Engineering Evaluation Report #7710-08172026

Prepared by:
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3400 Precision Dr.
N. Venice, FL 34275
(941) 480-1600
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Manufacturer:
PGT Industries, LLC
3400 Precision Drive
N. Venice, FL 34275

Product Description:
HR7710A Impact-resistant Aluminum 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 HR7710-LM-HVHZ, signed and sealed by A. Lynn Miller, P.E.

2. Test Reports:
FTL 18-7891 & 18-7891.01, signed and sealed by Idalmis Ortega, P.E.
Fenestration Testing Laboratories, Nokomis, FL 34275
TAS 201-94 Large Missile Impact Test
TAS 202-94 Uniform Static Air Pressure Test
TAS 203-94 Cyclic Pressure Loading Test

3. Anchor calculations, signed and sealed by A. Lynn Miller, P.E., dated 4/18/19, 9/1/20 & 3/24/26

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 panel material to be extruded Aluminum.
• Units must be installed in accordance with approval document.



SERIES HR7710

IMPACT RESISTANT HORIZONTAL ROLLER WINDOW

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

2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND BORNE DEBRIS REGIONS FOR IMPACT RESISTANT GLASS INSTALLATIONS ABOVE 30' IN THE WIND ZONE TYPE OUTDOORS LITE (OAP) MUST TERMINATE.

3) ALL WOOD BUCKS LESS THAN 1 1/2" THICK ARE TO BE CONSIDERED TO BE INSTALLATIONS. ON WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED HERE ARE 1 1/2" THICK OR GREATER. PLANO EXTRUDED SHAPES USED SHALL BE DESIGNED AND SECURED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER (EOR) OR ARCHITECT OF RECORD (AOR).

4) ANCHOR EMBEDMENT TO MASONRY MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE EMBEDMENT. OVERALL SEALANT/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

5) MAX 1/4" SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS FOR INTEGRAL ATTACHED INSTALL SHIMS AT MAX. 16" O.C.

6) DESIGN PRESSURES:
A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL CYCLE TEST PRESSURE. FRAME ANALYSIS PER GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS RATED ON WATER TEST PRESSURE. STRUCTURAL CYCLE TEST PRESSURE. FRAME ANALYSIS PER GLASS PER ASTM E1300.
C. DESIGN LOADS WERE BASED ON ALLOWABLE STRESS DESIGN, ASD.

7) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS 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 DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA RESIDENTIAL CODE FOR CORROSION RESISTANCE.

8) REFER TO CURRENT FLORIDA BUILDING CODE FOR EXPOSED REQUIREMENTS.

9) FRAME FLANGE OR MOUNTING FINS SHALL BE TRIMMED AS REQUIRED TO CREATE ADEQUATE CLEARANCE FOR FASTENERS. THE EXPOSED ALUMINUM WOOD MUST BE PAINTED TO PROTECT AGAINST CORROSION.

TABLE 1

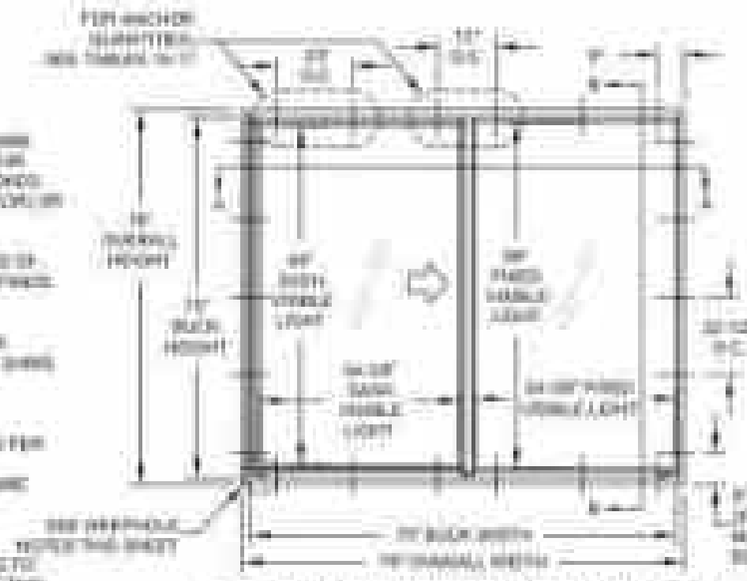
Wave Type	Description (Listed from Exterior to Interior)	IW Table #				Anchor Table #			
		XO / OX		XOX		XO / OX		XOX	
		STD	HD	STD	HD	STD	HD	STD	HD
1	1/8" FIX, .060" POS, 1/2" IGU	1	--	8	--	14	--	16	--
2	1/8" FIX, .060" POS, 1/8" HD	1	--	8	--	14	--	16	--
3	0.090" AN, .090" POS, 5/16" IGU	1	--	8	--	14	--	16	--
4	5/16" LAM, 1/8" AN LAM, AIRSPACE, 1/8" AN, .060" POS, 1/8" AN	1	--	8	--	14	--	16	--
5	5/16" LAM, 1/8" TP LAM, AIRSPACE, 1/8" AN, .060" POS, 1/8" AN	1	--	8	--	14	--	16	--
6	5/16" LAM, 5/16" AN LAM, AIRSPACE, 1/8" AN, .060" POS, 1/8" AN	1	--	10	--	14	--	16	--
7	5/16" LAM, 5/16" TP LAM, AIRSPACE, 1/8" AN, .060" POS, 1/8" AN	1	--	10	--	14	--	16	--
8	0.090" AN, .090" POS, 2/16" AN	1	1	11	--	14	16	20	--
9	0.090" HD, .090" POS, 2/16" HD	1	1	10	12	14	16	21	24
10	7/16" LAM, 1/8" AN LAM, AIRSPACE, 1/2" AN, .060" POS, 1/16" AN	1	1	11	--	14	16	20	--
11	7/16" LAM, 1/8" TP LAM, AIRSPACE, 1/2" AN, .060" POS, 1/16" AN	1	1	11	--	14	16	21	--
12	7/16" LAM, 1/8" AN LAM, AIRSPACE, 1/8" HD, .060" POS, 1/8" HD	1	1	12	--	14	16	21	--
13	7/16" LAM, 1/8" TP LAM, AIRSPACE, 1/8" HD, .060" POS, 1/8" HD	1	1	12	--	14	16	21	--
14	7/16" LAM, 5/16" AN LAM, AIRSPACE, 1/8" HD, .060" POS, 1/8" HD	1	1	12	--	14	16	20	--
15	7/16" LAM, 5/16" TP LAM, AIRSPACE, 1/8" HD, .060" POS, 1/8" HD	1	1	12	14	14	17	21	27

SGN: KURARAY SENTRYGLAS INTERLAYER BY KURARAY AMERICA, INC.
PVB = KURARAY TROSIFOL PVB SERIES (CLEAR) BY KURARAY AMERICA, INC.
AN = ANNEALED / H = HEAT STRENGTHENED / TP = TEMPERED

GENERAL NOTES	1
ELEVATIONS	1
GLASS TYPES TABLE	1
DESIGN PRESSURES	2, 10
ANCHOR QUANTITIES	11, 12
INSTALLATION / ANCHOR SPECS	13, 14
EXTRUSION PROFILES	20
CORNER ASSEMBLY	21
PARTS LIST	21

WHERE THE PRODUCT WILL BE INSTALLED WITHIN 3,000 FEET OF A SALT WATER COASTLINE IT MUST COMPLY WITH SECTION 1711 OF THE FBC, BUILDING OR R322 OF THE FBC, RESIDENTIAL.

FLORIDA PRODUCT APPROVAL #####



TYP. FLANGE XO ELEVATION (OX SIM.)

MAX. DIMENSIONS ALLOWED SHOWN

USER INSTRUCTIONS:

1) DETERMINE THE SIZE REQUIRED WINDOW OPENING FROM ARCHITECTURAL DRAWINGS. RECORD DESIGN PRESSURE REQUIREMENT FROM NOTES.

2) KNOWING YOUR GLAZING SYSTEM (TABLE 1), WINDOW CONFIGURATION AND SIZE, DETERMINE YOUR MINIMUM DESIGN PRESSURE FROM TABLES 2-13. IF MOST EQUAL OR EXCEED THE DESIGN PRESSURE REQUIREMENT FOR THE WINDOW OPENING OBTAINED IN STEP 1.

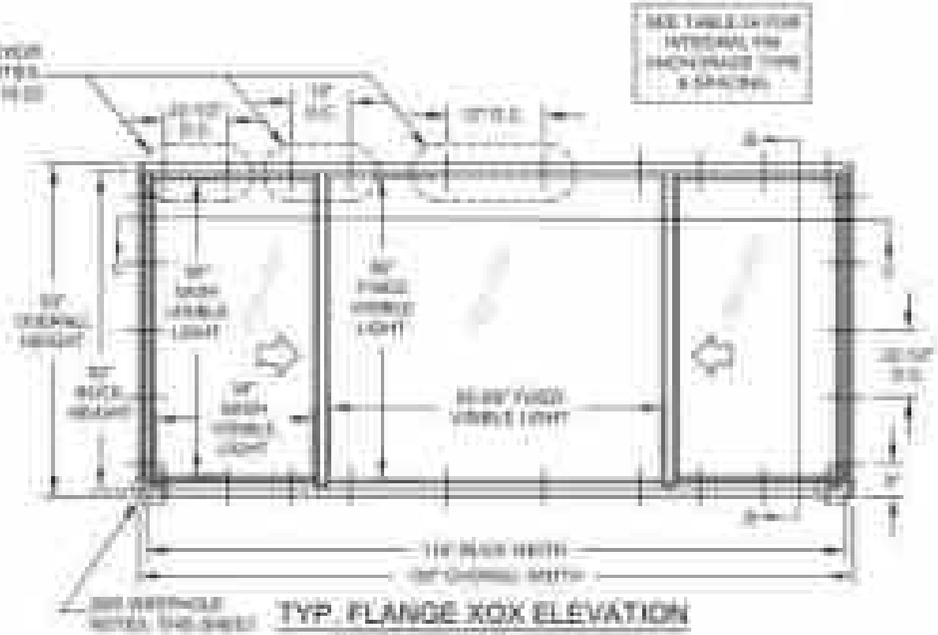
3) DETERMINE THE ANCHOR QUANTITY FROM TABLES 14-22.

4) INSTALL AS PER SHEET 13 FOR FLANGE INSTALLATION, SHEET 14 FOR NAILING FIN INSTALLATION OR SHEET 15 FOR INTEGRAL FIN INSTALLATION.

5) DESIGN PRESSURE RATING DETERMINATION IS THE SAME PROCESS FOR ALL FRAME TYPES (FLANGE, INTEGRAL FIN OR NAILING FIN).

6) DIMENSIONAL DEVIATIONS ALLOWED PROVIDED MINIMUM VISIBLE LIGHT DIMENSIONS ARE NOT EXCEEDED.

SEE TABLE 14 FOR INTEGRAL FIN ANCHOR TYPE & SPACING



TYP. FLANGE XOX ELEVATION

MAX. DIMENSIONS ALLOWED SHOWN

DRAINAGE NOTES:
1) CUT 4 - 3/8" WEEPHOLES IN PLASTIC SNAPTEX.
2) 1 WEEPHOLE LOCATED AT 3" FROM EACH END.
3) 1 WEEPHOLE LOCATED UNDER EACH MEETING RAIL.

