Engineering Evaluation Report #5510-08172026

Prepared by:
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Florida Registration: #29296

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

Product Description:
HR5510 Series Impact-Resistant, Vinyl, Horizontal Roller Window, (LM), FL-1844

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.

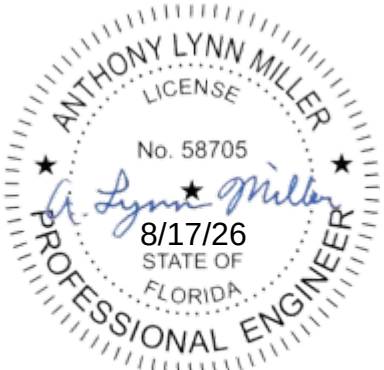
This product has been evaluated and is in compliance with the current Florida Building Code, including the “High Velocity Hurricane Zone” (HVHZ).

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

2. Test Reports:
FTL-8072, 8073 & 8074, Fenestration Testing Laboratories, Medley, FL; Signed and sealed by Idalmis Ortega, P.E.
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 E1300-24, 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.



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

SINGLE HINGED
IMPACT RESISTANT HORIZONTAL ROLLER

ELEVATION FOR TYP. EQUAL LEG FRAME SHOWN AS OX CONFIGURATION

ELEVATION FOR TYP. FIN OR J-CHANNEL FRAME SHOWN AS OX CONFIGURATION ARCHIVED THROUGH THE MAS P/N

ELEVATION FOR TYP. FLANGE FRAME SHOWN AS XOX CONFIGURATION

GENERAL NOTES	1
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VISIBLE LIGHT FORMULAS (EQUAL LITE: NO & OX)

PGT

TABLE 1: ALUMINUM GLASS TYPES

Glass Type	Description
3	[illegible]
5	[illegible]
7	[illegible]
9	[illegible]
10	[illegible]
11	[illegible]
12	[illegible]
14	[illegible]
15	[illegible]
16	[illegible]

GLASS TYPES 12 THROUGH 16 OF EITHER THICKNESS ARE LIMITED WITH A STRUCTURAL OR WIND LOADING APPLICATION.

GLASS TYPES 3, 7, 11 & 15 MAY NOT BE USED IN THE HANDLING DEVICE.

[illegible]

TABLE 2: ANCHORING REQUIREMENTS FOR [illegible]

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
A	#10 SMS (Carbon Steel or 18-8 SS)	Aluminum Pile [illegible]	[illegible]	[illegible]
		Steel .125"	[illegible]	[illegible]
		Steel 16GA [illegible]	[illegible]	[illegible]
		Aluminum .062"[3]	[illegible]	[illegible]
	0.145" Steel Wedge-Lok	Aluminum Pile [illegible]	[illegible]	[illegible]
		Concrete [illegible]	[illegible]	[illegible]
		Aluminum [illegible]	[illegible]	[illegible]
B	#10 Bolts (Carbon Steel or 18-8 SS) [illegible]	Aluminum Pile [illegible]	[illegible]	[illegible]
		Steel .125"	[illegible]	[illegible]
		Steel 16GA [illegible]	[illegible]	[illegible]
	0.145" Steel Wedge-Lok	Aluminum Pile [illegible]	[illegible]	[illegible]
	1/4" [illegible] SS Carriage	Aluminum Pile [illegible]	[illegible]	[illegible]
	1/4" Dia. SS Hex Lag Screw	Aluminum Pile [illegible]	[illegible]	[illegible]
C	1/4" Steel Masonry*	Concrete [illegible]	[illegible]	[illegible]
		Aluminum [illegible]	[illegible]	[illegible]
	1/4" #10 SS Carriage	Concrete [illegible]	[illegible]	[illegible]
		Aluminum [illegible]	[illegible]	[illegible]
D	1/4" Steel Masonry*	Concrete [illegible]	[illegible]	[illegible]
		Aluminum [illegible]	[illegible]	[illegible]
	1/4" #10 SS Carriage	Concrete [illegible]	[illegible]	[illegible]
		Aluminum [illegible]	[illegible]	[illegible]
E	1/4" Steel Masonry*	Concrete [illegible]	[illegible]	[illegible]
		Aluminum [illegible]	[illegible]	[illegible]
	1/4" #10 SS Carriage	Concrete [illegible]	[illegible]	[illegible]
		Aluminum [illegible]	[illegible]	[illegible]
F	#10 SMS (Carbon Steel or 18-8 SS)	Aluminum Pile [illegible]	[illegible]	[illegible]
		Steel .125"	[illegible]	[illegible]
		Steel 16GA [illegible]	[illegible]	[illegible]
		Aluminum .062"[3]	[illegible]	[illegible]
	#10 Bolts (Carbon Steel or 18-8 SS)	Aluminum Pile [illegible]	[illegible]	[illegible]
		Aluminum .062"[3]	[illegible]	[illegible]
		Steel .125"	[illegible]	[illegible]
		Steel 16GA [illegible]	[illegible]	[illegible]

[illegible]

TABLE 3: ANCHORING REQUIREMENTS FOR [illegible]

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
A	0.145" x 3.25" Stainless Rail	Stainless Pile [illegible]	[illegible]	[illegible]
	0.145" Tekgard-Lok Roofing Nail	Stainless Pile [illegible]	[illegible]	[illegible]
B	#10 SMS (Carbon Steel or 18-8 SS) [illegible]	Aluminum Pile [illegible]	[illegible]	[illegible]
		Aluminum .062"[3]	[illegible]	[illegible]
		Steel 16GA [illegible]	[illegible]	[illegible]
		Steel .125"	[illegible]	[illegible]
C	#10 SMS (Carbon Steel or 18-8 SS) [illegible]	Aluminum Pile [illegible]	[illegible]	[illegible]
		Aluminum .062"[3]	[illegible]	[illegible]
		Steel .125"	[illegible]	[illegible]
		Steel 16GA [illegible]	[illegible]	[illegible]

[illegible]

TABLE 4: INDEX OF [illegible]

Frame Types	Glass Options (see Table 1)	Configurations Conditions	Acceptable Options (check sheet)
Entrance	1 - 6	[illegible]	[illegible]
Fixed	1 - 6	[illegible]	[illegible]
Inswing Fix	1 - 6	[illegible]	[illegible]
Sliding Fix	1 - 6	[illegible]	[illegible]

TABLE 5:

Index to All Design Pressure and Anchor Quantity Tables

Profile	Glass Options	Glass Weight	Chart Type	Panel Width	Design Pressure		Anchor Quantity	
					Option A	Option B	Option A	Option B
ALL [illegible]	ALL	[illegible]	A - E	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ALL [illegible]	ALL	[illegible]	A - E	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

