Engineering Evaluation Report

Prepared by:
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(941) 480-1600
Registration Number: #29296

Manufacturer:
PGT Industries, LLC
3400 Precision Drive
North Venice, FL 34275

Product Description:
HR5510 Series Impact-Resistant, Vinyl, Horizontal Roller Window with Diamond Glass, (LM), FL-29699

Compliance:
The above-mentioned product has been evaluated for compliance with the requirements of the Florida Department of Business and Professional Regulation for Statewide Acceptance per Rule 61 G20-3.005 method 1(d). The product listed herein complies with the requirements of the current Florida Building Code.

This product has been evaluated and is in compliance with the current Florida Building Code, including the “High Velocity Hurricane Zone” (HVHZ).

Supporting Technical Documentation:
1. Approval Document: Drawing number HR5510-DG, signed and sealed by A. Lynn Miller, P.E.

2. Test Reports:
FTL-8036-8038, 8040-8042, 8044-8046, 8050, 8052, 8053 & 8133, Fenestration Testing Laboratories, Medley, FL
ASTM E1886-05/1996-12; Signed and sealed by Idalmis Ortega, P.E.

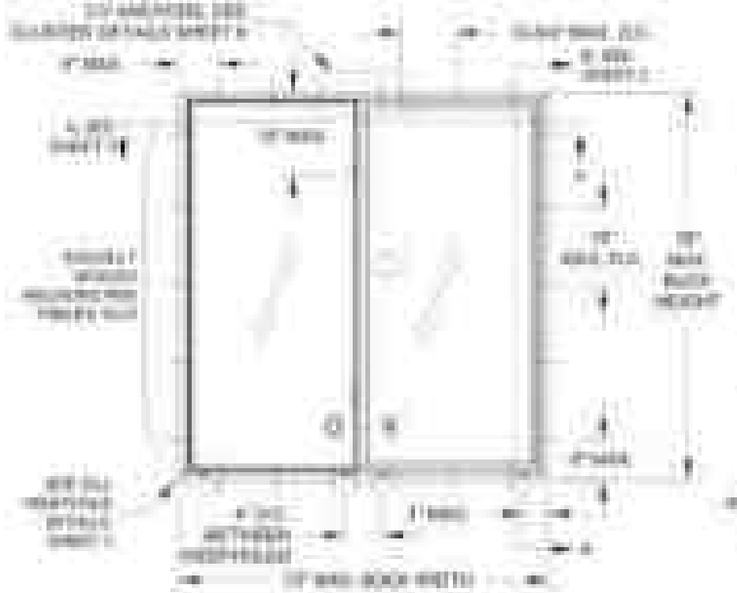
FTL-8035, 8039, 8043, 8049 & 8051, Fenestration Testing Laboratories, Medley, FL
AAMA/WDMA/CSA 101/IS2/A440-11

QAI NOK 0112-0116; signed and sealed by Idalmis Ortega P.E.; QAI Laboratories, Nokomis, FL
TAS 201-94 Large Missile Impact Test
TAS 202-94 Uniform Static Air Pressure Test
TAS 203-94 Cyclic Pressure Loading Test

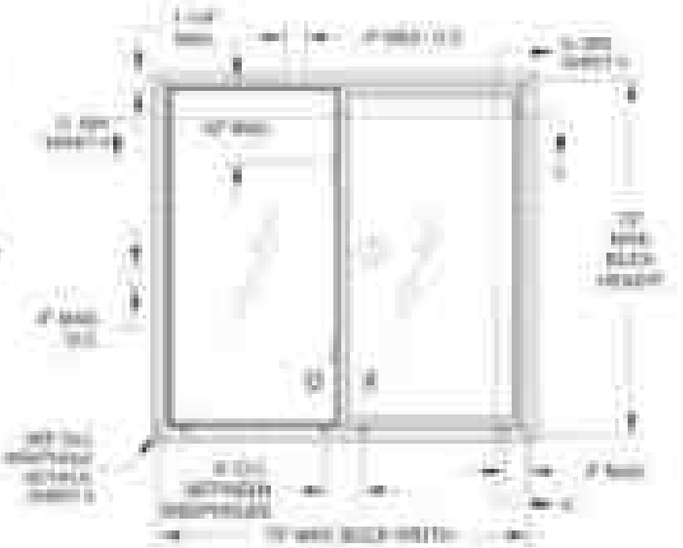
3. Miami-Dade RER Product Control Section NOA’s; PVB and/or SG Interlayer by Kuraray America, Inc.

Limitations and Conditions of use:
• Units must be glazed per ASTM E1300-09, refer to approval document for glazing details.
• This product is rated to be used in the HVHZ.
• This product is impact resistant and does not require impact protection in wind borne debris regions.
• Frame and sash material to be extruded Vinyl.
• Units must be installed in accordance with approval documents.