DESIGN PRESSURE RATING
SEE TABLES 2-13

WATER TEST PRESSURE
12.5 PSF (+) 12.5 PSF

IMPACT RATING
LARGE MISSILE SMALL MISSILE IMPACT RESISTANT WINDOW LEVEL D

PGT

ALUMINUM HORIZONTAL ROLLER

GENERAL NOTES & ELEVATION

ID# HR7710

SHEET 1 OF 21

SHEET ID

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDED NOTE 9	10/15/19

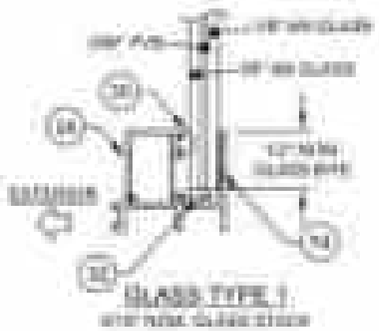
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CHECKED BY: ###
DATE: ###
SCALE: ###

PGT INDUSTRIES
1070 TECHNOLOGY DRIVE
NORTH VENICE, FL 34275
(941) 480-1600

WINCHESTER RILEY
LICENSE
No. #####
STATE OF FLORIDA
PROFESSIONAL ENGINEER

TABLE 1

Overall Width	Design Pressure (lbs/ft²) for XO & OX Windows — Glass Type: 1, Meeting Rail: Standard									
	21 1/8" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		59" Overall Hgt.		63" Overall Hgt.	
25"	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0
29"	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0
33"	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0
49"	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0
61"	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0
67"	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0
74"	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-63.3

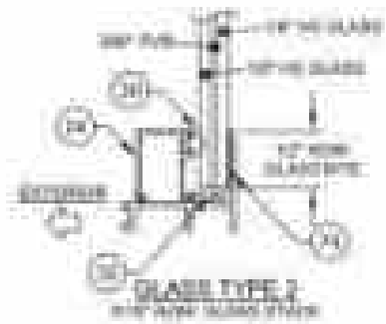


GLASS TYPE 1

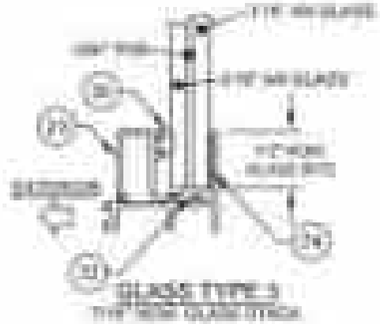
TABLE 2

Overall Width	Design Pressure (lbs/ft²) for XO & OX Windows — Glass Types: 2, 3, 5, 6, 7, Meeting Rail: Standard									
	21 1/8" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		59" Overall Hgt.		63" Overall Hgt.	
25"	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+66.2	-66.0
29"	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+66.2	-66.0
33"	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+66.2	-66.0
49"	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+66.2	-66.0
61"	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+66.2	-66.0
67"	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+66.2	-76.2"
74"	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+66.2	-72.2"

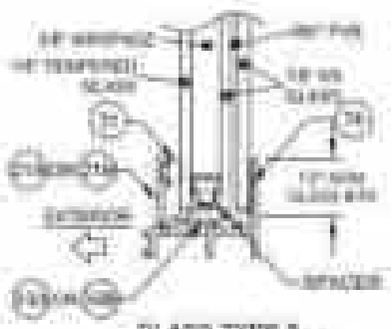
*SEE FOR GLASS TYPES 2, 3 AT



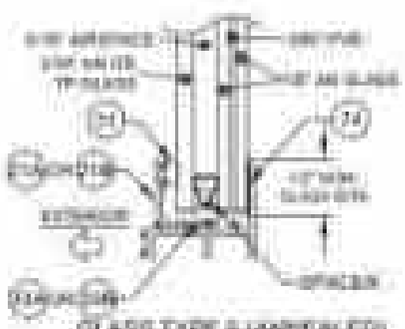
GLASS TYPE 2



GLASS TYPE 3



GLASS TYPE 5



GLASS TYPE 6 (ANNEALED)
GLASS TYPE 7 (TEMPERED)

NOTES:

1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN FOR INTEGRAL FIN AND EQUAL LEG WINDOWS. SUBTRACT ½" FROM THE TIP TO TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.

PGT

ALUMINUM HORIZONTAL ROLLER

DESIGN PRESSURE TABLES

DRAWING NO.

SHEET NO.

REVISIONS

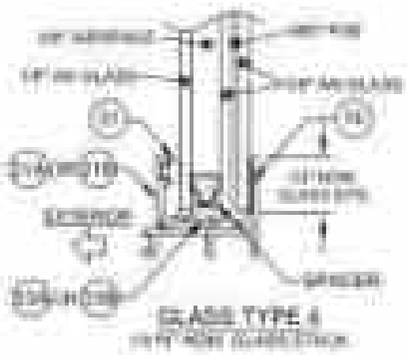
DATE

BY

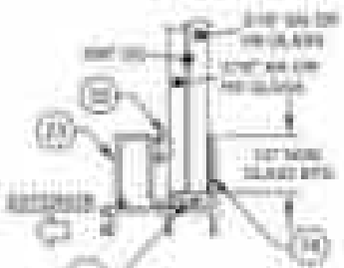
DESCRIPTION

REGISTERED PROFESSIONAL ENGINEER

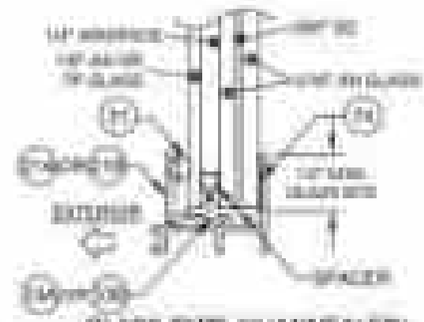
Overall Width	Design Pressure (lbs/ft²) for XO & OX Windows — Glass Type: 4, Mulling Rail: Standard									
	21-1/8" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		65" Overall Hgt.		93" Overall Hgt.	
25"	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
29"	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
37"	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
49"	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
61"	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-76.6
67"	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-71.3
73"	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-77.1	+64.8	-64.8



GLASS TYPE 4



GLASS TYPE 8 (ANNEALED)
GLASS TYPE 9 (HEAT STRENGTHENED)



GLASS TYPE 10 (ANNEALED)
GLASS TYPE 11 (TEMPERED)

Overall Width	Design Pressure (lbs/ft²) for XO & OX Windows — Glass Types: 8-15, Mulling Rail: Standard									
	21-1/8" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		65" Overall Hgt.		93" Overall Hgt.	
25"	+80.0	-110.0	+80.0	-110.0	+80.0	-110.0	+80.0	-110.0	+80.0	-110.0
29"	+80.0	-110.0	+80.0	-110.0	+80.0	-110.0	+80.0	-110.0	+80.0	-110.0
37"	+80.0	-110.0	+80.0	-110.0	+80.0	-110.0	+80.0	-110.0	+80.0	-110.0
49"	+80.0	-110.0	+80.0	-110.0	+80.0	-110.0	+80.0	-110.0	+80.0	-110.0
61"	+80.0	-110.0	+80.0	-110.0	+80.0	-110.0	+80.0	-110.0	+80.0	-101.9*
67"	+80.0	-110.0	+80.0	-110.0	+80.0	-110.0	+80.0	-110.0	+80.0	-95.7*
73"	+80.0	-110.0	+80.0	-110.0	+80.0	-110.0	+80.0	-110.0	+80.0	-90.0*

* 1/2 of the glass types 8, 10, 12 & 14

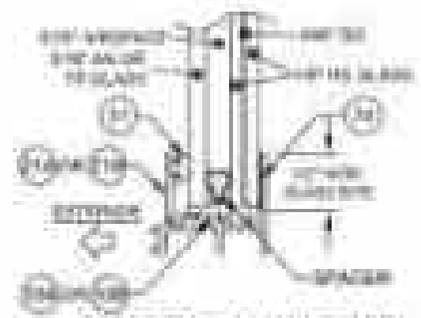
GLASS TYPES 8 - 15 MAY NOT BE USED WITH INTEGRAL PUTTY FINISHES

NOTES:

1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN FOR INTERPOLATION AND EQUAL LEG ANGLES. SUBTRACT 1" FROM TAB TIP TO TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.

GLASS TYPE 12 (ANNEALED)
GLASS TYPE 13 (TEMPERED)



GLASS TYPE 14 (ANNEALED)
GLASS TYPE 15 (TEMPERED)

PGT

ALUMINUM HORIZONTAL ROLLER

DESIGN PRESSURE TABLES

XO & OX

TABLE 6

Overall Width	Design Pressure (lbs/ft²) for XO & OX Windows											
	23-1/8" Overall Hgt.		33" Overall Hgt.		49" Overall Hgt.		65" Overall Hgt.		83" Overall Hgt.		95" Overall Hgt.	
25"	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
29"	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
37"	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
49"	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
61"	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
67"	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
70"	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0

Glass Types: 8, 10 & 11
Meeting Rail: Heavy-Duty

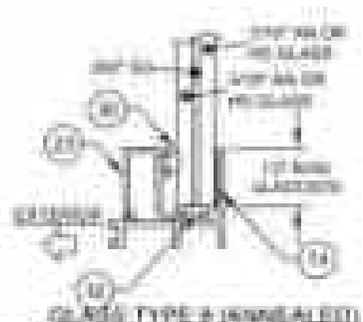
TABLE 7

Overall Width	Design Pressure (lbs/ft²) for XO & OX Windows											
	23-1/8" Overall Hgt.		33" Overall Hgt.		49" Overall Hgt.		65" Overall Hgt.		83" Overall Hgt.		95" Overall Hgt.	
25"	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0
29"	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0
37"	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0
49"	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0
61"	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0
67"	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0
70"	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0	+80.0	-130.0

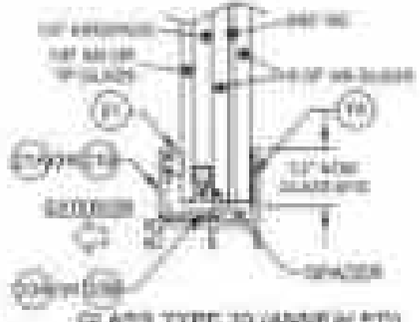
Glass Types: 9 & 12-15
Meeting Rail: Heavy-Duty

- GLASS TYPES 8 - 15 MAY NOT BE USED WITH PATTERNED PVB INTERLAYERS.
- PVB/SGP

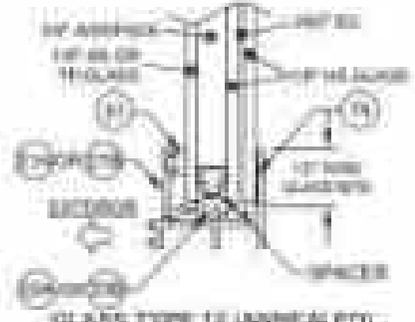
A GLASS TYPE 7A - 1/2" O/A
B GLASS TYPE 14 - 1" O/A
C GLASS TYPE 7A - 1" O/A



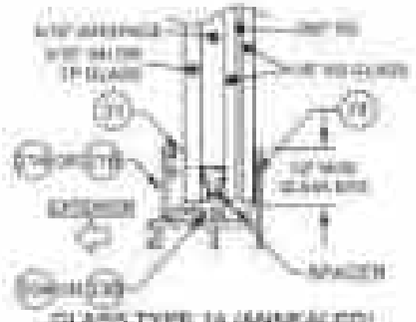
GLASS TYPE 8 (ANNEALED)
GLASS TYPE 9 (HEAT STRENGTHENED)



GLASS TYPE 10 (ANNEALED)
GLASS TYPE 11 (TEMPERED)



GLASS TYPE 12 (ANNEALED)
GLASS TYPE 13 (TEMPERED)



GLASS TYPE 14 (ANNEALED)
GLASS TYPE 15 (TEMPERED)

NOTES

1) OVERALL (TOP TO TIP) DIMENSIONS SHOWN TYPICAL(S). WINDOWS, SUBSTRACT ½" FROM THE TIP TO TIP DIMENSION AT THE TABLE TO DETERMINE THE OPENING SIZE.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.

