



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

PGT Industries
1070 Technology Drive
North Venice, FL 34275

SCOPE:

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

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

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "HR-810" Aluminum Horizontal Sliding Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **MD-HR810-LM**, titled Series "Horizontal Roller Window Details-LM", sheets 1 through 5 of 5, dated 05/05/12 with the latest revision, dated 10/18/12, prepared by Manufacture, signed and sealed by Anthony Lynn Miller, P. E., bearing the Miami-Dade County Product Control Section Approval stamp with the Notice of Acceptance number and Approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

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

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

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

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

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

This NOA consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

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



J. Gascon
10/23/12

NOA No. 12-0718.06
Expiration Date: November 1, 2017
Approval Date: November 1, 2012
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **MD-HR810-LM**, titled Series "Horizontal Roller Window Details-LM", sheets 1 through 5 of 5, dated 05/05/12 with the latest revision, dated 10/18/12, prepared by Manufacture, 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) Small Missile Impact Test, per FBC, TAS 201-94
 - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 7) Forced Entry Test, Type "A-A" sliding window, Grade 10, Level LV 1 per ASTM F 588-07, per FBC 2411.3.2.1 and TAS 202-94
 - 8) Standard Test Method "B" for Determination of Operating Force of Sliding Windows per ASTM E 2068-00 (2008)
 - 9) Standard Test Methods for Deglazing Force of Fenestration Products per ASTM E 987-88 (2009)along with marked-up drawings and installation diagram of Aluminum horizontal sliding window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-6890**, dated 06/04/12, signed and sealed by Marlin D. Brinson, P. E.

C. CALCULATIONS

1. Anchor calculations and structural analysis, complying with **FBC-2010**, prepared by manufacture, dated 07/07/12, signed and sealed by Anthony Lynn Miller, P. E.
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
2. **Aluminum Alloy 6063HS-T6: Fixed Meeting Rail w/ weathering strip (PGT/Indalex Part No. 4054B)**, High strength alloy with the minimum yield strength of 30 Ksi, minimum Tensile strength of 33 Ksi and minimum Elongation of 8 Ksi.



Jaime D. Gascon, P. E.

Product Control Section Supervisor

NOA No. 12-0718.06

Expiration Date: November 1, 2017

Approval Date: November 1, 2012

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS (CONTUNIED)

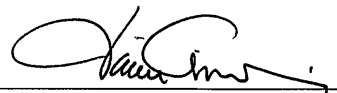
3. QUANEX Part Edgetherm FS insulating glass spacer/ swiggle seal complying with the following:
 - a) ASTM F 1249-06 (2011) Standard Test Method for Water Vapor Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor.
 - b) ASTM E 2190-10 Standard Specification for Insulating Glass Unit Performance and Evaluation
 - c) ASTM D 395-03 (2008) Standard Test Methods for Rubber Property Compression Set

F. STATEMENTS

1. Statement letter of conformance and complying with **FBC-2010**, issued by manufacture, dated 07/07/12, signed and sealed by Anthony Lynn Miller, P. E.
2. Statement letter of no financial interest and independence, issued by manufacture, dated 07/07/12, signed and sealed by Anthony Lynn Miller, P. E.
3. Laboratory compliance letter for Test Report No. **FTL-6890**, issued by Fenestration Testing Laboratory, Inc., dated 06/04/12, signed and sealed by Marlin D. Brinson, P. E.

G. OTHERS

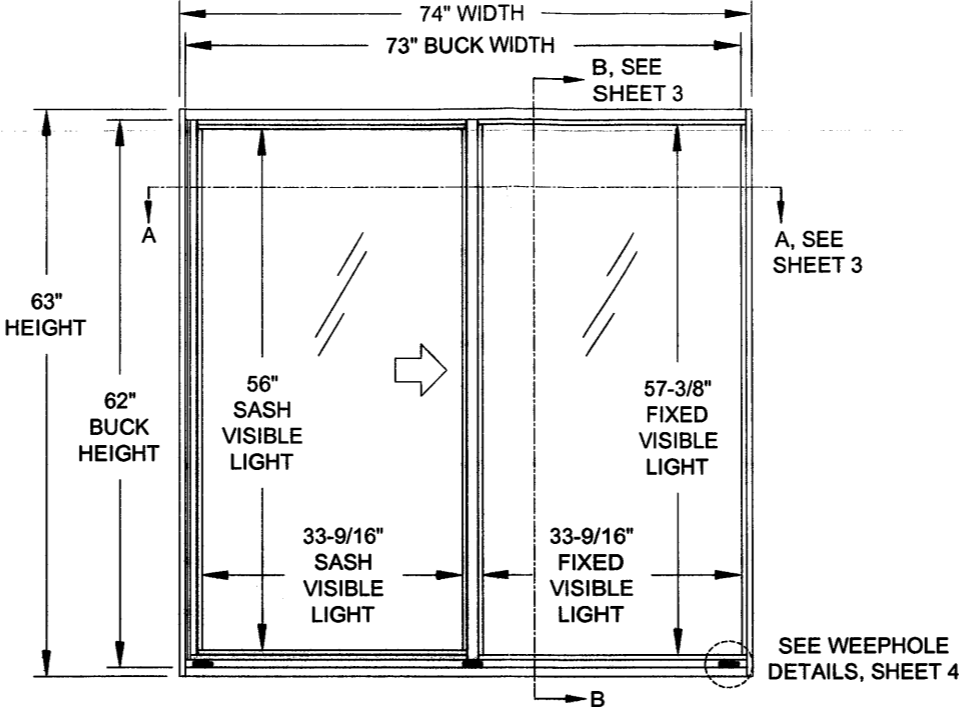
1. None.



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 12-0718.06
Expiration Date: November 1, 2017
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GENERAL NOTES: SERIES 810 IMPACT- RESISTANT
HORIZONTAL ROLLER WINDOW

- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- 3) FOR MASONRY APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED MASONRY ANCHORS. MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, ASTM C90 CONCRETE MASONRY UNITS AND CONCRETE WITH MIN. KSI PER ANCHOR TYPE, SEE TABLE 4, SHEET 3.
- 4) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
- 5) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT EMBEDMENT AS SPECIFIED ON TABLE 4, SHEET 3. NARROW JOINT SEALANT IS USED ON ALL FOUR CORNERS OF THE FRAME. INSTALLATION ANCHORS SHOULD BE SEALED. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- 6) SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.
- 7) DESIGN PRESSURES:
A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
- 8) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.
- 9) REFERENCES: TEST REPORTS FTL-6890; ELCO ULTRACON NOA; ELCO CRETEFLEX NOA; ANSI/AF&PA NDS FOR WOOD CONSTRUCTION AND ADM ALUMINUM DESIGN MANUAL.
- 10) I.G. GLASS CAPS TO BE TEMPERED WHEN INSTALLED IN LOCATIONS OVER 30FT IN THE HVHZ.