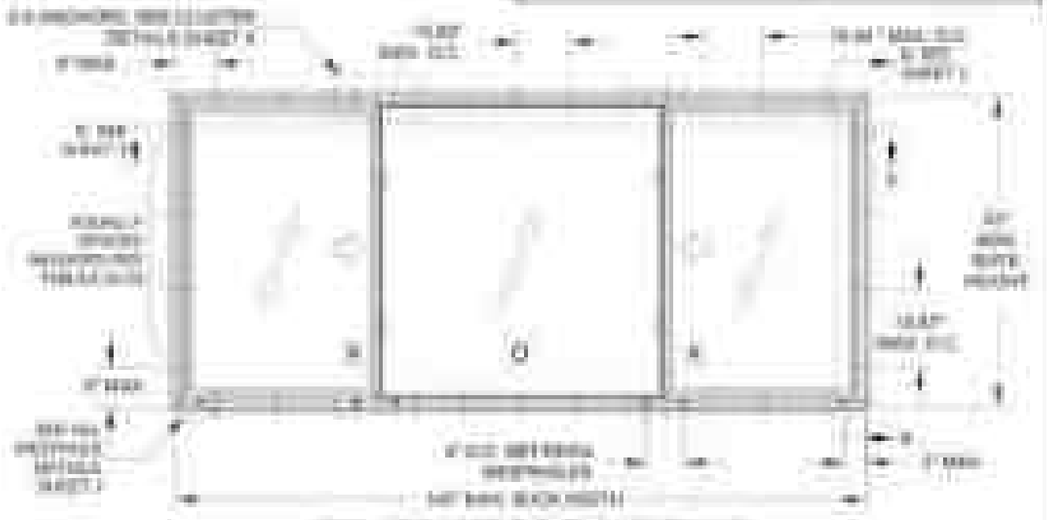




ELEVATION FOR TYP. EQUAL LEG FRAME
SHOWN AS OX CONFIGURATION



ELEVATION FOR TYP. FIN OR J-CHANNEL FRAME SHOWN AS
OX CONFIGURATION ANCHORED THROUGH THE NAILFIN



ELEVATION FOR TYP. FLANGE FRAME
SHOWN AS XOX CONFIGURATION

GENERAL NOTES: SERIES HR510 IMPACT RESISTANT HORIZONTAL ROLLER WITH DIAMOND GLASS

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING 140 MPH ULTIMATE HURRICANE ZONE (ASCE 7-10).
2) INSTALLATIONS ARE TO BE COMPLETED WITH USE OF APPROVED MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PER THE APPROVED DRAWINGS. FOR MASONRY APPLICATIONS, USE ONLY APPROVED ANCHORS AND SCREWS. ANCHORS MUST BE INSTALLED IN THE CENTER OF MASONRY UNITS AND NOT IN MORTAR JOINTS.
3) FOR MASONRY APPLICATIONS, USE ONLY APPROVED MASONRY ANCHORS AND SCREWS. MATERIALS USED FOR ANCHOR INSTALLATIONS MUST BE STRONGER THAN THE ANCHORS THEY SECURE. ANCHORS MUST BE INSTALLED IN THE CENTER OF MASONRY UNITS AND NOT IN MORTAR JOINTS.
4) ALL WOOD SHALL BE PRESSURE TREATED SOUTHERN PINE, KILN DRIED TO A MAXIMUM OF 19% MOISTURE CONTENT. ALL WOOD SHALL BE PROTECTED FROM MOISTURE DURING STORAGE, HANDLING AND INSTALLATION. ALL WOOD SHALL BE SEALED WITH PRIMER AND PAINT OR STAIN AND SEALER (NOT PROVIDED BY PGT) AS SOON AS POSSIBLE AFTER INSTALLATION. ALL WOOD SHALL BE PROTECTED FROM CONTACT WITH CONCRETE, MASONRY, OR METAL. ALL WOOD SHALL BE SEALED WITH PRIMER AND PAINT OR STAIN AND SEALER (NOT PROVIDED BY PGT) AS SOON AS POSSIBLE AFTER INSTALLATION. ALL WOOD SHALL BE PROTECTED FROM CONTACT WITH CONCRETE, MASONRY, OR METAL.
5) MINIMUM EMBEDMENT TO BASE MATERIAL SHALL BE AS NOTED. WALL CONDITIONS MUST PROVIDE SUFFICIENT LENGTH TO ACHIEVE REQUIRED MIN. EMBEDMENT. INSTALLATION ANCHORS SHALL BE SPACED EVENLY AROUND PERIMETER AS NOTED ON SHEET 2. ADDITIONAL ANCHORS MAY BE REQUIRED FOR INSTALLATIONS OUTSIDE THE SCOPE OF THESE INSTRUCTIONS.
6) LIFT RAILS, BRACES AND REMOVABLE MULLIONS MUST BE REMOVED PRIOR TO THE INSTALLATION OF THE PRODUCT. DO NOT ATTEMPT TO REMOVE THESE COMPONENTS AFTER THE PRODUCT IS INSTALLED IN THE OPENING.
7) DESIGN PRESSURES:
A- NEGATIVE DESIGN LOADS BASED ON STRUCTURAL & CYCLIC TESTING AND GLASS DEFLECTION (PSF)
B- POSITIVE DESIGN LOADS BASED ON MATERIAL TEST PROPERTIES, SAFETY FACTOR, & CYCLIC TESTING AND GLASS DEFLECTION (PSF)
C- DESIGN LOADS ARE BASED ON ALL CHANNEL STRESS DESIGN, H/D
8) THESE ENGINEERING METHODS WERE HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CONTAINED IN THE REQUIRED DESIGN PRESSURE, BUT NO FUNGAL STRESS MOISTURE WAS NOT TAKEN INTO ACCOUNT IN THE DESIGN OF THIS PRODUCT. THE GLOBAL DURATION FACTOR WAS USED FOR THE EVALUATION OF WOODEN MEMBERS AND WOOD ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.
9) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
10) APPLICABLE CODES REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.
11) FRAME FLANGES OR MITERING PINS MAY BE TRIMMED IN FIELD TO CREATE INTEGRAL LEG FRAME.

USER INSTRUCTIONS:

1) DETERMINE THE SIZE (WIDTH & HEIGHT) OF THE OPENING TO BE PROTECTED. MEASURE OPENING AT THREE POINTS (TOP, MIDDLE, BOTTOM) FOR WIDTH AND HEIGHT. USE THE SMALLEST MEASUREMENT FOR EACH.
2) KNOWING YOUR FRAME TYPE, WINDOW CONFIGURATION (I.E. XO, OXO, ETC.) AND SIZE (ALWAYS OPTION FROM TABLE 1) AND YOUR EXPOSURE LEVEL, DETERMINE YOUR MINIMUM DESIGN PRESSURE REQUIREMENT FOR THE WINDOW OPENING (SEE TABLES 2-5 LOCATED IN ALL PRODUCT DRAWINGS OR REFER TO THE DESIGN PRESSURE REQUIREMENT FOR THE WINDOW OPENING OBTAINED IN STEP 1). USE INDEX TABLE ON SHEET 2 TO HELP FIND THE APPROPRIATE TABLE.
3) DETERMINE THE MOST SUITABLE ANCHOR OR GROUP FROM TABLES 6 AND 7 ON SHEET 2 (REFERRED TO THE INSTALLATION CONSTANT).
4) DETERMINE THE ANCHOR QUANTITY FROM TABLES 10-13 (SHEETS 9-12). VERIFY THE ANCHOR EMBEDMENT WILL MEET REQUIREMENTS FOR YOUR OPENING (OBSERVATION FROM TABLES 2-5 AND THAT ALL MIN. REQUIREMENTS FROM THIS SHEET SET ARE MET.
INSTALL ALL PER SHEET 3 FOR FLANGE EQUAL LEG INSTALLATION OR SHEET 4 FOR INTEGRAL FIN (J-CHANNEL) INSTALLATION USE TABLE 1 ON SHEET 2 TO FIND THE APPROPRIATE DETAILS.

NOTE: DESIGN PRESSURE RATING DETERMINATION IS THE SAME PROCESS FOR ALL FRAME TYPES (J-CHANNEL, FLANGE, INTEGRAL FIN OR EQUAL LEG) SHOWN ON SHEET 1.

CLOSED AREA ABOVE IS NOT TO THE MAXIMUM ALLOWABLE OPENING

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PGT

VINYL HORIZONTAL ROLLER WINDOW (LM)	0334220
GENERAL NOTES & ELEVATIONS	JEAN ROMONDINI
A4000.01	1 OF 15

TABLE 1: ALLOWABLE GLASS TYPES

Glass Type	Description (Listed from Exterior to Interior)
1	[illegible]
2	[illegible]
3	[illegible]
4	[illegible]
5	[illegible]
6	[illegible]
7	[illegible]

[illegible]

TABLE 2: ALLOWABLE ANCHORS THROUGH THE FRAME

Group	Section	Substrate	Min. Edge Distance	Min. Embedment*
A	[illegible]	[illegible]	[illegible]	[illegible]
B	[illegible]	[illegible]	[illegible]	[illegible]
C	[illegible]	[illegible]	[illegible]	[illegible]
D	[illegible]	[illegible]	[illegible]	[illegible]

*MIN. OF 1 THREAD BEYOND THE METAL SUBSTRATE
MINIMUM PVC FIN LENGTH MUST BE USED FOR INSTALLATION APPLICATIONS
ALL ANCHOR HEAD TYPES ARE ACCEPTABLE

TABLE 3: ALLOWABLE ANCHORS THROUGH THE MATERIAL TAB

Group	Section	Substrate	Min. Edge Distance	Min. Embedment*
A	[illegible]	[illegible]	[illegible]	[illegible]
B	[illegible]	[illegible]	[illegible]	[illegible]
C	[illegible]	[illegible]	[illegible]	[illegible]
D	[illegible]	[illegible]	[illegible]	[illegible]

*MIN. OF 1 THREAD BEYOND THE METAL SUBSTRATE

[illegible]

FIGURE 1: [illegible]

