" Anchor Drawings-MA-FL0172-07
XX Double	I/S	Glazed	6'0" x 6'8"	+55/-55	2.86 psf	Yes	NCTL-210-3389-1 Maximum Panel Size: 3'0" x 6'8" Anchor Drawings-MA-FL0172-07
XX Double	O/S	Glazed	6'0" x 6'8"	+55/-55	6.00 psf 8.25 psf*	Yes	NCTL-210-3389-1 Maximum Panel Size: 3'0" x 6'8" Anchor Drawings-MA-FL0172-07
XO/OX Single w/Sidelite	I/S	Glazed Door Glazed Sidelite	6'0" x 6'8"	+55/-55	2.86 psf	Door-Yes Sidelite-Yes	NCTL-210-3389-1 Maximum Panel Size: 3'0" x 6'8" Anchor Drawings-MA-FL0172-07
XO/OX Single w/Sidelites	O/S	Glazed Door Glazed Sidelite	6'0" x 6'8"	+55/-55	6.00 psf 8.25 psf*	Door-Yes Sidelite-Yes	NCTL-210-3389-1 Maximum Panel Size: 3'0" x 6'8" Anchor Drawings-MA-FL0172-07
OXO Single w/Sidelites	I/S	Glazed Door Glazed Sidelites	9'0" x 6'8"	+55/-55	2.86 psf	Door-Yes Sidelites-Yes	NCTL-210-3389-1 Maximum Panel Size: 3'0" x 6'8" Anchor Drawings-MA-FL0172-07
OXO Single w/Sidelites	O/S	Glazed Door Glazed Sidelites	9'0" x 6'8"	+55/-55	6.00 psf 8.25 psf*	Door-Yes Sidelites-Yes	NCTL-210-3389-1 Maximum Panel Size: 3'0" x 6'8" Anchor Drawings-MA-FL0172-07
OXXO Double w/Sidelites	I/S	Glazed Doors Glazed Sidelites	12'6" x 6'8"	+55/-55	2.86 psf	Doors-Yes Sidelites-Yes	NCTL-210-3389-1 Maximum Panel Size: 3'0" x 6'8" Anchor Drawings-MA-FL0172-07
OXXO Double w/Sidelites	O/S	Glazed Doors Glazed Sidelites	12'6" x 6'8"	+55/-55	6.00 psf 8.25 psf*	Doors-Yes Sidelites-Yes	NCTL-210-3389-1 Maximum Panel Size: 3'0" x 6'8" Anchor Drawings-MA-FL0172-07

*Denotes High Dam Threshold Design

National Accreditation & Management Institute, Inc./4794 George Washington Memorial Highway/Hayes, VA 23072
Tel-(804) 684-5124/Fax-(804) 684-5122

NAMI AUTHORIZED SIGNATURE:

NOTICE OF PRODUCT CERTIFICATION

Company: Masonite International Corporation
1955 Powis Road
West Chicago, IL 60185

Certification No.: NI007077-R1 Page 6
Certification Date: 04/10/2007
Expiration Date: 12/31/2014
Revision Date: 12/17/2010

Product: Fiberglass Impact Rated Glazed Inswing or Outswing Door w/ and w/o Impact Rated Sidelites (w/Wood Frame unless noted)
Specifications Tested To: TAS 201/202/203-94/ASTM E330

The "Notice of Product Certification" is only valid if the NAMI Certification Label has been applied to the product as described within this document. The certification label represents product conformity to the applicable specification and that all certification criteria has been satisfied. This product has been approved for listing within NAMI's Certified Product Listing at www.Namincertification.com. NAMI's Certification Program is accredited by The American National Standards Institute (ANSI).