DESIGN PRESSURE RATING	IMPACT RATING
VARIES, SEE TABLE 1, THIS SHEET	RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE

TABLE 2:

Glass Types	
1	13/16" Lami IG: (1/8" Annealed Cap - 1/4" Airspace -3/16" Annealed - 0.90" SGP - 3/16" Annealed)
2	7/16" Lami: (3/16" Annealed - 0.90" SGP - 3/16" Annealed)
3	13/16" Lami IG: (1/8" Tempered - 1/4" Airspace -3/16" Annealed - 0.90" SGP - 3/16" Annealed)
4	7/16" Lami: (3/16" Heat Strengthened - 0.90" SGP - 3/16" Heat Strengthened)
5	13/16" Lami IG: (1/8" Tempered Cap - 1/4" Airspace - 3/16" Heat Strengthened - 0.90" SGP - 3/16" Heat Strengthened)
6	13/16" Lami IG: (1/8" Annealed Cap - 1/4" Airspace - 3/16" Heat Strengthened - 0.90" SGP - 3/16" Heat Strengthened)

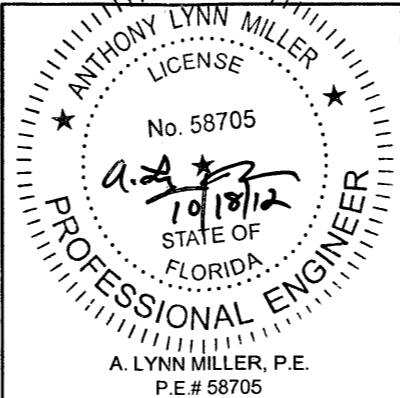
SEE GLAZING DETAILS, SHEET 2

MAX. DIMENSIONS OF HORIZONTAL ROLLER, XO (OX SIM.)

TABLE 1:

Maximum Design Pressure, DP (psf)					
Frame Width	Frame Height				
	50-5/8"	63"			
	All Glass Types	Glass Type 1	Glass Type 2	Glass Type 3	Glass Types 4 - 6
35"	+90.0 / -130.0	+90.0 / -130.0	+90.0 / -130.0	+90.0 / -130.0	+90.0 / -130.0
37"	+90.0 / -130.0	+90.0 / -130.0	+90.0 / -130.0	+90.0 / -130.0	+90.0 / -130.0
53-1/8"	+90.0 / -130.0	+90.0 / -130.0	+90.0 / -130.0	+90.0 / -130.0	+90.0 / -130.0
61"	+90.0 / -130.0	+90.0 / -129.1	+90.0 / -130.0	+90.0 / -130.0	+90.0 / -130.0
64"	+90.0 / -130.0	+90.0 / -123.4	+90.0 / -130.0	+90.0 / -130.0	+90.0 / -130.0
67"	+90.0 / -130.0	+90.0 / -118.7	+90.0 / -128.0	+90.0 / -130.0	+90.0 / -130.0
70"	+90.0 / -130.0	+90.0 / -114.1	+90.0 / -123.1	+90.0 / -126.8	+90.0 / -130.0
74"	+90.0 / -130.0	+90.0 / -108.9	+90.0 / -117.5	+90.0 / -121.0	+90.0 / -130.0

GENERAL NOTES.....	1
ELEVATION (SIZE).....	1
GLASS TYPES.....	1
DESIGN PRESSURES.....	1
ELEVATION (ANCHORS).....	2
ANCHOR SPACING/QUANTITIES...	2
GLAZING DETAILS.....	2
ANCHOR SPECIFICATIONS.....	3
INSTALLATION.....	3
ASSEMBLY DETAILS.....	4
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CERT. OF AUTH. #29296

Revised By:	Date:	Revision:
Revised By:	Date:	Revision:

Description:
GENERAL NOTES & ELEVATION

Title:
HORIZONTAL ROLLER WINDOW DETAILS - LM

Drawn By:
J ROSOWSKI

Series/Model: HR-810	Scale: NTS	Sheet: 1 OF 5	Drawing No. MD-HR810-LM	Rev:
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Approved as complying with the
Florida Building Code
Date: 11/04/2012
NOA# 12-8718-06
Miami Dade Product Control
By: [Signature]

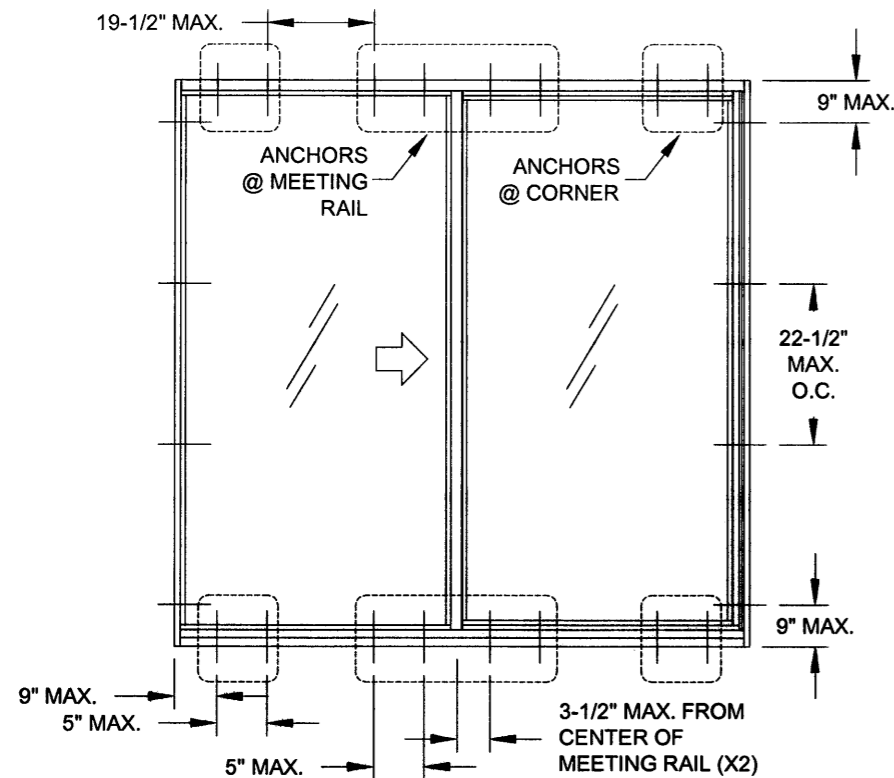
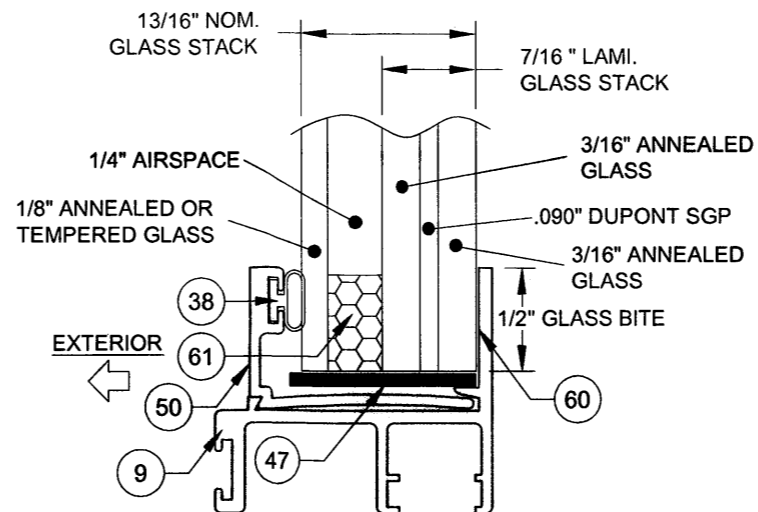