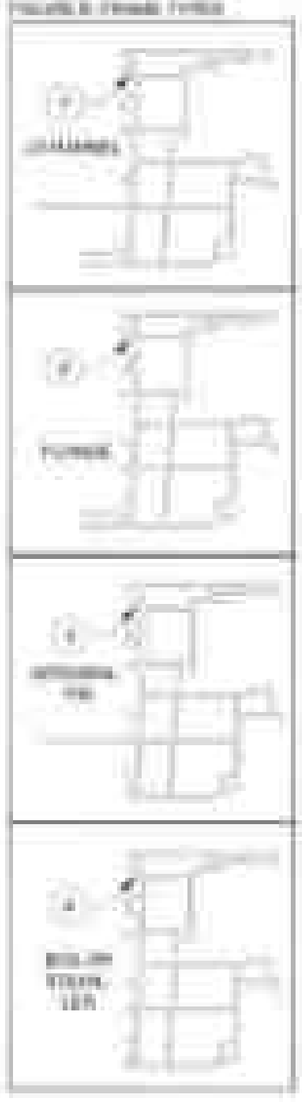


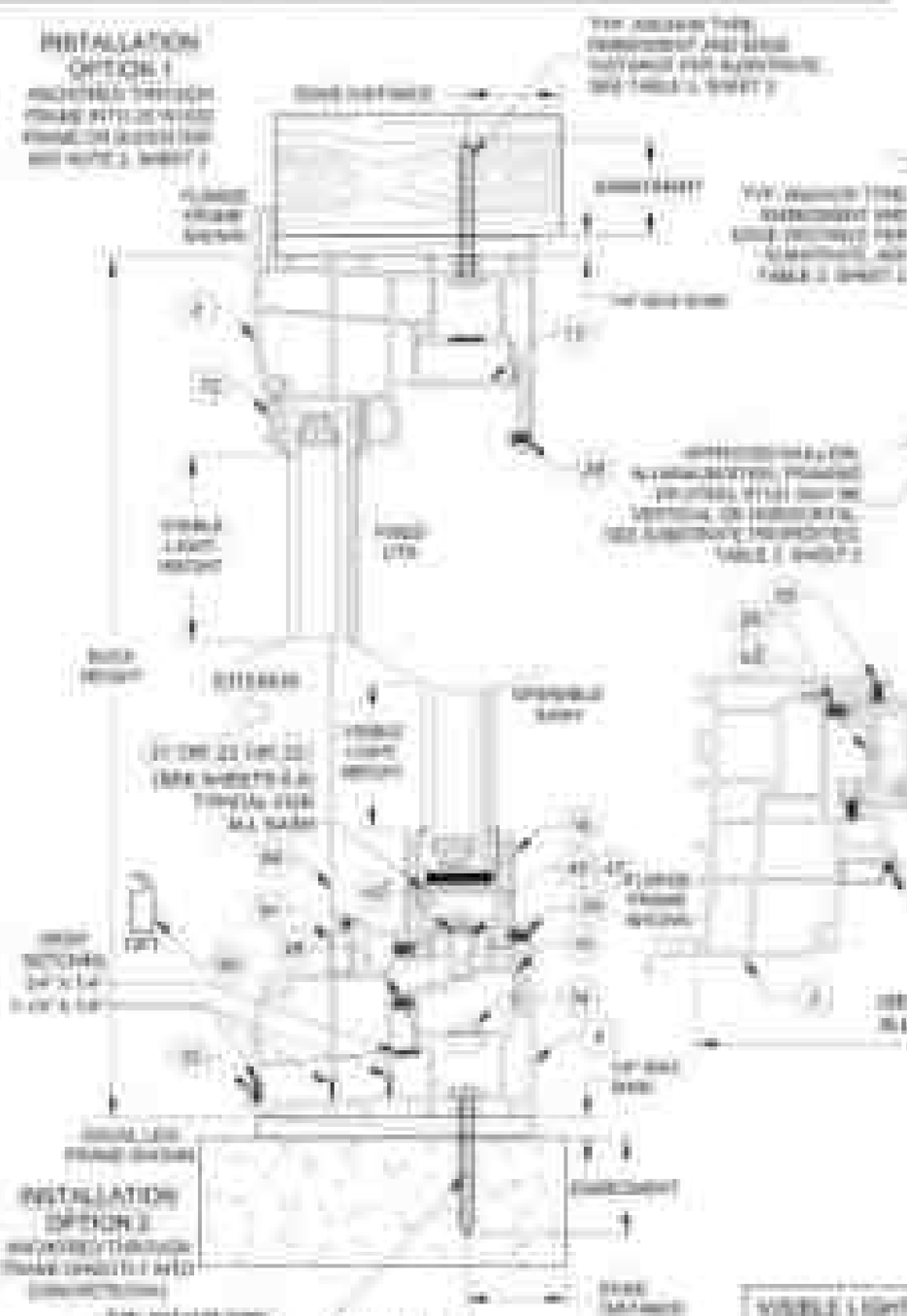
TABLE 4: [illegible]

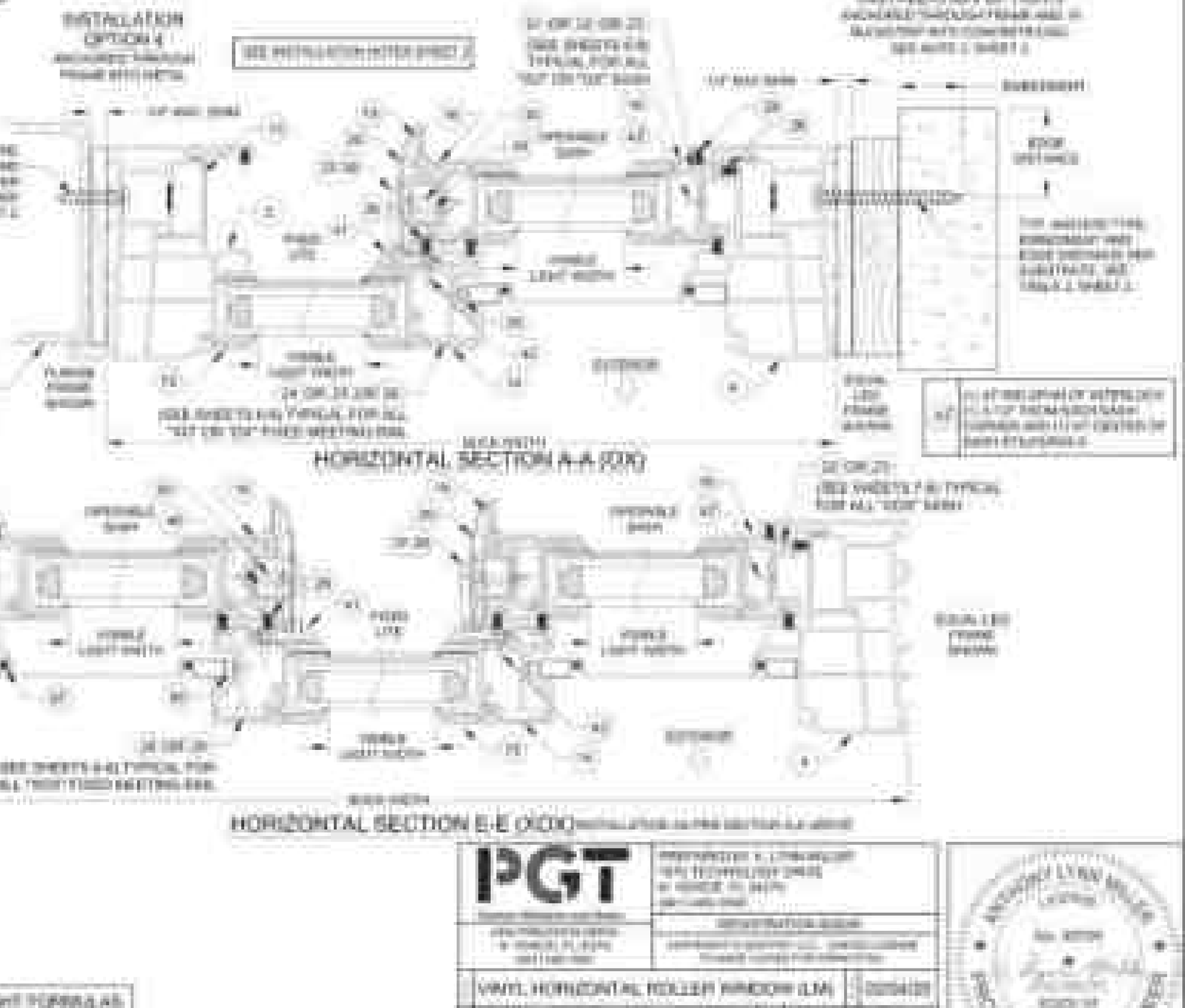
Frame Type / Part No.	Installation Conditions	Substrate Type or Screw Size
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