USER INSTRUCTIONS

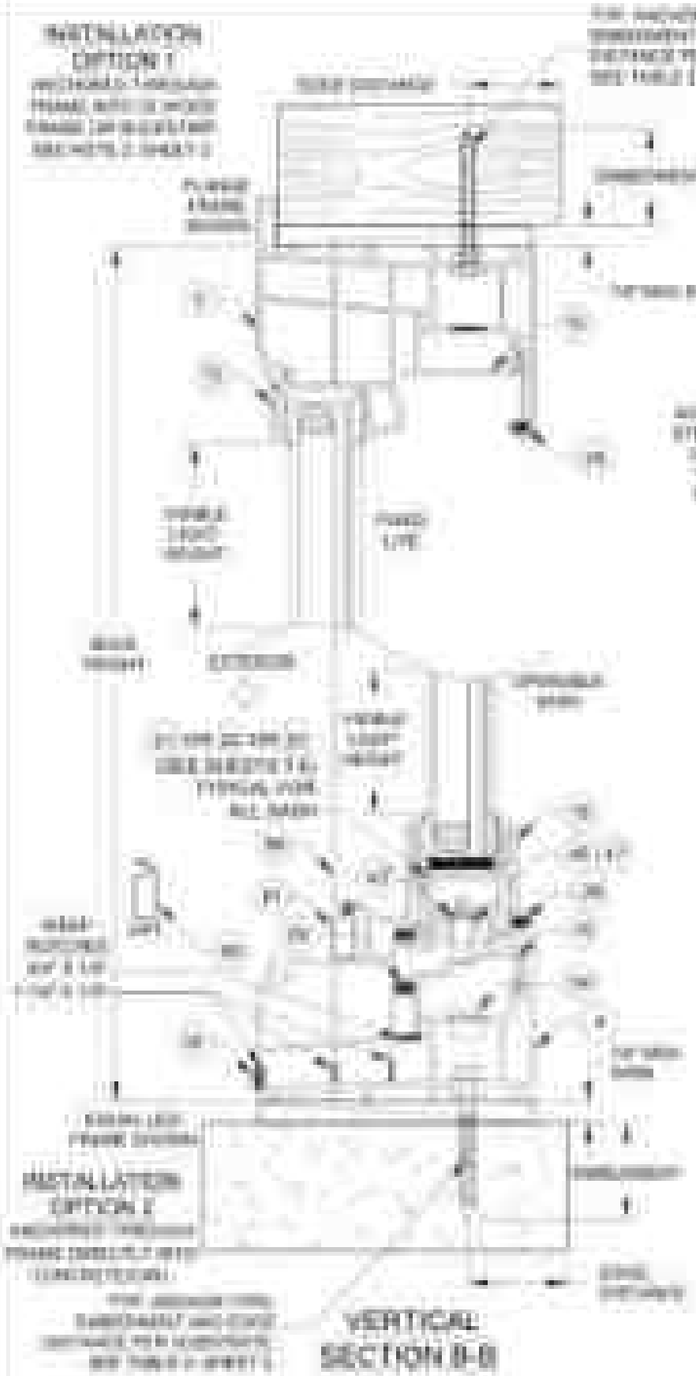
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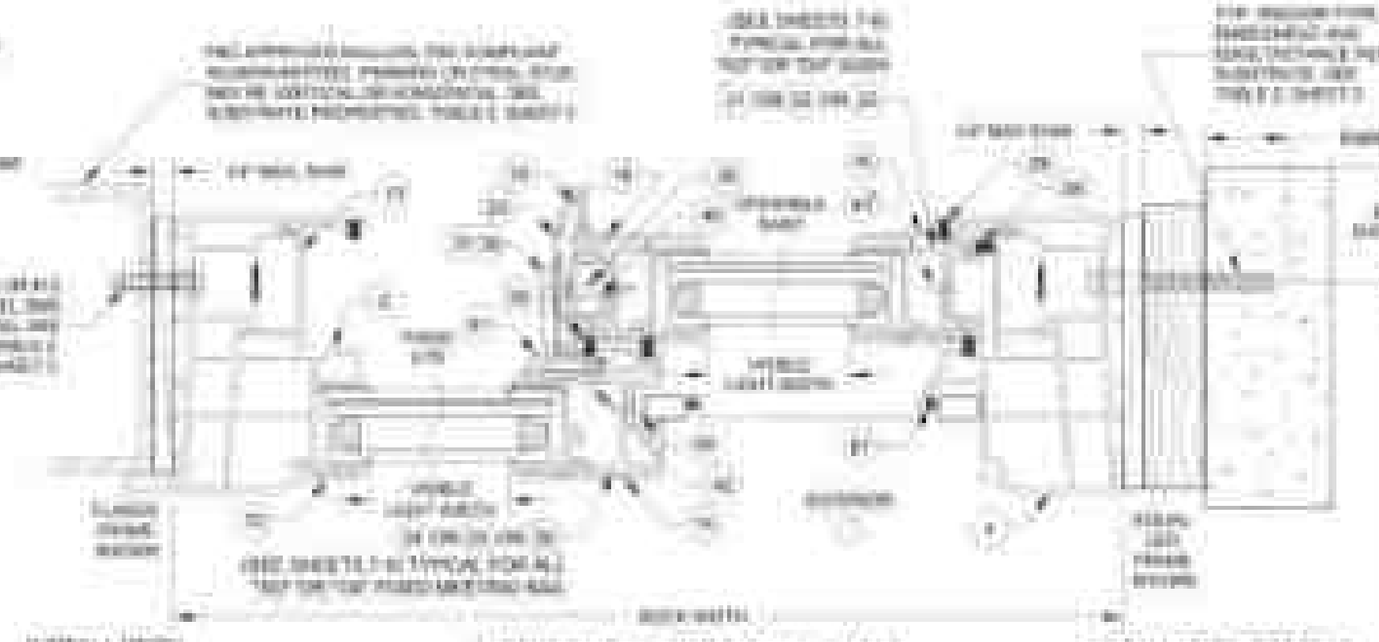
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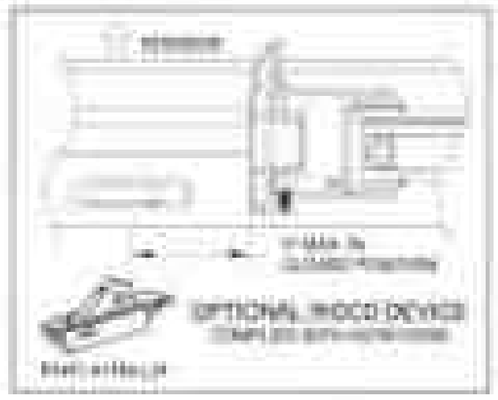
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INSTALLATION DETAILS FOR FLANGE AND EQUAL LEG FRAMES