Configuration	Inswing or Outswing	Glazed or Opaque	Maximum Size	Structural Design Pressure	Water Test Pressure	Missile Impact Rated	Test Report Number Drawing Number & Comments
X Single	I/S	Glazed	3'0" x 8'0"	+43/-47	2.86 psf	Yes	NCTL-210-3367-1 Maximum Panel Size: 3'0" x 8'0" Anchor Drawings-MA-FL0173-07
X Single	O/S	Glazed	3'0" x 8'0"	+47/-45 +55/-55 w/Surface Bolts	6.00 psf 8.25 psf*	Yes	NCTL-210-3367-1 Maximum Panel Size: 3'0" x 8'0" Anchor Drawings-MA-FL0173-07
XX Double	I/S	Glazed	6'0" x 8'0"	+43/-47	2.86 psf	Yes	NCTL-210-3367-1 Maximum Panel Size: 3'0" x 8'0" Anchor Drawings-MA-FL0173-07
XX Double	O/S	Glazed	6'0" x 8'0"	+47/-45 +55/-55 w/Surface Bolts	6.00 psf 8.25 psf*	Yes	NCTL-210-3367-1 Maximum Panel Size: 3'0" x 8'0" Anchor Drawings-MA-FL0173-07
XO/OX Single w/Sidelite	I/S	Glazed Door Glazed Sidelite	6'0" x 8'0"	+43/-47	2.86 psf	Door-Yes Sidelite-Yes	NCTL-210-3367-1 Maximum Panel Size: 3'0" x 8'0" Anchor Drawings-MA-FL0173-07
XO/OX Single w/Sidelites	O/S	Glazed Door Glazed Sidelite	6'0" x 8'0"	+47/-45 +55/-55 w/Surface Bolts	6.00 psf 8.25 psf*	Door-Yes Sidelite-Yes	NCTL-210-3367-1 Maximum Panel Size: 3'0" x 8'0" Anchor Drawings-MA-FL0173-07
OXO Single w/Sidelites	I/S	Glazed Door Glazed Sidelites	9'0" x 8'0"	+43/-47	2.86 psf	Door-Yes Sidelites-Yes	NCTL-210-3367-1 Maximum Panel Size: 3'0" x 8'0" Anchor Drawings-MA-FL0173-07
OXO Single w/Sidelites	O/S	Glazed Door Glazed Sidelites	9'0" x 8'0"	+47/-45 +55/-55 w/Surface Bolts	6.00 psf 8.25 psf*	Door-Yes Sidelites-Yes	NCTL-210-3367-1 Maximum Panel Size: 3'0" x 8'0" Anchor Drawings-MA-FL0173-07
OXO Double w/Sidelites	I/S	Glazed Doors Glazed Sidelites	12'6" x 8'0"	+43/-47	2.86 psf	Doors-Yes Sidelites-Yes	NCTL-210-3367-1 Maximum Panel Size: 3'0" x 8'0" Anchor Drawings-MA-FL0173-07
OXO Double w/Sidelites	O/S	Glazed Doors Glazed Sidelites	12'6" x 8'0"	+47/-45 +55/-55 w/Surface Bolts	6.00 psf 8.25 psf*	Doors-Yes Sidelites-Yes	NCTL-210-3367-1 Maximum Panel Size: 3'0" x 8'0" Anchor Drawings-MA-FL0173-07

*Denotes High Dam Threshold Design

National Accreditation & Management Institute, Inc./4794 George Washington Memorial Highway/Hayes, VA 23072
Tel-(804) 684-5124/Fax-(804) 684-5122

NAMI AUTHORIZED SIGNATURE:

Luis R. Lomas P.E.

1432 Woodford Rd.
Lewisville, NC 27023
336-945-9695

Manufacturer: Masonite
Report #: 504A
Date: 12/29/09

Product: Single Door 3'x6'8"

Scope:

This analysis provides calculations, quantities, and spacing requirements for installing product to substrate, and it applies only to the product described herein. These calculations comply with requirements of the Florida Building Code.

Drawings verification:

This analysis verifies anchoring for the following drawings:

DWG-MA-FL0120-05	DWG-MA-FL0130-05	DWG-MA-FL0153-06	DWG-MA-FL0168-07
DWG-MA-FL0122-05	DWG-MA-FL0132-05	DWG-MA-FL0155-06	DWG-MA-FL0170-07
DWG-MA-FL0124-05	DWG-MA-FL0134-05	DWG-MA-FL0156-06	DWG-MA-FL0172-07
DWG-MA-FL0126-05	DWG-MA-FL0140-05	DWG-MA-FL0160-07	DWG-MA-FL0174-07
DWG-MA-FL0128-05	DWG-MA-FL0151-06	DWG-MA-FL0162-07	DWG-MA-FL0175-07

Anchors to be qualified:

- #10 Wood screw, for installation in wood frame substrates.
- 3/16" ITW Tapcon, for masonry installation

Anchor capacity in shear condition:

Fastener type: #10 wood screw		(NDS 2005, 11.3)	
Side member: Douglas Fir-Larch		Main member: Spruce-Pine-Fir	
Side member thickness:	$t_s = 1.000$ in	Main member thickness:	$t_m = 1.500$ in
Side member dowel bearing strength:	$F_{ds} = 4,650$ psi	Main member dowel bearing strength:	$F_{dm} = 3,350$ psi
Minimum required penetration:	1.330 in	Screw bending yield strength:	$F_y = 80,000$ psi
Duration Factor:	$C_D = 1.6$	Tabulated lateral design value:	$Z = 107.0$ lbs
Allowable Design Value:	$Z' = 171$ lbs/anchor	Mode IV	

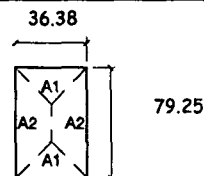
Fastener type: 3/16" ITW Tapcon		N.O.A. 07-1126.10	
Substrate: Hollow block			
Minimum embedment:	1.25 in	Minimum C to C spacing:	2.25 in
Minimum edge distance:	1.13 in	Actual C to C spacing:	3.00 in
Tabulated shear design value:	$Z = 112$ lbs	C to C spacing factor:	1.00
Minimum edge distance:	2.63 in		
Tabulated shear design value:	$Z = 197$ lbs		
Actual edge distance:	2.50 in		
Design value per interpolation:	$Z = 189$ lbs		
Allowable Design Value:	$Z' = 189$ lbs/anchor		

Minimum anchor capacity: 171 lbs/anchor

Note: Anchors with the least capacity is used for calculations to qualify anchors with higher capacity.

Anchor calculations, minimum required anchors

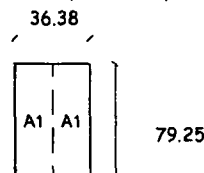
Pressure against stops with bump threshold:



Design pressure: 85.0 psf

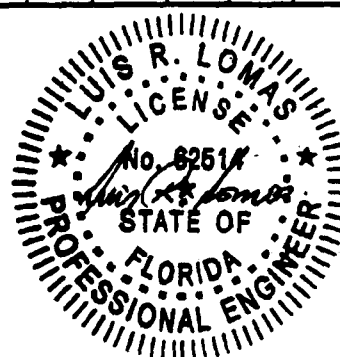
Zone	Area (ft ²)	Load (lbs)	Ind. (in)	Max. O.C. (in)	Anchor			Result
					Cap. (lbs)	Qty	Load (lbs)	
A ₁	2.3	195	N/A	N/A	171	2	98	OK
A ₂	7.7	656	6.00	18.00	171	5	131	OK

Single. Pressure away from stops:



Design pressure: 85.0 psf

Zone	Area (ft ²)	Load (lbs)	Ind. (in)	Max. O.C. (in)	Anchor			Result
					Cap. (lbs)	Qty	Load (lbs)	
A ₁	10.0	851	6.00	18.00	171	5	170	OK



Luis R. Lomas P.E.
FL No.: 62514
1/7/2010

Luis R. Lomas P.E.

1432 Woodford Rd.
Lewisville, NC 27023
336-945-9695

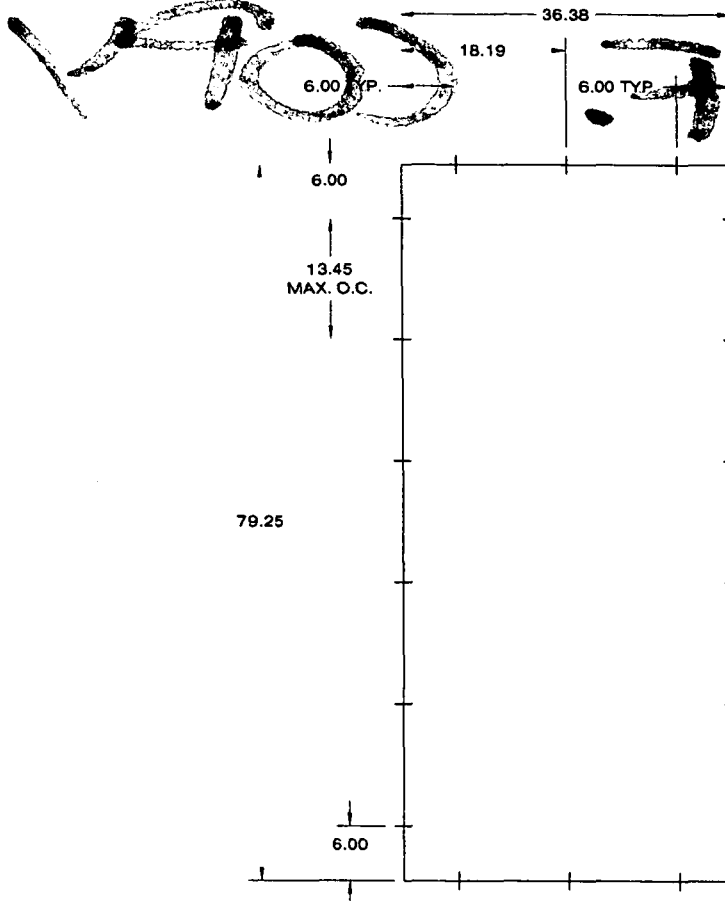
Manufacturer: Masonite
Report #: 504A
Date: 12/29/09