[illegible]

PGT	[illegible]
VINYL HORIZONTAL ROLLER WINDOW (LM)	[illegible]
GLASS/GLAZING/FRAME OPTIONS	JENN RICHARDSON
[illegible]	[illegible]

INSTALLATION DETAILS FOR FLANGE AND EQUAL LEG FRAMES





VISIBLE LIGHT FORMULAS
(EQUAL-LITE, XO & OX)

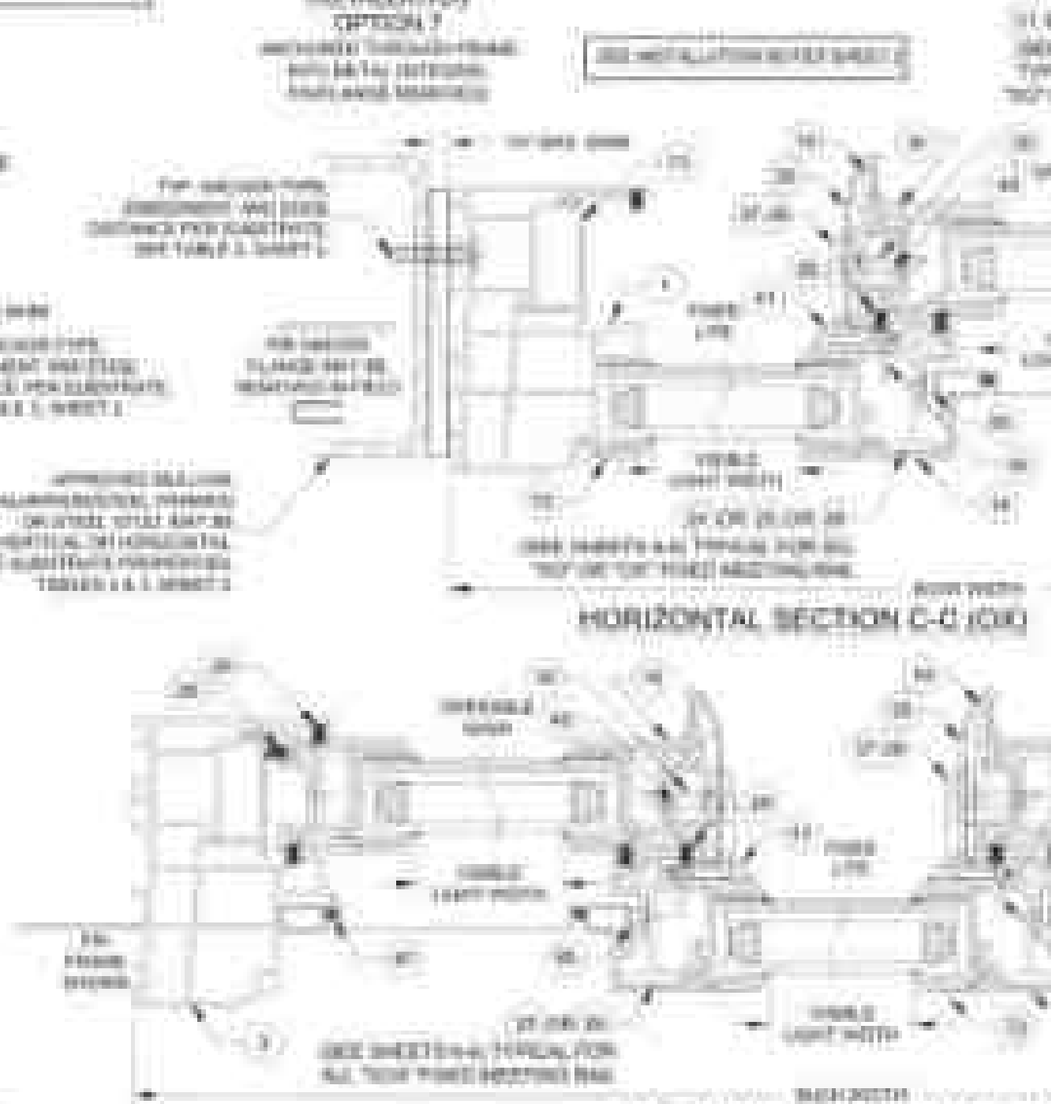
VINYL HORIZONTAL ROLLER WINDOW (LM)	0200420
FLANGE & EQUAL LEG FRAMES	JENN ROSSMANN
	1
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INSTALLATION DETAILS FOR FIN AND J-CHANNEL FRAMES



INSTALLATION OPTION 3

VERTICAL SECTION D-D



HORIZONTAL SECTION C-C (OX)

HORIZONTAL SECTION C-C (XOX)

INSTALLATION OPTION 3

INSTALLATION OPTION 3

INSTALLATION OPTION 3

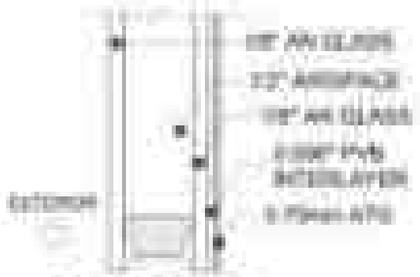
INSTALLATION OPTION 3

VISIBLE LIGHT FORMULAS (EQUAL 4 (15), 8(1) & (2))

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VINYL HORIZONTAL ROLLER WINDOW (LM)