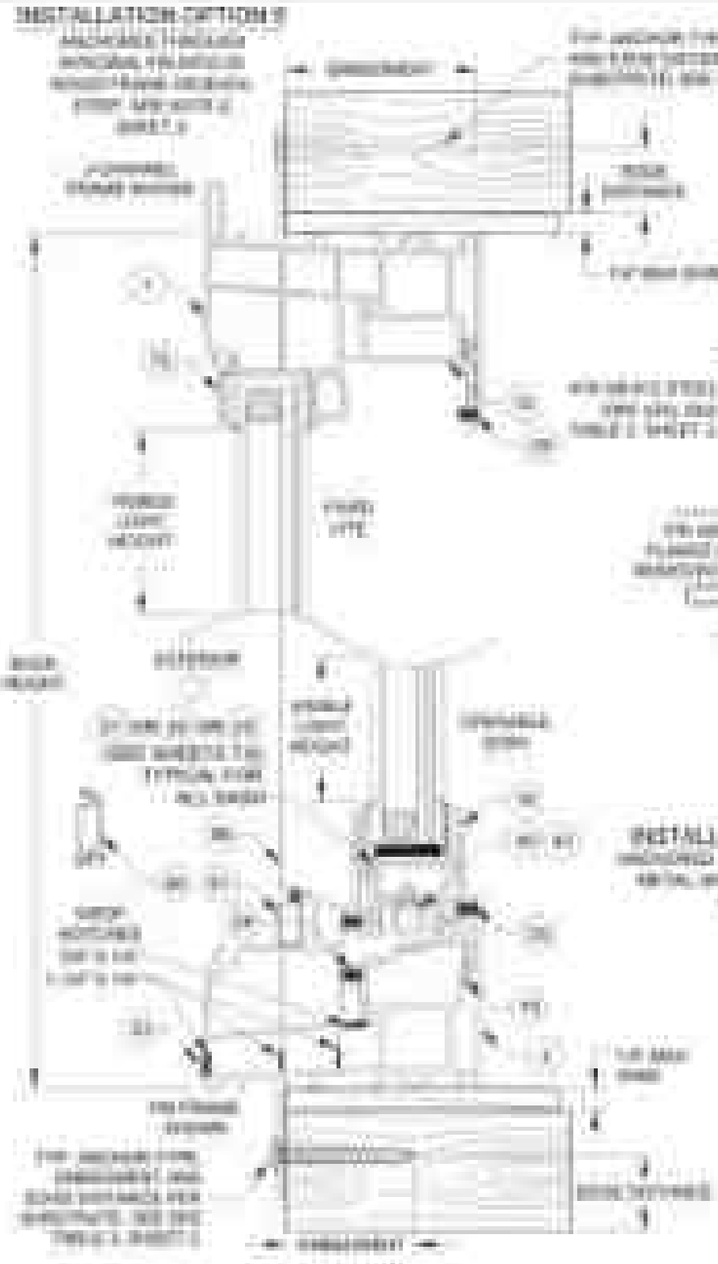




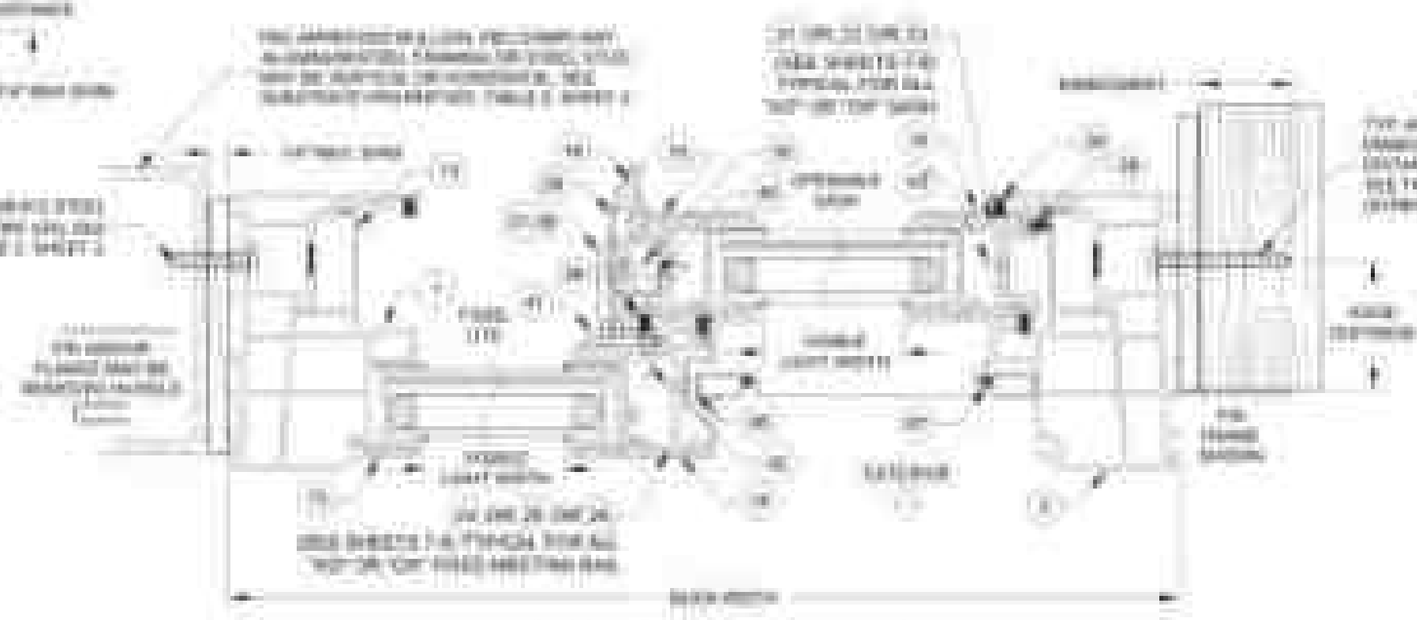




INSTALLATION DETAILS FOR FIN AND J-CHANNEL FRAMES



VERTICAL SECTION D-D



HORIZONTAL SECTION C-C (DX)

INSTALLATION OPTION 7

INSTALLATION OPTION 8

INSTALLATION OPTION 9

INSTALLATION NOTES:

MT	11-07 REVISIONS AS INDICATED 11-14-07 REVISED EACH DRAWING AND 11-07 ADDITION OF INSTALLATION OPTIONS

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PRODUCTS

PGT INDUSTRIES

1070 PGT DRIVE

NORTH VENICE, FL 34275

PH: 941.480.1600

FAX: 941.486.8400

WWW.PGTINDUSTRIES.COM

PGT SPECIAL FIN & J-CHANNEL INSTALLATIONS

DRAWN BY: MT

DATE: 11-14-07

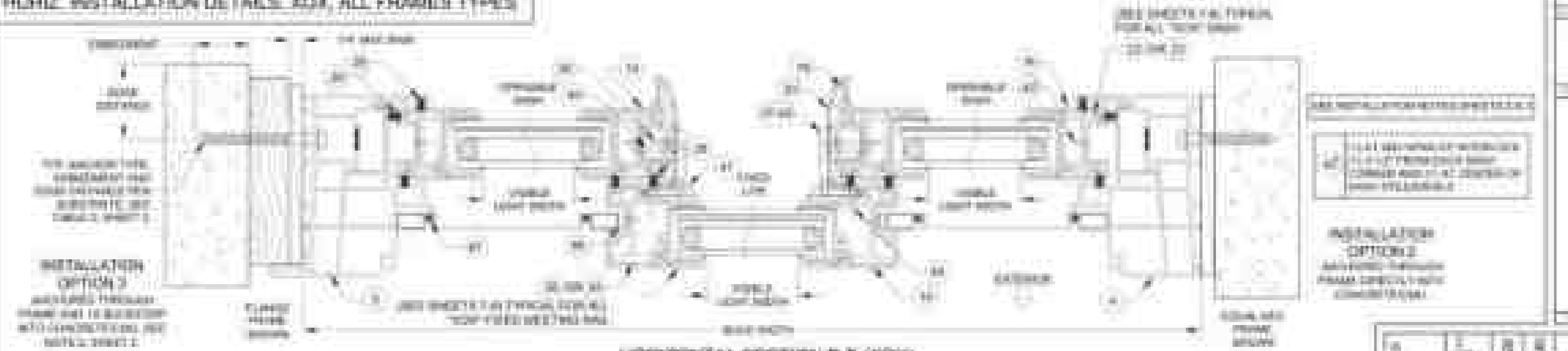
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REVISED:

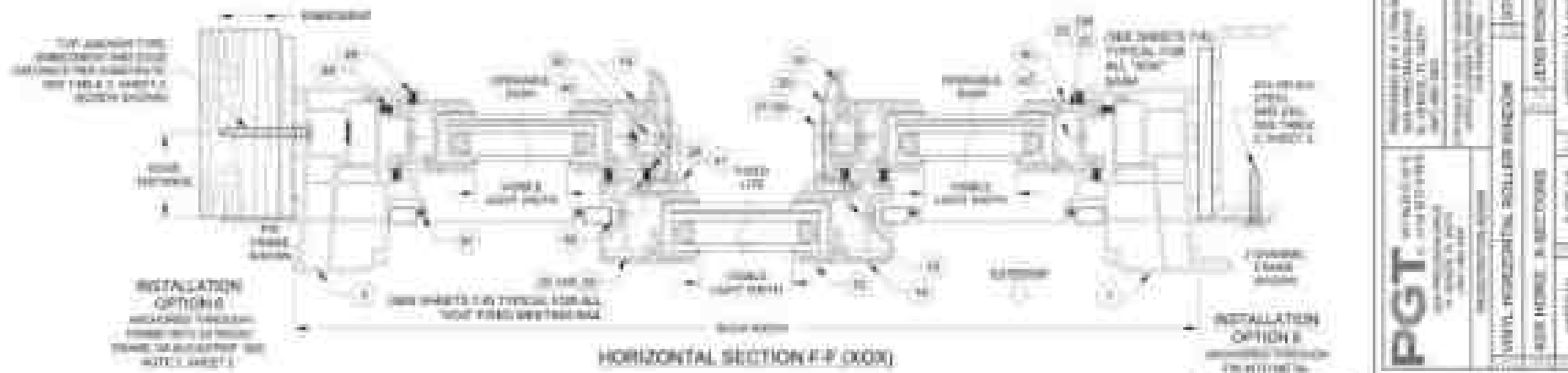
SHEET NO.



HORIZ. INSTALLATION DETAILS: XOX, ALL FRAMES TYPES



HORIZONTAL SECTION E-E (XOX)



HORIZONTAL SECTION F-F (XOX)



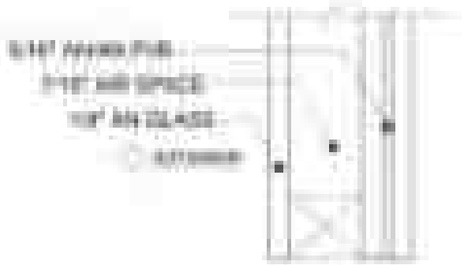
3-ANCHOR CLUSTER DETAIL

3-ANCHOR CLUSTER DETAIL

4-ANCHOR CLUSTER DETAIL

5-ANCHOR CLUSTER DETAIL

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GLASS TYPE 5



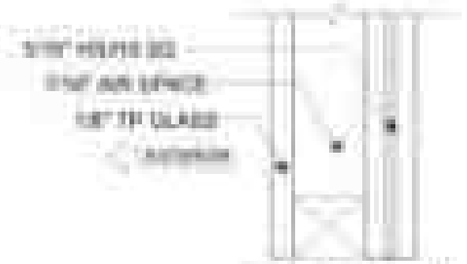
GLASS TYPE 6



GLASS TYPE 7



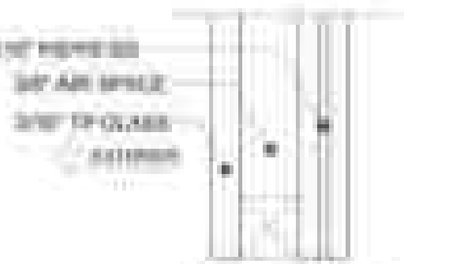
GLASS TYPE 8



GLASS TYPE 10



GLASS TYPE 11



GLASS TYPE 12



TYP. GLAZING DETAIL



GLASS TYPE 14



GLASS TYPE 15



GLASS TYPE 16

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Glass Type	Design Pressure (lbs/ft²) for XO or OX Windows
Glass width (in)	Architectural Heights up to 60'
All Rough Widths up to 60'	+50 / -50