Single. Pressure against stops with saddle threshold:

Design pressure: 85.0 psf

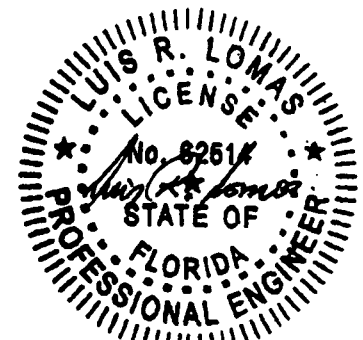
Zone	Area (ft ²)	Load (lbs)	Ind. (in)	Max. O.C. (in)	Anchor			Result
					Cap. (lbs)	Qty	Load (lbs)	
A ₁	2.3	195	N/A	N/A	171	2	98	OK
A ₂	8.9	750	6.00	18.00	171	5	151	OK

Anchor Locations:



Note:

Anchor locations indicated in this document are the minimum required for the described product exposed at the design pressure indicated herein.



Luis R. Lomas P.E.
FL No.: 62514
1/7/2010

B1202504
230 N. Hibiscus Dr.
OFF. COPY

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING: M/SCHAD 3-14-12
ZONING: 4/3/14/12
DRG/HPB: _____
CONCURRENCY: _____
PLUMBING: _____
ELECTRICAL: _____
MECHANICAL: _____
FIRE PREVENTION: _____
ENGINEERING: _____
PUBLIC WORKS: EUL-3-14-2012
STRUCTURAL: AV 3/14/12
ELEVATOR: _____

Phone (305) 375-1234

THIS PERMIT DOES NOT CONSTITUTE APPROVAL FOR
OBTAINING BUILDING PERMITS ONLY.

All construction and/or use of equipment in the right-of-way and/or easements, requires a separate Public Works Department permit prior to start of construction.

Permit Requirements: Proof of existing sidewalk/swale area conditions (pictures) and/or posting of sidewalk/readway bonds (Public Works Inspection of the right-of-way will be required prior to final sign-off on the C.C. / C.O., or the release of bonds.)

EUL-3-14-2012
Approved: _____ Date: _____

48 HOURS PRIOR TO EXCAVATING
CONTRACTOR SHALL CALL FOR LOCATION
OF UNDERGROUND UTILITIES
SUNSHINE ONE-CALL 1-800-432-4779
CITY OF MIAMI BEACH 305-673-7080