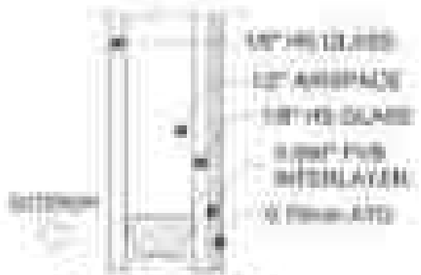
J-CHANNEL & MT. FIN FRAMES



GLASS TYPE 1
7/8" NOM. GLASS STACK



GLASS TYPE 2
7/8" NOM. GLASS STACK



GLASS TYPE 3
7/8" NOM. GLASS STACK



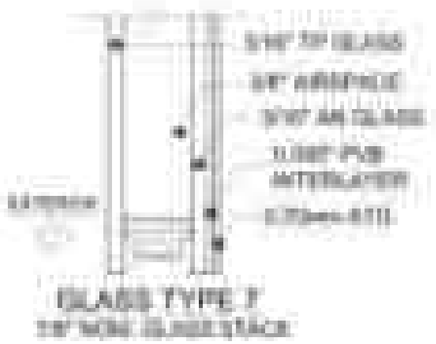
GLASS TYPE 4
7/8" NOM. GLASS STACK



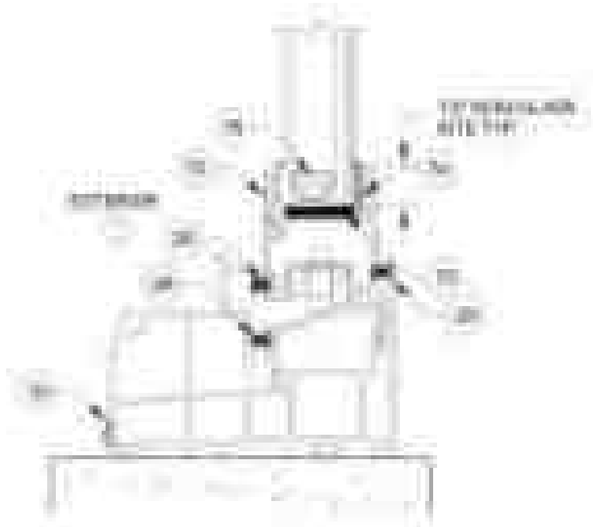
GLASS TYPE 5
7/8" NOM. GLASS STACK



GLASS TYPE 6
7/8" NOM. GLASS STACK



GLASS TYPE 7
7/8" NOM. GLASS STACK



TYP. GLAZING DETAIL

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VINYL HORIZONTAL ROLLER WINDOW (LM)

GLAZING DETAILS

TABLE 1

Notes to All Design Pressure and Anchor Quantity Tables

Config.	Max. Width	Max. Height	Frame Type	Panel Count	Interlock Type Attached	Design Pressure		Anchor Quantity	
						Table #	Image #	Table #	Sheet #
XO = OX	79"	24"	T & C T & C & C	2 3	SO SO	6 7	6 6	20 21	6 6
		48"	T & T T & C & T	2 3	HP SO	8 11	7 8	16 20	10 11
		72"	T & T	2	SO	10	9	16	10
		96"	T	1	Flange/H - 2019	12	9	12	11
XOX	131"	72"	T & T	2	SO	9	7	20	10
			T & T	2	Flange/H - 2019	12	9	20	11
	157"		T	1	Flange/H - 2019	14	9	24	11
			T & T	2	Flange/H - 2019	16	9	20	11

NOTES:

1) USE THESE TABLES FOR ALL WINDOWS WITH LESS THAN OR EQUAL TO THE SAME NUMBER OF INTERIOR JOINTS.

2) FRAME DIMENSIONS ARE MAX WIDTH AND MAX HEIGHT. SHEETS 3 to 5 AND 7 ARE IS FOR THE FIGURE.

3) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

4) THE 5.0 PSF AND 7.5 PSF DESIGN TEST PASSED STANDARD SASH CONFIGURATIONS ALL GLASS THE SASH WIDTH RANGE IN THE ADJACENT COLUMN. TUNGSTEN SASH RAILS THAT DO STRADDLE SASH. STRADDLE POSTS FALL WITHIN THE RANGE.

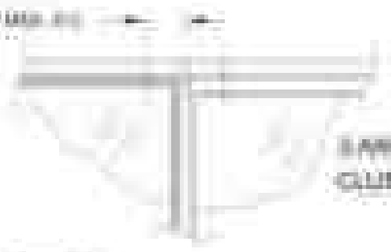
Sheet	Config. (IN THIS SHEET)
3	XO, OX, XOX, XOXO, XOXOX, XOXOXO, XOXOXOX, XOXOXOXO, XOXOXOXOX
4	XO, OX, XOX, XOXO, XOXOX, XOXOXO, XOXOXOX, XOXOXOXO, XOXOXOXOX
5	XO, OX, XOX, XOXO, XOXOX, XOXOXO, XOXOXOX, XOXOXOXO, XOXOXOXOX
6	XO, OX, XOX, XOXO, XOXOX, XOXOXO, XOXOXOX, XOXOXOXO, XOXOXOXOX
7	XO, OX, XOX, XOXO, XOXOX, XOXOXO, XOXOXOX, XOXOXOXO, XOXOXOXOX
8	XO, OX, XOX, XOXO, XOXOX, XOXOXO, XOXOXOX, XOXOXOXO, XOXOXOXOX



5-ANCHOR CLUSTER DETAIL



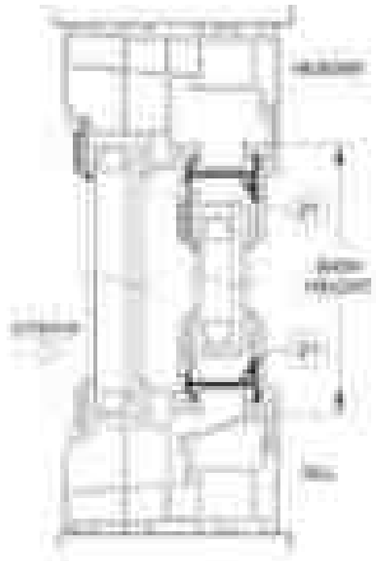
4-ANCHOR CLUSTER DETAIL



3-ANCHOR CLUSTER DETAIL



2-ANCHOR CLUSTER DETAIL



SECTION DETAIL
FOR WINDOWS WITH
LEVEL R2 REINFORCEMENT

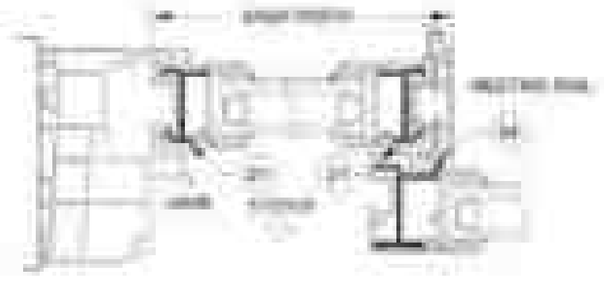
REINFORCEMENTS SHOWN IN FIGURES APPLY TO ALL FRAME TYPES & CONFIGURATIONS

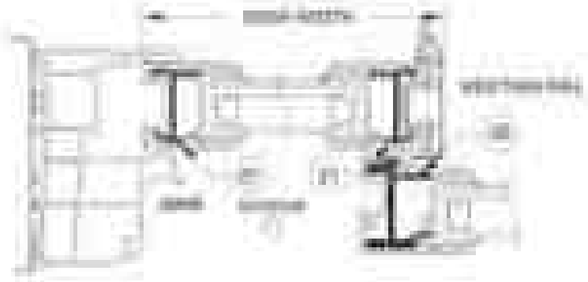
Config. Type (T = T/T)	Design Pressure (lbs/ft²) for R2 or LR Mainframe
Panel Count (C)	1-2 Panel Design (2 or 3 Tee)
All Sash Widths up to 79"	R2C / R2

SEE TABLE 11 FOR ANCHORING

Config. Type (T = T/T)	Design Pressure (lbs/ft²) for R2 or LR Mainframe
Panel Count (C)	1-2 Panel Design (2 or 3 Tee)
All Sash Widths up to 79"	R2C / R2