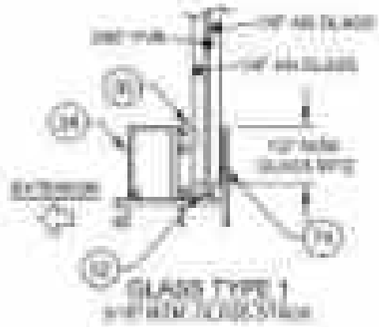
PGT
ALUMINUM HORIZONTAL ROLLER
DESIGN PRESSURE TABLES
ISSUED
DRAWN
CHECKED
SCALE
SHEET

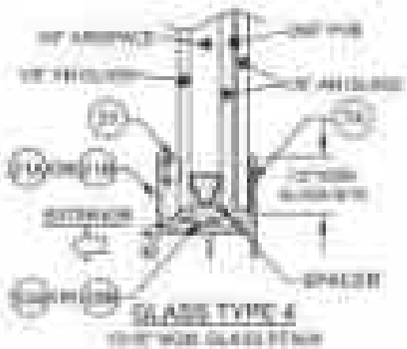
TABLE 1

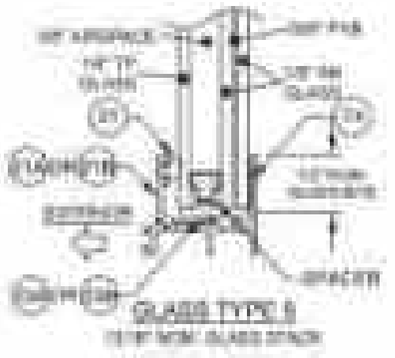
Overall Width	Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft²) for XOX Windows — Glass Type: 1, 4 & 5; Meeting Rail: Standard											
			21' 1/8" Overall Hgt.		29' Overall Hgt.		37' Overall Hgt.		49' Overall Hgt.		55' Overall Hgt.		63' Overall Hgt.	
44"	1/3-2/3-1/3	12.626 - 13.062	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0
	2/3-2/3	12.063 - 15.308	+60.0	-60.0	+56.2	-56.2	+46.2	-46.2	+46.2	-46.2	+46.2	-46.2	+46.2	-46.2
48"	1/3-2/3-1/3	12.626 - 13.802	+60.0	-60.0	+52.0	-52.0	+46.0	-46.0	+46.0	-46.0	+46.0	-46.0	+46.0	-46.0
	2/3-2/3	13.303 - 16.675	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0
53-1/8"	1/3-2/3-1/3	12.626 - 14.303	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0
	2/3-2/3	14.339 - 18.398	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0
61"	1/3-2/3-1/3	13.036 - 14.802	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0
	2/3-2/3	15.303 - 20.675	+60.0	-60.0	+52.0	-52.0	+46.0	-46.0	+46.0	-46.0	+46.0	-46.0	+46.0	-46.0
70"	1/3-2/3-1/3	13.036 - 20.062	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+51.9	-51.9
	custom	23.053 - 23.169	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0
	2/3-2/3	23.186 - 29.675	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0
80-1/8"	1/3-2/3-1/3	** - 24.980	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+56.2	-56.2	+53.9	-53.9	+46.7	-46.7
	custom	24.980 - 26.189	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+57.9	-57.9
	2/3-2/3	26.186 - 31.038	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0
97"	1/3-2/3-1/3	** - 25.302	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+56.2	-56.2	+53.9	-53.9	+46.7	-46.7
	custom	25.303 - 27.186	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+56.5	-56.5
	custom	27.186 - 31.038	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+58.6	-58.6
109"	1/3-2/3-1/3	** - 25.302	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+56.2	-56.2	+53.9	-53.9	+46.7	-46.7
	custom	28.303 - 29.186	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+57.3	-57.3
	custom	29.186 - 31.038	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+57.5	-57.5
120"	1/3-2/3-1/3	** - 31.038	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+56.2	-56.2	+53.9	-53.9	+46.7	-46.7

* MIN. SASH WIDTH IN FIXED WINDOWS = (OVERALL WIDTH - 10 3/4") / 3

* MIN. SASH WIDTH IN 4 & 5 LITE WINDOWS = (OVERALL WIDTH - 10 3/4") / 4







NOTES

1) OVERALL (TOP TO TOP) DIMENSIONS SHOWN, FOR INTERPOLATION AND EQUAL LEG ANGLES. SUBTRACT 1" FROM TOP TO TOP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.

PGT
ALUMINUM HORIZONTAL ROLLER
DESIGN PRESSURE TABLES

TABLE 5

Overall Width	Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft²) for XOX Windows — Glass Types: 2, 3 — Meeting Rail: Standard											
			21'-11⅜" Overall Hgt.		29' Overall Hgt.		37' Overall Hgt.		49' Overall Hgt.		55' Overall Hgt.		63' Overall Hgt.	
41"	⅓-⅓-⅓	12.039 - 13.052	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
	⅓-⅓-⅓	12.053 - 16.508	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
49"	⅓-⅓-⅓	12.039 - 13.302	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
	⅓-⅓-⅓	13.303 - 16.675	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
53-1/8"	⅓-⅓-⅓	12.039 - 14.539	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
	⅓-⅓-⅓	14.334 - 16.550	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
61"	⅓-⅓-⅓	12.039 - 16.302	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
	⅓-⅓-⅓	16.303 - 20.925	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
70"	⅓-⅓-⅓	12.039 - 20.052	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
	custom	20.053 - 22.185	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
	⅓-⅓-⅓	22.186 - 25.675	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
93-1/8"	⅓-⅓-⅓	" - 24.562	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
	custom	24.053 - 26.185	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
	⅓-⅓-⅓	26.186 - 31.049	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
97"	⅓-⅓-⅓	" - 25.302	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
	custom	25.303 - 27.185	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
	⅓-⅓-⅓	27.186 - 32.675	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
109"	⅓-⅓-⅓	" - 26.302	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
	custom	26.303 - 30.185	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
	⅓-⅓-⅓	30.186 - 36.675	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
113-5/8"	⅓-⅓-⅓	" - 29.403	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
	custom	29.404 - 31.185	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
	⅓-⅓-⅓	31.186 - 36.222	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
121"	⅓-⅓-⅓	" - 31.952	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
	custom	31.953 - 33.185	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
	custom	33.186 - 36.222	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0

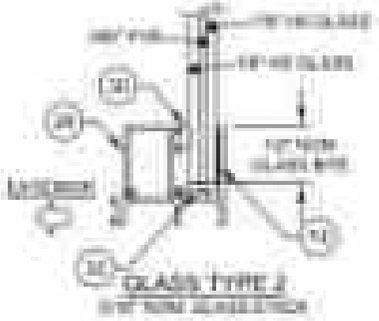
" MIN. SASH WIDTH FOR A RANGE WINDOW = MINIMUM RANGE SASH WIDTH / 2

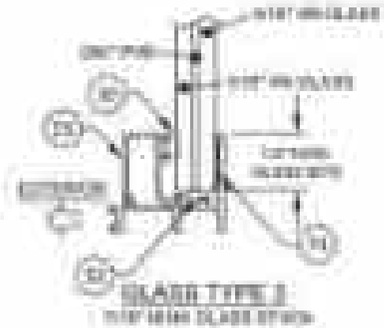
" MIN. SASH WIDTH FOR A EQUAL LEG WINDOW = MINIMUM RANGE SASH WIDTH / 2

NOTES:

1) OVERALL (TOP TO TOP) DIMENSIONS SHOWN FOR INTEGRAL FIN AND EQUAL LEG WINDOWS. SUBTRACT ½" FROM THESE TO GET DIMENSIONS FOR THE "A&U" TO DETERMINE THE WINDOW SIZE.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.





PGT

ALUMINUM HORIZONTAL ROLLER

DESIGN PRESSURE TABLES

ANTHONY LYNN MILLER

No. 38705

REGISTERED PROFESSIONAL ENGINEER

TABLE 1A

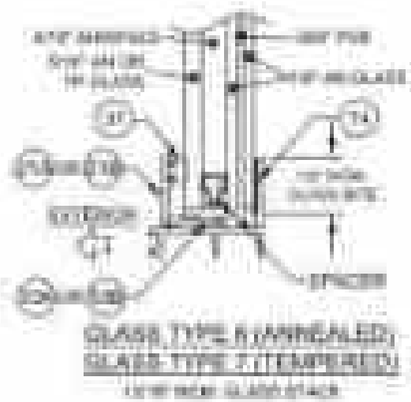
Overall Width	Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft²) for XOX Windows — Glass Types: 6, 7; Meeting Rail: Standard									
			21'-119" Overall Hgt.		29'-0" Overall Hgt.		37'-0" Overall Hgt.		45'-0" Overall Hgt.		53'-0" Overall Hgt.		61'-0" Overall Hgt.	
45"	1/3+1/3+1/3	12.039 - 13.062	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0
	1/3+1/3+1/3	13.063 - 15.058	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0
49"	1/3+1/3+1/3	12.038 - 13.302	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0
	1/3+1/3+1/3	13.303 - 16.675	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0
53-1/8"	1/3+1/3+1/3	12.038 - 14.333	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0
	1/3+1/3+1/3	14.334 - 18.000	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0
61"	1/3+1/3+1/3	13.039 - 16.302	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0
	1/3+1/3+1/3	16.303 - 20.679	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0
70"	1/3+1/3+1/3	12.039 - 20.052	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-72.9[2]
	Custom	20.053 - 22.185	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0
	1/3+1/3+1/3	22.186 - 26.675	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0
85-1/8"	1/3+1/3+1/3	→ - 24.062	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-74.1[1]	+65.0	-67.8[2]
	Custom	24.063 - 26.185	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0
	1/3+1/3+1/3	26.186 - 31.049	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0
93"	1/3+1/3+1/3	→ - 25.362	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-74.1[1]	+65.0	-67.8[2]
	Custom	25.363 - 27.185	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-77.9
	1/3+1/3+1/3	27.186 - 32.675	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-69.0
109"	1/3+1/3+1/3	→ - 28.362	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-74.1[1]	+65.0	-67.8[2]
	Custom	28.363 - 30.185	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-70.0
	1/3+1/3+1/3	30.186 - 36.675	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-70.9
113-5/8"	1/3+1/3+1/3	→ - 28.462	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-74.1[1]	+65.0	-67.8[2]
	Custom	28.464 - 33.185	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-70.0
	1/3+1/3+1/3	33.186 - 36.333	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-70.0
129"	1/3+1/3+1/3	→ - 31.062	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-74.1[1]	+65.0	-67.8[2]
	Custom	31.063 - 33.185	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-69.4
	Custom	33.186 - 36.333	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-60.0	+65.0	-71.3

[1] MIN. SASH WIDTH IN A FIXED WINDOW = (OVERALL WIDTH - 26 3/8") / 2

[2] MIN. SASH WIDTH IN A FIXED LITE OPENING = (OVERALL WIDTH - 17 7/8") / 2

[1] 36" X 77-5/8" GLASS (TYPE 1)

[2] 71" X 77-5/8" GLASS (TYPE 1)



NOTES

1) OVERALL (TOP TO TOP) DIMENSIONS SHOWN, FOR INTEGRAL FIN AND EQUAL LEG WINDOWS, SUBTRACT ½" FROM THE TOP TO TOP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.