PERMIT NUMBER

BS 952123

BMS 51432

ADDRESS

60

OFFICE COPY
CITY OF MIAMI BEACH

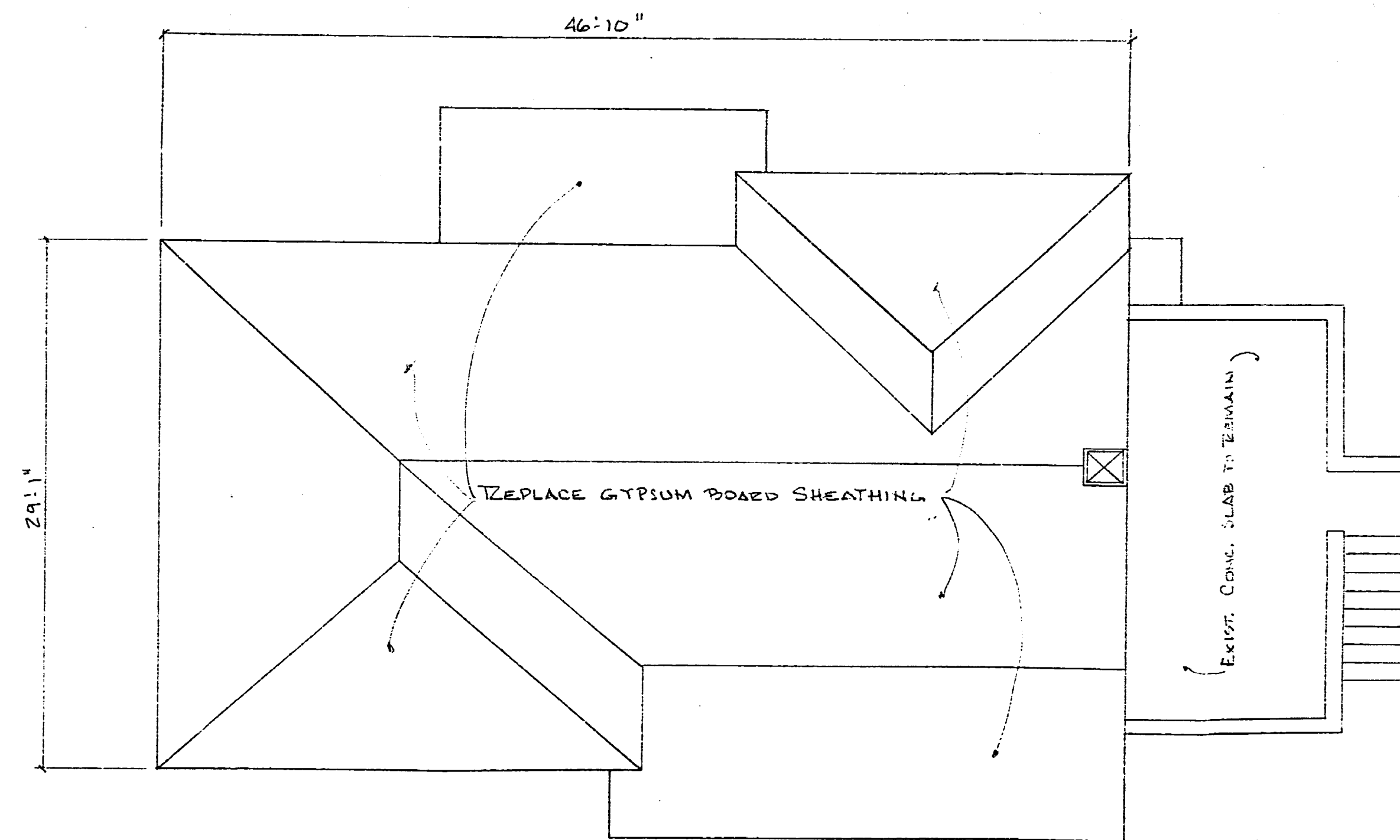
APPROVED FOR PERMIT BY
THE FOLLOWING:

ENGINEER: *[Signature]*
ARCHITECT: _____
ELECTRICAL: _____
MECHANICAL: _____
FIRE PREVENTION: _____
ENGINEERING: _____
PUBLIC WORKS: _____
STRUCTURAL: _____
CONSULTANT: _____

CITY OF MIAMI BEACH
RECEIVED
SEP 18 1995
BUILDING DEPARTMENT

GENERAL NOTES:

1. Remove existing roofing material and gypsum board sheathing.
2. Provide new roof sheathing with (1) layer of 5/8" CDX plywood.
3. Use 8d nails at 4" on center within 48" of the perimeter edges and at 6" on center elsewhere.
4. Provide (1) layer of 30# tin tagged roof paper, (1) layer of 90# hot mopped roof paper and Altusa roof tiles in all the sloped roof areas in accordance with the latest edition of the South Florida Building Code.
5. Provide (1) layer hot mopped 75# roof paper base sheet, (2) layers of hot mopped Fiberglass roof paper and (1) layer of hot mopped cap sheet in accordance with the latest edition of the South Florida Building Code.



Roof Plan

REVISIONS	BY

LUIS E. NIEVAS, P.E. 1316 Bayview Circle Fort Lauderdale, FL 33326 (305) 389-9220	Roof Sheathing Replacement 230 N. Hibiscus Drive Hibiscus Island Miami Beach, Florida
Date 9-15-95	Scale 1/4" = 1'-0"
Drawn	Job
Sheet 1	

Revised to
BS 95 2103

RECEIVED COPY

RECEIVED
DIVISION
FEDERAL BUREAU OF INVESTIGATION
U.S. DEPARTMENT OF JUSTICE

BM 51402