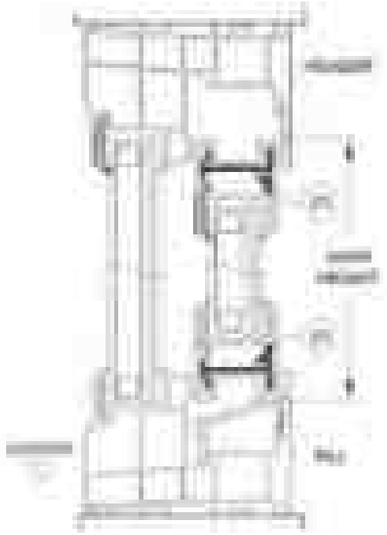
SEE TABLE 1 FOR ANCHORAGE

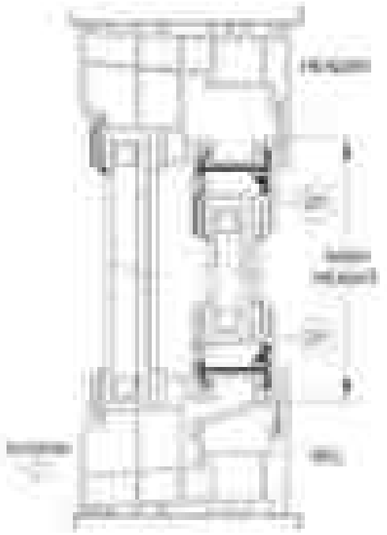
Glass Type	Design Pressure (lbs/ft²) for XO or OX Windows
Glass width (in)	Architectural Heights up to 60'
All Rough Widths up to 60'	+50 / -50

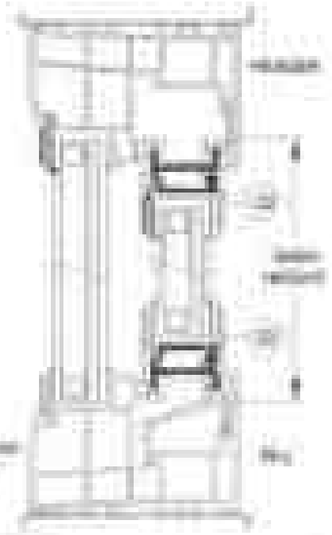
SEE TABLE 1 FOR ANCHORAGE

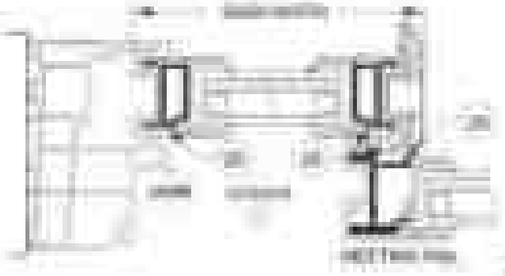
Glass Type	Design Pressure (lbs/ft²) for XO or OX Windows
Glass width (in)	Architectural Heights up to 60'
All Rough Widths up to 60'	+50 / -50

SEE TABLE 1 FOR ANCHORAGE

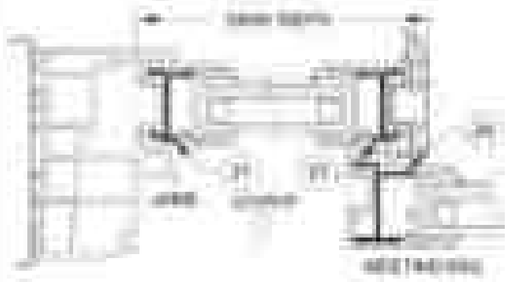




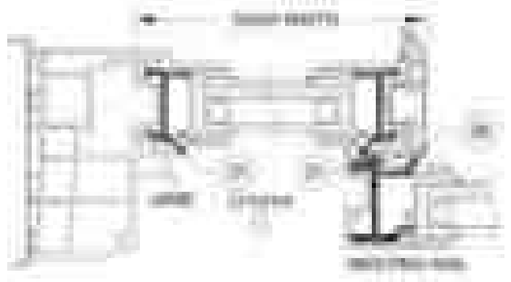




SECTION DETAIL FOR WINDOWS WITH LEVEL R5 REINFORCEMENT



SECTION DETAIL FOR WINDOWS WITH LEVEL R1 REINFORCEMENT



SECTION DETAIL FOR WINDOWS WITH LEVEL R2 REINFORCEMENT

Glass Type X, O	Panel Configuration	Glass Thickness (in) Range (in)	Design Pressure (lbs/ft²) for ESW Windows					
Nominal Lite Width (in)			Rough Opening Height (in)					
			60"		72"		84"	
24" to 35"			+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
36"			+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
37" to 47"			+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
48" to 59"			+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
60" to 71"			+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
72"			+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
73" to 83"			+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
84"			+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
85" to 95"			+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
96"			+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
97" to 107"			+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
108"			+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
109" to 120"			+50.0	-50.0	+50.0	-50.0	+50.0	-50.0

NOTES:

1. USE THESE TABLES FOR ALL DIMENSIONS THAT ARE LISTED THROUGH THE MAXIMUM WIDTH AND HEIGHT.

2. FRAME DIMENSIONS ARE BOTH WIDTH AND HEIGHT. SEE PART 2.2 C. FOR MORE DETAILS.

3. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT LARGER SIZE FOR MAXIMUM DESIGN PRESSURE.

4. THESE TABLES ARE FOR WINDOWS THAT PASS STANDARD WATER PENETRATION TESTING WITHOUT THE USE OF EXTERNAL FLASHING. THESE TABLES ARE NOT FOR WINDOWS THAT REQUIRE EXTERNAL FLASHING TO PASS WATER PENETRATION TESTING.

PGT

PGT TABLES

SECTION DETAILS

DATE

SCALE

DRAWN BY

CHECKED BY

JOB NO.

SHEET NO.

REGISTERED PROFESSIONAL ENGINEER

STATE OF FLORIDA

PE #

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

[illegible]