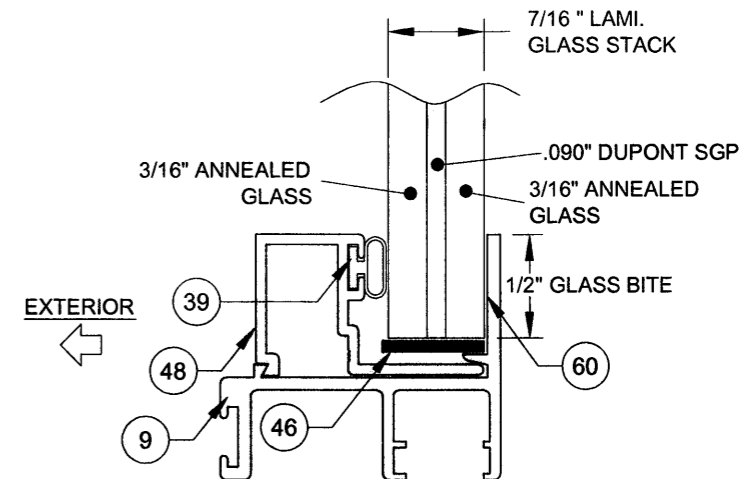
TABLE 3:

Minimum Anchors Required													
		Frame Height											
		38-3/8"			44"			50-5/8"			63"		
Frame Member & Anchor Location	Frame Width	Anchor Group A	Anchor Group B	Anchor Group C	Anchor Group A	Anchor Group B	Anchor Group C	Anchor Group A	Anchor Group B	Anchor Group C	Anchor Group A	Anchor Group B	Anchor Group C
Head & Sill @ each Corner	35"	0	0	0	0	0	0	0	0	0	0	0	0
	37"	1	1	1	1	1	1	1	1	1	1	1	1
	53-1/8"	1	1	1	1	1	1	1	1	1	1	1	1
	61"	2	2	1	2	2	1	2	2	1	2	2	1
	64"	2	2	1	2	2	1	2	2	1	2	2	1
	67"	2	2	1	2	2	1	2	2	1	2	2	1
	70"	2	2	1	2	2	1	2	2	1	2	2	1
Head & Sill @ Meeting Rail	74"	2	2	1	2	2	1	2	2	1	2	2	1
	All Sizes Require 4 Anchors												
	35"	2	2	2	3	3	3	3	3	3	4	3	3
	37"	2	2	2	3	3	3	3	3	3	4	3	3
	53-1/8"	3	2	2	3	3	3	4	3	3	5	3	3
	61"	3	2	2	3	3	3	4	3	3	5	4	3
	64"	3	2	2	3	3	3	4	3	3	6	4	3
Jamb	67"	3	2	2	4	3	3	4	3	3	6	4	3
	70"	3	2	2	4	3	3	4	3	3	6	4	3
	74"	3	2	2	4	3	3	4	3	3	6	4	3
	74"	3	2	2	4	3	3	4	3	3	6	4	3

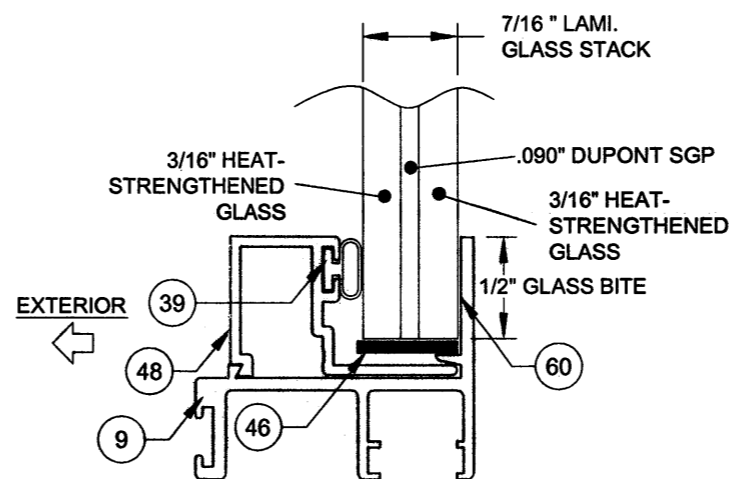
SEE TABLE 4, SHEET 3 FOR ANCHOR GROUP DESCRIPTIONS.



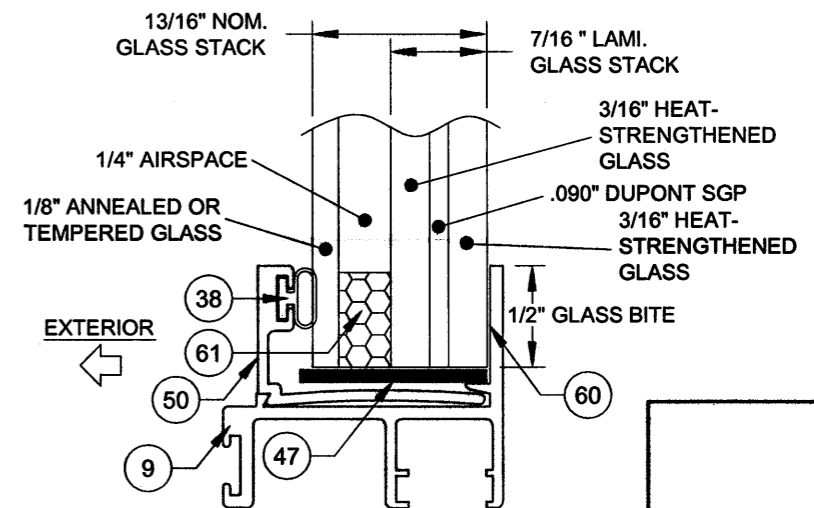
GLASS TYPES 1 & 3



GLASS TYPE 2



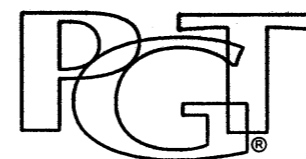
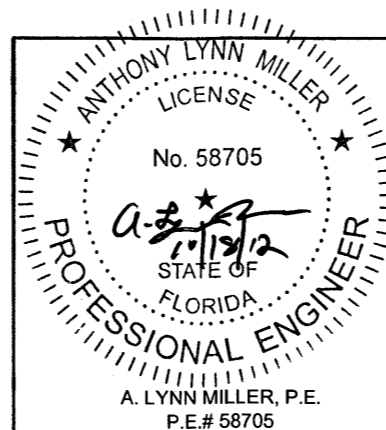
GLASS TYPE 4



GLASS TYPES 5 & 6

NOTES:

- 1) USE THIS TABLE FOR ALL WINDOWS PER THE ELEVATIONS ON SHEET 1. DIMENSIONS SHOWN ARE TIP-TO-TIP.
- 2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
- 3) I.G. GLASS CAPS TO BE TEMPERED WHEN INSTALLED IN LOCATIONS OVER 30' IN THE HVHZ.



