Engineering Evaluation Report #HR7710-03242026

Prepared by:
A. Lynn Miller, P.E.
3400 Precision Dr.
N. Venice, FL 34275
(941) 480-1600
Florida Registration: #29296

Manufacturer:
PGT Custom Windows & Doors
3400 Precision Dr.
N. Venice, FL 34275

Product Description:
HR7710A Impact-resistant Aluminum Horizontal Roller Window, (LM), FL-29699

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

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

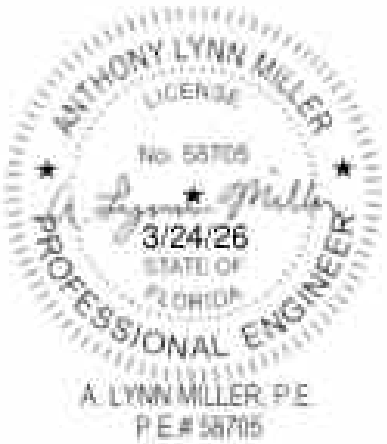
Supporting Technical Documentation:
1. Approval document: drawing number HR7710A-FPA-IR, signed and sealed by A. Lynn Miller, P.E.
2. Test Reports - FTL 18-7891, 19-8967 & 20-2167, signed and sealed by Idalmis Ortega, P.E.
Fenestration Testing Laboratories, Nokomis, FL 34275
NOK-0140 & NOK-0141, signed and sealed by Idalmis Ortega, P.E.

QAI Laboratories, North Venice, 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 E1300-09, refer to approval document for glazing details.
- This product is rated to be used in the HVHZ.
- This product is impact resistant and does not require impact protection in wind borne debris regions.
- Frame and panel material to be extruded Aluminum.
- Units must be installed in accordance with approval document, HR7710-FPA-IR.



SERIES HS/TS/A IMPACT RESISTANT HORIZONTAL ROLLER WINDOW

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

2) EXIT TYPE ARE NOT REQUIRED WHEN USED IN NON-HEARING SERVICE REGIONS. FOR INSULATED GLASS INSTALLATIONS WHICH ARE IN THE HVHZ, THE OUTBOARD LITE CONFIGURE MUST BE TEMPERED.

3) MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, ASTM C90 CONCRETE MASONRY UNITS AND CONCRETE WITH MIN. f'c=2 PER ANCHOR TYPE.

4) ALL WOOD BUCKS USED THAN 1 1/2" THICK ARE TO BE CONSIDERED AS SHIM APPLYING. (A WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DIRECTLY AS (1) ONE 1 1/2" THICK OR GREATER, (1) AND (2) BUCKS WHEN USED SHALL BE DESIGNED AND SECURED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER, (E.O.R.) OR ARCHITECT OF RECORD (A.O.R.).

5) SHIMMING REQUIRED TO BASE SECTIONAL SHALL BE SET AT NO LESS THAN ONE (1) PER EACH JAMB AND SPACED AT SUCH LENGTH TO ACHIEVE REQUIRED MIN. EMBEDMENT. (E.L. MASONRY MUST BE REMOVED) OVERALL SEALING & FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

6) 1/4" SHIM SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS (WHERE OF TRANSFERRING APPLIED LOADS FOR INTERNAL FIN FRAMES INSTALL SHIMS AT MAX. 60" O.C.

7) DESIGN PROCEDURES:
A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL & CYCLE TESTING AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON ANCHOR PULL PROGRAMS, STRUCTURAL & CYCLE TESTING AND GLASS PER ASTM E1300.
C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.

8) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CORRESPONDING TO THE MEASURED NEGATIVE PRESSURE. THE (0.) ON STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

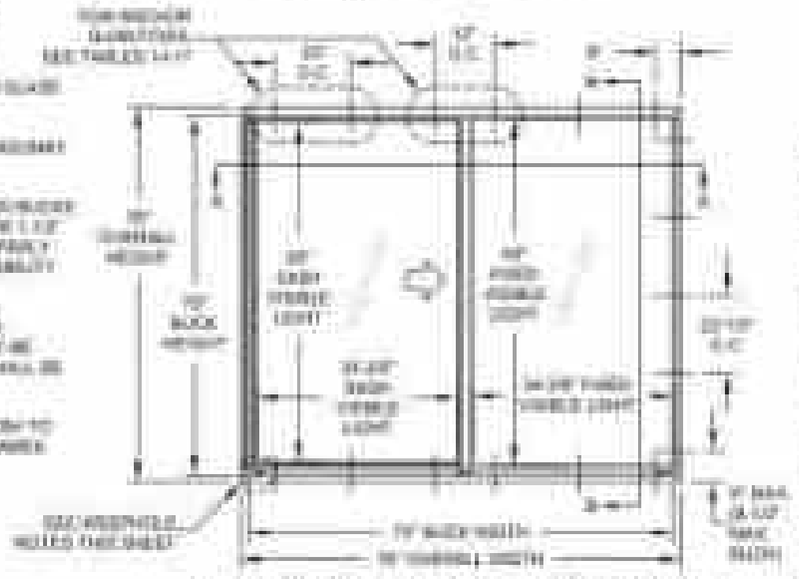
9) MATERIAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE.

10) REFER TO CURRENT FLORIDA BUILDING CODE FOR EARTHQUAKE SURFACE MOUNTING NOTES.

11) FRAME FLANGES ON INTERIOR, END MAY BE TRIMMED AS REQ'D TO REMOVE AN EQUAL LEG FRAME. THE EXPOSED ALUMINUM EDGE MUST BE PAINTED TO PROTECT AGAINST CORROSION.

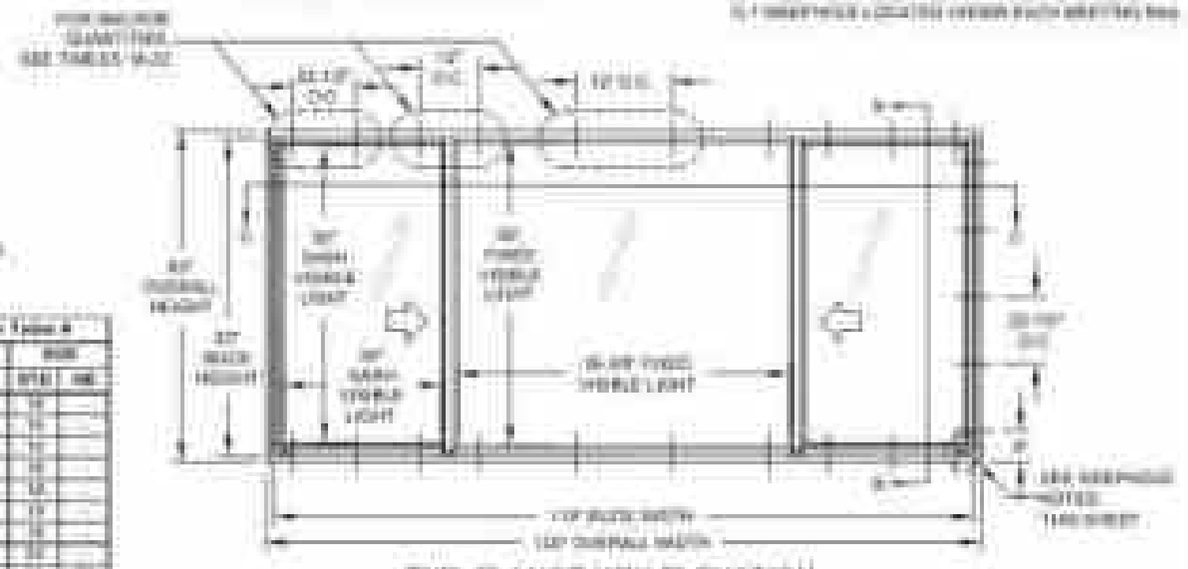
Wave Type	Description (Listed from Exterior to Interior)	DP Table 9				Anchor Table 4			
		XO / OX		XXX		XO / OX		XXX	
		STD	HD	STD	HD	STD	HD	STD	HD
1	6'0 LH - 3067 FIXED - 3067 RH	+		+		14		14	
2	3'0" RH - 3067 FIXED - 3067 LH	+		+		14		14	
3	3'0 RH - 3067 FIXED - 3067 RH	+		+		14		14	
4	3'0 RH - 3067 FIXED - 3067 FIXED - 3067 FIXED - 3067 LH	+		+		14		14	
5	3'0 RH - 3067 FIXED - 3067 FIXED - 3067 FIXED - 3067 LH	+		+		14		14	
6	3'0 RH - 3067 FIXED - 3067 FIXED - 3067 FIXED - 3067 LH	+		+		14		14	
7	3'0 RH - 3067 FIXED - 3067 FIXED - 3067 FIXED - 3067 LH	+		+		14		14	
8	3'0 RH - 3067 FIXED - 3067 LH	+	+	+	+	14	14	14	14
9	3'0 RH - 3067 FIXED - 3067 LH	+	+	+	+	14	14	14	14
10	3'0 RH - 3067 FIXED - 3067 FIXED - 3067 FIXED - 3067 LH	+	+	+	+	14	14	14	14
11	3'0 RH - 3067 FIXED - 3067 FIXED - 3067 FIXED - 3067 LH	+	+	+	+	14	14	14	14
12	3'0 RH - 3067 FIXED - 3067 FIXED - 3067 FIXED - 3067 LH	+	+	+	+	14	14	14	14
13	3'0 RH - 3067 FIXED - 3067 FIXED - 3067 FIXED - 3067 LH	+	+	+	+	14	14	14	14
14	3'0 RH - 3067 FIXED - 3067 FIXED - 3067 FIXED - 3067 LH	+	+	+	+	14	14	14	14

XO = HURRICANE RESISTANCE® SERIES AWNING BY HURRICANE AMERICA, INC.
PVB = HURRICANE WINDOWS® PVB INTERLAYER BY HURRICANE AMERICA, INC.
AN = ANNEALED
HS = HEAT STRENGTHENED
TP = TEMPERED



TYP. FLANGE XO ELEVATION (QX SIM.)

MAX. DIMENSIONS ALLOWED SHOWN



TYP. FLANGE XOX ELEVATION

MAX. DIMENSIONS ALLOWED SHOWN

NOTE: UNEQUAL SPLITS ALLOWED PROVIDED MIN/MAX VISIBLE LIGHT DIMENSIONS ARE NOT EXCEED

SEE SHEET ENTRY INTERNAL FIN INSTALLATION TYPE B SPACING

GENERAL NOTES	1
ELEVATIONS	1
GLASS TYPES & TABLE	1
DESIGN PROCEDURES	2-12
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EXTRUSION PROFILES	26
CORNER ASSEMBLY	27
PARTS LIST	28

DESIGN PRESSURE RATING	IMPACT RATING
GLASS TYPE (GLASS TYPE) SEE TABLES 2-13	LARGE & SMALL MISSILE IMPACT RESISTANT

USER INSTRUCTIONS:

1) DETERMINE THE SIZE SPECIAL WINDOW DESIGN PRESSURE REQUIREMENT FROM ASCE 7.

2) REFERRING TO AP (LOCAL) OPTION (TABLE 1), WINDOW CONFIGURATION AND SIZE, DETERMINE YOUR WINDOWS DESIGN PRESSURE FROM TABLES 2-13. IT MUST EQUAL OR EXCEED THE DESIGN PRESSURE REQUIREMENT FOR THE APPROVED OPENING OBTAINED IN STEP 1.

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

4) INSTALL AS PER SHEET 23 FOR FLANGE INSTALLATION, SHEET 24 FOR FIN (OR) LEG INSTALLATION OR SHEET 25 FOR INTERNAL FIN INSTALLATION.

NOTE: DESIGN PRESSURE RATING DETERMINATION IS THE SAME PROCESS FOR ALL FRAME TYPES (FLANGE, INTERNAL FIN OR EXTERNAL LEGGED).