PGT

ALUMINUM HORIZONTAL ROLLER

DESIGN PRESSURE TABLES

DP1 ROXOne

DP1 ROXOne

DP1 ROXOne

TABLE 1**

Overall Width	Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft²) for XOX Windows — Glass Types: 9, 10 & 11; Venting Rail: Standard									
			21 1/8" Overall Hgt		29" Overall Hgt		37" Overall Hgt		49" Overall Hgt		73" Overall Hgt		85" Overall Hgt	
41"	1/3+1/3+1/3	12.938 - 13.062	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
	1/3+1/3+1/3	13.063 - 15.938	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
49"	1/3+1/3+1/3	12.938 - 13.302	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
	1/3+1/3+1/3	13.303 - 16.675	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
53 1/8"	1/3+1/3+1/3	12.938 - 14.300	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
	1/3+1/3+1/3	14.304 - 16.680	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
61"	1/3+1/3+1/3	12.938 - 16.300	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
	1/3+1/3+1/3	16.303 - 20.675	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
73"	1/3+1/3+1/3	12.938 - 20.052	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-89.2
	custom	20.053 - 22.185	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
	1/3+1/3+1/3	22.186 - 25.675	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
85 1/8"	1/3+1/3+1/3	— - 26.062	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-101.0	+60.0	-80.0
	custom	26.063 - 26.185	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-100.8	+60.0	-105.8
	1/3+1/3+1/3	26.186 - 31.049	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-100.8	+60.0	-102.8
97"	1/3+1/3+1/3	— - 25.302	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-101.0	+60.0	-80.0
	custom	25.303 - 27.185	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-102.1
	1/3+1/3+1/3	27.186 - 32.675	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-100.8	+60.0	-98.8
109"	1/3+1/3+1/3	— - 28.302	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-101.0	+60.0	-80.0
	custom	28.303 - 30.185	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-97.2
	1/3+1/3+1/3	30.186 - 38.675	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-82.9
113 5/8"	1/3+1/3+1/3	— - 28.463	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-101.0	+60.0	-80.0
	custom	28.464 - 33.185	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-100.8	+60.0	-84.1
	1/3+1/3+1/3	33.186 - 38.222	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-100.8	+60.0	-82.8
121"	1/3+1/3+1/3	— - 31.062	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-101.0	+60.0	-80.0
	custom	31.063 - 33.185	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-102.8	+60.0	-81.5
	custom	33.186 - 38.222	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-100.8	+60.0	-80.8

** MIN. SASH WIDTH (FLANGE WINDOW) = (OVERALL WIDTH - 90 MM) / 2

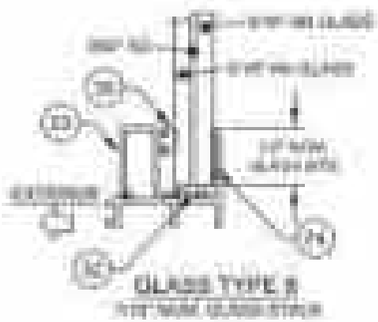
** MIN. SASH WIDTH (EQUAL LEG WINDOW) = (OVERALL WIDTH - 57.2 MM) / 2

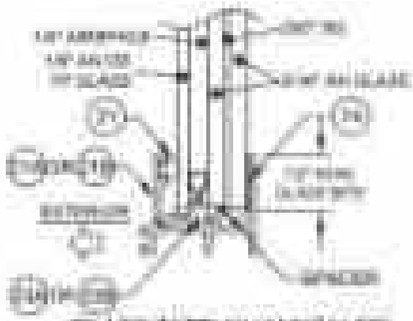
■ GLASS TYPES 6 - 10 MAY NOT BE USED WITH INTEGRAL FIN
● Available

NOTES:

1) OVERALL (TOP TO TIP) DIMENSIONS SHOWN FOR EQUAL LEG AND UNEQUAL (CONTACT YKK AP FOR TIP TO TIP DIMENSION AT THE TABLE TO DETERMINE THE SMALLER SIZE)

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.





PGT

ALUMINUM HORIZONTAL ROLLER

DESIGN PRESSURE TABLES

STATE OF FLORIDA
PROFESSIONAL ENGINEER

TABLE 7C

Overall Width	Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft²) for XO8 Windows — Glass Types: 9, 12,15 Meeting Rail: Standard											
			21 1/8" Overall Hgt.		29" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		59" Overall Hgt.		63" Overall Hgt.	
94"	1/3-1/3-1/3	12.039 - 12.250	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
	1/3-1/3-1/3	12.063 - 15.000	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
106"	1/3-1/3-1/3	12.039 - 15.302	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
	1/3-1/3-1/3	11.303 - 18.875	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
93-1/8"	1/3-1/3-1/3	12.039 - 14.333	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
	1/3-1/3-1/3	14.334 - 18.000	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
97"	1/3-1/3-1/3	12.039 - 15.302	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
	1/3-1/3-1/3	15.303 - 20.875	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
99"	1/3-1/3-1/3	12.039 - 20.000	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
	custom	20.063 - 22.188	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
	1/3-1/3-1/3	22.190 - 25.875	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
103-1/8"	1/3-1/3-1/3	" - 24.062	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-106.7*
	custom	24.063 - 26.188	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
	1/3-1/3-1/3	26.190 - 31.048	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
107"	1/3-1/3-1/3	" - 25.502	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-106.7*
	custom	25.303 - 27.188	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
	1/3-1/3-1/3	27.189 - 32.875	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
111"	1/3-1/3-1/3	" - 26.302	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-106.7*
	custom	26.303 - 30.188	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
	1/3-1/3-1/3	30.189 - 36.875	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
113-5/8"	1/3-1/3-1/3	" - 29.483	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-106.7*
	custom	29.484 - 33.188	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
	1/3-1/3-1/3	33.189 - 36.000	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
120"	1/3-1/3-1/3	" - 31.662	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-106.7*
	custom	31.663 - 33.188	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-107.8
	custom	33.189 - 36.000	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-106.6

**MIN. SASH WIDTH (PLANTED WINDOWS) = OVERALL WIDTH - 20.938
2

**MIN. SASH WIDTH (EQUAL LEG WINDOWS) = OVERALL WIDTH - 27.000
2

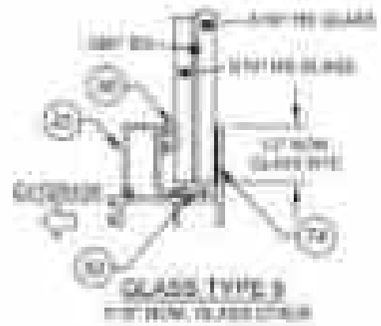
*1/8" GLASS FOR GLASS TYPES 9, 12, 13 & 15

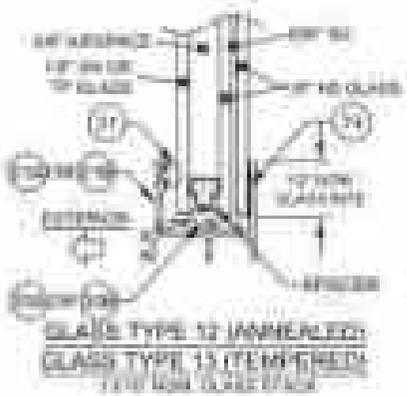
GLASS TYPES 9, 13 MAY NOT BE USED WITH INTERIOR PIN HANGER

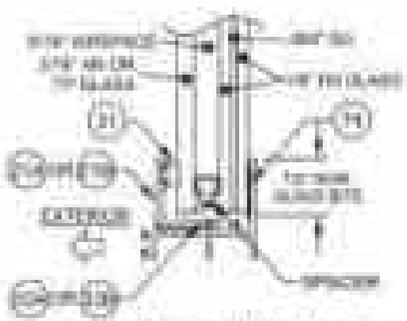
NOTES:

1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN TYP/EQUALLED. WINDOWS, SUBTRACT ½" FROM THE "W" TO "W" DIMENSION AT THE TABLE TO DETERMINE THE SPECIFIC SIZE.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.







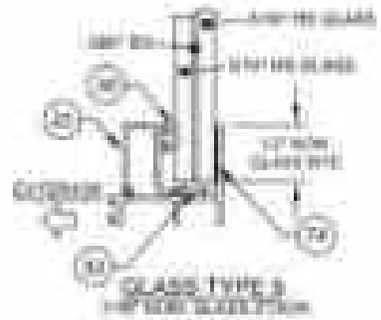
PGT
ALUMINUM HORIZONTAL ROLLER
DERIVON PRESSURE TABLES

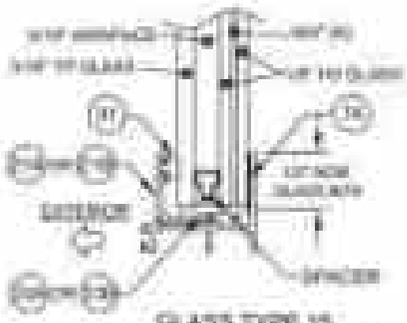
TABLE 11

Overall Width	Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft²) for XO# Windows — Glass Types: 9 or 10, Meeting Rail: Heavy Duty											
			21 1/8" Overall Hgt		29" Overall Hgt		37" Overall Hgt		49" Overall Hgt		55" Overall Hgt		61" Overall Hgt	
34"	1/3-1/3-1/3	12.039 - 13.052	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
	2/3-2/3-2/3	12.053 - 15.308	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
40"	1/3-1/3-1/3	12.039 - 15.305	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
	2/3-2/3-2/3	15.309 - 18.670	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
93-1/8"	1/3-1/3-1/3	12.039 - 14.535	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
	2/3-2/3-2/3	14.334 - 18.299	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
61"	1/3-1/3-1/3	12.039 - 15.302	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
	2/3-2/3-2/3	15.305 - 20.670	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
70"	1/3-1/3-1/3	12.039 - 20.052	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
	custom	20.053 - 22.190	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
	2/3-2/3-2/3	22.190 - 25.975	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
93-1/8"	1/3-1/3-1/3	" - 24.052	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
	custom	24.053 - 26.195	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
	2/3-2/3-2/3	26.189 - 31.046	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
97"	1/3-1/3-1/3	" - 25.302	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
	custom	25.303 - 27.195	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
	2/3-2/3-2/3	27.189 - 32.675	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
109"	1/3-1/3-1/3	" - 28.302	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
	custom	28.303 - 30.195	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
	2/3-2/3-2/3	30.189 - 36.675	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
113-5/8"	1/3-1/3-1/3	" - 29.460	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
	custom	29.444 - 33.189	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
	2/3-2/3-2/3	33.186 - 38.332	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
125"	1/3-1/3-1/3	" - 31.052	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
	custom	31.053 - 33.195	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
	custom	33.189 - 38.332	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0

**MIN. SASH WIDTH (PLANET WINDOWS) = OVERALL WIDTH - 2(2.39)
2

**MIN. SASH WIDTH (EQUAL LEG WINDOWS) = OVERALL WIDTH - 2(2.39)
2





NOTES:

1) OVERALL (TOP TO TIP) DIMENSIONS SHOWN TYPE EQUAL LEG MEETING RAIL CONTACT YKK/HOME FOR TYP TO TYP DIMENSION AT THE TABLE TO DETERMINE THE SPECIFIC SIZE.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.

PGT
ALUMINUM HORIZONTAL ROLLER
DESIGN PRESSURE TABLES

TABLE 1A

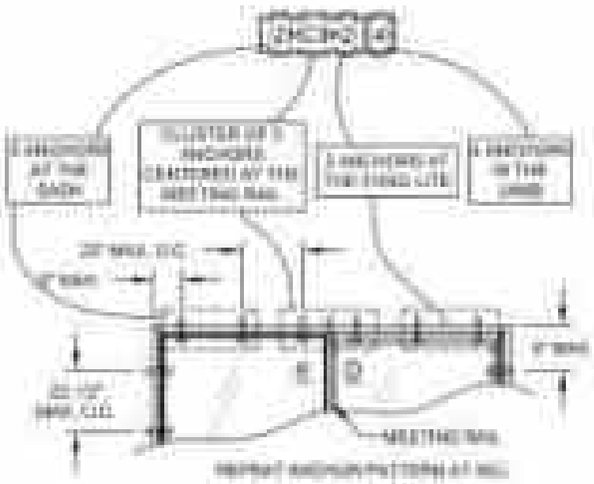
Overall Width	Anchor Quantities for XO & OX Windows										Glass Types: 1-7 Meeting Rail: Standard	
	21-1/8" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		61" Overall Hgt.		61" Overall Hgt.			
	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb		
25"	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2		
29"	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2		
37"	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2		
49"	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2		
61"	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2		
67"	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1 *	2		
74"	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1 *	2		

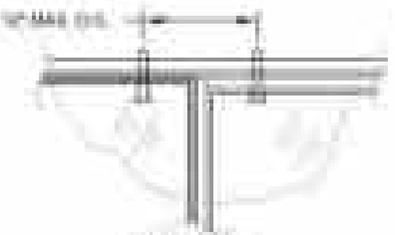
* 1+C2+1 FOR SHAPE TYPES 1, 2 & 3

TABLE 1B

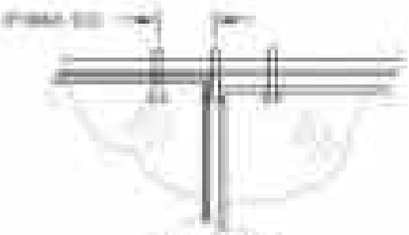
Overall Width	Anchor Quantities for XO & OX Windows										Glass Types: 8-15 Meeting Rail: Standard	
	21-1/8" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		61" Overall Hgt.		61" Overall Hgt.			
	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb		
25"	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2		
29"	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2		
37"	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2		
49"	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2		
61"	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2	1+C2+1	2		
67"	1+C2+1	2	2+C2+2	2	3+C2+3	3	2+C2+3	3	2+C2+2	3		
74"	2+C2+2	3	2+C2+2	3	3+C2+3	3	2+C2+3	3	2+C2+2	4		

GUIDE TO USING ANCHOR QUANTITY TABLES FOR XO/OX WINDOWS

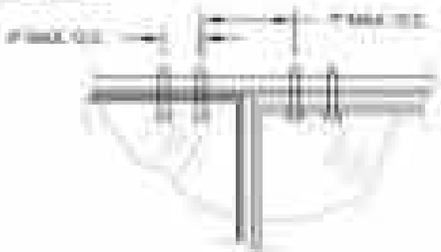




2-ANCHOR CLUSTER DETAIL



3-ANCHOR CLUSTER DETAIL



4-ANCHOR CLUSTER DETAIL

NOTES:

1) CHANNEL ZIP TO TPI DIMENSIONS SHOWN FOR EQUALIZE WINDOWS. SUBTRACT 7" FROM THE TPI ZIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.

