

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

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

NOTICE OF ACCEPTANCE (NOA)

PGT Industries, Inc. 1070 Technology Drive North Venice, FL 34275

SCOPE:

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

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

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

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

APPROVAL DOCUMENT: Drawing No. **MD-HR810-LA**, titled "Horizontal Roller Window Details–LM", sheets 1 through 6 of 6, dated 05/05/12, with revision B dated 05/15/16, 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# 14-0320.04 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY
APPROVED

M8/19/16

NOA No. 16-0714.10 Expiration Date: November 01, 2017 Approval Date: August 25, 2016

Page 1

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

- 1. Manufacturer's die drawings and sections. (Submitted under NOA No. 12-0718.06)
- 2. Drawing No. MD-HR810-LA, titled "Horizontal Roller Window Details LM", sheets 1 through 6 of 6, dated 05/05/12, with revision B dated 05/15/16, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

- 1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 2) Large Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of a PVC sliding glass door, a PVC fixed window and an aluminum sliding glass door, using: Kodispace 4SG TPS spacer system, Duraseal[®] spacer system, Super Spacer[®] NXTTM spacer system and XL EdgeTM spacer system at insulated glass, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. **FTL-8717**, **FTL-8968** and **FTL-8970**, dated 11/16/15, 06/07/16 and 06/02/16 respectively, all signed and sealed by Idalmis Ortega, P.E.

- 2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94

along with marked-up drawings and installation diagram of a series HR-810 aluminum horizontal roller window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL-7421, dated 06/21/13, signed and sealed by Jorge A. Naya, Jr., P.E. (Submitted under previous NOA No. 14-0320.04)

- 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) Small Missile Impact Test per FBC, TAS 201-94
 - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 7) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94

along with marked-up drawings and installation diagram of an 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.

(Submitted under NOA No. 12-0718.06)

Manuel Perez, P.E. Product Control Examiner NOA No. 16-0714.10

Expiration Date: November 01, 2017 Approval Date: August 25, 2016

PGT Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. Anchor calculations and structural analysis, complying with **FBC-5th Edition (2014)**, dated 05/29/15 and 06/30/15, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

(Submitted under previous NOA No. 14-0320.04)

2. Glazing complies with ASTM E1300-09.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS (CONTUNIED)

1. Notice of Acceptance No. 14-0916.11 issued to Kuraray America, Inc. for their "Kuraray SentryGlas® (Clear and White) Glass Interlayers" dated 06/25/15, expiring on 07/04/18.

F. STATEMENTS

1. Statement letter of conformance, complying with FBC 2010 and FBC-5th Edition (2014), dated May 28, 2015, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

(Submitted under previous NOA No. 14-0320.04)

- 2. Statement letter of no financial interest and independence, issued by manufacture, dated March 18, 2014, signed and sealed by A. Lynn Miller, P.E. (Submitted under previous NOA No. 14-0320.04)
- 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. (Submitted under NOA No. 12-0718.06)
- 4. Proposal approved by Product Control Section, dated 04/30/13, signed by Jaime Gascon, P.E., Supervisor, Product Control Section.

 (Submitted under previous NOA No. 14-0320.04)
- 5. Proposal No. 16-0125 issued by the Product Control Section, dated March 09, 2016, signed by Ishaq Chanda, P.E.

G. OTHERS

1. Notice of Acceptance No. **14-0320.04**, issued to PGT Industries, Inc. for their Series "HR-810" Aluminum Horizontal Rolling Window - L.M.I., approved on 07/23/15 and expiring on 11/01/17.

Manuel Perez, P.E. Product Control Examiner NOA No. 16-0714.10

Expiration Date: November 01, 2017 Approval Date: August 25, 2016

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 6, SHEET 4.
- 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 6, SHEET 4. 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, FTL-7421; CURRENT ELCO ULTRACON NOA; CURRENT 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,	RATED FOR LARGE & SMALL
SEE TABLE 1, THIS SHEET	MISSILE IMPACT RESISTANCE

STANDARDS USED:

- •2014 FLORIDA BUILDING CODE (FBC), 5TH EDITION
- ASTM E1300-09
- ANSI/AF&PA NDS-2012 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2010
- AISI-S100-07/S2-2010

PRODUCT REVISED as complying with the Florida Acceptance No 16-0714.10 Building Code Expiration Data Nov. 1,7017

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Drawing No. MD-HR810-LA

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WINDOW DETAILS

ROLLER

ELEVATION

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Revision: B) ADDED (TO SHEET