WEEPHOLE NOTES:

1) 1/4" X 3/8" WITH PLASTIC BAFFLE
2) 1 WEEPHOLE LOCATED 6" FROM EACH END
3) 1 WEEPHOLE LOCATED UNDER EACH MULLION, MAX

PGT

ALUM. HORIZONTAL ROLLER WINDOW ASSEMBLY

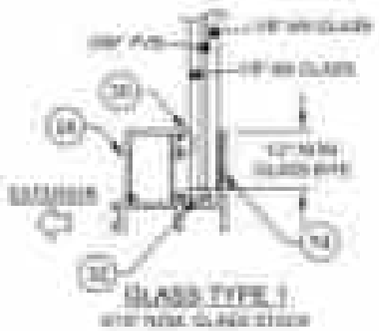
GENERAL NOTES & ELEVATION

DRAWN BY: [illegible] | DATE: 12/14/20 | SCALE: 1/2" = 1'-0"

REGISTERED ARCHITECT
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

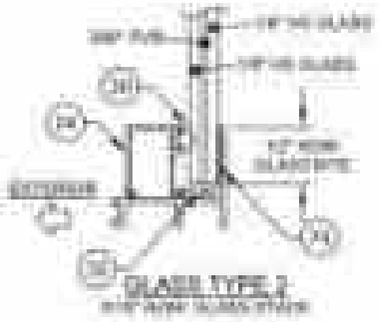


GLASS TYPE 1

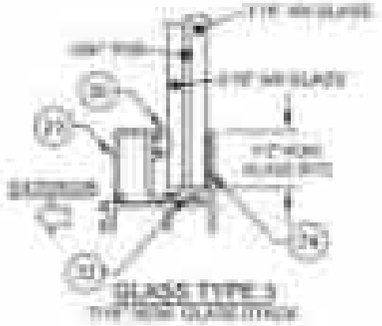
TABLE 2

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	-69.0
29"	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+66.2	-69.0
33"	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+66.2	-69.0
49"	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+66.2	-69.0
61"	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+66.2	-69.0
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*

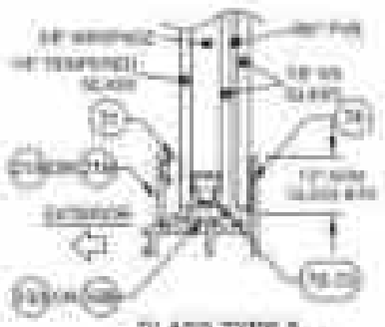
*SEE FOR GLASS TYPES 3, 5 &7



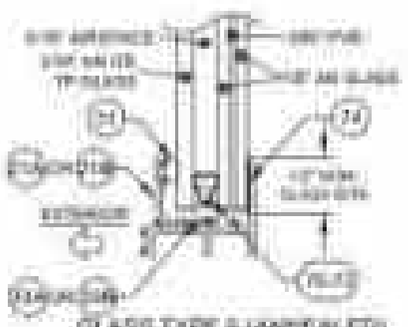
GLASS TYPE 2



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 REMOVABLE WINDBARS. 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

ALUM. HORIZONTAL ROLLER WINDOW (LM)

DESIGN PRESSURE TABLES

SCALE: NTS

DRAWN BY: LOGAN YODER

DATE: 03/24/20

SHEET NO.: 2 OF 2

REVISIONS

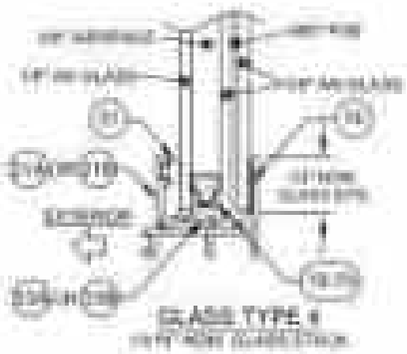
PROJECT NO.

PROFESSIONAL ENGINEER

STATE OF FLORIDA

TABLE A

Overall Width	Design Pressure (lbs/ft²) for XO & OX Windows									
	Glass Type: 4 Meeting Rail: Standard									
	21-1/8" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		61" Overall Hgt.		73" Overall Hgt.	
29"	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
33"	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
37"	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
49"	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0
61"	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-76.6
67"	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-71.3
73"	+55.0	-60.0	+55.0	-60.0	+55.0	-60.0	+55.0	-77.1	+55.0	-63.6

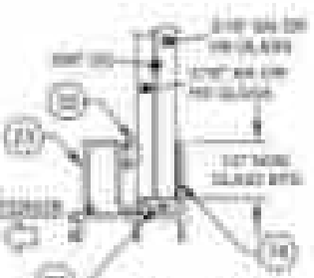


GLASS TYPE 4

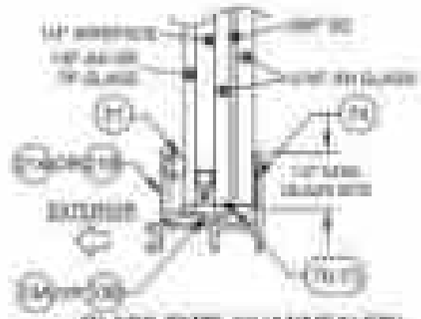
TABLE A

Overall Width	Design Pressure (lbs/ft²) for XO & OX Windows									
	Glass Types: 8-10 Meeting Rail: Standard									
	21-1/8" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		61" Overall Hgt.		73" Overall Hgt.	
29"	+80.0	-110.0	+80.0	-110.0	+80.0	-110.0	+80.0	-110.0	+80.0	-110.0
33"	+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	-151.9*
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*

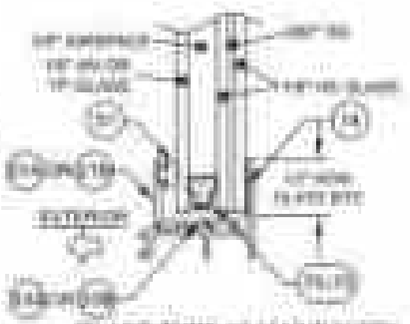
* 1/2 EGRESS GLASS TYPES 8, 10, 14 & 15



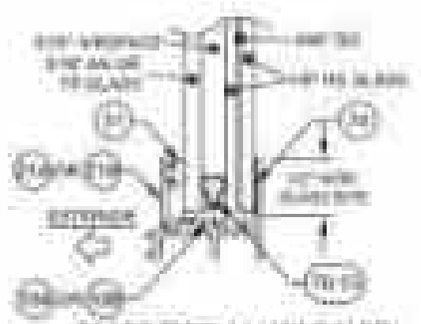
GLASS TYPE 8 (ANNEALED)
GLASS TYPE 9 (HEAT STRENGTHENED)



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



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



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

GLASS TYPES 8 - 15
MAY NOT BE USED
WITH INTEGRAL FIN
FRAMES

NOTES

1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN FOR INTEGRAL FIN AND NAILING FLANGE. REFER TO CHART "I" FROM THE TIP TO TIP DIMENSION IN THIS TABLE TO DETERMINE THE WINDOW SIZE.

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

PGT

ALUM. HORIZONTAL ROLLING WINDOW (LMI) 2241FB

DESIGN PRESSURE TABLES

SECTION

22 of 25

REVISIONS

DATE

BY

DESCRIPTION

PRODUCT APPROVAL

STATE OF FLORIDA

PROFESSIONAL ENGINEER

Table # 6

Overall Width	Design Pressure (lbs/ft²) for XO & OX Windows											
	21-1/8" Overall Hgt.		33" Overall Hgt.		49" Overall Hgt.		65" Overall Hgt.		81" Overall Hgt.		97" 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

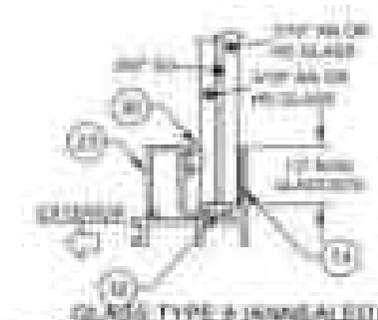
Table # 7

Overall Width	Design Pressure (lbs/ft²) for XO & OX Windows											
	33-1/8" Overall Hgt.		33" Overall Hgt.		49" Overall Hgt.		65" Overall Hgt.		81" Overall Hgt.		97" Overall Hgt.	
25"	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
29"	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
37"	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
49"	+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"	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0
67"	+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"	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0	+60.0	-100.0

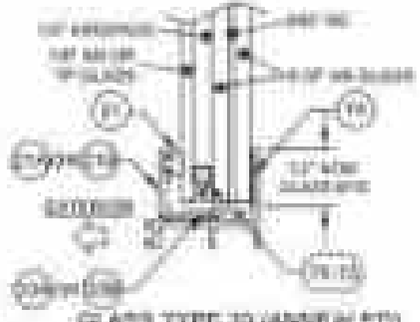
Glass Types: 9 & 12-15
Meeting Rail: Heavy-Duty

A GLASS TYPE 14 - 100.0
B GLASS TYPE 15 - 110.0
C GLASS TYPE 16 - 120.0

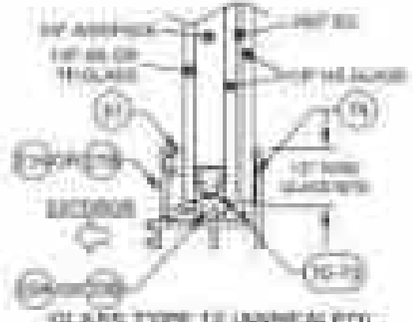
GLASS TYPES 8 - 15
MAY NOT BE USED
WITH INTERIOR PIN
PRIVACY



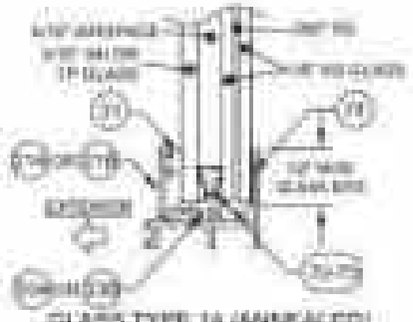
GLASS TYPE 8 (ANNEALED)
GLASS TYPE 9 (HEAT STRENGTHENED)



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 TOP) DIMENSIONS SHOWN FOR EQUAL LEG MEETING. SUBTRACT 1" FROM THE TOP TO TOP DIMENSION AT THE TABLE TO OBTAIN THE UNEQUAL SIDE.

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

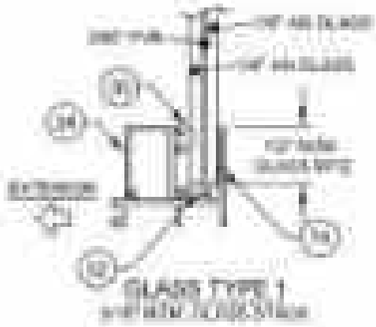
PGT
ALUMI-HORIZONTAL ROLLER WINDOW (LM1)
DESIGN PRESSURE TABLES
LOGAN WORKS
DATE
SCALE
SHEET

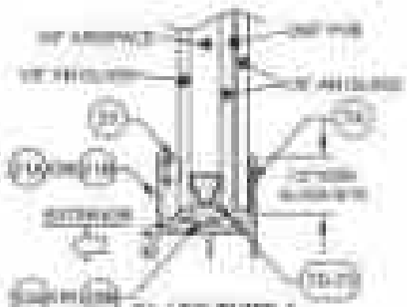
TABLE 1

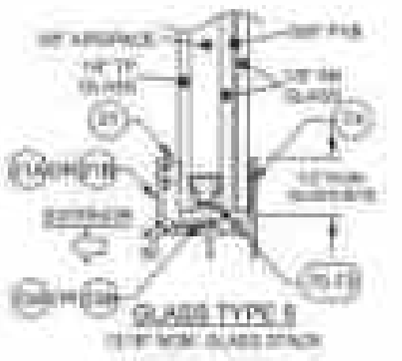
Overall Width	Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft²) for XOX Windows — Glass Types: 1, 4 & 5 — Meeting Rail: Standard											
			21' 1/8" Overall Hgt.		25' Overall Hgt.		31' Overall Hgt.		49' Overall Hgt.		55' Overall Hgt.		63' Overall Hgt.	
44"	25%-25%-25%	12.626 - 13.062	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0
	25%-25%-25%	12.063 - 15.308	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0
48"	25%-25%-25%	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
	25%-25%-25%	13.303 - 16.875	+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"	25%-25%-25%	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
	25%-25%-25%	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"	25%-25%-25%	13.036 - 16.302	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0
	25%-25%-25%	16.303 - 20.875	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0
70"	25%-25%-25%	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	23.063 - 23.100	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0
	25%-25%-25%	23.196 - 29.875	+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"	25%-25%-25%	** - 24.360	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+54.2	-54.2	+53.9	-53.9	+48.7	-48.7
	custom	24.083 - 26.199	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+57.9	-57.9
	25%-25%-25%	26.196 - 31.038	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+55.5	-55.5
97"	25%-25%-25%	** - 25.302	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+58.2	-58.2	+53.9	-53.9	+48.7	-48.7
	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	+58.4	-58.4
109"	25%-25%-25%	** - 25.302	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+58.2	-58.2	+53.9	-53.9	+48.7	-48.7
	custom	25.303 - 29.186	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+61.4	-61.4
	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	+62.5	-62.5
120"	25%-25%-25%	** - 31.038	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+58.2	-58.2	+53.9	-53.9	+48.7	-48.7