PGT INDUSTRIES

ALUMINUM HORIZONTAL ROLLER

ANCHOR QUANTITY TABLES

DRAWING NO. A-ANC-111

SHEET NO. 1 OF 1

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDED TABLE 1B	10/15/2020

DRAWN BY: [illegible]

CHECKED BY: [illegible]

DATE: [illegible]

SCALE: [illegible]

JOB NO. [illegible]

PGT INDUSTRIES
1070 NW LEONARD STREET
VENICE, FLORIDA 34275
941-486-0594

ANTHONY TYAN MILLER
LICENSE
No. 59705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

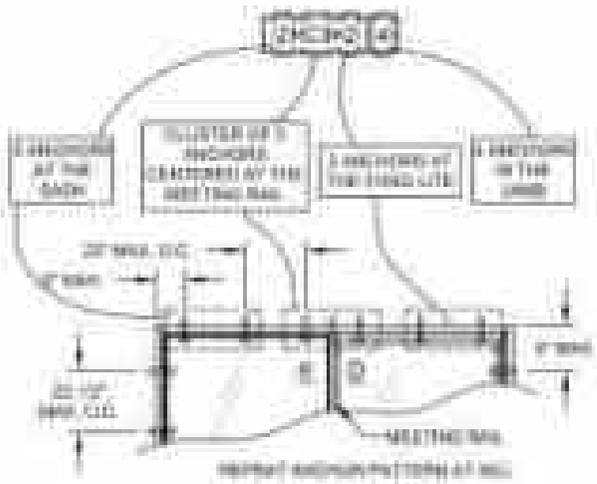
TABLE 10

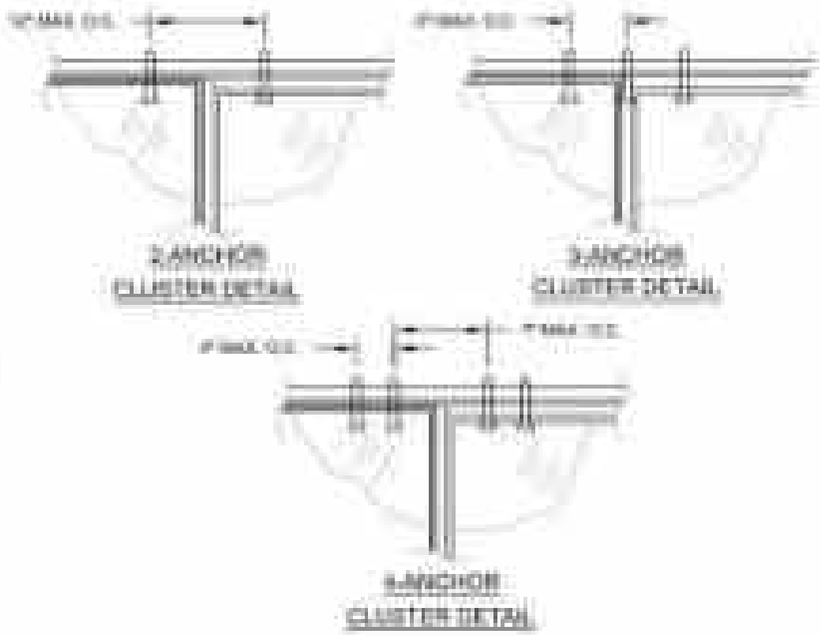
Overall Width	Anchor Quantities for XO & OX Windows — Glass Types: 9, 10 & 11; Meeting Rail: Heavy-Duty											
	21-1/8" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		61" Overall Hgt.		73" Overall Hgt.		85" Overall Hgt.	
	Head & Sill	Qty.	Head & Sill	Qty.	Head & Sill	Qty.	Head & Sill	Qty.	Head & Sill	Qty.	Head & Sill	Qty.
31"	1+CO+1	2	1+CO+1	2	1+CO+1	3	1+CO+1	3	1+CO+1	3	1+CO+1	4
35"	1+CO+1	2	1+CO+1	2	1+CO+1	3	1+CO+1	3	1+CO+1	3	1+CO+1	4
37"	1+CO+1	2	1+CO+1	2	1+CO+1	3	1+CO+1	3	1+CO+1	3	1+CO+1	4
49"	1+CO+1	2	1+CO+1	2	1+CO+1	3	1+CO+1	3	1+CO+1	3	1+CO+1	4
61"	1+CO+1	2	1+CO+1	2	1+CO+1	3	1+CO+1	3	1+CO+1	3	1+CO+1	4
67"	1+CO+1	2	2+CO+2	2	2+CO+2	3	2+CO+2	3	2+CO+2	3	2+CO+2	4
76"	2+CO+2	2	2+CO+2	2	2+CO+2	3	2+CO+2	3	2+CO+2	4	2+CO+2	5

TABLE 11

Overall Width	Anchor Quantities for XO & OX Windows — Glass Types: 9 & 12-15; Meeting Rail: Heavy-Duty											
	21-1/8" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		61" Overall Hgt.		73" Overall Hgt.		85" Overall Hgt.	
	Head & Sill	Qty.	Head & Sill	Qty.	Head & Sill	Qty.	Head & Sill	Qty.	Head & Sill	Qty.	Head & Sill	Qty.
30"	1+CO+1	2	1+CO+1	2	1+CO+1	3	1+CO+1	3	1+CO+1	3	1+CO+1	4
35"	1+CO+1	2	1+CO+1	2	1+CO+1	3	1+CO+1	3	1+CO+1	3	1+CO+1	4
37"	1+CO+1	2	1+CO+1	2	1+CO+1	3	1+CO+1	3	1+CO+1	3	1+CO+1	4
49"	1+CO+1	2	1+CO+1	2	1+CO+1	3	1+CO+1	3	1+CO+1	3	1+CO+1	4
61"	1+CO+1	2	1+CO+1	2	1+CO+1	3	1+CO+1	3	1+CO+1	4	1+CO+1	5
67"	2+CO+2	2	2+CO+2	2	2+CO+2	3	2+CO+2	3	2+CO+2	4	2+CO+2	5
76"	2+CO+2	2	2+CO+2	2	2+CO+2	3	2+CO+2	4	2+CO+2	4	2+CO+2	5

GUIDE TO USING ANCHOR QUANTITY TABLES FOR XO/OX WINDOWS





NOTES:

1) PANELS .125" TO .781" DIMENSIONS SHOWN FOR GLAZING AND BEADING. SUBTRACT 1" FROM THE TOP TO FIT DIMENSIONS IN THE TABLE TO DETERMINE THE WINDOW SIZE.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.

PGT INDUSTRIES

ALUMINUM HORIZONTAL ROLLER

ANCHOR QUANTITY TABLES

XO/OX

A11.10

WEST LYNN DRIVE
HOME
No. 38556
STATE OF FLORIDA
PROFESSIONAL ENGINEER

TABLE 1A

Overall Width	Sash Configuration	Sash Width Range (in)	Anchor Quantities for XOX Windows — Glass Type: 1, 4 & 5; Meeting Rail: Standard											
			21 1/8" Overall Hgt.		29" Overall Hgt.		37" Overall Hgt.		48" Overall Hgt.		101" Overall Hgt.		137" Overall Hgt.	
			Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
84"	1/3-2/3-1/3	12 3/8 - 12 3/4	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	3	1+D2+1+D2+1	3	1+D2+1+D2+1	3
	1/4-1/2-1/4	12 7/8 - 13 3/8	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	3	1+D2+1+D2+1	3	1+D2+1+D2+1	3
96"	1/3-2/3-1/3	13 5/8 - 13 3/4	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	3	1+D2+1+D2+1	3	1+D2+1+D2+1	3
	1/4-1/2-1/4	14 3/8 - 14 7/8	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	3	1+D2+1+D2+1	3	1+D2+1+D2+1	3
101 1/2"	1/3-2/3-1/3	13 3/8 - 14 3/8	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	3	1+D2+1+D2+1	3	1+D2+1+D2+1	3
	1/4-1/2-1/4	14 3/4 - 15 3/8	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	3	1+D2+1+D2+1	3	1+D2+1+D2+1	3
97"	1/3-2/3-1/3	13 1/8 - 13 3/4	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	3	1+D2+1+D2+1	3	1+D2+1+D2+1	3
	1/4-1/2-1/4	14 3/8 - 15 3/8	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	3	1+D2+1+D2+1	3	1+D2+1+D2+1	3
73"	1/3-2/3-1/3	13 1/8 - 13 3/4	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	3	1+D2+1+D2+1	3	1+D2+1+D2+1	3
	1/4-1/2-1/4	14 3/8 - 15 3/8	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	3	1+D2+1+D2+1	3	1+D2+1+D2+1	3
85 1/8"	1/3-2/3-1/3	" - 24 3/4	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	3	1+D2+1+D2+1	3	1+D2+1+D2+1	3
	1/4-1/2-1/4	24 3/8 - 24 7/8	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	3	1+D2+1+D2+1	3	1+D2+1+D2+1	3
	1/3-2/3-1/3	25 1/8 - 31 3/8	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	3	1+D2+1+D2+1	3	1+D2+1+D2+1	3
97"	1/3-2/3-1/3	" - 26 3/4	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	3	1+D2+1+D2+1	3	1+D2+1+D2+1	3
	1/4-1/2-1/4	25 3/8 - 27 1/8	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	3	1+D2+1+D2+1	3	1+D2+1+D2+1	3
	1/3-2/3-1/3	27 1/8 - 31 3/8	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	3	1+D2+1+D2+1	3	1+D2+1+D2+1	3
109"	1/3-2/3-1/3	" - 26 3/4	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	3	1+D2+1+D2+1	3	1+D2+1+D2+1	3
	1/4-1/2-1/4	25 3/8 - 28 1/8	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	3	1+D2+1+D2+1	3	1+D2+1+D2+1	3
	1/3-2/3-1/3	28 1/8 - 31 3/8	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	3	1+D2+1+D2+1	3	1+D2+1+D2+1	3
121"	1/3-2/3-1/3	" - 31 3/8	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	3	1+D2+1+D2+1	3	1+D2+1+D2+1	3

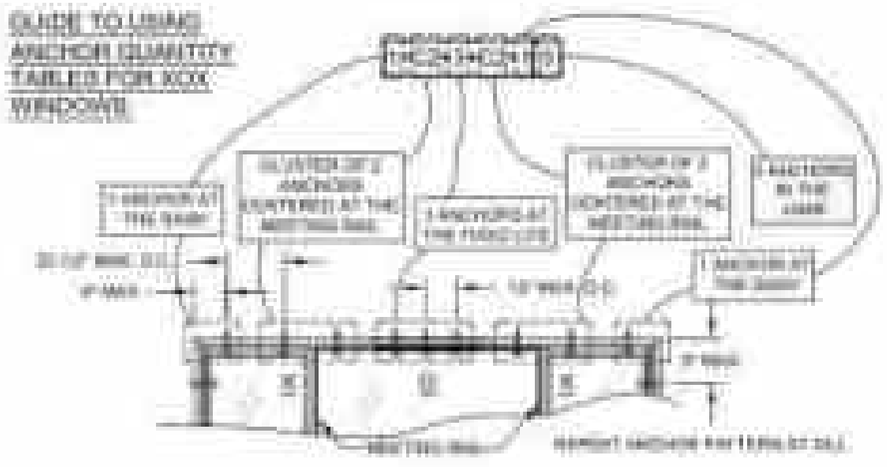
[illegible] Min. Sash Width (A Jamb Anchors) = Overall Width - 37 3/8"
2

[illegible] Min. Sash Width (Head & Sill Anchors) = Overall Width - 29 3/4"
2



2 ANCHOR CLUSTER DETAIL

GUIDE TO USING ANCHOR QUANTITY TABLES FOR XOX WINDOWS



NOTES

1) OVERALL (TOP TO TOP) DIMENSIONS SHOWN FOR EQUAL LEG ANGLING. SUBTRACT 1" FROM THE TOP TO TOP DIMENSION AT THE TABLE TO DETERMINE THE WINDOW SIZE.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.