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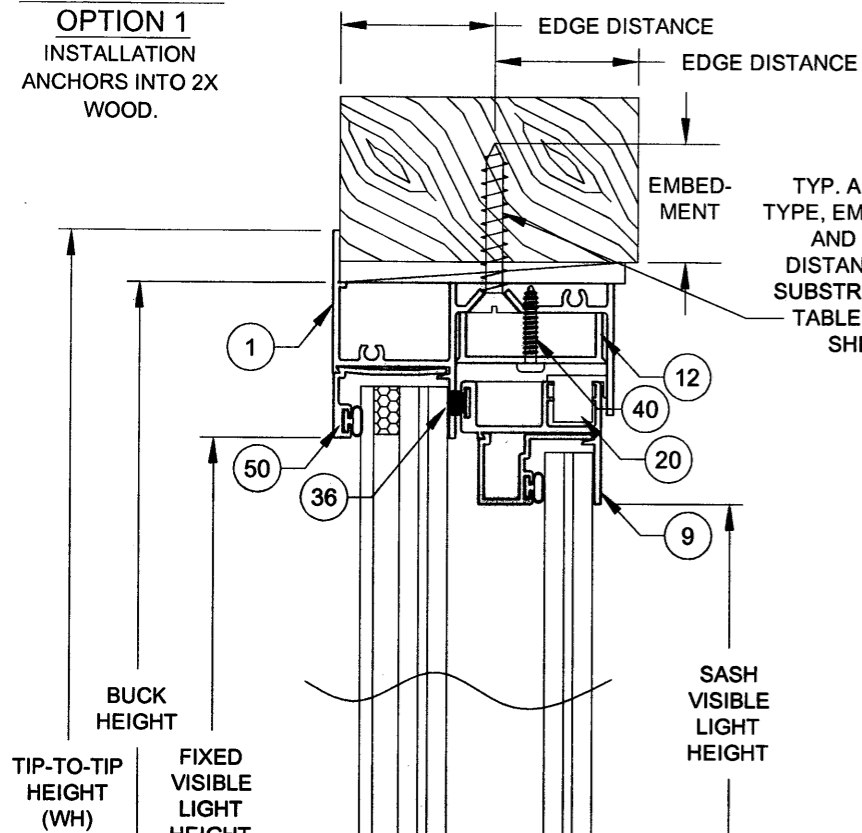
CERT. OF AUTH. #29296

Revised By:	Date:	Revision:
Revised By:	Date:	Revision:
Description: ANCHOR SPACING & QUANTITIES		
Title: HORIZONTAL ROLLER WINDOW DETAILS - LM		Date: 05/05/12
Series/Model: HR-810	Scale: NTS	Sheet: 2 OF 5
Drawing No. MD-HR810-LM		Rev:

Approved as complying with the
Florida Building Code
Date: 5/10/12
NOA#: 12-8718-06
Miami Code Product Control
By: [Signature]

Drawn By:
J ROSOWSKI

**INSTALLATION
OPTION 1**
INSTALLATION
ANCHORS INTO 2X
WOOD.



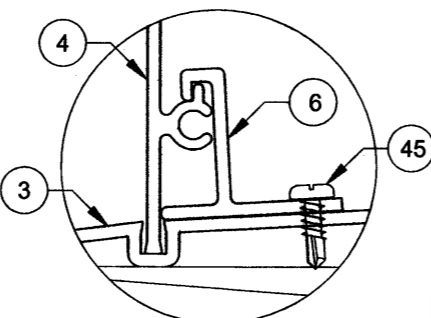
VERTICAL SECTION B-B

**INSTALLATION
OPTION 3**
INSTALLATION ANCHORS
THROUGH 1X BUCKSTRIP
INTO MASONRY.

TYP. ANCHOR TYPE,
EMBEDMENT AND EDGE
DISTANCE PER
SUBSTRATE, SEE
TABLE 4, THIS SHEET.

1X WOOD
BUCKSTRIP,
SEE NOTE 2,
THIS SHEET.

CONCRETE
PER ANCHOR
REQUIREMENT



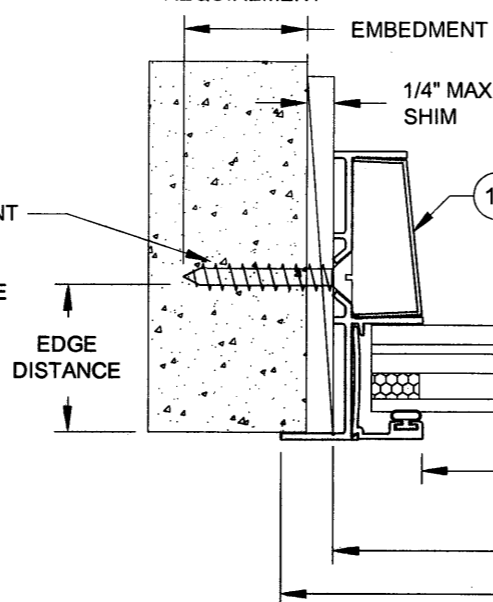
**DETAIL A:
6" WINDLOAD
ADAPTER**
INSTALL WITH (4)
#12 X 3/8" SMS @ 3/4"
FROM EACH END AND
1-1/2" O.C.

NOTES:

1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 4 OF THIS SHEET. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.

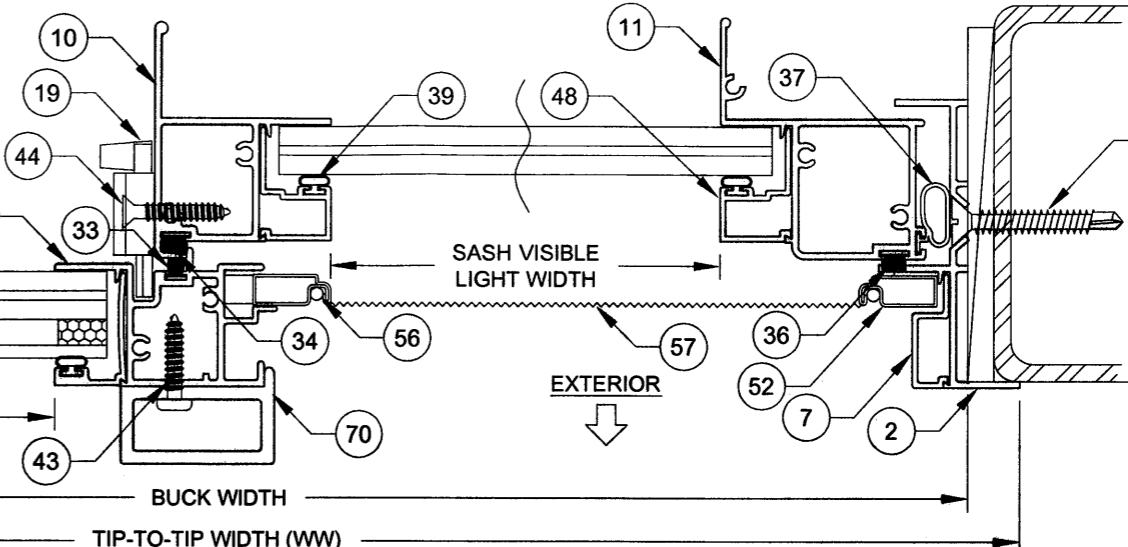
2) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL. UNIT MAY BE INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD. MAXIMUM SHIM THICKNESS TO BE 1/4".