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

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







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

ALUM. HORIZONTAL ROLLER WINDOW (LMI) 2024-28

DESIGN PRESSURE TABLES

LOGAN HOOKER

PRODUCT APPROVAL

SHEET NO. 22 OF 31

REVISIONS

INTERNATIONAL BUILDING CODE — No. 32705 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

TABLE 1

Overall Width	Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft²) for XOX Windows — Glass Types: 2, 3 — Meeting Rail: Standard											
			21'-11⅝" Overall Hgt.		29" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		59" Overall Hgt.		63" Overall Hgt.	
41"	⅓-⅓-⅓	12.039 - 13.062	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	⅓-⅓-⅓	12.063 - 16.508	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
49"	⅓-⅓-⅓	12.039 - 13.302	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	⅓-⅓-⅓	13.303 - 16.675	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
53-1/8"	⅓-⅓-⅓	12.039 - 14.539	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	⅓-⅓-⅓	14.334 - 16.062	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
61"	⅓-⅓-⅓	12.039 - 16.302	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	⅓-⅓-⅓	16.303 - 20.925	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
73"	⅓-⅓-⅓	12.039 - 20.052	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	custom	20.053 - 22.185	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	⅓-⅓-⅓	22.186 - 25.675	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
85-1/8"	⅓-⅓-⅓	" - 24.562	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	custom	24.563 - 26.185	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	⅓-⅓-⅓	26.186 - 31.049	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
97"	⅓-⅓-⅓	" - 28.302	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	custom	28.303 - 27.185	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	⅓-⅓-⅓	27.186 - 32.675	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
109"	⅓-⅓-⅓	" - 28.302	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	custom	28.303 - 30.185	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	⅓-⅓-⅓	30.186 - 38.675	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
113-5/8"	⅓-⅓-⅓	" - 29.803	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	custom	29.804 - 33.185	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	⅓-⅓-⅓	33.186 - 38.222	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
121"	⅓-⅓-⅓	" - 31.062	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	custom	31.063 - 33.185	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	custom	33.186 - 38.222	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0

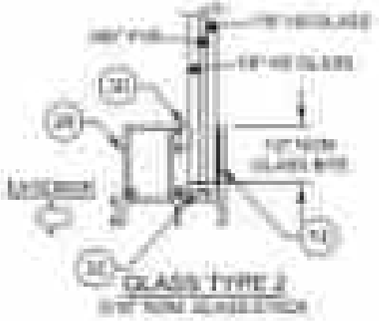
** MIN. SASH WIDTH FOR A SINGLE WINDOW = $\frac{\text{DESIGN RATING - 39.938}}{2}$

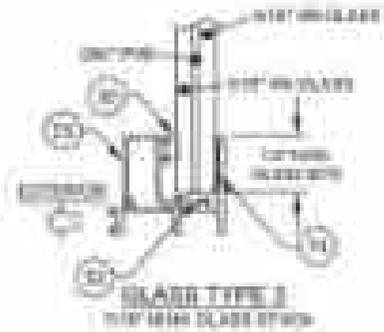
** MIN. SASH WIDTH FOR A EQUAL LEG WINDOW = $\frac{\text{DESIGN RATING - 37.938}}{2}$

NOTES

1) OVERALL (TOP TO TOP) DIMENSIONS SHOWN FOR INTERPOLATION AND EQUAL LEG WINDOWS. SUBTRACT ¼" FROM TABLE VALUE TO DETERMINE MAXIMUM SIZE.

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





PGT

ALUM. HORIZONTAL ROLLER WINDOW (LMI)

DESIGN PRESSURE TABLES

LOGAN HOOKE

SHEET NUMBER

A-DP-11

WINDOW

STATE OF FLORIDA

PRODUCT APPROVAL

No. 39705

PROFESSIONAL ENGINEER

TABLE 1C

Overall Width	Stack 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	
41"	1/3+1/3+1/3	12.039 - 13.052	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	1/3+1/3+1/3	13.053 - 15.058	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
49"	1/3+1/3+1/3	12.039 - 13.302	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	1/3+1/3+1/3	13.303 - 16.675	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
53-1/8"	1/3+1/3+1/3	12.039 - 14.333	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	1/3+1/3+1/3	14.334 - 18.680	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
61"	1/3+1/3+1/3	12.039 - 16.302	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	1/3+1/3+1/3	16.303 - 20.679	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
70"	1/3+1/3+1/3	12.039 - 20.052	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-72.9[2]
	Custom	20.053 - 22.185	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	1/3+1/3+1/3	22.186 - 26.675	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
85-1/8"	1/3+1/3+1/3	→ - 24.052	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-74.1[1]	+65.0	-67.8[2]
	Custom	24.053 - 26.185	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
	1/3+1/3+1/3	26.186 - 31.049	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
93"	1/3+1/3+1/3	→ - 25.302	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-74.1[1]	+65.0	-67.8[2]
	Custom	25.303 - 27.185	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-77.9
	1/3+1/3+1/3	27.186 - 32.675	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0
109"	1/3+1/3+1/3	→ - 28.302	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-74.1[1]	+65.0	-67.8[2]
	Custom	28.303 - 30.185	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-77.9
	1/3+1/3+1/3	30.186 - 36.675	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-77.9
113-5/8"	1/3+1/3+1/3	→ - 28.483	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-74.1[1]	+65.0	-67.8[2]
	Custom	28.484 - 32.185	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-77.9
	1/3+1/3+1/3	32.186 - 36.333	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-77.9
129"	1/3+1/3+1/3	→ - 31.052	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-74.1[1]	+65.0	-67.8[2]
	Custom	31.053 - 33.185	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-75.7	+65.0	-69.4
	Custom	33.186 - 36.333	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-80.0	+65.0	-71.3

[1] FOR GLASS TYPE 6

[2] FOR GLASS TYPE 7

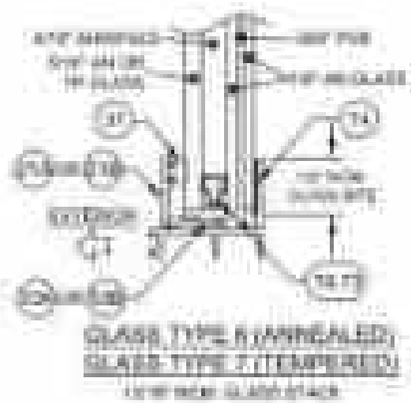
** MIN. SASH WIDTH (FIXED WINDOWS) = OVERALL WIDTH - (6 7/8") / 2

** MIN. SASH WIDTH (FIX & EQUAL LEG PRESENT) = OVERALL WIDTH - 17 7/8 / 2

NOTES

1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN FOR INTEGRAL FIN AND EQUAL LEG WINDOWS. SUBTRACT ¼" 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

ALUM. HORIZONTAL ROLLER WINDOW (LMI)

DESIGN PRESSURE TABLES

LOGAN HOOKE

3/4" = 1'-0"

7 OF 12

WHITNEY LYNN BILLER

No. 36705

PROFESSIONAL ENGINEER

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		59" Overall Hgt		65" Overall Hgt	
41"	1/3-1/3-1/3	12.039 - 13.052	+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	12.053 - 15.038	+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	12.039 - 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	12.039 - 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 - 19.680	+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	12.039 - 16.302	+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	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
78"	1/3-1/3-1/3	13.039 - 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 - 22.165	+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	22.166 - 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
90-1/8"	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	-90.0
	custom	26.063 - 28.165	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-105.2
	1/3-1/3-1/3	28.166 - 31.049	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-102.3
98"	1/3-1/3-1/4	— - 25.302	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-101.0	+60.0	-90.0
	custom	25.303 - 27.165	+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	27.166 - 32.675	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-96.8
110"	1/3-1/3-1/4	— - 28.302	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-101.0	+60.0	-90.0
	custom	28.303 - 30.165	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-97.3
	1/3-1/3-1/3	30.166 - 36.675	+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"	1/3-1/3-1/4	— - 29.462	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-101.0	+60.0	-90.0
	custom	29.464 - 31.165	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-108.5	+60.0	-94.1
	1/3-1/3-1/3	33.166 - 36.332	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-82.9
120"	1/3-1/3-1/4	— - 31.052	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-101.0	+60.0	-90.0
	custom	31.053 - 33.165	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-102.8	+60.0	-91.6
	custom	33.166 - 36.332	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-90.0

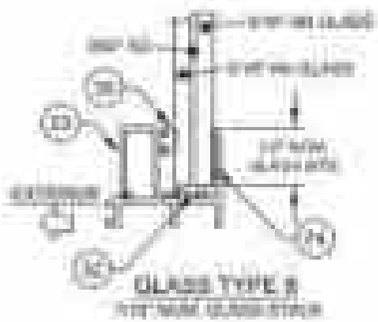
** MIN. SASH WIDTH (FLANGE WINDOWS) = (OVERALL WIDTH - 90 MM) / 2

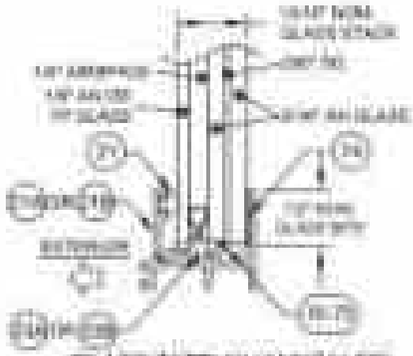
** MIN. SASH WIDTH (EQUAL LEG WINDOWS) = (OVERALL WIDTH - 57 MM) / 2

NOTES

1) (1/3 EQUAL) (TYP 1/2 TYP) DIMENSIONS SHOWN FOR EQUAL LEG WINDOWS. SUBTRACT 17 MM FROM THE TYP TO TYP DIMENSION AT THE TABLE TO DETERMINE THE UNEQUAL SIZE.