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

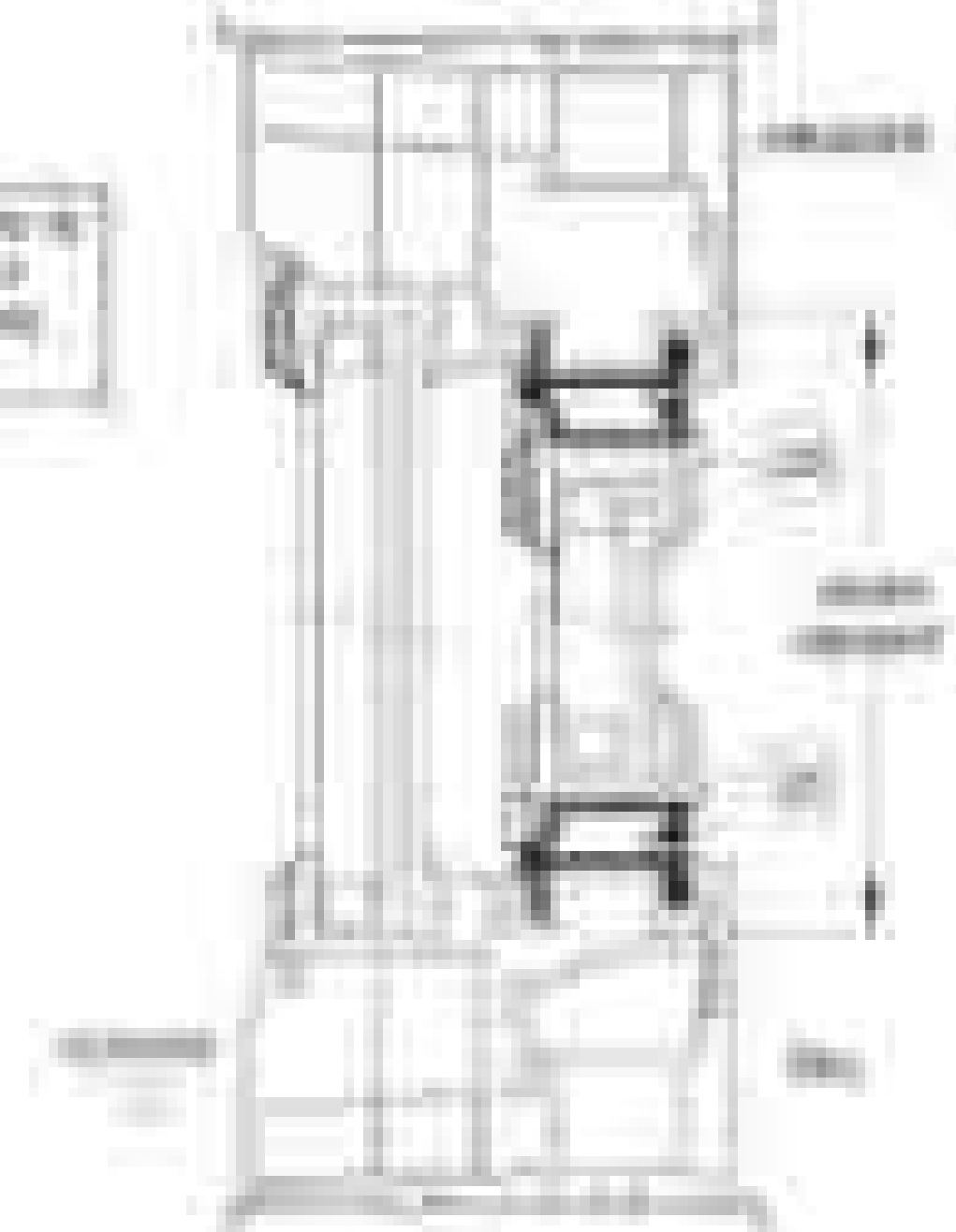
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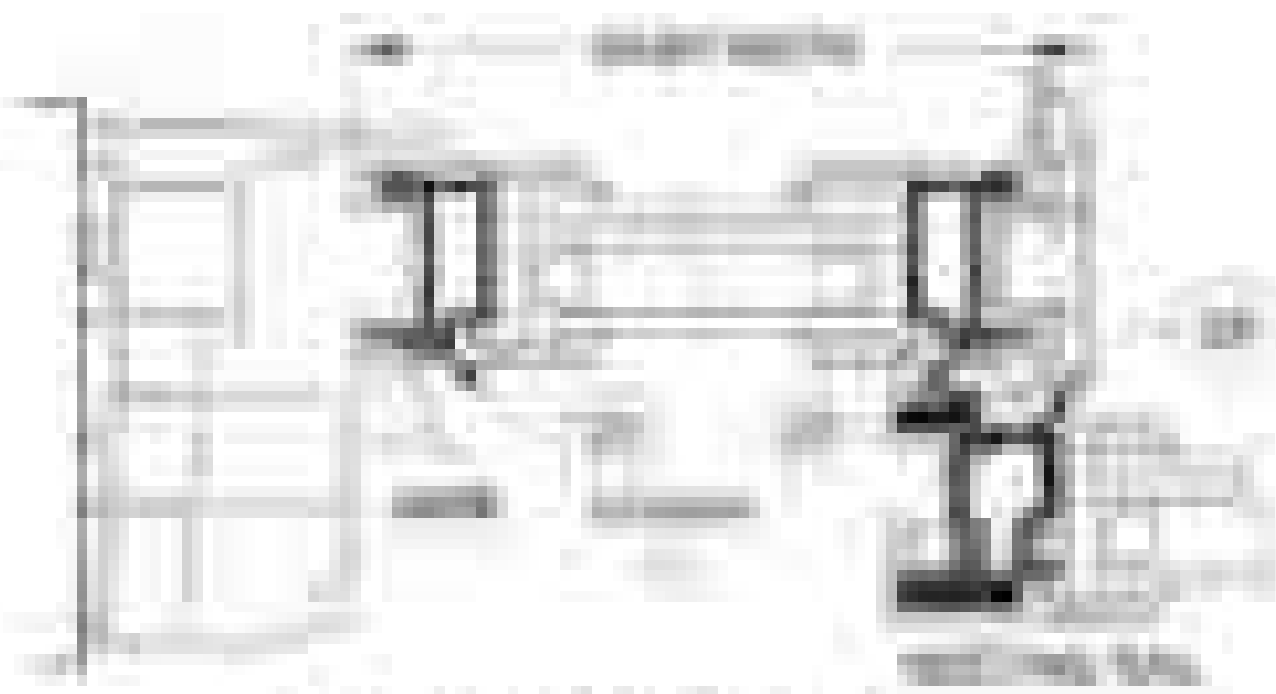
Design Pressure (lbs/ft²) for XO or OX Windows

[illegible]

Design Pressure (lbs/ft²) for XOX Windows

[illegible]





SECTION DETAIL FOR WINDOWS WITH LEVEL [illegible] REINFORCEMENT

NOTES:

[illegible]

Design Pressure (lbs/ft²) for XOX Windows

[illegible]

Design Pressure (lbs/ft²) for XOX Windows

[illegible]

Design Pressure (lbs/ft²) for XOX Windows

[illegible]

PGT



TABLE 1

Glass Types 1 - 8	Stem Width (in)	Anchor Quantities for XO or OX Windows											
		32" Height		36" Height		48" Height		54" Height		32" Height		36" Height		48" Height		54" Height	
Rack Load (lb)		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							
Operable Sash (OXO)	26-1/2"	12.187	HGH-1	2	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	4	HGH-1	4
	28"	13.387	HGH-1	2	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	4	HGH-1	4
	30"	14.587	HGH-1	2	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	4	HGH-1	4
	42"	20.587	HGH-1	2	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	4	HGH-1	4
	48"	23.587	HGH-1	2	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	4	HGH-1	4
	60"	29.587	2HGH-1	2	2HGH-1	3	2HGH-1	3	2HGH-1	3	2HGH-1	3	2HGH-1	3	2HGH-1	4	2HGH-1	4
	72"	35.587	2HGH-1	2	2HGH-1	3	2HGH-1	3	2HGH-1	3	2HGH-1	3	2HGH-1	3	2HGH-1	4	2HGH-1	4
		Anchor Group B								Anchor Group D							
Operable Sash (OXXO)	26-1/2"	12.187	HGH-1	2	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	4	HGH-1	4
	28"	13.387	HGH-1	2	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	4	HGH-1	4
	30"	14.587	HGH-1	2	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	4	HGH-1	4
	42"	20.587	HGH-1	2	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	4	HGH-1	4
	48"	23.587	HGH-1	2	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	4	HGH-1	4
	60"	29.587	2HGH-1	2	2HGH-1	3	2HGH-1	3	2HGH-1	3	2HGH-1	3	2HGH-1	3	2HGH-1	4	2HGH-1	4
	72"	35.587	2HGH-1	2	2HGH-1	3	2HGH-1	3	2HGH-1	3	2HGH-1	3	2HGH-1	3	2HGH-1	4	2HGH-1	4

TABLE 2

Glass Types 1 - 8	Stem Width (in)	Anchor Quantities for XO or OX Windows											
		32" Height		36" Height		48" Height		54" Height		32" Height		36" Height		48" Height		54" Height	
Rack Load (lb)		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							
Operable Sash (OXO)	26-1/2"	12.187	Not Allowed							HGH-1	2	HGH-1	3	HGH-1	3	HGH-1	3
	28"	13.387								HGH-1	2	HGH-1	3	HGH-1	3	HGH-1	3
	30"	14.587								HGH-1	2	HGH-1	3	HGH-1	3	HGH-1	3
	42"	20.587								HGH-1	2	HGH-1	3	HGH-1	3	HGH-1	3
	48"	23.587								HGH-1	2	HGH-1	3	HGH-1	3	HGH-1	3
	60"	29.587								2HGH-1	2	2HGH-1	3	2HGH-1	3	2HGH-1	3
	72"	35.587								2HGH-1	2	2HGH-1	3	2HGH-1	3	2HGH-1	3
		Anchor Group B								Anchor Group D							
Operable Sash (OXXO)	26-1/2"	12.187	HGH-1	2	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3
	28"	13.387	HGH-1	2	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3
	30"	14.587	HGH-1	2	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3
	42"	20.587	HGH-1	2	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3
	48"	23.587	HGH-1	2	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3	HGH-1	3
	60"	29.587	2HGH-1	2	2HGH-1	3	2HGH-1	3	2HGH-1	3	2HGH-1	3	2HGH-1	3	2HGH-1	3	2HGH-1	3
	72"	35.587	2HGH-1	2	2HGH-1	3	2HGH-1	3	2HGH-1	3	2HGH-1	3	2HGH-1	3	2HGH-1	3	2HGH-1	3

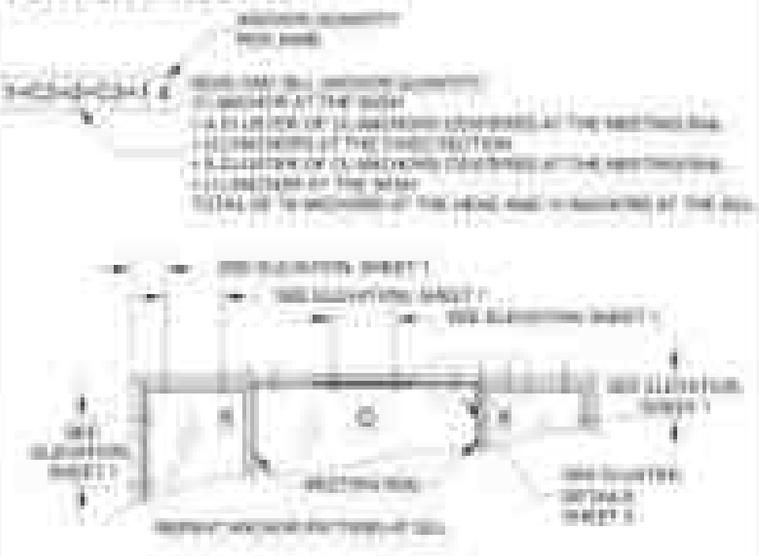
Max Anchor O.C. Spacing for "Integral Fin" Installation	Anchor Group A	Anchor Group B
	2.0"	4"

GUIDE TO USING ANCHOR QUANTITY TABLES

FOR OX WINDOWS (XO SIMILAR)



FOR XOX WINDOWS



Max Anchor O.C. Spacing for "Integral Fin" Installation	Anchor Group A	Anchor Group B
	2.0"	4"

NOTES:
1. FRAME DIMENSIONS ARE BACK-TO-BACK SIZE BOTH HORIZONTAL AND VERTICAL UNLESS NOTED OTHERWISE.
2. FOR SIZES NOT SHOWN REFER UP TO THE NEXT HIGHER SIZE BOTH IN HEIGHT DIMENSION AND/OR RACK LOAD.
3. ANCHOR QUANTITY SHOWN IS FOR ONE JAMB ONLY. DOUBLE ANCHOR QUANTITY FOR BOTH JAMBS. ALL ANCHOR QUANTITIES SHOWN ARE MINIMUM AND MUST COMPLY WITH THESE NOTES AND ALL OTHER REQUIREMENTS OF THIS SUBMITTAL.