CONCRETE/CMU
PER ANCHOR
REQUIREMENT



**INSTALLATION
OPTION 2**
INSTALLATION
ANCHORS DIRECTLY
INTO MASONRY.

**INSTALLATION
OPTION 4**
INSTALLATION ANCHORS
DIRECTLY INTO METAL.



#12 STEEL
SELF-DRILLING
SMS (G5), SEE TABLE
4, THIS SHEET.

DADE APPROVED
MULLION, ALUMINUM,
STEEL FRAMING OR
STEEL STUD.

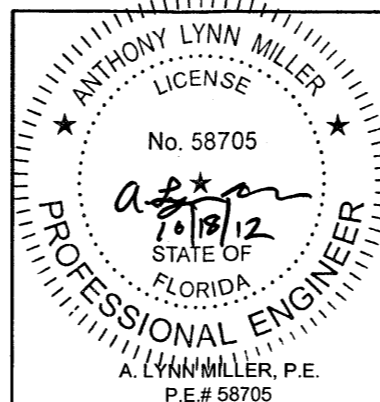
HORIZONTAL SECTION A-A

EGRESS WIDTH: (WW/2 - 4-1/2")
EGRESS HEIGHT: (WH - 5-3/4")
SASH & FIXED VISIBLE LIGHT WIDTH:
(WW/2 - 3-7/16")
SASH VISIBLE LIGHT HEIGHT: (WH - 7")
FIXED VISIBLE LIGHT HEIGHT: (WH - 5-5/8")

TABLE 4:

Anchor Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment
A	#12, 410 SS	S. Pine, SG=0.55	9/16"	1-3/8"
		A36 Steel	3/8"	1/16"
		A653 Stud, Gr. 33	3/8"	0.045" (18 Ga)
		6063-T5 Alum	3/8"	1/16"
	1/4" steel Ultracon	Hollow Block	1"	1-1/4"
B	#12, steel SMS (G5)	S. Pine, SG=0.55	9/16"	1-3/8"
		A36 Steel	3/8"	1/16"
		A653 Stud, Gr. 33	3/8"	0.045" (18 Ga)
		6063-T5 Alum	3/8"	1/16"
	5/16" steel Ultracon	Hollow Block	3-1/8"	1-1/4"
	1/4" 410 SS CreteFlex	3.5k Concrete	1-1/4"	1"
		3.35k Concrete	1"	1-3/4"
C	1/4" steel Ultracon	Hollow Block	2-1/2"	1-1/4"
		2.85k Concrete	2-1/2"	1-3/4"
	5/16" steel Ultracon	3.5k Concrete	1-1/4"	1-3/4"
		3.5k Concrete	2-3/16"	1"
	1/4" 410 SS CreteFlex	3.35k Concrete	2-1/2"	1-3/4"

* MINIMUM OF 3 THREADS BEYOND THE METAL SUBSTRATE.



1070 TECHNOLOGY DRIVE
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Revised By:	Date:	Revision:
Revised By:	Date:	Revision:
Description: INSTALLATION DETAILS		
Title: HORIZONTAL ROLLER WINDOW DETAILS - LM		Date: 05/05/12
Series/Model: HR-810	Scale: NTS	Sheet: 3 OF 5
Drawing No. MD-HR810-LM		Rev:

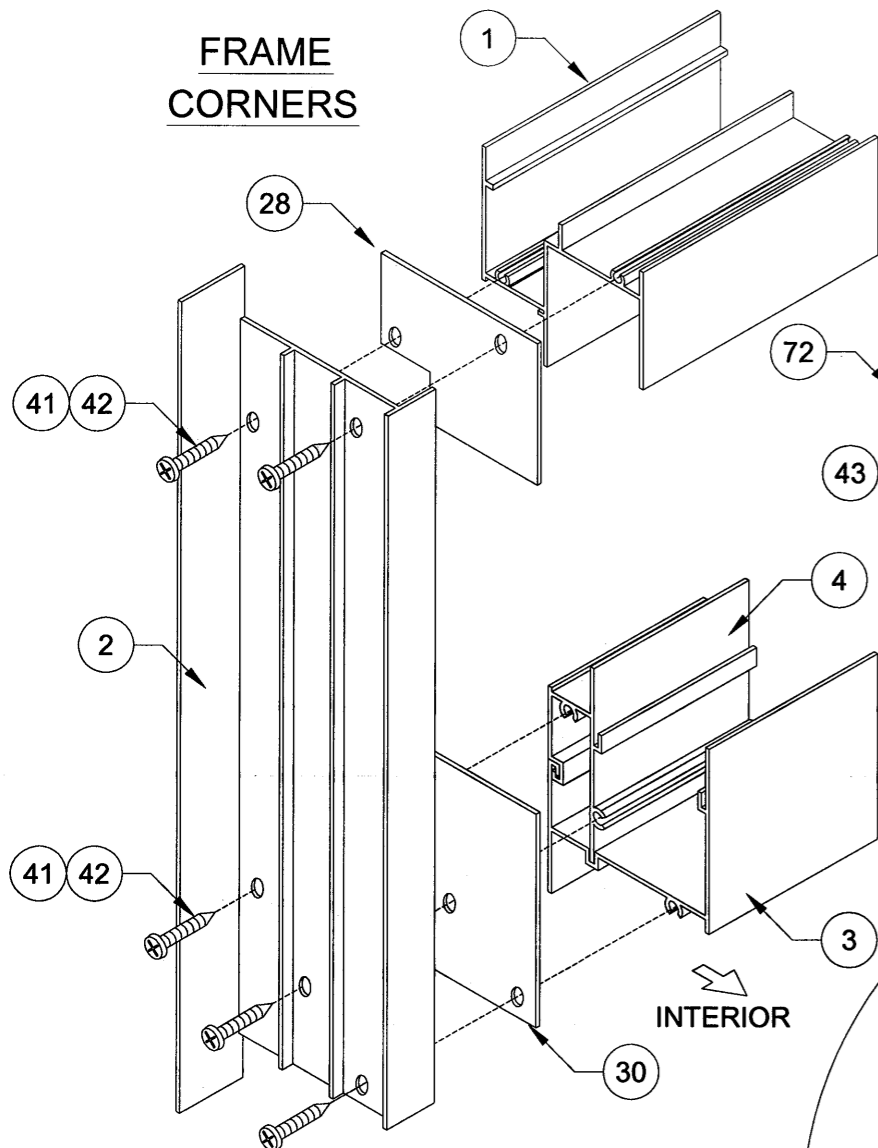
Approved as complying with the
Florida Building Code
Date **11/21/12**
NOA# **12-0718-06**
Miami Dade Product Control
By *[Signature]*