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





GLASS TYPES 9 - 11
MAY MEET IBC (2021)
WITH SYMBOL FIN
PANNED

PGT

ALUM. HORIZONTAL ROLLER WINDOW (LM)

DESIGN PRESSURE TABLES

SCALE: NTS

DRAWN BY: MVR

DATE: 12-07-21

MATTHEW VAN DYKE
LICENSE
No. 90705
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.	
34"	1/3-1/3-1/3	12.039 - 12.050	+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 - 15.938	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
46"	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 - 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	12.039 - 14.320	+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	14.394 - 16.050	+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	12.039 - 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 - 20.675	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
70"	1/3-1/3-1/3	12.039 - 20.052	+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	20.053 - 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 - 25.675	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
78-1/8"	1/3-1/3-1/3	" - 24.052	+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	24.053 - 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
82"	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	-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 - 32.675	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
93"	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	-110.0	+60.0	-106.7*
	custom	28.303 - 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 - 36.675	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
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 - 36.333	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0
120"	1/3-1/3-1/3	" - 31.052	+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	31.053 - 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 - 36.333	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-110.0	+60.0	-109.0

*MIN. GLASS WIDTH (FLANKED WINDOWS) = OVERALL WIDTH - 20.938

**MIN. GLASS WIDTH (EQUAL LITE WINDOWS) = OVERALL WIDTH - 21.000
2

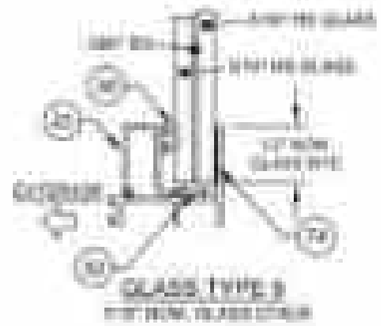
*LITES FOR GLASS TYPES 9, 12, 15 & 16

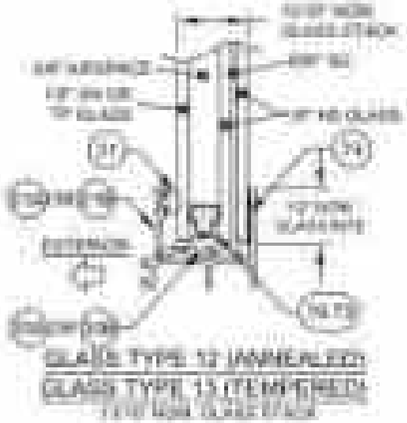
GLASS TYPES 9, 15 MAY NOT BE USED WITH INTERIOR PIN PASSIVE

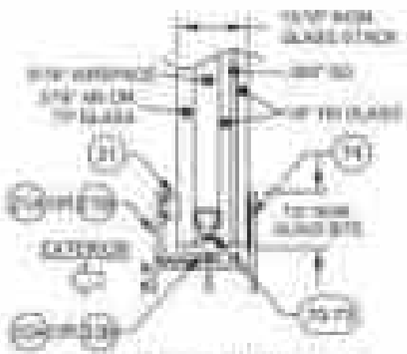
NOTES:

1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN TYPE EQUALLED WINDOWS. SUBTRACT 1/4 FROM THE TIP TO TIP DIMENSION AT THE TABLE TO DETERMINE THE GLASS SIZE.

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







PGT

ALUM. HORIZONTAL ROLLER WINDOW (LMI) XO8 2-LITE

DESIGN PRESSURE TABLES

DP50 | 70 | 90

SCALE: NONE

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDED TYPE 16 GLASS	10/2/2018

DRAWN BY: LOGAN YORK

DATE: 10/2/2018

APPROVED BY:

DRAWING NO.

SHEET NO.

REGISTERED PROFESSIONAL ENGINEER
STATE OF FLORIDA

TABLE 11

Overall Width	Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft²) for XO8 Windows — Glass Types: 9 or 10, Meeting Rail: Heavy Duty											
			21 1/8" Overall Hgt		29" Overall Hgt		37" Overall Hgt		49" Overall Hgt		59" Overall Hgt		63" Overall Hgt	
34"	1/3-1/3-1/3	12.039 - 13.052	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
	2/3-2/3-2/3	12.053 - 15.308	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
40"	1/3-1/3-1/3	12.039 - 15.305	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
	2/3-2/3-2/3	15.303 - 18.670	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
93-1/8"	1/3-1/3-1/3	12.039 - 14.535	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
	2/3-2/3-2/3	14.334 - 18.050	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
97"	1/3-1/3-1/3	12.039 - 15.302	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
	2/3-2/3-2/3	15.303 - 20.670	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
109"	1/3-1/3-1/3	12.039 - 20.052	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
	custom	20.053 - 22.190	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
	2/3-2/3-2/3	22.190 - 25.975	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
121-1/8"	1/3-1/3-1/3	" - 24.052	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
	custom	24.053 - 26.195	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
	2/3-2/3-2/3	26.189 - 31.046	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
85"	1/3-1/3-1/3	" - 25.302	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
	custom	25.303 - 27.195	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
	2/3-2/3-2/3	27.189 - 32.675	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
109"	1/3-1/3-1/3	" - 28.302	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
	custom	28.303 - 30.195	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
	2/3-2/3-2/3	30.189 - 36.675	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
113-5/8"	1/3-1/3-1/3	" - 29.460	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
	custom	29.464 - 33.189	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
	2/3-2/3-2/3	33.196 - 38.332	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
121"	1/3-1/3-1/3	" - 31.052	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
	custom	31.053 - 33.195	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0
	custom	33.189 - 38.332	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0	+60.0	-130.0

**MIN. SASH WIDTH (FLANKED WINDOWS) = OVERALL WIDTH - 2(0.39)
2

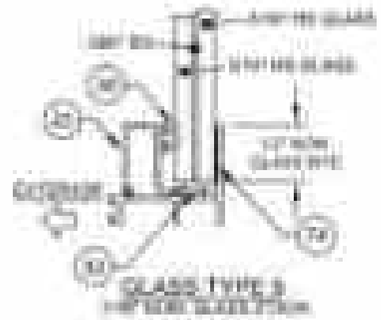
**MIN. SASH WIDTH (EQUAL LEG WINDOWS) = OVERALL WIDTH - 2(1.63)
2

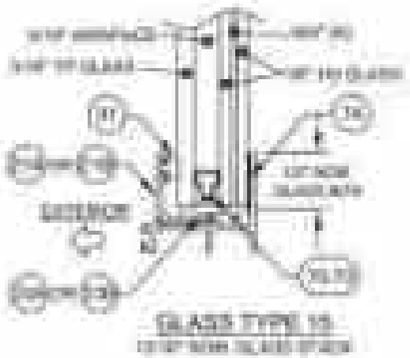
GLASS TYPE 9 : 11 MAY NOT BE USED WITH INTERNAL PIN HINGES

NOTES:

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

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





PGT

ALUM. HORIZONTAL ROLLER WINDOWS

DESIGN PRESSURE TABLES

XO8 SERIES

DRAWN BY: CHECKED BY: DATE: SCALE: NTS

STATE OF FLORIDA
PROFESSIONAL ENGINEER

TABLE 1A

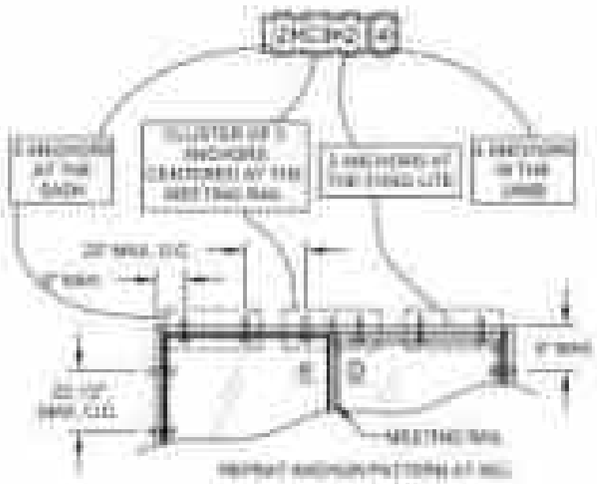
Overall Width	Anchor Quantities for XO & OX Windows — Glass Types: 1-7, Meeting Rail: Standard									
	21-1/8" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		61" Overall Hgt.		73" Overall Hgt.	
	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
25"	1+G2+1	3	1+G2+1	3	1+G2+1	3	1+G2+1	3	1+G2+1	3
29"	1+G2+1	3	1+G2+1	3	1+G2+1	3	1+G2+1	3	1+G2+1	3
37"	1+G2+1	3	1+G2+1	3	1+G2+1	3	1+G2+1	3	1+G2+1	3
49"	1+G2+1	3	1+G2+1	3	1+G2+1	3	1+G3+1	3	1+G3+1	3
61"	1+G2+1	3	1+G2+1	3	1+G2+1	3	1+G3+1	3	1+G3+1	3
67"	1+G2+1	3	1+G2+1	3	1+G2+1	3	1+G3+1	3	1+G3+1*	3
73"	1+G2+1	3	1+G2+1	3	1+G2+1	3	1+G3+1	3	1+G3+1*	3

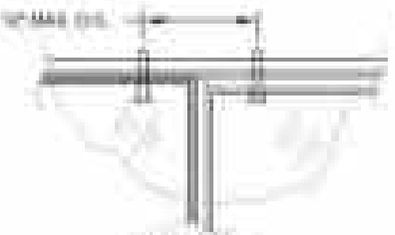
*1+G3+1 FOR GLASS TYPES 1 & 5

TABLE 1B

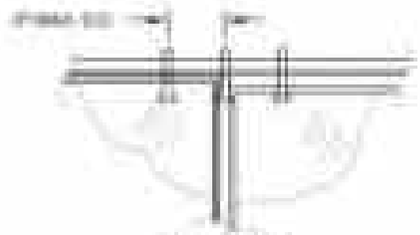
Overall Width	Anchor Quantities for XO & OX Windows — Glass Types: 8-10, Meeting Rail: Standard									
	21-1/8" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		61" Overall Hgt.		73" Overall Hgt.	
	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
25"	1+G2+1	3	1+G2+1	3	1+G2+1	3	1+G2+1	3	1+G2+1	3
29"	1+G2+1	3	1+G2+1	3	1+G2+1	3	1+G2+1	3	1+G2+1	3
37"	1+G2+1	3	1+G2+1	3	1+G2+1	3	1+G2+1	3	1+G2+1	3
49"	1+G2+1	3	1+G2+1	3	1+G2+1	3	1+G2+1	3	1+G3+1	3
61"	1+G2+1	3	1+G2+1	3	1+G2+1	3	1+G3+1	3	1+G3+1	3
67"	1+G2+1	3	2+G2+2	3	2+G2+2	3	2+G3+2	3	2+G3+2	3
73"	2+G2+2	3	2+G2+2	3	2+G2+2	3	2+G3+2	3	2+G3+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) OVERALL ZIP TO TPI DIMENSIONS SHOWN FOR EQUALIZING WINDOWS. SUBTRACT 7" FROM THE TPI TITLE DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

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

PGT INDUSTRIES
1070 TAMIAMI TRAIL
NORTH PORT, FL 34286

ALUM. HORIZONTAL ROLLER WINDOWS

ANCHOR QUANTITY TABLES

SCALE: NTS

SHEET NUMBER: A-1.1

REGISTERED PROFESSIONAL ENGINEER
STATE OF FLORIDA

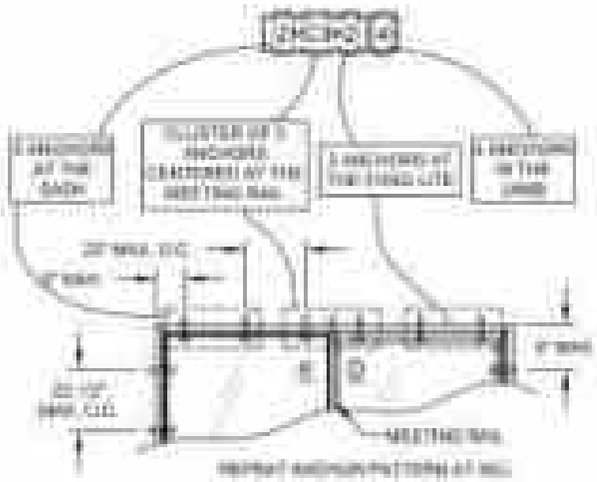
TABLE 10

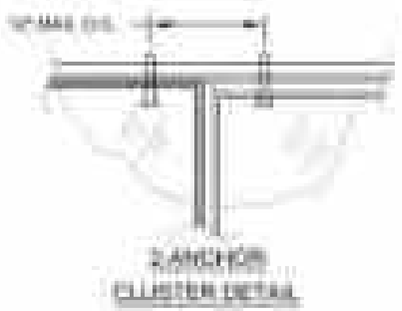
Overall Width	Anchor Quantities for XO & OX Windows — Glass Types: 9, 10 & 11; Meeting Rail: Heavy-Duty											
	21-1/8" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		61" Overall Hgt.		73" Overall Hgt.		85" Overall Hgt.	
	Head & Sill	Qty.	Head & Sill	Qty.	Head & Sill	Qty.	Head & Sill	Qty.	Head & 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) PANEL ZIP TO TPI DIMENSIONS SHOWN FOR EQUALIZED WINDOWS. SUBTRACT 1" FROM THE TPI TITLE DIMENSION IN THE TABLE TO BE SURE THE WINDOW SIZE