PGT

ALUMINUM HORIZONTAL SLIDING WINDOW

ANCHOR QUANTITY TABLES

XOX

NOT FOR CONSTRUCTION

STATE OF FLORIDA

PROFESSIONAL ENGINEER

Table A-10

Anchor Quantities for XOX Windows

Glass Types: 2, 3, 6 & 7
Meeting Rail: Standard

Overall Width	Each Configuration	Each Width Range (in)	21 1/4" Overall Hgt.		25" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		60" Overall Hgt.		72" Overall Hgt.	
			Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
48"	24-24-24	12.938 - 13.562	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2
	24-24-24	12.063 - 13.688	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2
60"	24-24-24	12.938 - 13.562	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2
	24-24-24	12.063 - 13.688	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2
72-1/8"	24-24-24	12.938 - 14.000	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2
	24-24-24	14.000 - 15.000	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2
84"	24-24-24	12.938 - 15.062	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2
	24-24-24	15.063 - 16.938	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2
96"	24-24-24	12.938 - 16.562	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2
	custom	16.563 - 17.188	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2
	24-24-24	17.188 - 18.875	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2
108-1/8"	24-24-24	" - 18.062	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2
	custom	18.063 - 18.188	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2
	24-24-24	18.188 - 21.000	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2
120"	24-24-24	" - 18.062	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2
	custom	18.063 - 21.188	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2
	24-24-24	21.188 - 21.375	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2
132"	24-24-24	" - 21.062	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2
	custom	21.063 - 24.188	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2
	custom	24.188 - 24.375	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2	1+D+1+D+1	2

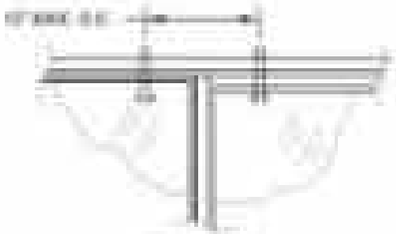
[1] MIN. RAKE WIDTH (FLANGE WINDOWS) = OVERALL WIDTH - 24.000
2

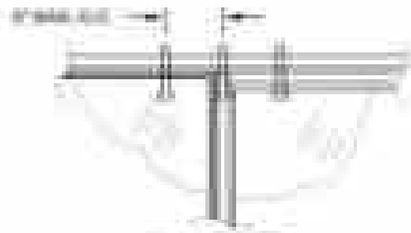
[2] MIN. RAKE WIDTH (EQUAL LEG WINDOWS) = OVERALL WIDTH - 27.250
2

NOTES

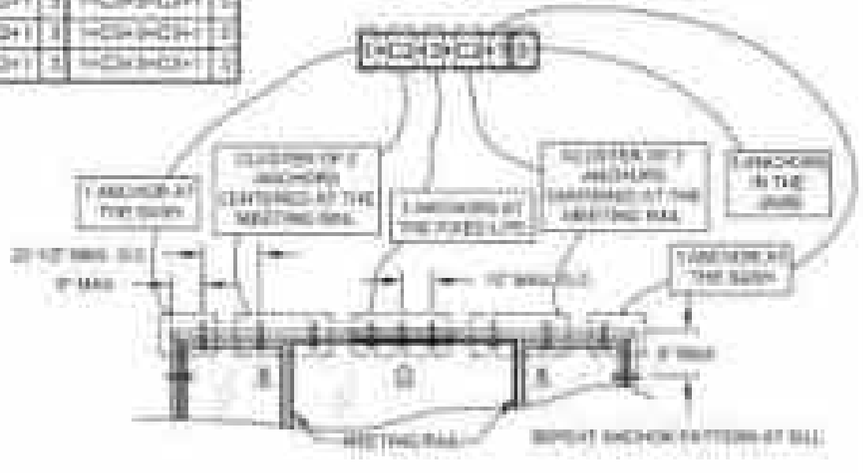
1) OVERALL (TOP TO TIP) DIMENSIONS SHOWN FOR EQUAL LEG WINDOWS. SUBTRACT ¼" FROM THE TIP TO TIP DIMENSION AT THE TABLE TO DETERMINE THE SPANDREL SIZE.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.





GUIDE TO USING ANCHOR QUANTITY TABLES FOR XOX WINDOWS



PGT
ALUMINUM HORIZONTAL ROLLER
ANCHOR QUANTITY TABLES

Table 8.20

Anchor Quantities for XO8 Windows

Glass Types: 5, 10 & 11
Meeting Rail: Standard

Overall Width	Sash Configuration	Sash Width Range	0'-11½" Overall Hgt.		0'-59" Overall Hgt.		0'-71" Overall Hgt.		4'-0" Overall Hgt.		5'-0" Overall Hgt.		6'-0" Overall Hgt.	
			Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
4'-0"	X+X	12 3/8" - 19 1/8"	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	3	1+C0+1+C0+1	3
	X+Fix+X	19 5/8" - 35 3/8"	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	3	1+C0+1+C0+1	3
4'-6"	X+X	13 3/8" - 21 3/8"	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	3	1+C0+1+C0+1	3
	X+Fix+X	21 5/8" - 39 3/8"	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	3	1+C0+1+C0+1	3
60-1/8"	X+X	13 5/8" - 24 7/8"	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	3	1+C0+1+C0+1	3
	X+Fix+X	25 3/8" - 45 3/8"	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	3	1+C0+1+C0+1	3
6'-0"	X+X	15 3/8" - 24 7/8"	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	3	1+C0+1+C0+1	3
	X+Fix+X	25 3/8" - 45 3/8"	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	3	1+C0+1+C0+1	3
7'-0"	X+X	15 3/8" - 28 3/8"	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	3	1+C0+1+C0+1	3
	custom	25 3/8" - 32 1/8"	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	3	1+C0+1+C0+1	3
	X+Fix+X	32 1/8" - 45 3/8"	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	3	1+C0+1+C0+1	3
8'-0"	X+X	" - 28 3/8"	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	3	1+C0+1+C0+1	3
	custom	25 3/8" - 37 1/8"	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	3	1+C0+1+C0+1	3
	X+Fix+X	37 1/8" - 53 3/8"	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	3	1+C0+1+C0+1	3
10'-0"	X+X	" - 28 3/8"	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	3	1+C0+1+C0+1	3
	custom	25 3/8" - 37 1/8"	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	3	1+C0+1+C0+1	3
	X+Fix+X	37 1/8" - 53 3/8"	1+C0+1+C0+1	2	2+C0+2+C0+2	2	2+C0+2+C0+2	2	2+C0+2+C0+2	2	2+C0+2+C0+2	3	1+C0+1+C0+1	3
11'-0 1/8"	X+X	" - 28 3/8"	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	3	1+C0+1+C0+1	3
	custom	28 3/8" - 37 1/8"	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	3	1+C0+1+C0+1	3
	X+Fix+X	37 1/8" - 53 3/8"	2+C0+2+C0+2	2	2+C0+2+C0+2	2	2+C0+2+C0+2	2	2+C0+2+C0+2	2	2+C0+2+C0+2	3	2+C0+2+C0+2	3
12'-0"	X+X	" - 31 3/8"	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	3	1+C0+1+C0+1	3
	custom	31 7/8" - 37 1/8"	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	2	1+C0+1+C0+1	3	1+C0+1+C0+1	3
	custom	37 1/8" - 38 3/8"	2+C0+2+C0+2	2	2+C0+2+C0+2	2	2+C0+2+C0+2	2	2+C0+2+C0+2	2	2+C0+2+C0+2	3	2+C0+2+C0+2	3

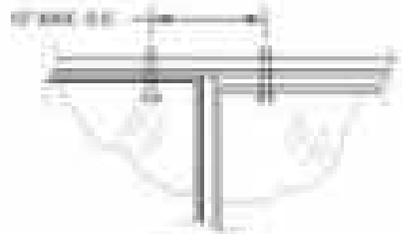
*1 MAX. SASH WIDTH IN EQUAL-LEG WINDOWS = OVERALL WIDTH - 25 5/8"
2

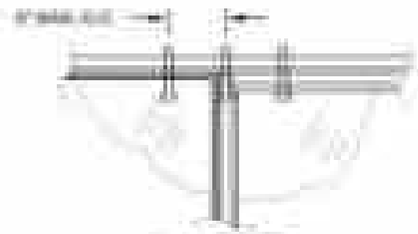
**1 MIN. SASH WIDTH IN EQUAL-LEG WINDOWS = OVERALL WIDTH - 17 7/8"
2

NOTES

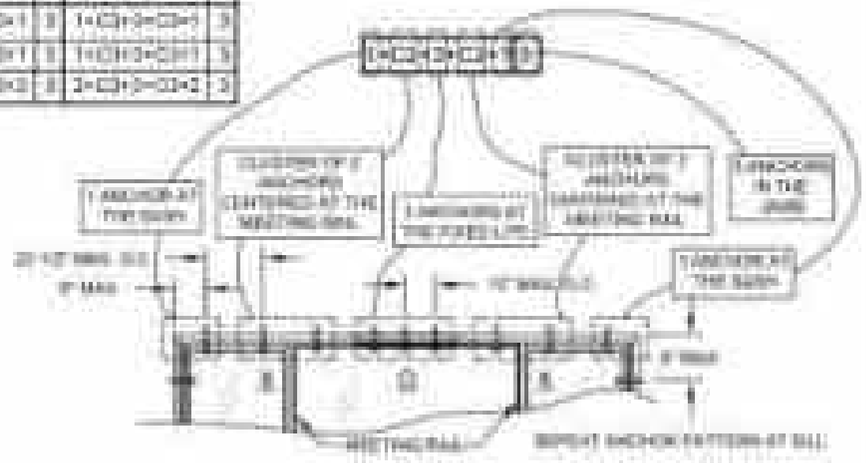
1) OVERALL (TOP TO TOP) DIMENSIONS SHOWN FOR EQUAL-LEG WINDOWS. SUBTRACT ¼" FROM THE TOP TO TOP DIMENSION IN THE TABLE TO DETERMINE THE SPECIFIC SIZE.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.