SEE TABLE 11 FOR ANCHORING

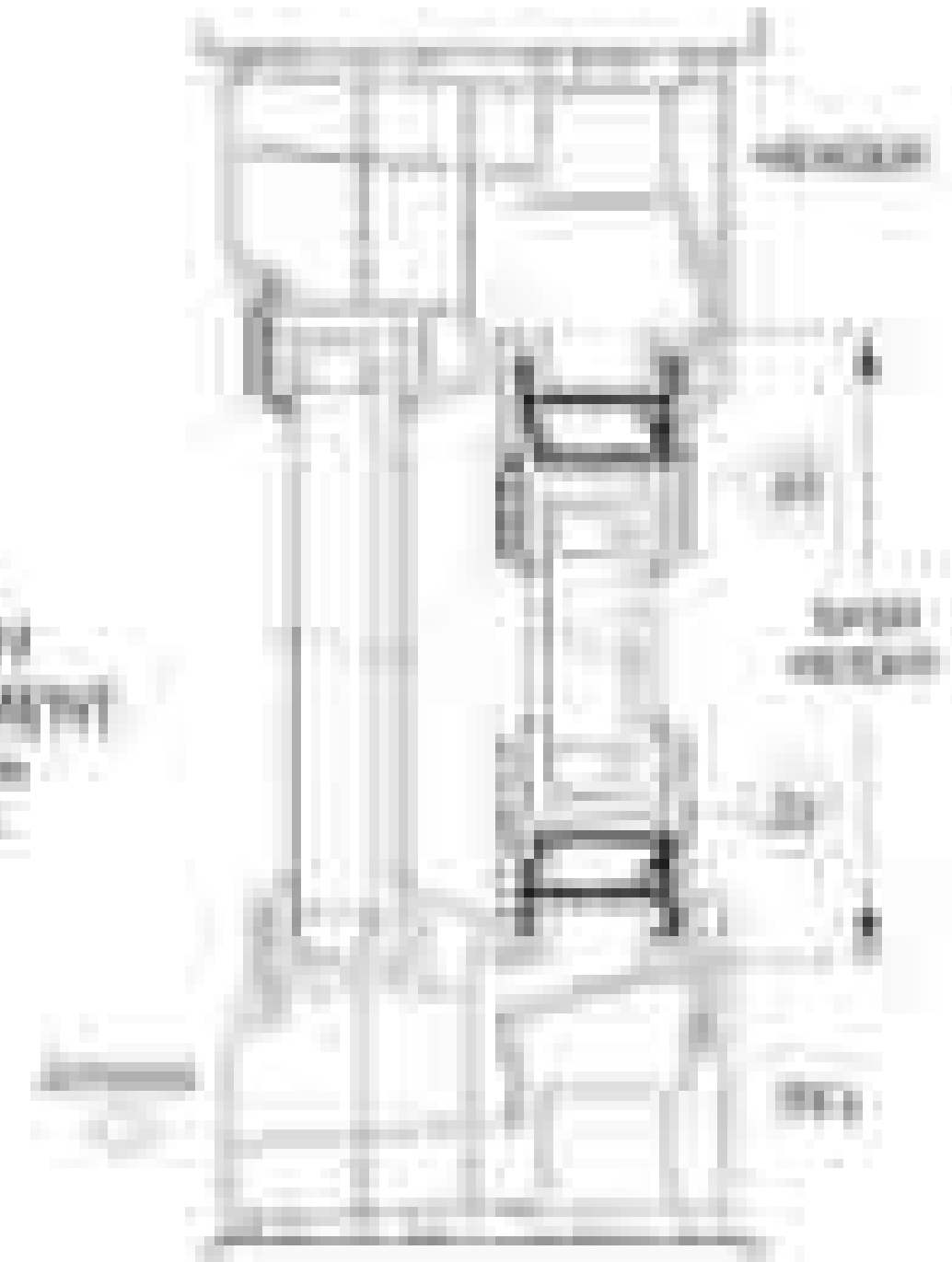




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VINYL HORIZONTAL ROLLER WINDOW (LM)		0334109
DESIGN PRESSURE TABLES		JENN RONDARIS



SECTION DETAIL
FOR WINDOWS WITH
LEVEL R3 REINFORCEMENT
REINFORCEMENTS SHOWN
IN FIGURES APPLY TO ALL
FRAME TYPES & CONFIGURATIONS



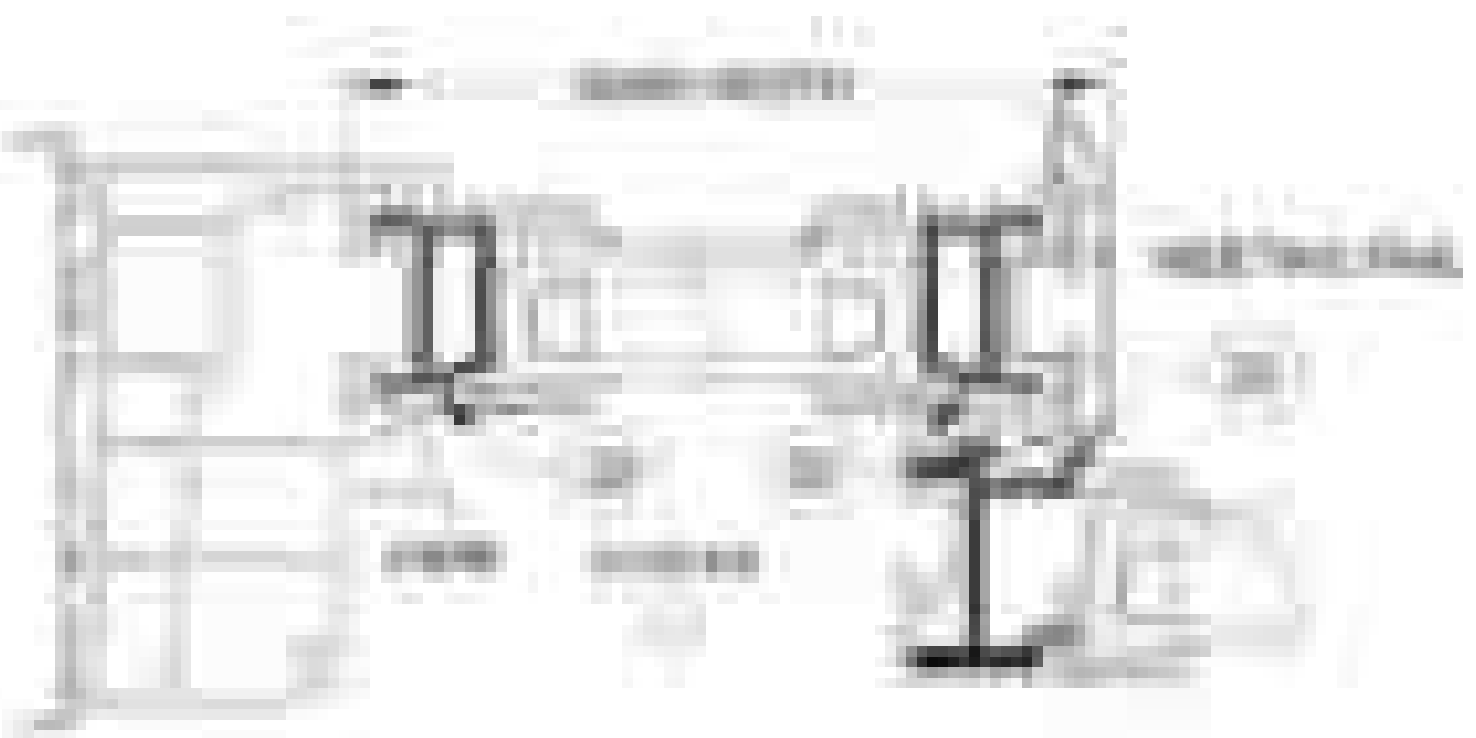


TABLE [illegible]

[illegible]	Design Pressure (lbs/ft²) for XO or OX Windows
[illegible]	[illegible]
[illegible]	[illegible]