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

PGT INDUSTRIES

ALUM. HORIZONTAL ROLLER WINDOW (LMI) | 2/24/14 | LOGAN YODER

ANCHOR QUANTITY TABLES | 12-0213 | 12-0213.DWG

WEIGHT VAN BUSKIRK — No. 39705 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

TABLE 1A

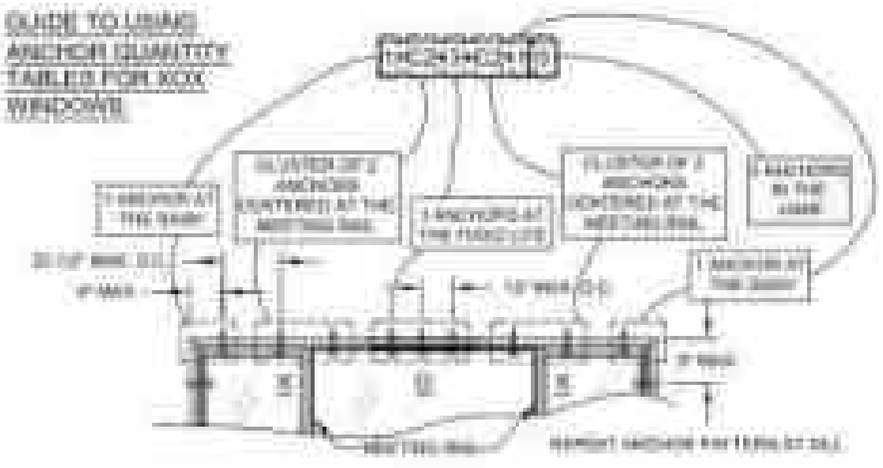
Overall Width	Sash Configuration	Sash Width Range (in)	Anchor Quantities for XOX Windows — Glass Type: 1, 4 & 5 — Meeting Rail: Standard											
			21 1/8" Overall Hgt.		29" Overall Hgt.		37" Overall Hgt.		45" Overall Hgt.		181" Overall Hgt.		53" Overall Hgt.	
			Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
84"	50-25-50	12.938 - 13.062	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
	50-25-50 1/8	13.063 - 13.188	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"	50-25-50 1/4	13.189 - 13.312	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
	50-25-50 3/8	13.313 - 13.438	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 1/8"	50-25-50 1/2	13.439 - 13.562	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
	50-25-50 5/8	13.563 - 13.688	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 1/4"	50-25-50 3/4	13.689 - 13.812	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
	50-25-50 7/8	13.813 - 13.938	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
85 3/8"	50-25-50	13.939 - 14.062	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
	50-25-50 1/8	14.063 - 14.188	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 1/2"	50-25-50 1/4	14.189 - 14.312	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
	50-25-50 3/8	14.313 - 14.438	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 5/8"	50-25-50 1/2	14.439 - 14.562	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
	50-25-50 5/8	14.563 - 14.688	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 3/4"	50-25-50 3/4	14.689 - 14.812	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
	50-25-50 7/8	14.813 - 14.938	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
85 7/8"	50-25-50	14.939 - 15.062	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
	50-25-50 1/8	15.063 - 15.188	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
86"	50-25-50 1/4	15.189 - 15.312	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
	50-25-50 3/8	15.313 - 15.438	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
86 1/8"	50-25-50 1/2	15.439 - 15.562	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
	50-25-50 5/8	15.563 - 15.688	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
86 1/4"	50-25-50 3/4	15.689 - 15.812	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
	50-25-50 7/8	15.813 - 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
86 3/8"	50-25-50	15.939 - 16.062	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
	50-25-50 1/8	16.063 - 16.188	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
86 1/2"	50-25-50 1/4	16.189 - 16.312	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
	50-25-50 3/8	16.313 - 16.438	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
86 5/8"	50-25-50 1/2	16.439 - 16.562	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
	50-25-50 5/8	16.563 - 16.688	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
86 3/4"	50-25-50 3/4	16.689 - 16.812	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
	50-25-50 7/8	16.813 - 16.938	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
86 7/8"	50-25-50	16.939 - 17.062	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

* MIN. SASH WIDTH (FLANGE WINDOW) = TOTAL WIDTH - 2.063 in.
2

** MIN. SASH WIDTH (BRICK MOULD WINDOW) = TOTAL WIDTH - 2.938 in.
2

2 ANCHOR CLUSTER DETAIL

GUIDE TO USING ANCHOR QUANTITY TABLES FOR XOX WINDOWS



NOTES:

1) OVERALL (TOP TO TIP) DIMENSIONS SHOWN FOR EQUAL SIZE WINDOWS. TO OBTAIN THE TOP TO TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

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

PGT

ALUM. HORIZONTAL ROLLER WINDOW (LMI) — XOX/XOX

ANCHOR QUANTITY TABLES

PGT-A-10-1

11-30-10

1/2" = 1'-0"

WINDSTORM FILM

INTERNATIONAL CODE COUNCIL — No. 99999 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

Table 6.10

Overall Width	Each Configuration	Each Width Range (in)	Anchor Quantities for XOX Windows — Glass Types: 2, 3, 6 & 7 — Meeting Rail: Standard											
			21 1/4" Overall Hgt.		29" 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"	3'-0"+3'-0"	12.938" - 13.062"	1+D1+1+D1+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2
	3'-1"+2'-11"	12.563" - 12.688"	1+D1+1+D1+1	2	1+D1+1+D1+1	2	1+D1+1+D1+1	2	1+D1+1+D1+1	2	1+D1+1+D1+1	2	1+D2+1+D2+1	2
60"	3'-0"+3'-0"	12.938" - 13.062"	1+D1+1+D1+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2
	3'-0"+3'-0"	12.938" - 13.062"	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2
72"	3'-0"+3'-0"	12.938" - 13.062"	1+D1+1+D1+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2
	3'-0"+3'-0"	13.938" - 14.062"	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2
84"	3'-0"+3'-0"	12.938" - 13.062"	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2
	3'-0"+3'-0"	13.938" - 14.062"	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2
96"	3'-0"+3'-0"	12.938" - 13.062"	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2
	custom	13.063" - 13.187"	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2
	3'-0"+3'-0"	13.188" - 13.312"	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2
108"	3'-0"+3'-0"	" - 13.437"	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2
	custom	13.563" - 13.687"	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2
	3'-0"+3'-0"	13.688" - 13.812"	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2
120"	3'-0"+3'-0"	" - 13.937"	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2
	custom	14.063" - 14.187"	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2
	custom	14.188" - 14.312"	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2	1+D2+1+D2+1	2

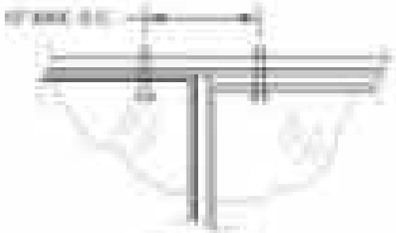
[1] MIN. RAW WIDTH (FLANGE WINDOW) = OVERALL WIDTH - 24.062"
2

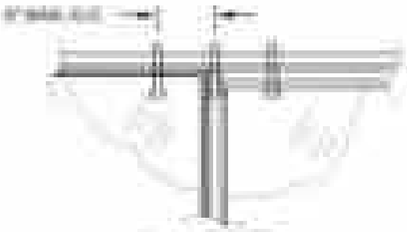
[2] MIN. RAW WIDTH (EQUAL LEG WINDOW) = OVERALL WIDTH - 37.250"
2

NOTES

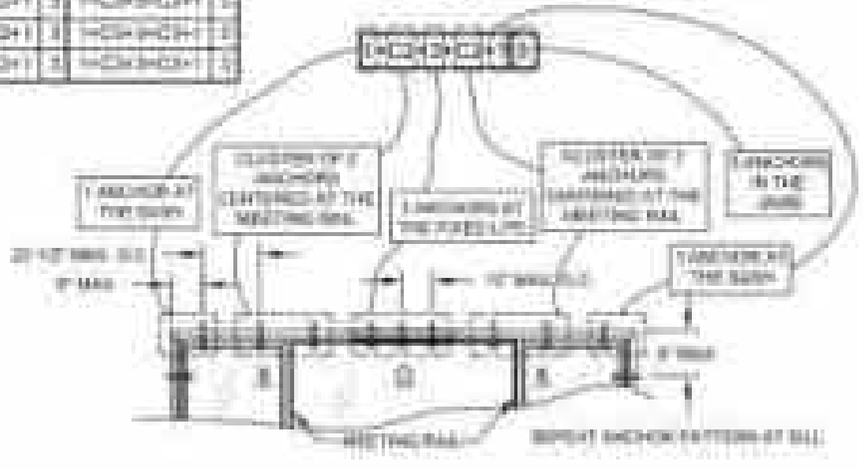
1) OVERALL (TOP TO TIP) DIMENSIONS SHOWN FOR EQUAL LEG WINDOWS. SUBTRACT ¼" FROM THE TIP TO TIP DIMENSION AT THE TABLE TO DETERMINE THE WINDOW SIZE.

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





GUIDE TO USING ANCHOR QUANTITY TABLES FOR XOX WINDOWS



PGT

ALUM. HORIZONTAL ROLLER WINDOW ASSEMBLY

ANCHOR QUANTITY TABLES

LOGAN HOOKER

DRAWN BY (AM)

DATE

SCALE

PROJECT

PROJECT NUMBER

ARCHITECT'S SEAL

STRUCTURAL ENGINEER'S SEAL

ARCHITECT'S SEAL

STRUCTURAL ENGINEER'S SEAL

Table K-20

Overall Width	Block Configurations	Rated Width Range (Inches)	Anchor Quantities for XO8 Windows — Glass Types: 6, 10 & 11 Meeting Rail: Standard — (1-1/8" Overall Hgt. — Head & Sill)	Qty	(30" Overall Hgt. — Head & Sill)	Qty	(37" Overall Hgt. — Head & Sill)	Qty	(49" Overall Hgt. — Head & Sill)	Qty	(61" Overall Hgt. — Head & Sill)	Qty	(63" Overall Hgt. — Head & Sill)	Qty
84"	XO+XO+XO	72.938 - 72.000	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3
	XO+FIX+XO	72.063 - 70.938	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3
96"	XO+XO+XO	83.938 - 83.000	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3
	XO+FIX+XO	83.063 - 81.938	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3
60-1/8"	XO+XO+XO	53.938 - 54.000	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3
	XO+FIX+XO	59.938 - 59.000	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3
72"	XO+XO+XO	72.938 - 72.000	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3
	XO+FIX+XO	72.063 - 70.938	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3
84"	XO+XO+XO	83.938 - 83.000	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3
	XO+FIX+XO	83.063 - 81.938	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3
96"	XO+XO+XO	93.938 - 93.000	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3
	XO+FIX+XO	93.063 - 91.938	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3
108"	XO+XO+XO	103.938 - 103.000	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3
	XO+FIX+XO	103.063 - 101.938	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3
	XO+XO+XO	103.938 - 103.000	2+CD+1+CD+2	3	2+CD+1+CD+2	3	2+CD+1+CD+2	3	2+CD+1+CD+2	3	2+CD+1+CD+2	3	2+CD+1+CD+2	3
113-5/8"	XO+XO+XO	108.938 - 108.000	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3
	XO+FIX+XO	108.063 - 106.938	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3
	XO+XO+XO	113.938 - 108.000	2+CD+1+CD+2	3	2+CD+1+CD+2	3	2+CD+1+CD+2	3	2+CD+1+CD+2	3	2+CD+1+CD+2	3	2+CD+1+CD+2	3
120"	XO+XO+XO	113.938 - 113.000	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3
	XO+FIX+XO	113.063 - 111.938	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3	1+CD+1+CD+1	3
	XO+XO+XO	113.938 - 108.000	2+CD+1+CD+2	3	2+CD+1+CD+2	3	2+CD+1+CD+2	3	2+CD+1+CD+2	3	2+CD+1+CD+2	3	2+CD+1+CD+2	3