PGT

ARCHITECTURAL SERIES IMPACT WINDOWS

ANCHOR QUANTITY TABLES

DRAWN BY: [illegible]
CHECKED BY: [illegible]
DATE: [illegible]
SCALE: [illegible]

TABLE 1A

Glass Types 1 - 5 / Panel Load (lb/ft²)	Sash Height (in)	Anchor Quantities for XO or OX Windows															
		42" Height		48" Height		54" Height		60" Height		66" Height		72" Height		78" Height		84" 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					
Glass Types 1 - 5	25 PSF	15 1/8"	1 HDH	4	1 HDH	5	1 HDH	6	1 HDH	7	1 HDH	8	1 HDH	9	1 HDH	10	1 HDH	11
	30 PSF	13 3/8"	1 HDH	4	1 HDH	5	1 HDH	6	1 HDH	7	1 HDH	8	1 HDH	9	1 HDH	10	1 HDH	11
	35 PSF	11 7/8"	1 HDH	4	1 HDH	5	1 HDH	6	1 HDH	7	1 HDH	8	1 HDH	9	1 HDH	10	1 HDH	11
	40 PSF	10 3/8"	1 HDH	4	1 HDH	5	1 HDH	6	1 HDH	7	1 HDH	8	1 HDH	9	1 HDH	10	1 HDH	11
	45 PSF	9 1/8"	1 HDH	4	1 HDH	5	1 HDH	6	1 HDH	7	1 HDH	8	1 HDH	9	1 HDH	10	1 HDH	11
	50 PSF	7 7/8"	2 HDH	4	2 HDH	5	2 HDH	6	2 HDH	7	2 HDH	8	2 HDH	9	2 HDH	10	2 HDH	11
	55 PSF	6 3/4"	2 HDH	4	2 HDH	5	2 HDH	6	2 HDH	7	2 HDH	8	2 HDH	9	2 HDH	10	2 HDH	11
	60 PSF	5 7/8"	2 HDH	4	2 HDH	5	2 HDH	6	2 HDH	7	2 HDH	8	2 HDH	9	2 HDH	10	2 HDH	11
		Anchor Group B										Anchor Group D					
Glass Types 1 - 5	25 PSF	12 1/4"	1 HDH	4	1 HDH	5	1 HDH	6	1 HDH	7	1 HDH	8	1 HDH	9	1 HDH	10	1 HDH	11
	30 PSF	10 7/8"	1 HDH	4	1 HDH	5	1 HDH	6	1 HDH	7	1 HDH	8	1 HDH	9	1 HDH	10	1 HDH	11
	35 PSF	9 7/8"	1 HDH	4	1 HDH	5	1 HDH	6	1 HDH	7	1 HDH	8	1 HDH	9	1 HDH	10	1 HDH	11
	40 PSF	8 3/8"	1 HDH	4	1 HDH	5	1 HDH	6	1 HDH	7	1 HDH	8	1 HDH	9	1 HDH	10	1 HDH	11
	45 PSF	7 1/8"	1 HDH	4	1 HDH	5	1 HDH	6	1 HDH	7	1 HDH	8	1 HDH	9	1 HDH	10	1 HDH	11
	50 PSF	6 1/8"	2 HDH	4	2 HDH	5	2 HDH	6	2 HDH	7	2 HDH	8	2 HDH	9	2 HDH	10	2 HDH	11
	55 PSF	5 1/4"	2 HDH	4	2 HDH	5	2 HDH	6	2 HDH	7	2 HDH	8	2 HDH	9	2 HDH	10	2 HDH	11
	60 PSF	4 3/8"	2 HDH	4	2 HDH	5	2 HDH	6	2 HDH	7	2 HDH	8	2 HDH	9	2 HDH	10	2 HDH	11

Max. Anchor O.C. Spacing for "Integral Fin" Installations	
4"	

TABLE 1B

Glass Types 1 - 5 / Panel Load (lb/ft²)	Sash Height (in)	Anchor Quantities for XO or OX Windows															
		30" Height		36" Height		42" Height		48" Height		54" Height		60" Height		66" Height		72" 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					
Glass Types 1 - 5	25 PSF	15 1/8"	1 HDH	4	1 HDH	5	1 HDH	6	1 HDH	7	1 HDH	8	1 HDH	9	1 HDH	10	1 HDH	11
	30 PSF	13 3/8"	1 HDH	4	1 HDH	5	1 HDH	6	1 HDH	7	1 HDH	8	1 HDH	9	1 HDH	10	1 HDH	11
	35 PSF	11 7/8"	1 HDH	4	1 HDH	5	1 HDH	6	1 HDH	7	1 HDH	8	1 HDH	9	1 HDH	10	1 HDH	11
	40 PSF	10 3/8"	1 HDH	4	1 HDH	5	1 HDH	6	1 HDH	7	1 HDH	8	1 HDH	9	1 HDH	10	1 HDH	11
	45 PSF	9 1/8"	1 HDH	4	1 HDH	5	1 HDH	6	1 HDH	7	1 HDH	8	1 HDH	9	1 HDH	10	1 HDH	11
	50 PSF	7 7/8"	2 HDH	4	2 HDH	5	2 HDH	6	2 HDH	7	2 HDH	8	2 HDH	9	2 HDH	10	2 HDH	11
	55 PSF	6 3/4"	2 HDH	4	2 HDH	5	2 HDH	6	2 HDH	7	2 HDH	8	2 HDH	9	2 HDH	10	2 HDH	11
	60 PSF	5 7/8"	2 HDH	4	2 HDH	5	2 HDH	6	2 HDH	7	2 HDH	8	2 HDH	9	2 HDH	10	2 HDH	11
		Anchor Group B										Anchor Group D					
Glass Types 1 - 5	25 PSF	12 1/4"	1 HDH	4	1 HDH	5	1 HDH	6	1 HDH	7	1 HDH	8	1 HDH	9	1 HDH	10	1 HDH	11
	30 PSF	10 7/8"	1 HDH	4	1 HDH	5	1 HDH	6	1 HDH	7	1 HDH	8	1 HDH	9	1 HDH	10	1 HDH	11
	35 PSF	9 7/8"	1 HDH	4	1 HDH	5	1 HDH	6	1 HDH	7	1 HDH	8	1 HDH	9	1 HDH	10	1 HDH	11
	40 PSF	8 3/8"	1 HDH	4	1 HDH	5	1 HDH	6	1 HDH	7	1 HDH	8	1 HDH	9	1 HDH	10	1 HDH	11
	45 PSF	7 1/8"	1 HDH	4	1 HDH	5	1 HDH	6	1 HDH	7	1 HDH	8	1 HDH	9	1 HDH	10	1 HDH	11
	50 PSF	6 1/8"	2 HDH	4	2 HDH	5	2 HDH	6	2 HDH	7	2 HDH	8	2 HDH	9	2 HDH	10	2 HDH	11
	55 PSF	5 1/4"	2 HDH	4	2 HDH	5	2 HDH	6	2 HDH	7	2 HDH	8	2 HDH	9	2 HDH	10	2 HDH	11
	60 PSF	4 3/8"	2 HDH	4	2 HDH	5	2 HDH	6	2 HDH	7	2 HDH	8	2 HDH	9	2 HDH	10	2 HDH	11

Max. Anchor O.C. Spacing for "Integral Fin" Installations	
4"	