[illegible]

TABLE [illegible]

[illegible]	[illegible]	[illegible]	Design Pressure (lbs/ft²) for XOX Windows					
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]

NOTES:
1) USE THESE TABLES FOR ALL WINDOWS INSTALLED THROUGH THE FRAME OR INTEGRAL FIN.
2) [illegible]
3) [illegible]
[illegible]

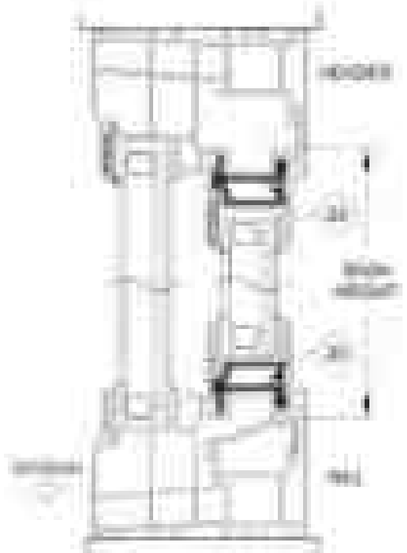
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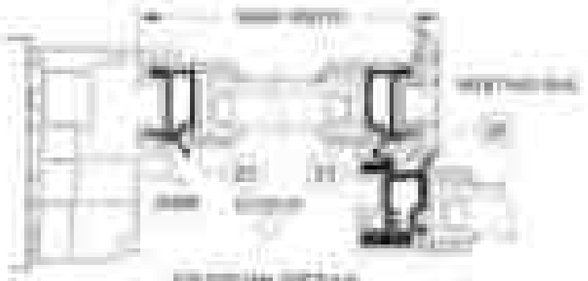
VINYL HORIZONTAL ROLLER WINDOW (LM)

DESIGN PRESSURE TABLES

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SECTION DETAIL
FOR WINDOWS WITH
LEVEL R4 REINFORCEMENT

PGT

VINYL HORIZONTAL ROLLER WINDOW (LM)

DESIGN PRESSURE TABLES

TABLE [illegible]

[illegible]	Sash Width (in)	Anchor Quantities for XO or OX Windows															
		[illegible] Height		[illegible] Height		[illegible] Height		[illegible] Height		[illegible] Height		[illegible] Height		[illegible] Height		[illegible] Height	
		Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
		Anchor Group A								Anchor Group C							
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Anchor Group B								Anchor Group D							
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

TABLE [illegible]

[illegible]	Sash Width (in)	Anchor Quantities for XO or OX Windows															
		[illegible] Height		[illegible] Height		[illegible] Height		[illegible] Height		[illegible] Height		[illegible] Height		[illegible] Height		[illegible] Height	
		Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
		Anchor Group A								Anchor Group C							
[illegible]	[illegible]	Not Allowed								[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]									[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]									[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]									[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]									[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]									[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]									[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Anchor Group B								Anchor Group D							
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[redacted]

GUIDE TO USING ANCHOR QUANTITY TABLES

FOR OX WINDOWS (XO SIMILAR)

[illegible]



FOR XOX WINDOWS

[illegible]



Max. Anchor O.C. Spacing for "Integral Fin" Installation	[illegible]
	[illegible]

NOTES:
[illegible]



Anchor Quantities for XO or OX Windows

Design Pressure (DP)	Rough Opening Width (W)	15" Height		24" Height		36" Height		48" Height		60" Height	
		Head	Jamb	Head	Jamb	Head	Jamb	Head	Jamb	Head	Jamb
Anchor Group A											
15.0 PSF	12'-0"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	48"	2 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	36"	2 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	42"	2 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	48"	2 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	60"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"
	72"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"
Anchor Group B											
30.0 PSF	12'-0"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	48"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	36"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	42"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	48"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	60"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"
	72"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"

Design Pressure (DP)	Rough Opening Width (W)	15" Height		24" Height		36" Height		48" Height		60" Height	
		Head	Jamb	Head	Jamb	Head	Jamb	Head	Jamb	Head	Jamb
Anchor Group C											
15.0 PSF	12'-0"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	48"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	36"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	42"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	48"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	60"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"
	72"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"
Anchor Group D											
30.0 PSF	12'-0"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	48"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	36"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	42"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	48"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	60"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"
	72"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"

Max. Anchor O.C. Spacing for "Integral-Fin" Installation

Anchor Group	'a'
A	

NOTES:

1. FRAME CORNERS ARE TO BE ANCHORED WITHIN 6" OF THE CORNER AND EACH MULLION JOINT WITHIN 6" OF THE JOINT, WHEN SIZE IS AS PER THE TABLES ON SHEETS XX.

2. FOR SIZES NOT SHOWN, INTERPOLATE BETWEEN VALUES OR USE THE NEXT LARGER WIDTH OR HEIGHT COMBINATION SHOWN ON THE TABLE.

3. SEE SHEET XX FOR A GUIDE TO USING THESE TABLES.

Anchor Quantities for XO or OX Windows

Design Pressure (DP)	Rough Opening Width (W)	12" Height		24" Height		36" Height		48" Height		60" Height	
		Head	Jamb	Head	Jamb	Head	Jamb	Head	Jamb	Head	Jamb
Anchor Group A											
15.0 PSF	12'-0"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	48"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	36"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	42"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	48"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	60"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"
	72"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"
Anchor Group B											
30.0 PSF	12'-0"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	48"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	36"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	42"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	48"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	60"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"
	72"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"

Design Pressure (DP)	Rough Opening Width (W)	12" Height		24" Height		36" Height		48" Height		60" Height	
		Head	Jamb	Head	Jamb	Head	Jamb	Head	Jamb	Head	Jamb
Anchor Group C											
15.0 PSF	12'-0"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	48"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	36"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	42"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	48"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	60"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"
	72"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"
Anchor Group D											
30.0 PSF	12'-0"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	48"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	36"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	42"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	48"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"	1 @ 12"
	60"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"
	72"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"	2 @ 12"

Max. Anchor O.C. Spacing for "Integral-Fin" Installation

Anchor Group	'a'
A	

PGT

TABLE A1

Glass Types 1, 4, 5 & 7 / Rqmt. Level for	Rough Opening (in.)	Anchor Quantities for XO or OX Windows											
		20" Height		24" Height		28" Height		32" Height		36" Height		40" Height	
		Head	Sill	Head	Sill	Head	Sill	Head	Sill	Head	Sill	Head	Sill
Design Pressure (psf)		Anchor Group A								Anchor Group C			
15	12.141"	Not Allowed								1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4
20	11.953"									1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4
25	11.766"									1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4
30	11.578"									1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4
35	11.391"									1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4
40	11.203"									2-CSH-2 2	2-CSH-2 2	1-CSH-2 4	1-CSH-2 4
45	11.016"									2-CSH-2 2	2-CSH-2 2	2-CSH-2 4	2-CSH-2 4
Design Pressure (psf)		Anchor Group B								Anchor Group D			
15	12.141"	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4
20	11.953"	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4
25	11.766"	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4
30	11.578"	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4
35	11.391"	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4
40	11.203"	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4
45	11.016"	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4

Max. Anchor O.C. Spacing for "Integral-Fin" Installation	Anchor Group A	Anchor Group B	Anchor Group C	Anchor Group D
	Not Allowed	6"	6"	6"

NOTES:
1. FRAME DIMENSIONS ARE MIN. WIDTH AND MIN. HEIGHT. SEE SHEET 3 OF 3 FOR SIZE RANGE FOR FIGURES ON SHEET 3 OF 3.
2. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE FOR HIGHEST TEMPERED GROUP ON THE TABLE.
3. SEE SHEET 3 OF 3 FOR A GUIDE TO USING THESE TABLES.