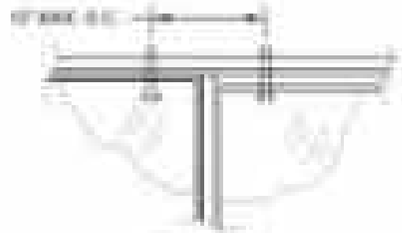
(*) MAX. SASH WIDTH OF UNEQUAL WINDOWS = OVERALL WIDTH - 38.000 / 2

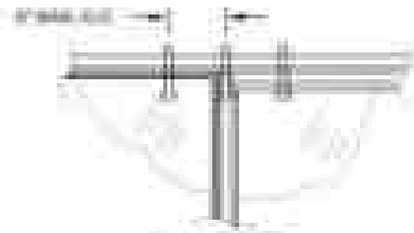
(**) MIN. SASH WIDTH IN EQUAL-LEG WINDOWS = OVERALL WIDTH - 37.000 / 2

NOTES:

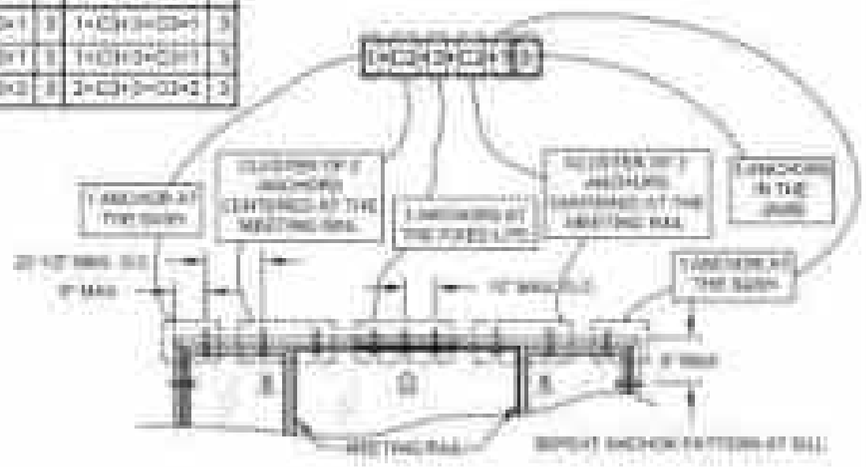
1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN FOR EQUAL-LEG WINDOWS. SUBTRACT 1/4 INCH FOR EACH TIP TO TIP DIMENSION IN THE TABLE TO DETERMINE THE SASH/FIX SIZE.

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





GUIDE TO USING ANCHOR QUANTITY TABLES FOR XO8 WINDOWS



PGT

ALUM. HORIZONTAL ROLLER WINDOW

ANCHOR QUANTITY TABLES

XO8

K-20

STATE OF FLORIDA PROFESSIONAL ENGINEER

Table 6.21

Anchor Quantities for XOX Windows

Glass Types: 9, 10,19
Meeting Rail: Standard

Output Width	Sash Configuration	Sash Width Range (in)	21 1/8" Overall Hgt		33" Overall Hgt		77" Overall Hgt		49" Overall Hgt		65" Overall Hgt		81" Overall Hgt	
			Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
48"	24-24-24	13.000 - 13.063	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2
	24-24-24	13.063 - 15.000	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2
60"	24-24-24	15.000 - 17.500	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2
	24-24-24	17.500 - 18.875	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2
69-1/8"	24-24-24	18.938 - 19.000	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2
	24-24-24	19.000 - 19.250	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2
81"	24-24-24	19.250 - 20.000	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2
	custom	20.063 - 22.188	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2
	24-24-24	22.188 - 25.875	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2
93-1/8"	24-24-24	" - 26.063	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2
	custom	24.063 - 26.188	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2
	24-24-24	25.188 - 27.188	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2
97"	24-24-24	" - 26.063	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2
	custom	26.063 - 27.188	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2
	24-24-24	27.188 - 32.875	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2
109"	24-24-24	" - 26.063	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2
	custom	26.063 - 32.188	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2
	24-24-24	32.188 - 38.875	1+CD+1+CD+1	2	1+CD+1+CD+1	2	2+CD+2+CD+2	4	2+CD+2+CD+2	4	2+CD+2+CD+2	4	2+CD+2+CD+2	4
113-5/8"	24-24-24	" - 26.063	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2
	custom	26.063 - 32.188	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2
	24-24-24	32.188 - 38.938	2+CD+2+CD+2	4	2+CD+2+CD+2	4	2+CD+2+CD+2	4	2+CD+2+CD+2	4	2+CD+2+CD+2	4	2+CD+2+CD+2	4
129"	24-24-24	" - 26.063	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2
	custom	26.063 - 32.188	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2	1+CD+1+CD+1	2
	24-24-24	32.188 - 38.938	2+CD+2+CD+2	4	2+CD+2+CD+2	4	2+CD+2+CD+2	4	2+CD+2+CD+2	4	2+CD+2+CD+2	4	2+CD+2+CD+2	4

(1) MIN. SASH WIDTH (F) FOR WINDOWS = (OVERALL WIDTH - 26 3/8") / 2

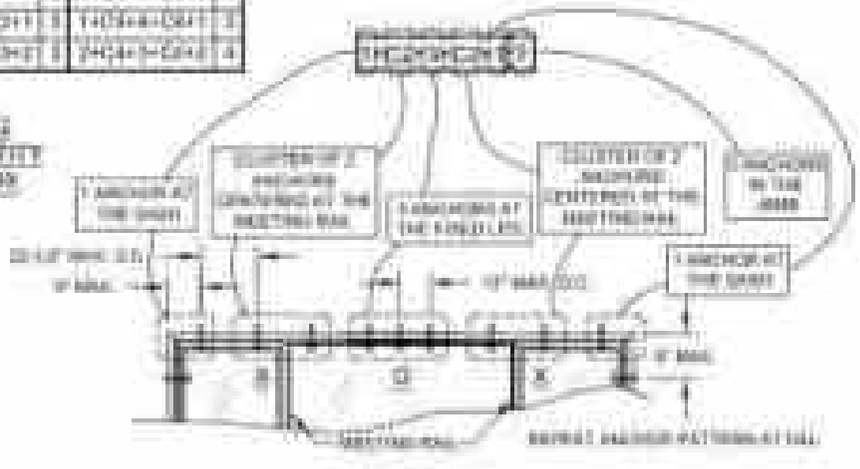
(2) MAX. SASH WIDTH (F) FOR EQUAL LEG WINDOWS = (OVERALL WIDTH - 37 3/8") / 2







GUIDE TO USING ANCHOR QUANTITY TABLES FOR XOX WINDOWS:



NOTES:

1) OVERALL (TOP TO TOP) DIMENSIONS SHOWN FOR EQUAL LEG WINDOWS. SUBTRACT 1" FROM THESE TOP TO TOP DIMENSIONS AT THE TABLE TO DETERMINE THE GLASS SIZE.

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

PGT
ALUMI HORIZONTAL ROLLER WINDOW
ANCHOR QUANTITY TABLES
XOX

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.		48" Overall Hgt.		59" Overall Hgt.		67" Overall Hgt.	
			Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
48"	3'-0" x 3'-0"	15.250" - 15.500"	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2
	3'-1" x 3'-0"	15.501" - 15.688"	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2
49"	3'-0" x 3'-0"	15.750" - 16.000"	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2
	3'-1" x 3'-0"	15.953" - 16.875"	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2
52 1/8"	3'-0" x 3'-0"	15.750" - 16.000"	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2
	3'-2" x 3'-0"	16.328" - 16.953"	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2	1+CD1+1+CD1+1	2
61"	3'-0" x 3'-0"	15.750" - 16.000"	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2
	3'-2" x 3'-0"	16.703" - 25.625"	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2
70"	3'-0" x 3'-0"	15.750" - 16.000"	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2
	custom	16.938" - 22.188"	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2
	3'-2" x 3'-0"	23.188" - 25.875"	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2	1+CD2+1+CD2+1	2
82 1/8"	3'-0" x 3'-0"	15.750" - 16.000"	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2
	custom	24.938" - 26.188"	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2
	3'-2" x 3'-0"	26.188" - 31.688"	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2
97"	3'-0" x 3'-0"	15.750" - 16.000"	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2
	custom	24.938" - 27.188"	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2
	3'-2" x 3'-0"	27.188" - 32.875"	1+CD3+2+CD3+1	3	2+CD3+2+CD3+2	3	2+CD3+2+CD3+2	3	2+CD3+2+CD3+2	3	2+CD3+2+CD3+2	3	2+CD3+2+CD3+2	4
109"	3'-0" x 3'-0"	15.750" - 16.000"	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2
	custom	24.938" - 27.188"	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2
	3'-2" x 3'-0"	27.188" - 34.875"	2+CD3+2+CD3+2	3	2+CD3+2+CD3+2	3	2+CD3+2+CD3+2	3	2+CD3+2+CD3+2	3	2+CD3+2+CD3+2	3	2+CD3+2+CD3+2	4
113 5/8"	3'-0" x 3'-0"	27.532" - 28.469"	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2	1+CD3+1+CD3+1	2
	custom	28.906" - 33.188"	1+CD3+1+CD3+1	2	2+CD3+1+CD3+2	3	2+CD3+1+CD3+2	3	2+CD3+1+CD3+2	3	2+CD3+1+CD3+2	3	2+CD3+1+CD3+2	4
	3'-2" x 3'-0"	33.188" - 36.203"	2+CD3+2+CD3+2	3	2+CD3+2+CD3+2	3	2+CD3+2+CD3+2	3	2+CD3+2+CD3+2	3	2+CD3+2+CD3+2	3	2+CD3+2+CD3+2	4
125"	3'-0" x 3'-0"	29.727" - 31.852"	1+CD3+2+CD3+1	3	1+CD3+2+CD3+1	3	1+CD3+2+CD3+1	3	1+CD3+2+CD3+1	3	1+CD3+2+CD3+1	3	1+CD3+2+CD3+1	4
	custom	31.063" - 33.188"	1+CD3+2+CD3+1	3	2+CD3+2+CD3+2	3	2+CD3+2+CD3+2	3	2+CD3+2+CD3+2	3	2+CD3+2+CD3+2	3	2+CD3+2+CD3+2	4
	custom	33.188" - 36.203"	2+CD3+2+CD3+2	3	2+CD3+2+CD3+2	3	2+CD3+2+CD3+2	3	2+CD3+2+CD3+2	3	2+CD3+2+CD3+2	3	2+CD3+2+CD3+2	4

(1) MIN. SASH WIDTH IS UNDER WINDOWS = OVERALL WIDTH - 25.625"
2

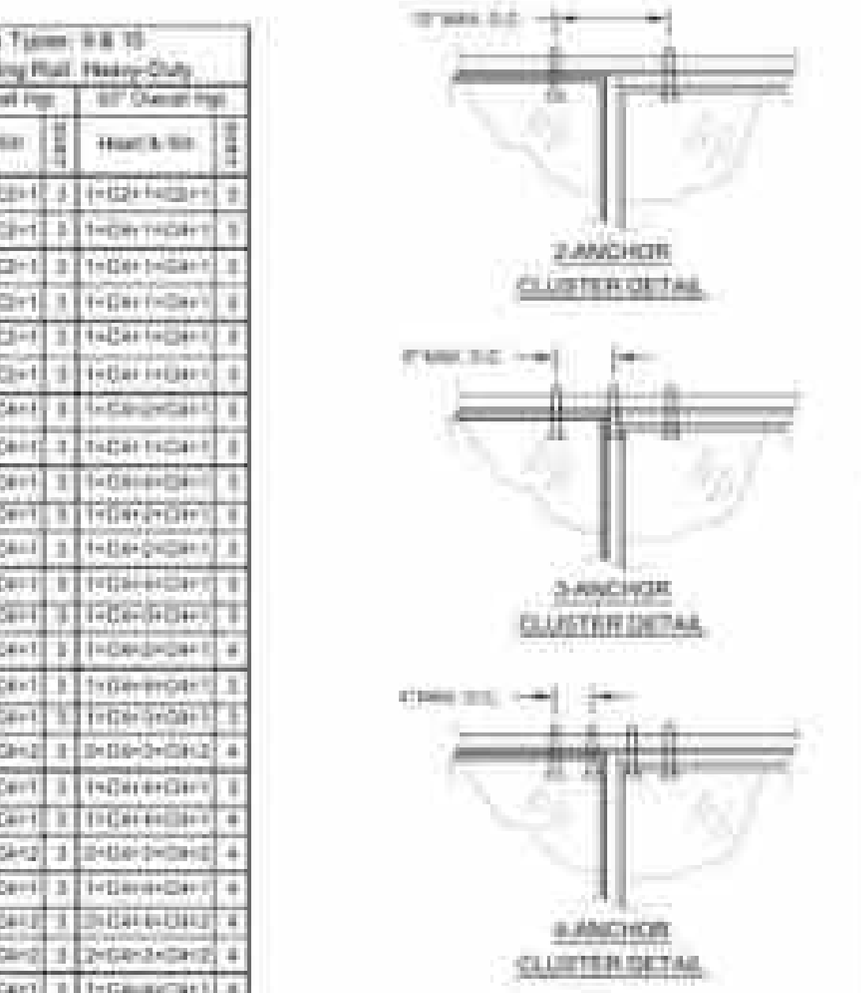
(2) MIN. SASH HEIGHT EQUAL LEG WINDOWS = OVERALL HEIGHT - 37.000"
2

NOTES

1) OVERALL (TOP TO TOP) DIMENSIONS SHOWN FOR EQUAL LEG WINDOWS. SUBTRACT 1" FROM THE 16" TO 19" DIMENSION IN THE TABLE TO DETERMINE THE SMALLER SIZE.