Drawn By:
J ROSOWSKI

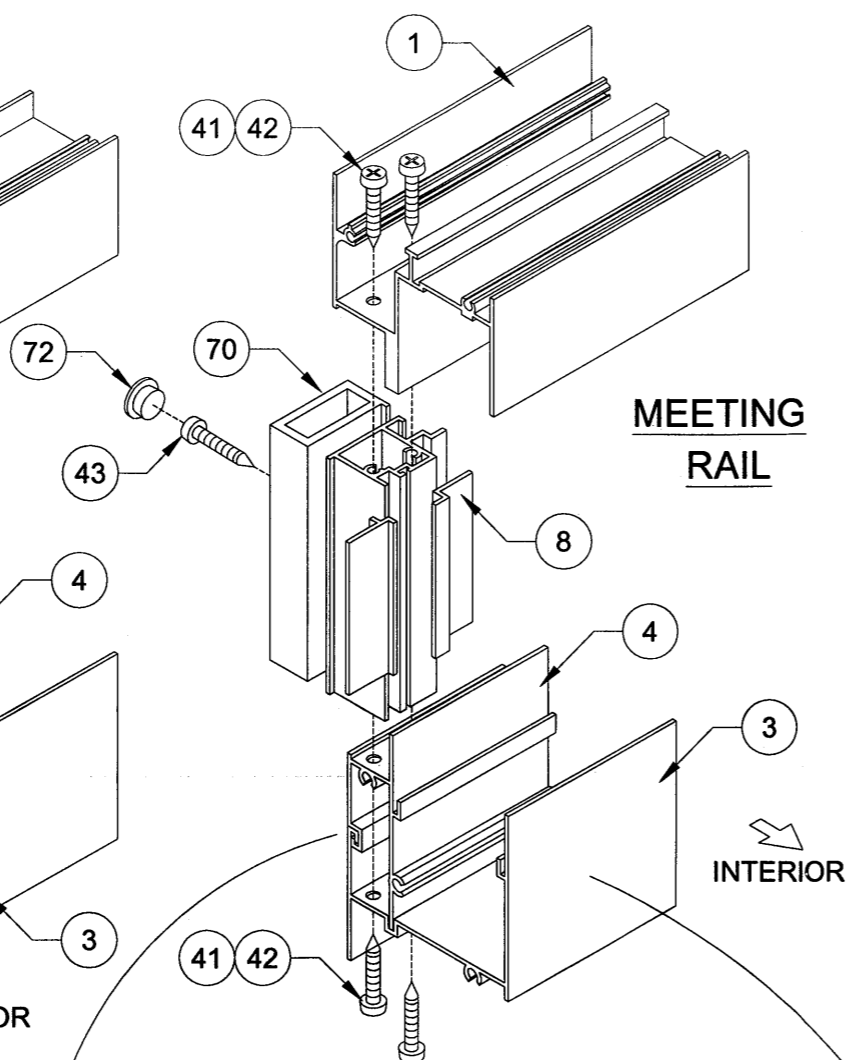
ASSEMBLY DETAILS

ALL DETAILS SHOWN FROM THE INTERIOR

FRAME CORNERS

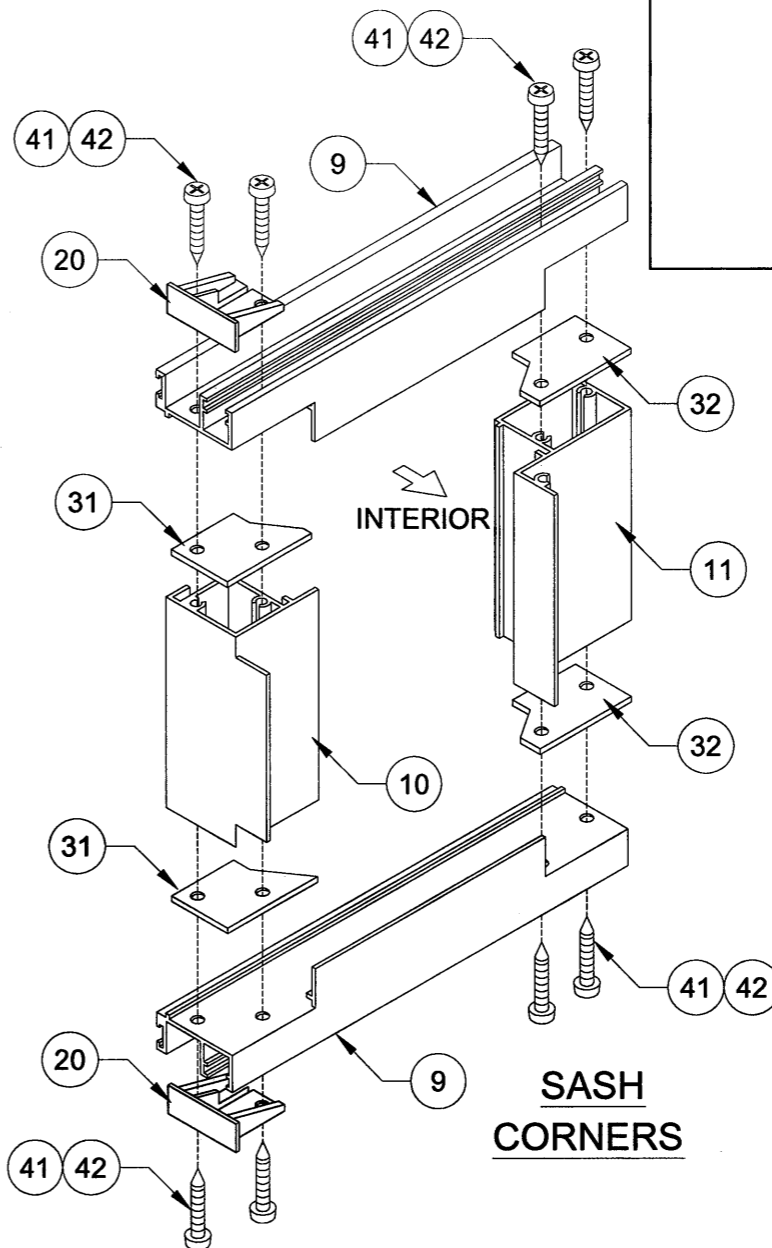


MEETING RAIL



INTERIOR

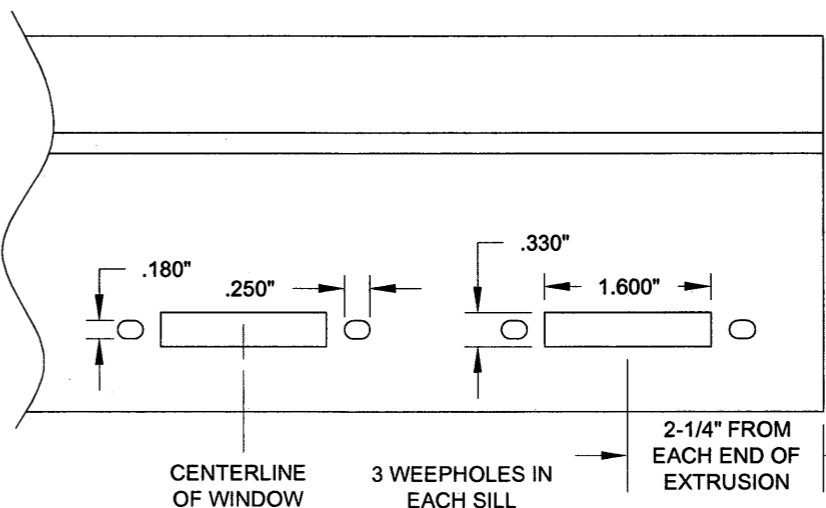
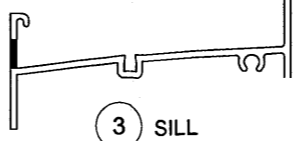
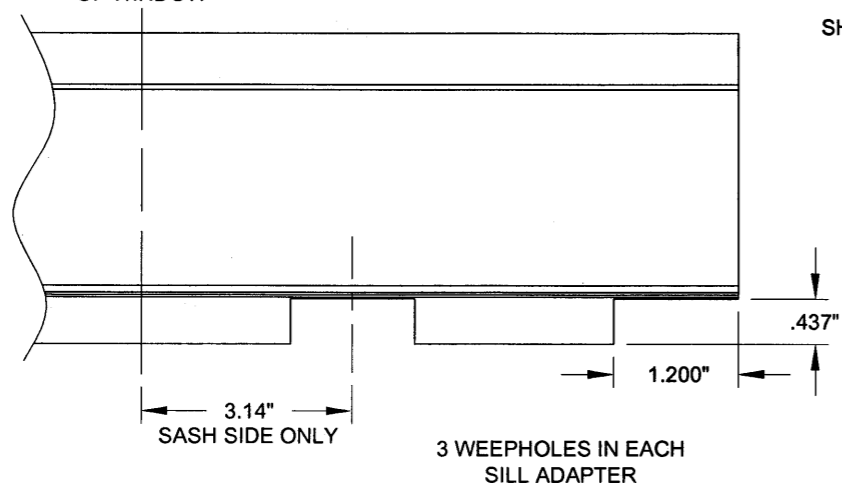
SASH CORNERS



CENTERLINE OF WINDOW

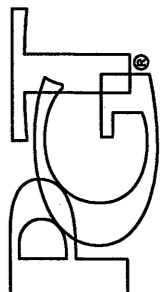
WEEPHOLE DETAILS

SHOWN WITHOUT WEEPHOLE COVERS.

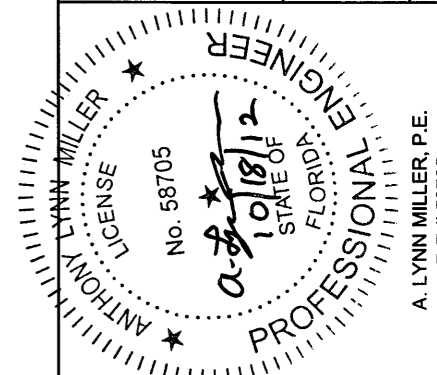


Approved as complying with the
Florida Building Code
Date 11/18/2012
NOA# 12-0718.06
Miami Dade Product Control
By [Signature]

Revised By:	Revised Date:	Drawn By:	Drawn Date:
		J ROSOWSKI	05/05/12
Description: ASSEMBLY & WEEPHOLE DETAILS			
Title: HORIZONTAL ROLLER WINDOW DETAILS - LM			
Series/Model:	Scale:	Sheet:	Rev:
HR-810	NTS	4 OF 5	MD-HR810-LM

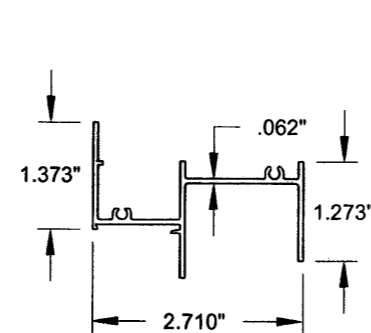


1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274
CERT. OF AUTH. #29296

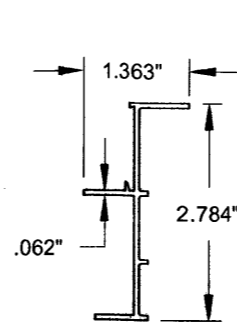


A. LYNN MILLER, P.E.
P.E.# 58705

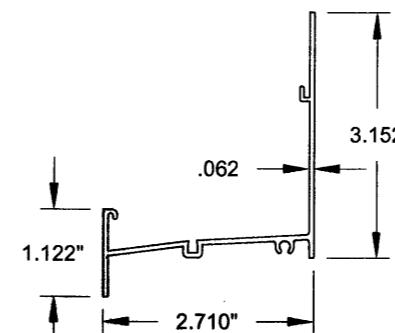
Item	Dwg. #	Description	Mat.
1	4102	Frame Head	6063-T6 Alum.
2	4002	Frame Jamb	6063-T6 Alum.
3	4136	Frame Sill	6063-T6 Alum.
4	4137	Sill Adaptor	6063-T6 Alum.
5	4146	Roller Track	6063-T6 Alum.
6	4125	Windload Adapter, 6"	6063-T6 Alum.
7	4110	Screen Adaptor	6063-T6 Alum.
8	4054	Fixed Meeting Rail	6063HS-T6 Alum.
9	4105	Sash Top/Bottom Rail	6063-T6 Alum.
10	4006	Sash Meeting Rail	6063-T6 Alum.
11	4126	Sash Side Rail	6063-T5 Alum.
12	4025	Anti-lift Clip	6063-T5 Alum.
14	4143	Sash Stop Cover	6063-T6 Alum.
15	4081	Installation Hole Cover	6063-T6 Alum.
17	225-1	Roller Housing & Sash Guide	Vinyl
18	226	Roller Wheels	Brass