TABLE A2

Glass Type 2 / Rqmt. Level for	Rough Opening (in.)	Anchor Quantities for XO or OX Windows											
		20" Height		24" Height		28" Height		32" Height		36" Height		40" Height	
		Head	Sill	Head	Sill	Head	Sill	Head	Sill	Head	Sill	Head	Sill
Design Pressure (psf)		Anchor Group A								Anchor Group C			
15	12.141"	Not Allowed								1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4
20	11.953"									1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4
25	11.766"									1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4
30	11.578"									1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4
35	11.391"									1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4
40	11.203"									2-CSH-2 2	2-CSH-2 2	1-CSH-2 4	1-CSH-2 4
45	11.016"									2-CSH-2 2	2-CSH-2 2	2-CSH-2 4	2-CSH-2 4
Design Pressure (psf)		Anchor Group B								Anchor Group D			
15	12.141"	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4
20	11.953"	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4
25	11.766"	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4
30	11.578"	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4
35	11.391"	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4
40	11.203"	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4
45	11.016"	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 4	1-CSH-1 2	1-CSH-1 2	1-CSH-1 4	1-CSH-1 4

THESE TABLES ARE NOT FOR USE WITH STRUCTURAL GLASS OR SPECIAL GLASS

PGT
PGT INDUSTRIES
1070 ENGINEERING DRIVE
NORTH VENICE, FL 34275
941-480-1600
PGTINDUSTRIES.COM
REVISIONS
DESCRIPTION
DATE
SHEET NO.
DRAWING NO.
PROJECT NO.
SCALE
DRAWN BY
CHECKED BY
APPROVED BY
DATE
SHEET TITLE
ANCHORING TABLES
SHEET NO.
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ANCHORING TABLES

PROFESSIONAL ENGINEER
No. 80748
STATE OF FLORIDA

Anchor Quantities for ADS Windows

Header Height / Roof Load (psf)	Wall Configuration	Stud Size (in), Spacing (in)	Wall Height	Wall Height	Wall Height	Wall Height	Wall Height	Wall Height	Wall Height	Wall Height	Wall Height	Wall Height
			Header Height	Header Height	Header Height	Header Height	Header Height	Header Height	Header Height	Header Height	Header Height	Header Height
			Number of Anchors Required									
Exposure B												
20												
30												
40												
50												
60												
70												
80												
90												
100												
Exposure C												
20												
30												
40												
50												
60												
70												
80												
90												
100												

SEE TABLE FOR DESIGN PRESSURE

Max Anchor O.C. Spacing for "Integral Fin" Installation	Anchor Group A
	8"

NOTES:

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ENGINEERING

Anchor Quantities for SDR Windows

Not Included





Anchor Quantities for [illegible] Windows

[illegible]

Not Allowed

[illegible]

NOTES:

[illegible]

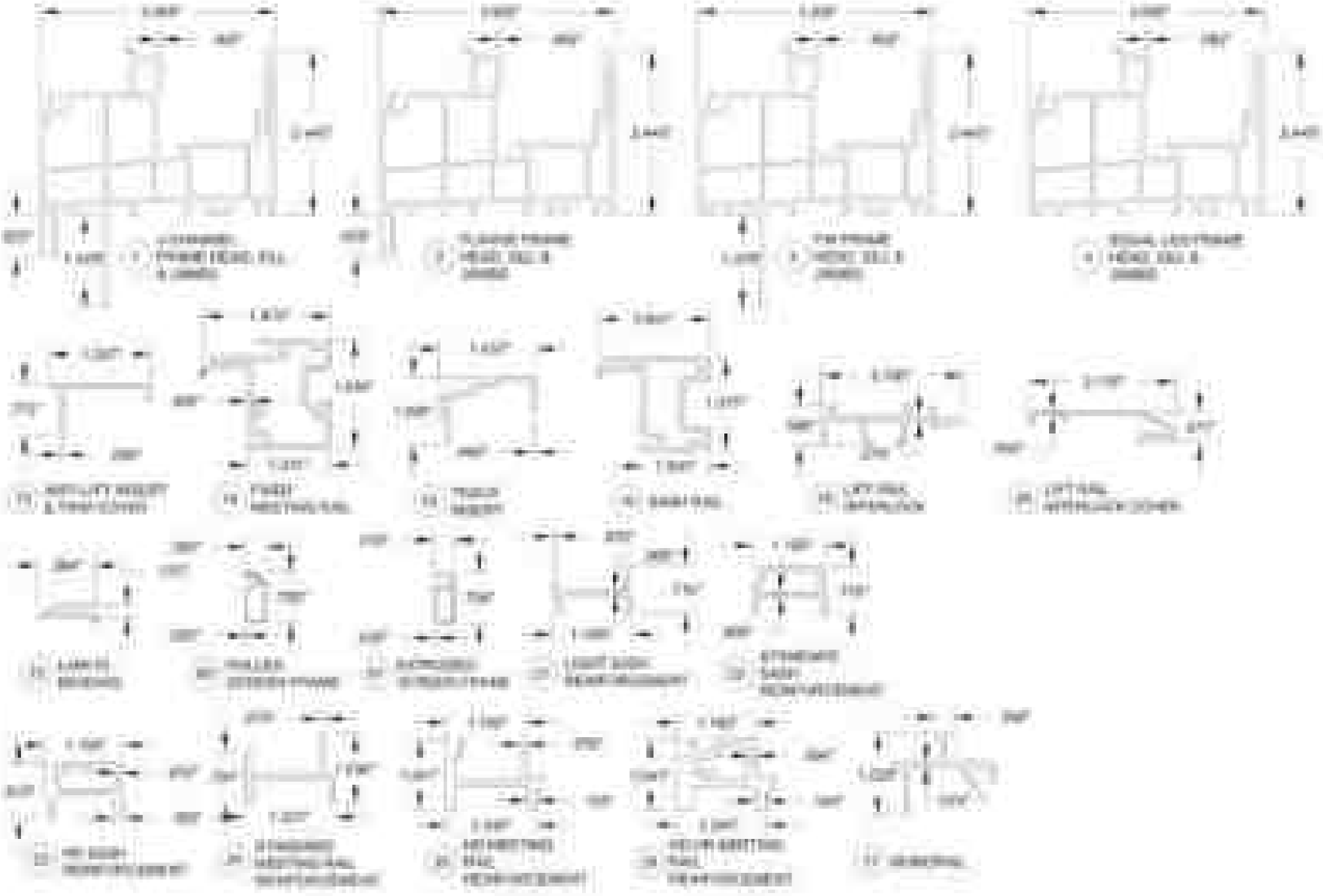
PGT

[illegible]

Bill of Material

#	Part #	Description	Material
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3	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]
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60	[illegible]	[illegible]	[illegible]

NOTES:
[illegible]



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VINYL HORIZONTAL ROLLER WINDOW (LM) | SERIES

WINDOW EXTRUSIONS & BOM | JENS ROSOWSKI

HR5070 | 15 OF 16 | WR5410-DO



SASH ASSEMBLY DETAILS

SCREEN ASSEMBLY DETAILS

FRAME ASSEMBLY DETAILS

EGRESS LOCK DETAILS

Egress Lock Bill of Material

#	Part #	Description	Material

NOTES:

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VINYL HORIZONTAL ROLLER WINDOW (LM)

EXPLODED WINDOW VIEW

JENN RICHARDSON

SHEET 10 OF 10