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

GUIDE TO USING ANCHOR QUANTITY TABLES FOR XO/X WINDOWS



PGT — ALUM. HORIZONTAL ROLLER WINDOW (LMI) — LOGAN TYPE — INSTALLATION FLANGE — 8877-704-LMI — 2-10-21 — NTS

WESLEY LYNN MILLER — No. 39705 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

INSTALLATION OPTION 1

INSTALLATION OPTION 2

INSTALLATION OPTION 3

HORIZONTAL SECTION A-A

INSTALLATION OPTION 4

HORIZONTAL SECTION C-C

INSTALLATION OPTION 5

VERTICAL SECTION B-B

NOTES:

Table 21

Anchor	Substrate	Min. Edge Distance	Min. Embedment
#12 Screw (Nail @ 4/3 Min Anchor)	Southern Pine (SG=0.55)	0.75"	1.00"
	Aluminum 6063-T5 min.	3/8"	0.350"
	ASTM A36	3/8"	0.350"
	Steel 33 ksi, 20 ksi min.	3/8"	0.350" (19 GA)
1/4" #13 SS (Nail/Pin)	Concrete min. f'c=2 ksi	1"	1.00"
	Engineered LSL (SG=0.71 min.)	0.75"	1.00"
	Southern Pine (SG=0.55)	1"	1.00"
1/4" Bolt (Minimum 1	Concrete min. f'c=2 ksi	1.25"	1.25"
	Engineered LSL (SG=0.71 min.)	1.125"	1.125"
	Southern Pine (SG=0.55)	1"	1.25"

A. MIN. OF 1 THREAD BEYOND THE METAL SUBSTRATE.

B. USE ONLY FASTENERS SPECIFIED IN THIS ANCHOR DETAIL. ALL FASTENERS MUST HAVE A MINIMUM SHEAR STRENGTH OF 100 LBS.

C. UNCOATED ONLY. COATED MAY BE USED FOR SPECIFIED END APPLICATIONS.

PGT

ALUM. HORIZONTAL ROLLER WINDOW (LMI)

INSTALLATION FRAME

DETAILS

INSTALLATION OPTION 1

INSTALLATION OPTION 2

INSTALLATION OPTION 3

HORIZONTAL SECTION A-A

INSTALLATION OPTION 2

VERTICAL SECTION B-B

HORIZONTAL SECTION C-C

INSTALLATION OPTION 4

NOTES:

TABLE 2A

Anchor	Substrate	Min. Edge Distance	Min. Embedment
#12 Screw (Ref. to 2015 NDS Table)	Southern Pine (SG=0.55)	0.58"	1.00"
	Aluminum 6063-T5 min.	0.5"	0.863"
	ACQ Group	0.5"	0.863"
	Steel 33 ksi, min. 20 mils	0.5"	0.863" (18 GA)
1/4" #12 SDS (Data/Plan)	Concrete min. f'c=2,500 psi	1"	1.00"
	Engineered LSL (LSL) (0.064" G.W.)	0.113"	1.113"
	Southern Pine (SG=0.55)	1"	1.00"
1/4" Wood (Wedge-n-)	Concrete min. f'c=2,500 psi	1.0.58"	1.00"
	Engineered LSL (LSL) (0.064" G.W.)	1.113"	1.113"
	Southern Pine (SG=0.55)	1"	1.00"

4) MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

5) USE ONLY FLATHEAD ANCHORS IN PERIMETER ALL PERIMETER FRAME TYPE (3) ALL DRIVABLE FOR ANCHORS IN THE JAMBS.

6) = UNDRILLED ONLY UNLESS MAY BE USED FOR SPECIFIED END APPLICATIONS.

PGT

ALUM. HORIZONTAL ROLLER WINDOW W/ FIN

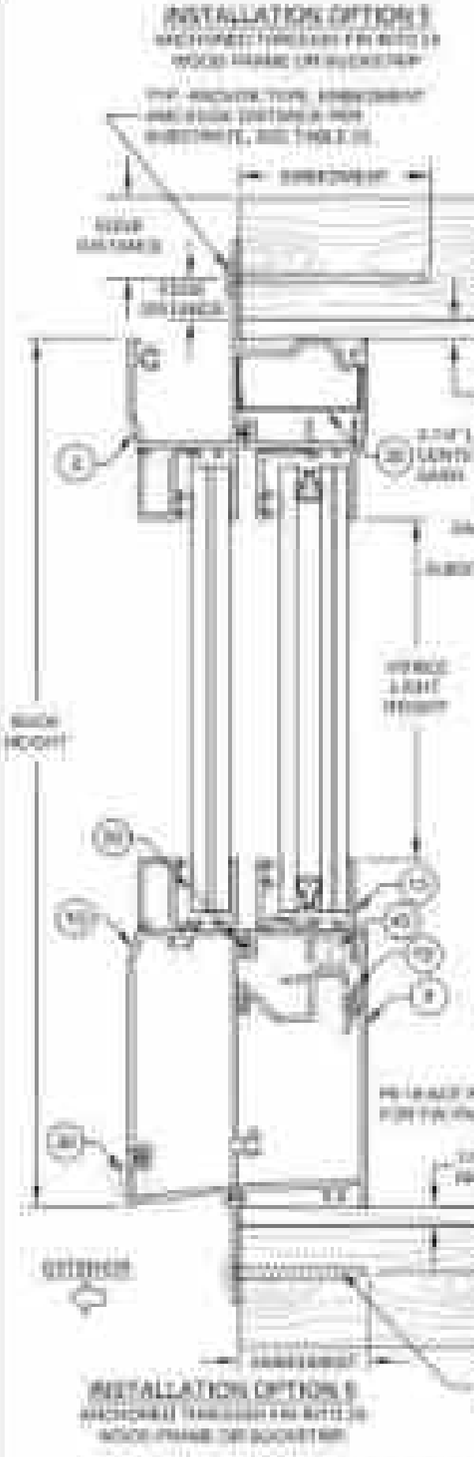
INSTALLATION DETAILS

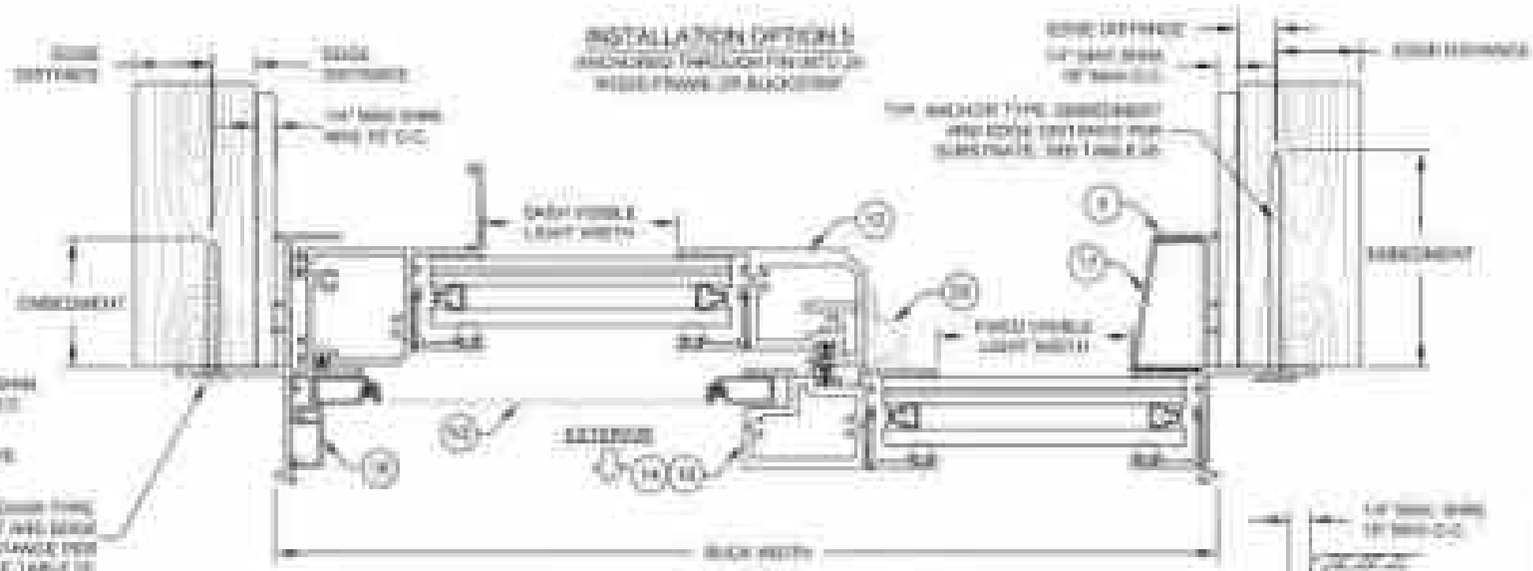
LOGAN YODER

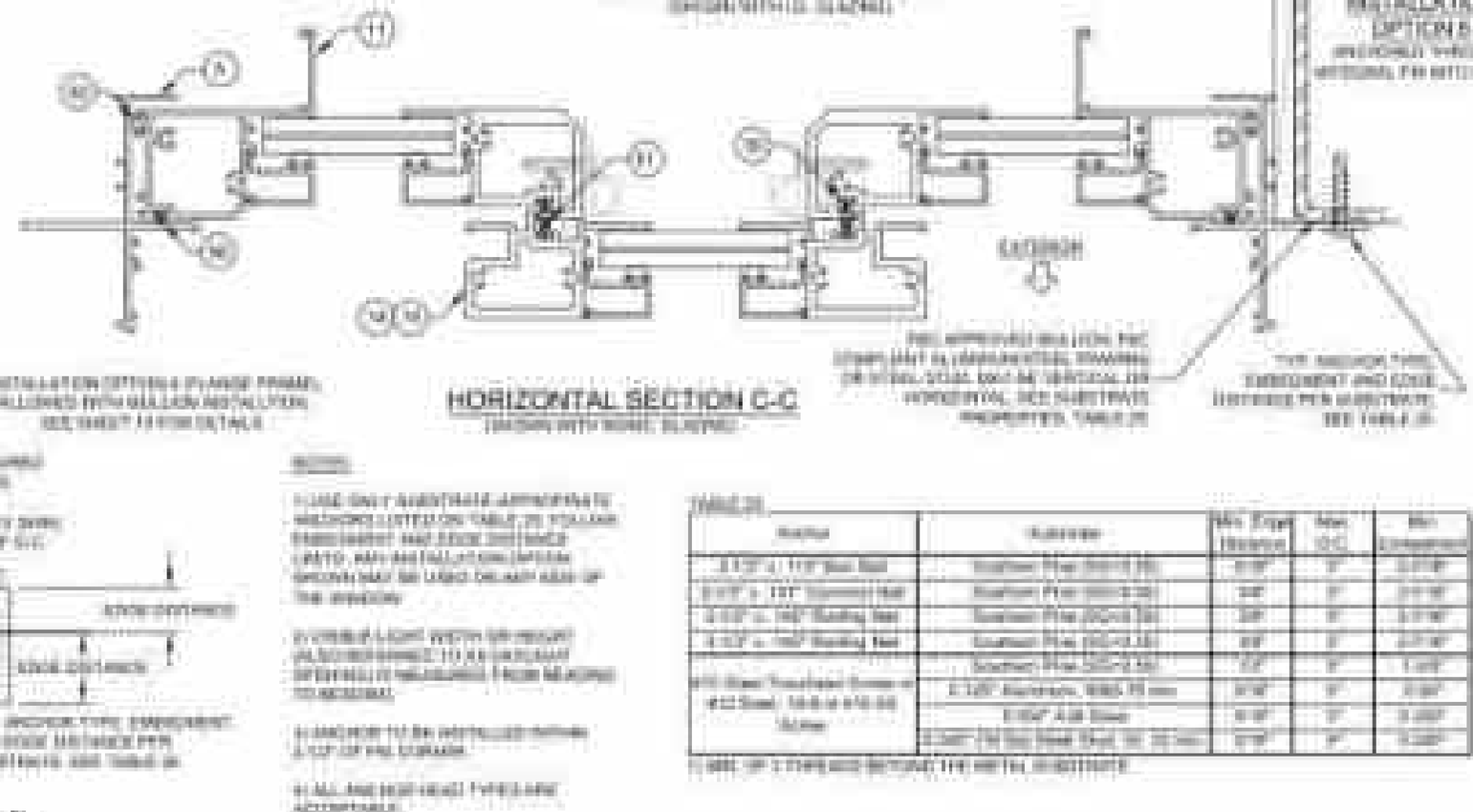
DATE: 12/14/20

SCALE: 3/8" = 1'-0"