19	1096	Sweep Latch	Die-cast Zinc
20	4133	Top/Bottom Rail Cover	Nylon
23	4080B	Mtg Rail Sweep Latch Plug	Vinyl Foam
24	1298	Weep Hole Cover	Polypropolene
25	4150	Sash Rail Cover Cap (1 Left & Right)	Rigid PVC
27	4151	Lock Rail Cover Cap (1 Left & Right)	Rigid PVC
28	4130	Main Frame Head Joint Gasket	Polyethylene
29	1626	Adhesive Open Cell Foam Pad	Foam
30	4134C	Main Frame Sill Joint Gasket	Polyethylene
31	4148	Sash Interlock Gaskets A	Polyethylene
32	4147	Sash Siderail Gaskets B	Polyethylene
33	4066	.187" x .230" Wstp. Fin Seal	
34	1235	.170" x .270" Wstp. Fin Seal	
36	1683	.250" x .270" Wstp. Fin Seal	
37	7070	Bulb Wstp - .187" x .275"	Flex PVC 70
38	1224	Vinyl Bulb Beading Wstp, Thin	Flex PVC 70
39	1225	Vinyl Bulb Beading Wstp, Thick	Flex PVC 70
40		#8 x 3/4" Ph. Pn. SMS	Steel
41	1155	#8 x 1" Quad Pn. SMS	Steel
42	1155-1	#8 x 1" Sq. Pn. Twin Fast SMS	410 S. S.
43	1179	#10 x 3/4" Ph. Pn. SMS, @11-1/2" O.C.	18-8 S. S.
44	1016	#8 x 5/8" Ph. Fl. SMS	Steel
45		#12 x 3/8" Ph. Pn. SMS, @3/4" & 1-1/2" O.C.	Steel
46	1265-3	Mono Setting Block 3/32" x 1/4" x 1"	EPDM, 85 Duro.
47	1715	Lami IG Setting Block 1/8" x 3/4" x 1-1/14"	EPDM, 85 Duro.
48	4222A	7/16" Lami Glaz. Bead	6063-T5 Alum.
49	985C	7/16" Lami Grid Glaz. Bead	6063-T5 Alum.
50	4067B	13/16" Lami IG Glaz. Bead	6063-T5 Alum.
52	1014F	Screen Frame	3105-H14 Alum.
53	1630	Screen Corner Key with Rings	Polypropolene
54	1631	Screen Corner Key without Rings	Polypropolene
55	320B	Screen Spring	Stainless Steel
56	1624	Screen Spline - .135"	EM. PVC
57		Screen Cloth	Fiberglass
60		Dow Silicone Sealant	
61		1/4" Swiggle	
70	4063	Meeting Rail Reinforcement Tube	6061-T6 Alum.
71	4064	Meeting Rail Reinforcement Tube End Cap	Polypropolene
72	947	Hole Plug	Polypropolene