05/15/16

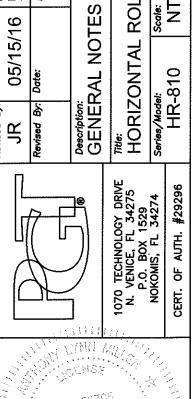
			96" W 95" BUC	FH B, SEE SHEET 4		
			16-1/2"		A	_
70" HEIGHT 69" BUCK HEIGHT	63" SASH VISIBLE LIGHT	44-9/16" SASH VISIBLE		44-9/16" FIXED VISIBLE	64-3/8" FIXED VISIBLE LIGHT	A, SEE SHEET 4
	.	LIGHT	16-1/2"	LIGHT	1	SEE WEEPHOLE DETAILS, SHEET 5

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

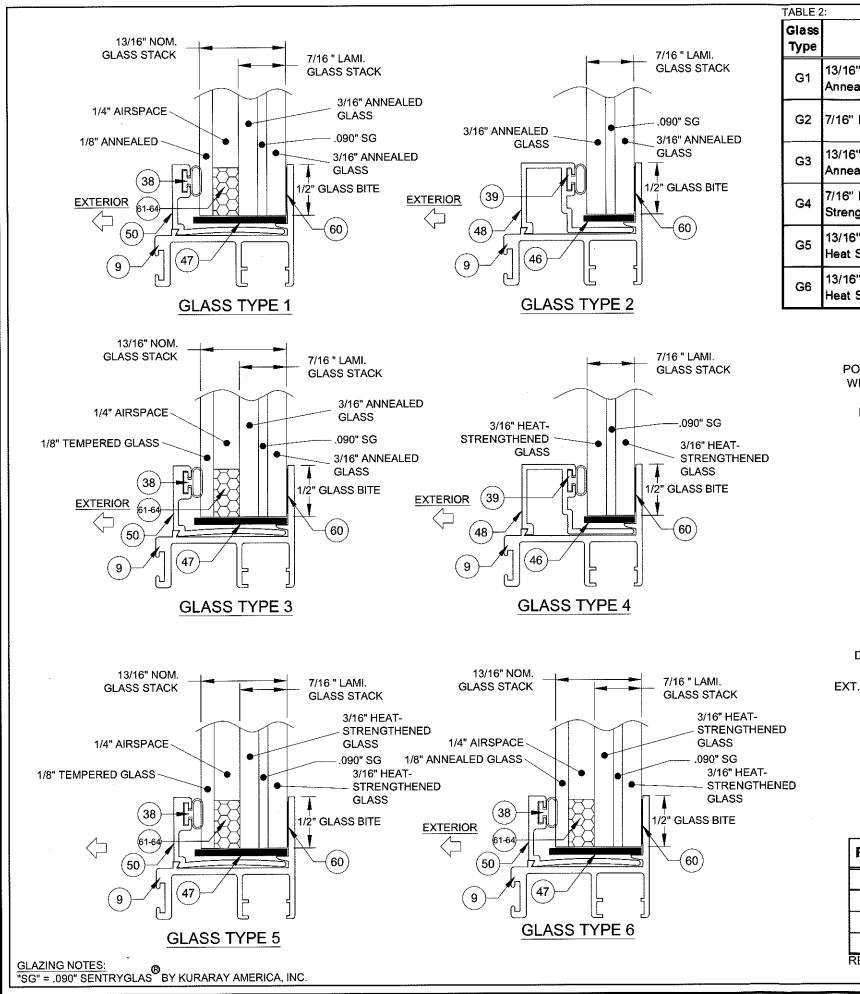
TABLE 1:

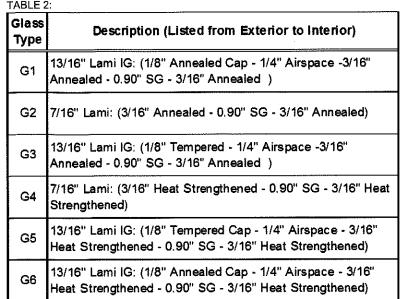
					Max	imum Desig	n Pressure	(+/- psf)						
Overall	Glass Type	Overall Window Width												
Window Height	(see sheet 2)	35"	37"	53-1/8"	61"	64"	67"	70"	74"	80"	84"	90"	96"	
38-3/8"	G1, G2, G3	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	
30-3/0	G4, G5, G6	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+ 9 0/-130	+90/-130	+90/-130	N/A	N/A	N/A	N/A	
4.40	G1, G2, G3	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	
44"	G4, G5, G6	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	N/A	N/A	N/A	N/A	
	G1	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+89.7/-130	+88.2/-130	+87.4/-128.6	
50-5/8"	G2, G3	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+89.7/-130	+88.2/-130	+87.4/-130	
	G4, G5, G6	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	N/A	N/A	N/A	N/A	
	G1	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+64.4/-96.6	+62.8/-94.2	+60.8/-91.1	+59.2/-88.7	
63"	G2, G3	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+64.4/-96.6	+62.8/-94.2	+60.8/-91.1	+59.2/-88.7	
	G4, G5, G6	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	N/A	N/A	N/A	N/A	
67"	G1, G2, G3	+90/-130	+90/-130	+,77.8/-116.8	+70.2/-105.4	+67.9/-101.8	+65.8/-98.7	+63.9/-95.8	+61.7/-92.5	+58.8/-88.2	+57.2/-85.8	+55.2/-82.8	+53.6/-80.3	
70"	G1, G2, G3	+90/-130	+90/-130	+73.7/-110.5	+66.3/-99.5	+64.1/-96.1	+62/-93	+60.2/-90.3	+58/-87	+55.2/-82.9	+53.7/-80.5	+51.7/-77.5	+50/-75	

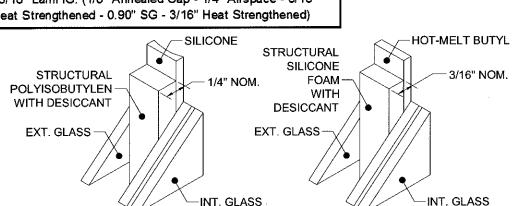
GENERAL NOTES		
ASSEMBLY DETAILS 5 EXTRUSION PROFILES 6	ELEVATION (SIZE) DESIGN PRESSURES GLASS TYPES ELEVATION (ANCHORS) ANCHOR SPACING/QUANTITIES ANCHOR SPECIFICATIONS	112334
EXTRUSION PROFILES	ELEVATION (ANCHORS) ANCHOR SPACING/QUANTITIES ANCHOR SPECIFICATIONS INSTALLATION	
	EXTRUSION PROFILES	6



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

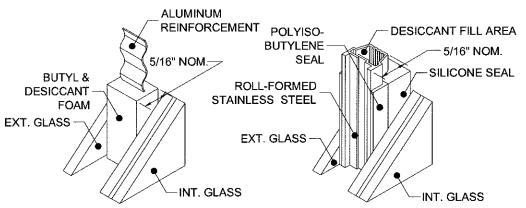






KODISPACE





DURASEAL®

(e)	XL EDGE	- TM
64	SPACER	_

Part # Description				
Kommerling 4SG TPS Spacer System				
Quanex Super Spacer nXT with Hot Melt Butyl	See this Sheet for			
Quanex Duraseal Spacer	Materials			
Cardinal XL Edge Spacer	- Waterials			
	Quanex Super Spacer nXT with Hot Melt Butyl Quanex Duraseal Spacer			

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 16-0714-10 Expiration Date Nov. 1 2017 Miami Dade Product Coatrol

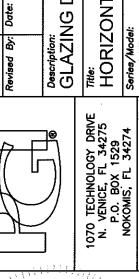
15/16	16	B) AD	B) ADDED SPACER	ıΥ	J ROSOWSKI	/SKI
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\ \ 	RO	Ш	R WINDC		AL ROLLER WINDOW DETAILS - LM	Σ
	Scale:	ode: NTS	Sheet: 2 OF 6	Drawing No. MD-HR	2 OF 6 MD-HR810-LA	Rev: B

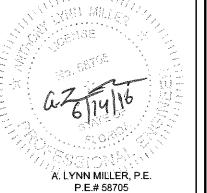
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HORIZONT,

3/Model: HR-810

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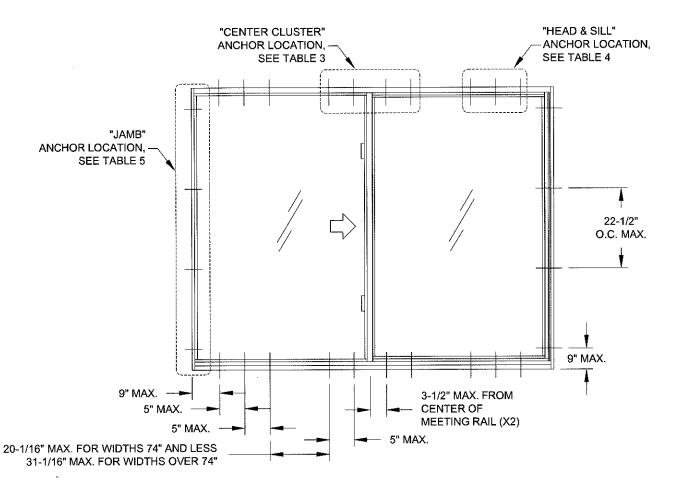


TABLE 3:

Minimum Quantity of **Center Cluster Anchors Required**

For all all sizes and Anchor Groups, use 4 Anchors as shown in the elevation.