PGT

Anchor Quantities for XO or OX Windows

Glass Types (U, F & T/T)	Rough Opening (RO)	20" Height	30" Height	40" Height	50" Height	60" Height	70" Height
		Head & Sill	Head & Sill	Head & Sill	Head & Sill	Head & Sill	Head & Sill
		Anchor Group A					
Glass Thickness Up to 1"	20 1/2"	12.1/2"	Not Allowed				
	30"	12.3/4"					
	36"	13.3/4"					
	42"	20.3/4"					
	48"	23.3/4"					
	54"	26.3/4"					
	72"	36.3/4"					
		Anchor Group B					
Glass Thickness Over 1"	20 1/2"	12.1/2"	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1
	30"	13.3/4"	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1
	36"	17.3/4"	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1
	42"	20.3/4"	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1
	48"	23.3/4"	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1
	54"	26.3/4"	2-H2H-2	2-H2H-2	2-H2H-2	2-H2H-2	2-H2H-2
	72"	36.3/4"	2-H2H-2	2-H2H-2	2-H2H-2	2-H2H-2	2-H2H-2

Glass Types (U, F & T/T)	Rough Opening (RO)	20" Height	30" Height	40" Height	50" Height	60" Height	70" Height
		Head & Sill	Head & Sill	Head & Sill	Head & Sill	Head & Sill	Head & Sill
		Anchor Group C					
Glass Thickness Up to 1"	20 1/2"	12.1/2"	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1
	30"	13.3/4"	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1
	36"	17.3/4"	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1
	42"	20.3/4"	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1
	48"	23.3/4"	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1
	54"	26.3/4"	2-H2H-2	2-H2H-2	2-H2H-2	2-H2H-2	2-H2H-2
	72"	36.3/4"	2-H2H-2	2-H2H-2	2-H2H-2	2-H2H-2	2-H2H-2
		Anchor Group D					
Glass Thickness Over 1"	20 1/2"	12.1/2"	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1
	30"	13.3/4"	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1
	36"	17.3/4"	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1
	42"	20.3/4"	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1
	48"	23.3/4"	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1	1-H2H-1
	54"	26.3/4"	2-H2H-2	2-H2H-2	2-H2H-2	2-H2H-2	2-H2H-2
	72"	36.3/4"	2-H2H-2	2-H2H-2	2-H2H-2	2-H2H-2	2-H2H-2

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

NOTES:

1) Anchor quantities are for 8 inch nailing fin and block height (see sketch) only. Refer to the PGT Installation Instructions for installation.

2) For other fin and block heights, refer to the Fin Anchor Quantities Table.

3) For wind loads not covered in the tables, refer to the Fin Anchor Quantities Table.

4) Minimum anchor quantity is two anchors ALL MULLIONS MUST BE SUPPORTED WITH THE MINIMUM QUANTITY OF ANCHORS.

PGT

FLORIDA PRODUCT APPROVAL

SERIES 2500 SINGLE HUNG WINDOW

DRAWING NO. 2500-SH-FIN

SHEET NO. 1 OF 1

REVISIONS

DATE

APPROVED

STATE OF FLORIDA

Table 2.5

Anchor Quantities for XXX Windows

Glass Types T - T	Sash Configurations	Sash Width, Height (in.)	20" Height		30" Height		40" Height		50" Height		60" Height	
Head & Sill	Jamb		Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
Anchor Group A												
30-1/8"												
36"												
40-1/8"												
42-1/8"												
48-1/8"												
50"												
54"												
60"												
Anchor Group B												
30-1/8"												
36"												
40-1/8"												
42-1/8"												
48-1/8"												
50"												
54"												
60"												

Glass Types T - T	Sash Configurations	Sash Width, Height (in.)	20" Height		30" Height		40" Height		50" Height		60" Height	
Head & Sill	Jamb		Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
Anchor Group C												
30-1/8"												
36"												
40-1/8"												
42-1/8"												
48-1/8"												
50"												
54"												
60"												
Anchor Group D												
30-1/8"												
36"												
40-1/8"												
42-1/8"												
48-1/8"												
50"												
54"												
60"												

PGT



Anchor Quantities for XXXX Windows

Interior System (I.S.)	Panel Configuration	Panel Width / Height (in.)	25" Height	37" Height	49" Height	61" Height	73" Height	85" Height
			Anchor Group A					
Panel Leaf Qty.			Head & Sill	Head & Sill	Head & Sill	Head & Sill	Head & Sill	Head & Sill
Window Size Limits								
24"								
30"								
36"								
42"								
48"								
54"								
60"								
66"								
72"								
78"								
84"								
90"								
96"								
102"								
108"								
114"								
120"								
			Anchor Group B					
24"								
30"								
36"								
42"								
48"								
54"								
60"								
66"								
72"								
78"								
84"								
90"								
96"								
102"								
108"								
114"								
120"								

Max. Anchor O.C. Spacing for "Integral-Fin" Installation	Anchor Group A	Anchor Group B
	4"	4"

PGT Industries

ANCHOR QUANTITIES FOR XXXX WINDOWS

DRAWING NO. A-XXXX

SHEET NO. 1 OF 1

REVISIONS

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TABLE 1.01

Frame Types T & D	Span Configuration	Glass Weight (Nominal Psf)	Anchor Quantities for XXX Windows											
			24" Height		36" Height		48" Height		60" Height		72" Height		84" Height	
Panel Loads (Psf)			Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
Design Pressure (Psf)			Anchor Group A								Anchor Group C			
20 / -20			Not Allowed											
30 / -30														
40 / -40														
50 / -50														
60 / -60														
70 / -70														
80 / -80														
90 / -90														
100 / -100														
20 / -20			Anchor Group B								Anchor Group D			
30 / -30														
40 / -40														
50 / -50														
60 / -60														
70 / -70														
80 / -80														
90 / -90														
100 / -100														

Max. Anchor O.C. Spacing for "Integral Fin" Installation	Anchor Group A	Anchor Group B	Anchor Group C	Anchor Group D
	6"			

- Anchor Quantity Notes: [illegible]

1. THESE DRAWINGS ARE SOLELY WITH WHICH THEY ARE PARTS OF. NOR DOES IT DO AWAY WITH THE NECESSITY OF SPECIFYING EACH SUCH PROJECT TO THE BEST AVAILABLE KNOWLEDGE OF HEAVY CONDITIONS SHOWN ON THESE SHEETS FOR A GOOD TO KNOW THESE TABLES.
2. [illegible] THAT THESE STANDARD SHOP DRAWINGS FALL WITHIN THE RANGE SPECIFIED IN THE REVIEWER COLUMN. TO DETERMINE WHETHER THEY DO, CONSULT YOUR LOCAL PGT SALES REPRESENTATIVE.
3. [illegible] ALL MECHANICAL WORK SHALL COMPLY WITH THE MFG. O.C. SPACING SHOWN ON THESE ELEVATIONS.

PGT Industries
1070 Technology Drive
North Venice, FL 34275
941-480-1600

PGT WinGuard Vinyl Window Systems

Anchor Quantities for XXX Windows

Drawn By: [illegible]
Date: [illegible]
Scale: [illegible]
Job #: [illegible]
Sheet #: [illegible]

Florida Product Approval
FL [illegible]

Revisions
[illegible]

Seal
[illegible]

Anchor Quantities for ECO Windows

Not Allowed

PGT

NOTES:

1) PLEASE TYPICAL DETAILS THAT MAY NOT BE USED WITH (CHANGE) THE WINDOWS ON THIS TABLE.

2) ALL SHALL BE A GOOD TO CHANGE THESE TABLES.

3) THE USE OF THESE TABLES IS ONLY FOR THE WINDOWS SHOWN ON THIS TABLE. ALL WINDOWS THAT ARE NOT SHOWN ON THIS TABLE SHALL BE ANCHORED AS PER THE ANCHOR DETAILS AND ANCHOR SPACING SHOWN ON THE ELEVATIONS.

4) ALL WINDOWS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

5) ALL WINDOWS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

6) ALL WINDOWS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

7) ALL WINDOWS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

8) ALL WINDOWS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

9) ALL WINDOWS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

10) ALL WINDOWS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

Anchor Quantities for ESR Windows

Design Pressure (+ / -)	Size Configuration	Total Anchor Weight (lbs)	24" Height Panel A	36" Height Panel A	48" Height Panel A	60" Height Panel A	72" Height Panel A	84" Height Panel A	24" Height Panel B	36" Height Panel B	48" Height Panel B	60" Height Panel B	72" Height Panel B	84" Height Panel B
Anchor Group A														
+50.0/-50														
+45														
+40.0/-40														
+35.0/-35														
+30.0/-30														
+25.0/-25														
+20.0/-20														
+15.0/-15														
+10.0/-10														
Anchor Group B														
+50.0/-50														
+45														
+40.0/-40														
+35.0/-35														
+30.0/-30														
+25.0/-25														
+20.0/-20														
+15.0/-15														
+10.0/-10														