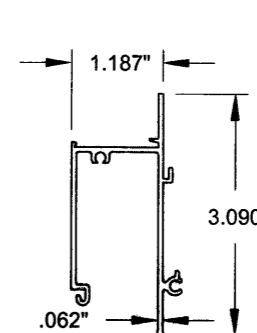
1 FRAME HEAD
#4102, 6063-T6



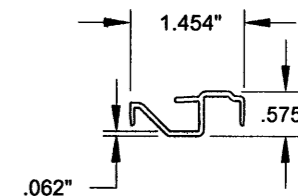
2 FRAME JAMB
#4002, 6063-T6



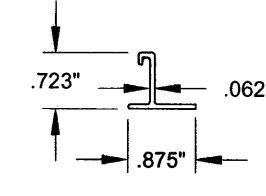
3 FRAME SILL
#4136, 6063-T6



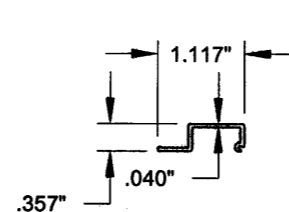
4 SILL ADAPTER
#4137, 6063-T6



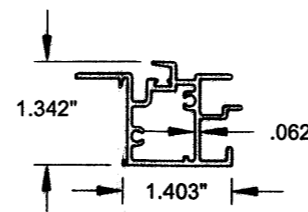
5 ROLLER TRACK
#4146, 6063-T6



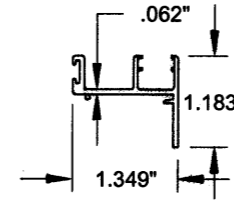
6 WINDLOAD
ADAPTER
#4125, 6063-T6



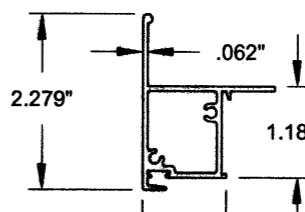
7 SCREEN ADAPTER
#4110, 6063-T6



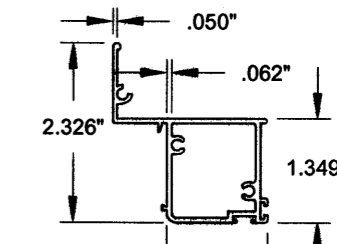
8 FIXED
MEETING RAIL
#4054, 6063HS-T6



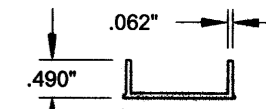
9 SASH TOP &
BOTTOM RAIL
#4105, 6063-T6



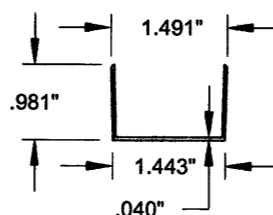
10 SASH MTG. RAIL
#4006, 6063-T6



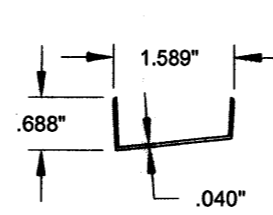
11 SASH SIDE RAIL
#4126, 6063-T5



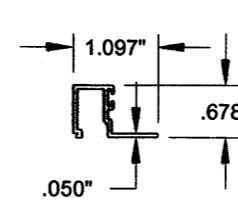
12 ANTI-LIFT CLIP
#4025, 6063-T5



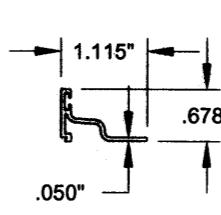
14 SASH STOP
COVER
#4143, 6063-T6



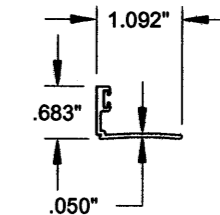
15 INSTALLATION
HOLE COVER
#4081, 6063-T6



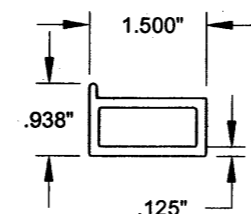
48 GLAZING
BEAD 7/16"
#4222, 6063-T5



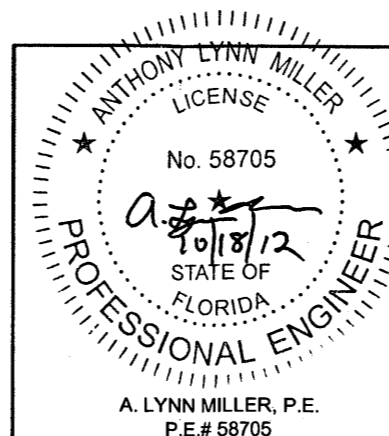
49 GLAZING
BEAD, 7/16"
#985, 6063-T5
(USED W/ GRILL KIT)



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



70 MEETING RAIL
REINF. TUBE
#4063, 6061-T6



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

CERT. OF AUTH. #29296

Revised By:	Date:	Revision:
Revised By:	Date:	Revision:
Description: BOM AND EXTRUSIONS		
Title: HORIZONTAL ROLLER WINDOW DETAILS - LM		
Series/Model: HR-810	Scale: NTS	Sheet: 5 OF 5
Drawing No. MD-HR810-LM		Date: 05/05/12
Rev:		

Approved as complying with the
Florida Building Code
Date: 5/5/2012
NOA# 12-0718-06
Miami Code Product Control
By: [Signature]

Drawn By:
J ROSOWSKI