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.

4) FOR BUCK DIMENSIONS, SUBTRACT 1" FROM THE OVERALL DIMENSIONS SHOWN.

TABLE 4:

		Mini	mum (Quantit	ty of F	lead 8	Sill A	nchor	s Req	uired			
A 0 1 1 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3													
••••••	Group	35"	37"	53-1/8"	61"	64"	67"	70"	74"	80"	84"	90"	96"
	Α	0	1	1	2	2	2	2	2	2	3	3	3
38-3/8"	В	0	1	1	2	2	2	2	2	2.	2	3	3
•	С	0	1	1	1	1	1	. 1	1	2	2	2	2
	Α	0	1	1	2	2	2	2	2	2	3	3	3
44"	В	0	1	1	2	2	2	2	2	2	2	3	3
	С	0	1	1	1	1	1	1	1	2	2	2	2
	Α	0	1	1	2	2	2	2	2	2	3	3	3
50-5/8"	В	0	1	1	2	2	2	2	2	2	2	3	3
	С	0	1	1	1	1	1	1	1	2	2	2	2
	Α	0	1	1	2	2	2	2	2	2	2	3	3
63"	В	0	1	1	2	2	2	2	2	2	2	2	3
	С	0	1	1	1	1	1	1	1	2	2	2	2
	Α	0	1	1	2	2	2	2	2	2	2	2	2
67"	В	0	1	1	1	2	2	2	2	2	2	2	2
	С	0	1	1	1	1	1	1	1	1	1	1	2
	Α	0	1	1	1	1	2	2	2	2	2	2	2
70"	В	0	1	1	1	1	1	2	2	2	2	2	2
ı	С	0	1	1	1	1	1	1	1	1	1	1	1

SEE TABLE 6, SHEET 4 FOR ANCHOR GROUP DESCRIPTIONS.

TABLE 5:

		М	inimu	m Qua	ntity o	of Jam	b Anc	hors F	Requir	ed				
Overall Window	Anchor		Overall Window Width											
Height	Group	35"	37"	53-1/8"	61"	64"	67"	70"	74"	80"	84"	90"	96"	
	Α	2	2	3	3	3	3	3	3	3	3	3	3	
38-3/8"	В	2	2	2	2	2	2	2	2	2	2	2	2	
	C	2	2	2	2	2	2	2	2	2	2	2	2	
	Α	3	3	3	3	3	3	3	3	3	3	3	3	
44"	В	3	3	3	3	3	3	3	3	3	3	3	3	
	ပ	3	3	3	3	3	3	3	3	3	3	3	3	
	Α	3	3	4	4	4	4	4	4	4	4	4	4	
50-5/8"	В	3	3	3	3	3	3	3	3	3	3	3	3	
	C	3	3	3	3	3	3	3	3	3	3	3	3	
	Α	3	4	5	5	5	5	5	. 6	6	6	5	5	
63"	В	3	3	3	4	4	4	4	4	4	4	4	4	
	C	3	3	3	თ	3	3	3	3	3	3	3	3	
	Α	4	4	5	5	5	5	5	5	5	5	5	5	
67"	В	4	4	4	4	4	4	4	4	4	4	4	4	
67"	С	4	4	4	4	4	4	4	4	4	4	4	4	
	Α	4	4	5	5	5	5	5	5	5	5	5	4	
70"	В	4	4	4	4	4	4	4	4	4	4	4	4	
	С	4	4	4	4	4	4	4	4	4	4	4	4	

SEE TABLE 6, SHEET 4 FOR ANCHOR GROUP DESCRIPTIONS.

PRODUCT REVISED as complying with the Pierrose
Building Code
Acceptance No 16-0714-10
Expiration Date Nov 1,7017 By Manuel Pres Miani Pede Product Compor Drawn By:
J ROSOWSKI
Drawn Date: Date: 05/05/12 $\mathbf{\Omega}$ 3 OF 6 MD-HR810-LA ROLLER WINDOW DETAILS

Description: ANCHOR QUANTITIES AND SPACING Title: HORIZONTAL

cale: NTS

s/Model: HR-810

CERT. OF AUTH. #29296

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