GUIDE TO USING ANCHOR QUANTITY TABLES FOR XO8 WINDOWS



PGT

ALUMINUM HORIZONTAL ROLLER

ANCHOR QUANTITY TABLES

XO8

REVISIONS

DRAWN BY

CHECKED BY

DATE

SCALE

SHEET

STATE OF FLORIDA
PROFESSIONAL ENGINEER

Table 6.21

Output Width	Sash Configuration	Sash Width Range (in)	Anchor Quantities for XOX Windows — Plans Types: 9, 10,19 — Meeting Rail: Standard											
			21 1/8" Overall Hgt		33" Overall Hgt		77" Overall Hgt		49" Overall Hgt		65" Overall Hgt		93" Overall Hgt	
			Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
84"	36-12-36	12.000 - 12.063	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2
	36-12-36	12.063 - 15.000	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2
96"	36-12-36	12.000 - 12.500	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2
	36-12-36	12.500 - 18.875	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2
99-1/8"	36-12-36	12.000 - 14.000	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2
	36-12-36	14.094 - 18.250	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2
111"	36-12-36	12.000 - 16.063	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2
	36-12-36	16.063 - 20.875	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2
120"	36-12-36	12.000 - 20.063	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2
	custom	20.063 - 22.188	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2
	36-12-36	22.188 - 26.875	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2
132-1/8"	36-12-36	" - 24.063	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2
	custom	24.063 - 26.188	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2
	36-12-36	26.188 - 31.249	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2
144"	36-12-36	" - 24.063	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2
	custom	24.063 - 27.188	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2
	36-12-36	27.188 - 32.875	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2
156"	36-12-36	" - 28.063	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2
	custom	28.063 - 32.188	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2
	36-12-36	32.188 - 38.875	1+CE>1+CE+1	2	1+CE>1+CE+1	2	2+CE>2+CE+2	4	2+CE>2+CE+2	4	2+CE>2+CE+2	4	2+CE>2+CE+2	4
168"	36-12-36	" - 28.063	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2
	custom	28.063 - 32.188	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2	1+CE>1+CE+1	2
	36-12-36	32.188 - 38.875	1+CE>1+CE+1	2	2+CE>2+CE+2	4	2+CE>2+CE+2	4	2+CE>2+CE+2	4	2+CE>2+CE+2	4	2+CE>2+CE+2	4

(1) MIN. SASH WIDTH (F) FOR WINDOWS = (OVERALL WIDTH - 36.125) / 2

(2) MAX. SASH WIDTH (F) FOR EQUAL LEG WINDOWS = (OVERALL WIDTH - 37.125) / 2

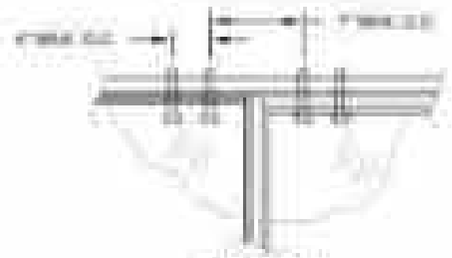
NOTES:

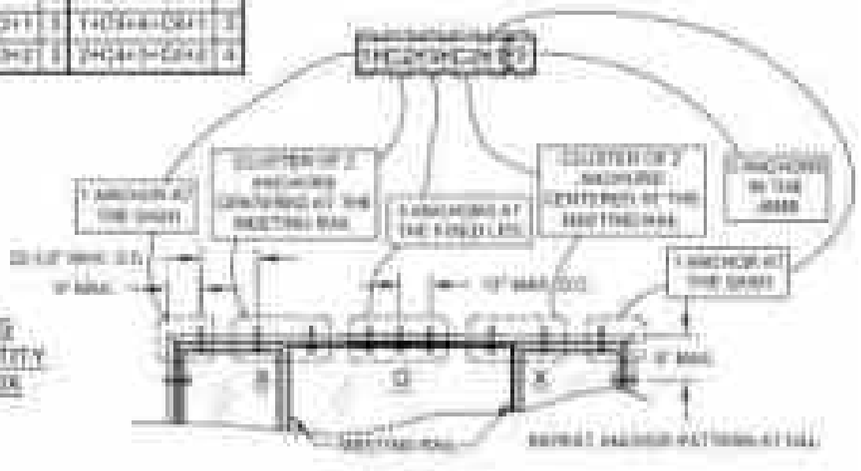
1) OVERALL (TOP TO TIP) DIMENSIONS SHOWN FOR EQUAL LEG WINDOWS. SUBTRACT 1" FROM THE TIP TO TIP DIMENSION AT THE TABLE TO DETERMINE THE UNEQUAL SIDE.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.









GUIDE TO USING ANCHOR QUANTITY TABLES FOR XOX WINDOWS:

PGT

ALUMINUM HORIZONTAL ROLLER

ANCHOR QUANTITY TABLES

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PROFESSIONAL ENGINEER

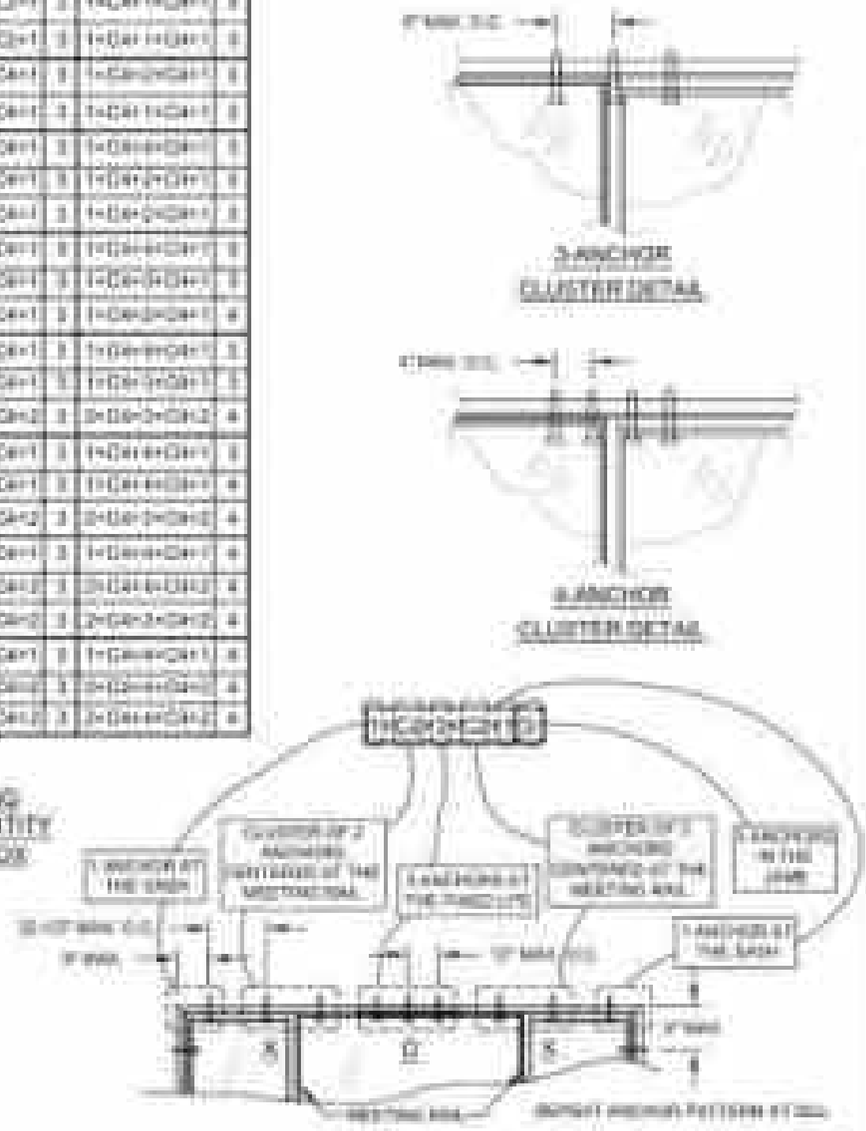
Table 2C

Overall Width	Sash Configuration	Sash Width Range (in)	Anchor Quantities for XO/X Windows — Glass Types: 9 & 10, Meeting Rail: Heavy-Duty											
			21 1/8" Overall Hgt.		27" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		59" Overall Hgt.		63" Overall Hgt.	
			Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
48"	3'-0"x3'-0"	15.250" - 15.500"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
	3'-1"x3'-0"	15.750" - 15.938"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
49"	3'-1"x3'-0"	15.938" - 16.000"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
	3'-2"x3'-0"	16.000" - 16.375"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
52 1/8"	3'-2"x3'-0"	16.250" - 16.500"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
	3'-3"x3'-0"	16.500" - 16.875"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
61"	3'-3"x3'-0"	16.750" - 17.000"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
	3'-4"x3'-0"	17.000" - 17.375"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
70"	3'-4"x3'-0"	17.250" - 17.500"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
	custom	17.500" - 17.750"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
	3'-5"x3'-0"	17.500" - 17.875"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
82 1/8"	3'-5"x3'-0"	17.750" - 18.000"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
	custom	18.000" - 18.250"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
	3'-6"x3'-0"	18.000" - 18.375"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
85"	3'-6"x3'-0"	18.250" - 18.500"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
	custom	18.500" - 18.750"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
	3'-7"x3'-0"	18.500" - 18.875"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
94 1/8"	3'-7"x3'-0"	18.750" - 19.000"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
	custom	19.000" - 19.250"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
	3'-8"x3'-0"	19.000" - 19.375"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
97"	3'-8"x3'-0"	19.250" - 19.500"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
	custom	19.500" - 19.750"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
	3'-9"x3'-0"	19.500" - 19.875"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
106"	3'-9"x3'-0"	19.750" - 20.000"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
	custom	20.000" - 20.250"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
	3'-10"x3'-0"	20.000" - 20.375"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
110 5/8"	3'-10"x3'-0"	20.250" - 20.500"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
	custom	20.500" - 20.750"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
	3'-11"x3'-0"	20.500" - 20.875"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
118"	3'-11"x3'-0"	20.750" - 21.000"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
	custom	21.000" - 21.250"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2
	4'-0"x3'-0"	21.000" - 21.375"	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2

(1) MIN. SASH WIDTH (T) FOR XO/X WINDOWS = (OVERALL WIDTH - 35/8").
2

(2) MIN. SASH HEIGHT (H) FOR XO/X WINDOWS = (OVERALL HEIGHT - 3").
2

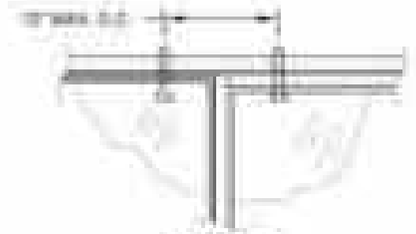
GUIDE TO USING ANCHOR QUANTITY TABLES FOR XO/X WINDOWS



NOTES:

1) OVERALL (TOP TO TOP) DIMENSIONS SHOWN TYPE EQUAL ED WINDOWS. SUBTRACT 1" FROM THE TOP TO TOP DIMENSION IN THE TABLE TO DETERMINE THE OPENING SIZE.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SIZE.



PGT

ALUMINUM HORIZONTAL ROLLER

INSTALLATION FLANGE

XO/X WINDOWS

ANTHONY LYNN MILLER

No. 39705

STATE OF FLORIDA

PROFESSIONAL ENGINEER

INSTALLATION OPTION 1
ANCHORED THROUGH FRAME INTO
SUBSTRATE (NOT INTO CONCRETE SLAB)

INSTALLATION OPTION 2
ANCHORED THROUGH FRAME
DIRECTLY INTO CONCRETE SLAB

INSTALLATION OPTION 3
ANCHORED THROUGH FRAME INTO
SUBSTRATE (NOT INTO CONCRETE SLAB)

HORIZONTAL SECTION A-A

INSTALLATION OPTION 4
ANCHORED THROUGH FRAME INTO METAL

HORIZONTAL SECTION C-C

VERTICAL SECTION B-B

INSTALLATION NOTES:

Anchor	Substrate	Min. Edge Distance	Min. Embedment
#12 or #14 SMS Certain Teed or #8 Hex #SD SD	Aluminum Fin	5/16"	1 1/2"
	Aluminum 6063-T5 min.	5/16"	1 1/2"
	Fin Steel	5/16"	1 1/2"
	Steel Plate 12 ga min.	5/16"	5/16" (1/2 DIA.)
1/4" #8 SS Calsiflex	Unreinforced Min. 2,500 PSI Min.	4 1/2"	3 1/4"
	Concrete min. 3,000 psi	4"	3 1/4"
1/4" Dia #8 Apex Cord	Concrete min. 3,000 psi	4 1/2"	3 1/4"
	Masonry Min. 2,500 PSI	4"	3 1/4"
1/4" Dia Titen	Concrete min. 3,000 psi	3 1/2"	3 1/4"
	Unreinforced Min. 2,500 PSI	4 1/2"	3 1/4"

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ALUMINUM HORIZONTAL ROLLER
METAL FLANGE FRAME

INSTALLATION OPTION 5

HORIZONTAL SECTION A-A

INSTALLATION OPTION 6

INSTALLATION OPTION 7

HORIZONTAL SECTION C-C

VERTICAL SECTION B-B

INSTALLATION NOTES:

Section	Schematic	Min. Sight Reveal	Min. G.C. Bevel
2-1/8" x .125" Wide Nail		1/16"	0°
2-1/8" x .125" Concave Nail		3/16"	0°
2-1/8" x .125" Wide Nail		3/16"	0°
#10 S-MS (Contact Glazer at 1/4 - 1/8 in #8 SMS)		1/2"	0°
		0.063" Aluminum (GBCTT) min	0.125"	0°
		1/16" x 3/4" Strip	0.125"	0°
		0.063" (16 GA) Steel Strip	0.125"	0°

1) MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
2) SCR FASTENERS SHALL BE MANUFACTURED FROM TYPE 304 OR 305 STAINLESS STEEL PER ASTM A240.
3) ALL DIMENSIONS TYPICAL N/S APPLICABLE

PGT

ALUMINUM HORIZONTAL ROLLER

INSTALLATION INTEGRAL FIN

IDS ROWAN

PGT WINDOWS

PGT INDUSTRIES

1070 FLORIDA CENTRAL PARKWAY

LONGWOOD, FL 32750

PHONE: 941-480-1600

FAX: 941-480-1664

WWW.PGTINDUSTRIES.COM

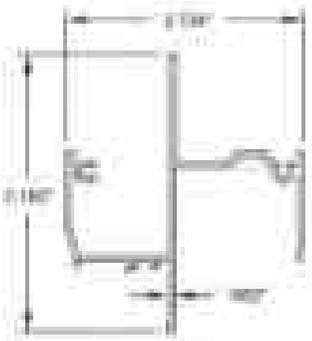
ANTHONY LYNN MILLER

No. 38556

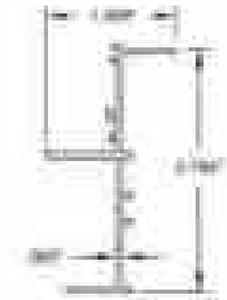
STATE OF FLORIDA

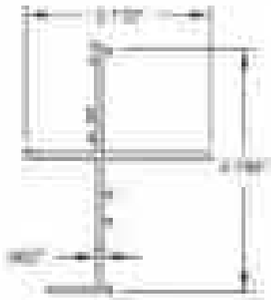
PROFESSIONAL ENGINEER

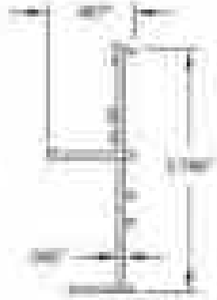


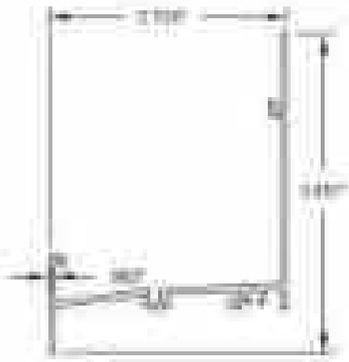












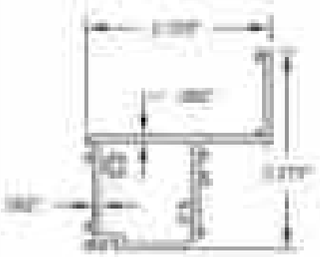


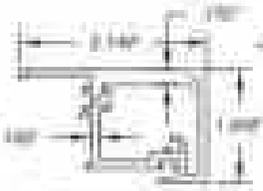


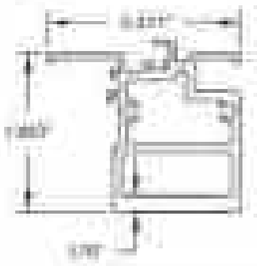


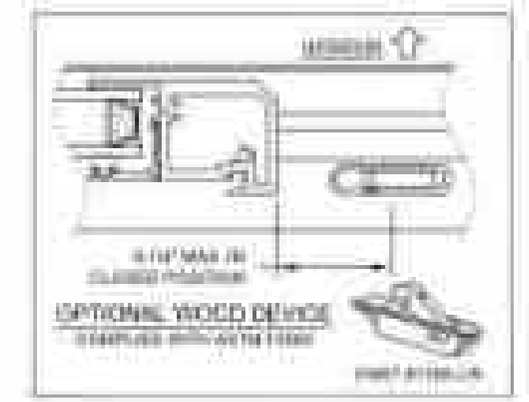











WINDOW
OPTIONAL WOOD DEVICE



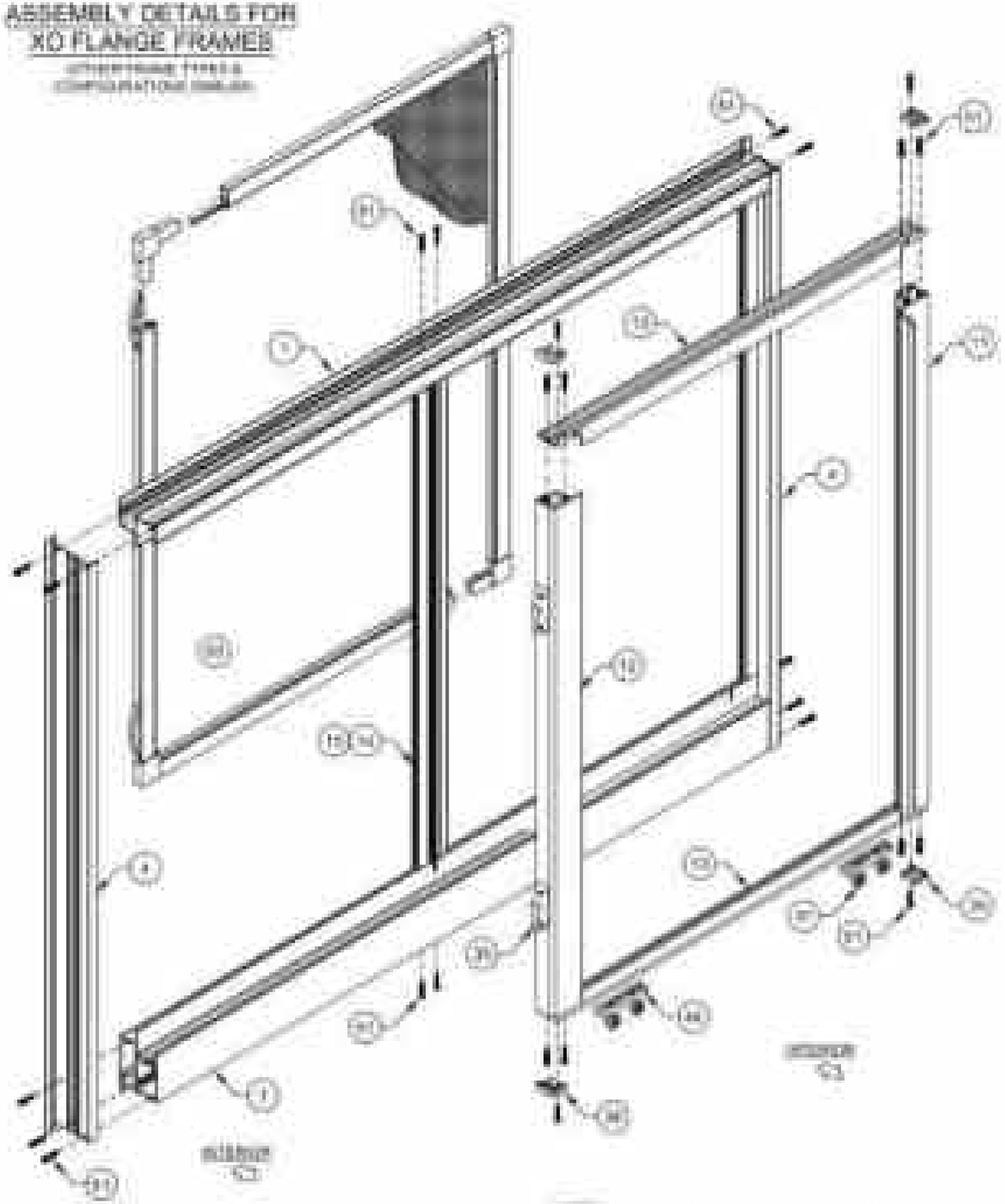






Item #	Part #	Description	Material
1	634149	Main, Flange Frame	Alum. 6063-T6
2	634439	Main, Integral Fin Frame	Alum. 6063-T6
3	634440	Head, Expanding Frame	Alum. 6063-T6
4	634931	Jamb, Flange Frame	Alum. 6063-T6
5	634917	Jamb, Integral Fin Frame	Alum. 6063-T6
6	634929	Jamb, Expanding Frame	Alum. 6063-T6
7	634935	Sill, Flange Frame	Alum. 6063-T6
8	634936	Sill, Integral Fin Frame	Alum. 6063-T6
9	634937	Sill, Expanding Frame	Alum. 6063-T6
10	634938	Sill Adapter	Alum. 6063-T6
11	634442	Interl. Pull Rail	Alum. 6063-T6
12	634446	Interl. Lock Rail	Alum. 6105-T5, T6
13	634441	Interl. Top & Bottom Rail	Alum. 6063-T6
14	634437	MC Meeting Rail	Alum. 6063-T6
15	634445	Ext. Meeting Rail	Alum. 6105-T5, T6
16	634447	Screen Retainer	Alum. 6063-T6
17	634931	Installation Hole Cover	Alum. 6063-T6
18	641250	Weatherstrip Adapter	Alum. 6063-T6
19	634432	Sill Track	Alum. 6063-T6
20	633101	Weatherstrip Slip	Vinyl
21A	634934	MC Bead	Alum. 6063-T6
21B	634917	MC Snap Bead	Alum. 6063-T6
22	634435	7/16" Lami Glaz. Bead	Alum. 6063-T6
24	634915	5/16" Lami Glaz. Bead	Alum. 6063-T6
30	PP247	Glazing Bead, Rub Vinyl for MI2017 & MI2018	Vinyl
31	PP245	Glazing Bead, Rub Vinyl for MI2015 & MI2011	Vinyl
32	713938	Wash cavity Block 3/32" x 1/4" x 1"	Neoprene
33A	711124	Lami IC Setting Block 7/8" x 3/4" x 1-1/16"	Neoprene
33B	634614	IG Snap Setting Block	Vinyl
35	734840	Sweep Latch	Cast Zinc
36	71298	Shoot Hole Cover	Vinyl
37	41702	Hole Plug	Vinyl
38	734921	Guard Rail Cover, 3/4 & Mnt.	Vinyl
39	734950	PVC Rail End Cap	Vinyl
40	734940	Roller Housing & Insert Guide	Vinyl
41	734932	Roller Wheels	Stainless Steel
42	734934	Lami Top Rail Gasket, 3/4 & Mnt.	Polyethylene
43	734935	Lami Bott Rail Gasket, 3/4 & Mnt.	Polyethylene
44	734937	Frame Header Gasket, 3/4 & Mnt.	Polyethylene
45	734939	Frame Sill Gasket, 3/4 & Mnt.	Polyethylene
46	734941	Meeting Rail Gasket	Polyethylene
50		Weatherstrip, .062" x .170", Fin Seal @ Exter.	
51		Weatherstrip, .187" x .370", Fin Seal @ MR	
52	41729	Blade Vinyl	
53	713938PP032	3/16" x 7/8" SS, Fin Seal (Installation Screw)	Stainless Steel
61	707434	#8 x 1" Csk Phl SMS (Fabric & Mesh Assembly)	Stainless Steel
62	-	Aluminum Screen with Fiberglass Mesh	Fabric
70	-	Weatherstrip Installation #632 PPS	See Detail 19 for Materials
71	-	Gasket Rain Sleeve 1/8"	
72	-	Gasket Dividers Spacer	
73	-	Gasket IG Edge Spacer	
74	-	Seal, PVC, Wool, HDC or EE, TPEE Backmastering	Silicone

ASSEMBLY DETAILS FOR XO FLANGE FRAMES



NOTES:
1. CALL DRAWING TO USE CHOICE AND/OR SEALANT.
2. SOME PARTS/OPTIONS NOT SHOWN FOR DRAWING CLARITY.

PGT
ALUMINUM HORIZONTAL ROLLER
SCALE: 3" = 1'-0"
SHEET NO. 1 OF 2