Not Allowed

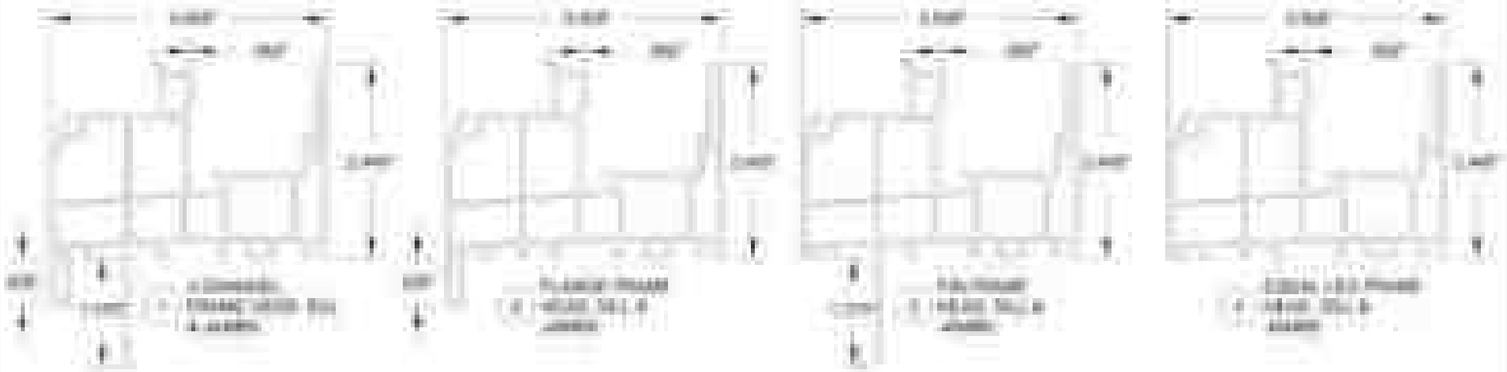
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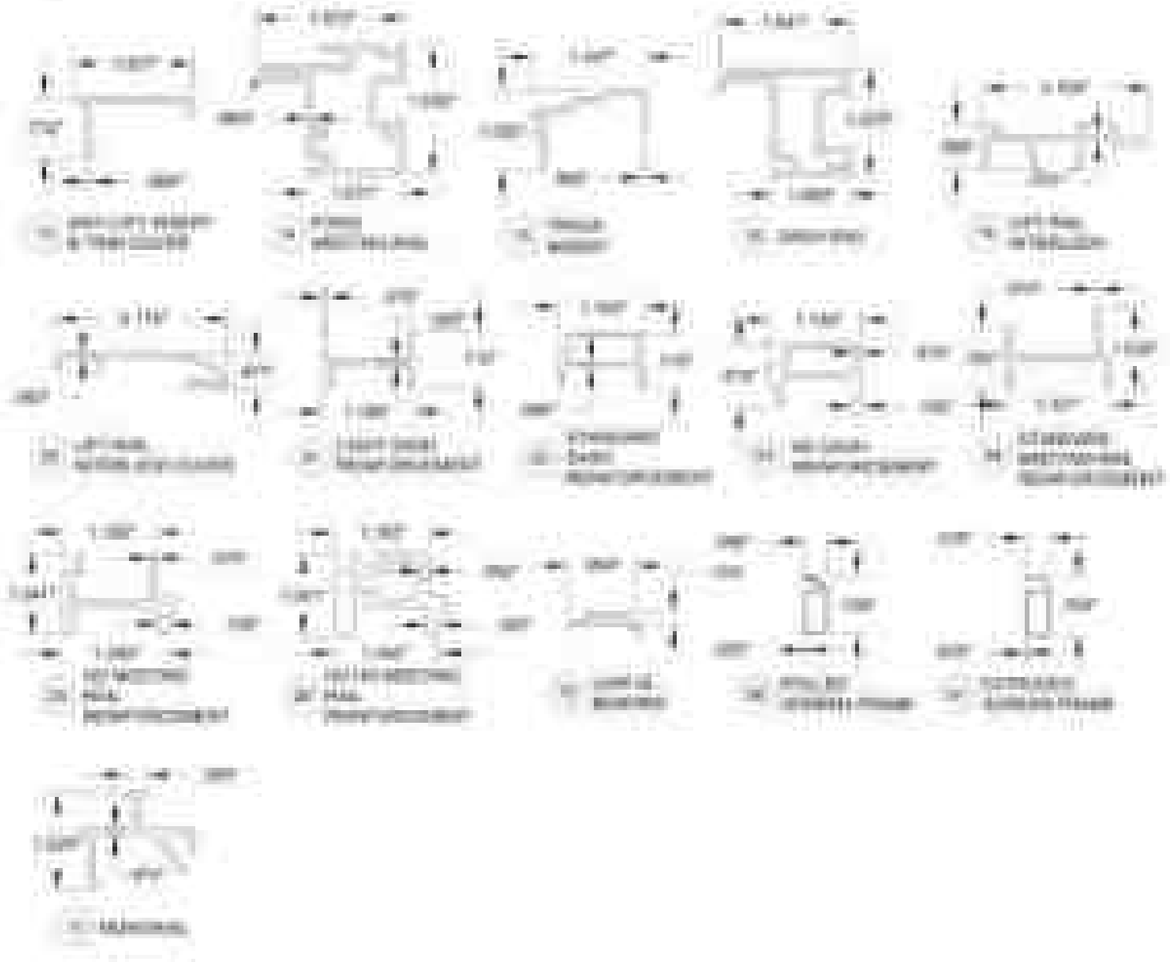
PGT

[illegible]

Bill of Material

#	Part #	Description	Material
1	[illegible]	Frame Head, Sill and Jambs - J Channel	[illegible]
2	[illegible]	Frame Head, Sill and Jambs - Hinge	[illegible]
3	[illegible]	Frame Head, Sill and Jambs - Nail	[illegible]
4	[illegible]	Frame Head, Sill and Jambs - Equal Leg	[illegible]
11	[illegible]	Astragal Insert - Flat Glass	[illegible]
14	[illegible]	Finish Weatherstrip Rail	[illegible]
15	[illegible]	Track Insert	[illegible]
16	[illegible]	Track Rail Glides, Top & Bottom	[illegible]
17	[illegible]	Bracket	[illegible]
18	[illegible]	Sill Nail Insert	[illegible]
20	[illegible]	Sill Nail Insert Cover	[illegible]
21	[illegible]	Right Hand Reinforcement	[illegible]
22	[illegible]	Interlock Nail Reinforcement	[illegible]
23	[illegible]	Sill Track Reinforcement	[illegible]
24	[illegible]	Operator Meeting Rail Reinforcement	[illegible]
25	[illegible]	Sill Opening Rail Reinforcement	[illegible]
26	[illegible]	Hi Tech Heavy Rated Meeting Rail Reinforcement	[illegible]
27	[illegible]	#10 x 1-1/2" Pan, #4 SDS Structural Screws	[illegible]
28	[illegible]	Weatherstrip - 180° x .220" Fin Fin	
29	[illegible]	Weatherstrip - 180° x .220" Fin Fin	
30		#8 x 3" Pan, Phil SDS Structural Mounting Screws	[illegible]
31	[illegible]	#8 x 1-1/2" Pan, Phil SMS Fixed Meeting Rail Screws	[illegible]
32	[illegible]	Meeting Rail Screw Support Plate	[illegible]
33	[illegible]	Screw Hole Cover	[illegible]
34	[illegible]	Installation Screw Hole Plug	[illegible]
35	[illegible]	Astragal Lock	[illegible]
36	[illegible]	Keeper Lock	[illegible]
37	[illegible]	Lock and Keeper Lock Fastener	[illegible]
42	[illegible]	#8 x 3/4" Pan, Phil SDS Keeper Screws	[illegible]
43	[illegible]	#8 x 1-1/2" Flat Phil (Reinforcement Screws)	[illegible]
44		Operator Top Corner Key	[illegible]
45		Operator Bottom Corner Key	[illegible]
46		Lockstile Top Corner Key	[illegible]
47		Lockstile Bottom Corner Key	[illegible]
48	[illegible]	Cylinder	[illegible]
51	[illegible]	Cam - 1/2" Bored	[illegible]
54		Weatherstrip, 90° (.110 or Less Fin to Glass Gap)	[illegible]
55	[illegible]	Sliding Block (1/4" x 3/4" x 1.45") - #8 - 32 Nuts	[illegible]
60	[illegible]	Roll Formed Screen	[illegible]
61	[illegible]	Extruded Screen Frame	[illegible]
62		Extruded Screen Corner Key	[illegible]
63	[illegible]	Screen Corner Key with Pull Ring	[illegible]
64	[illegible]	Screen Corner Key No Pull Ring	[illegible]
65	[illegible]	Screen Spring	[illegible]
66	[illegible]	Screen Hook	[illegible]
67	[illegible]	1" x 90° Screen Roller Bracket Screw	[illegible]







SASH ASSEMBLY DETAILS

SCREEN ASSEMBLY DETAILS

FRAME ASSEMBLY DETAILS

EGRESS LOCK DETAILS

#	Part #	Description	Material

PGT