SHEET NO.







NOTES:

1. USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED ON TABLE 2B. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.

2. VISIBLE LIGHT WIDTH OR HEIGHT (ALSO DIMENSION 'L') AS SHOWN IS SMART OPTION SIZE MEASURING FROM MEETING TO MEETING.

3. ANCHOR TO BE INSTALLED WITHIN 2 1/2" OF PILLOW DOMAIN.

4. ALL ANCHOR HEAD TYPES ARE ACCEPTABLE.

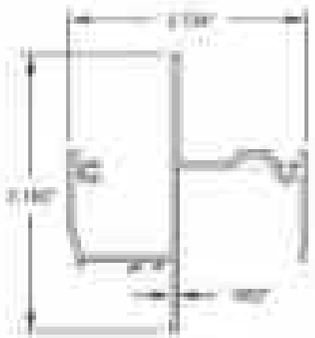
TABLE 2B

Anchor	Substrate	Min. Edge Distance	Max. O.C.	Min. Embedment
#10 x 1-1/2" Min. Pan	Southern Pine (SG=0.55)	0.438"	3"	0.875"
#10 x 1-1/2" Min. Flat	Southern Pine (SG=0.55)	0.438"	3"	0.875"
#10 x 1-1/2" Min. Hex	Southern Pine (SG=0.55)	0.438"	3"	0.875"
#10 x 1-1/2" Min. Truss	Southern Pine (SG=0.55)	0.438"	3"	0.875"
#10 Steel Thread Screw or #12 Steel Self-Drilling Screw	Southern Pine (SG=0.55)	0.438"	3"	1.125"
	2-1/2" Aluminum, 6063-T5 min	0.438"	3"	0.500"
	0.062" A-36 Steel	0.438"	3"	0.250"
	0.040" Cold Rolled Steel, 33 ksi min	0.438"	3"	0.250"

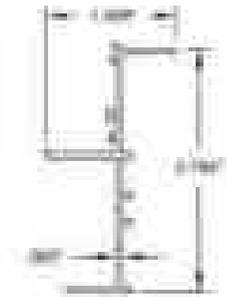
1) SEE TABLE 2 FOR ANCHOR MATERIAL AND SPECIFICATIONS.

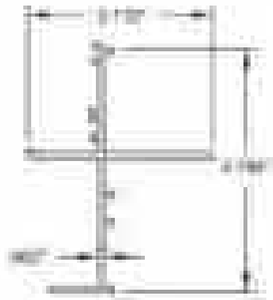
ALUM. HORIZONTAL ROLLER WINDOW (A/H)
INSTALLATION: INTERIOR FIN
LOGAN HOOKER

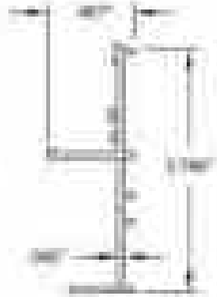


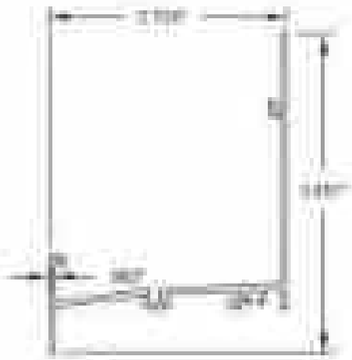




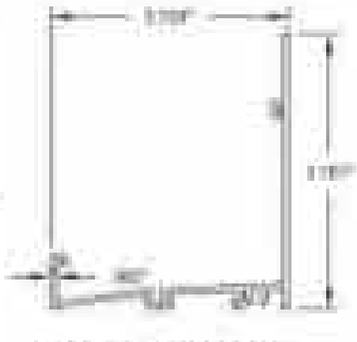


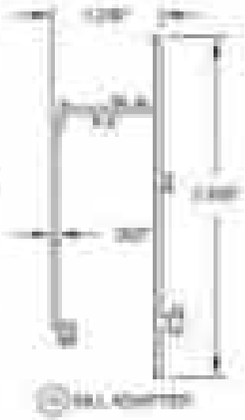






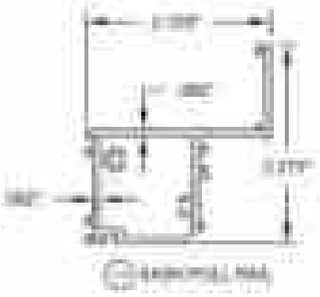




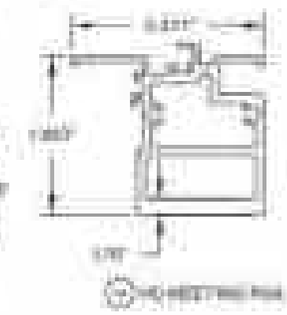










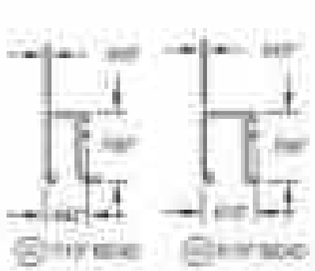












PGT

ALUM HORIZONTAL WINDOW (LMI) 2324-28

LOGAN YODER

EXTERIOR

REV. 10/15/19

REV. 10/25/19

WEIGHT LYNN MILLER

No. 39705

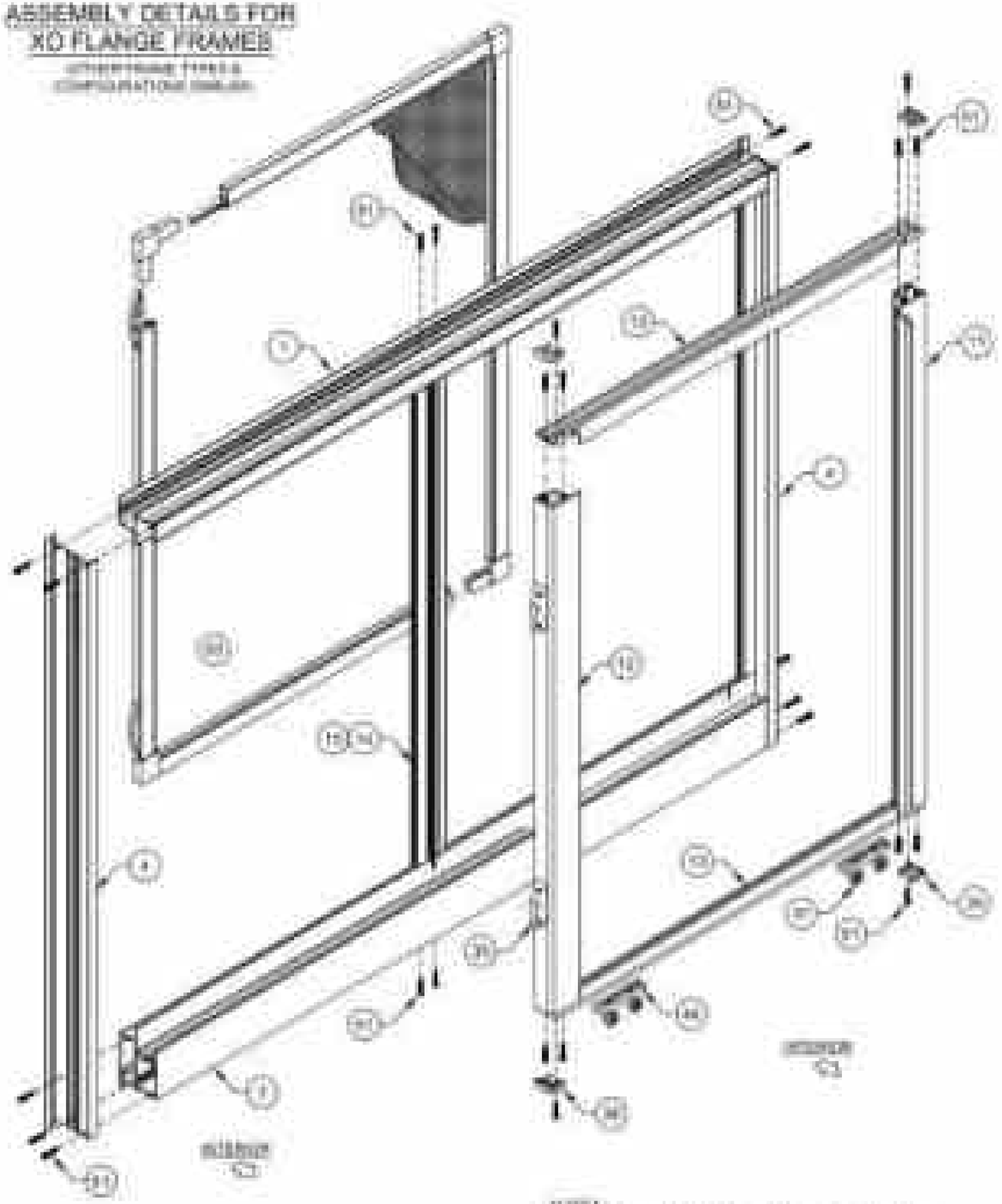
STATE OF FLORIDA

PROFESSIONAL ENGINEER

TABLE (3)

Item #	Part #	Description	Material
1	424038	Head, Flange Frame	Alum. 6063-T6
2	424039	Head, Integral Fin Frame	Alum. 6063-T6
3	424040	Head, Equal leg Frame	Alum. 6063-T6
4	424041	Jamb, Flange Frame	Alum. 6063-T6
5	424017	Jamb, Integral Fin Frame	Alum. 6063-T6
6	424042	Jamb, Equal leg Frame	Alum. 6063-T6
7	424035	Sill, Flange Frame	Alum. 6063-T6
8	424036	Sill, Integral Fin Frame	Alum. 6063-T6
9	424037	Sill, Equal leg Frame	Alum. 6063-T6
10	424029	Sill Adapter	Alum. 6063-T6
11	424043	Sash Pull Rail	Alum. 6063-T6
12	424030	Sash Lock Rail	Alum. 6063A-T61
13	424031	Sash Top & Bottom Rail	Alum. 6063-T6
14	424027	HO Meeting Rail	Alum. 6063-T6
15	424028	Sill Meeting Rail	Alum. 6063A-T61
16	424044	Screen Adapter	Alum. 6063-T6
17	424021	Nailfin/Block Hole Cover	Alum. 6063-T6
18	811PM	Woodhead Adapter	Alum. 6063-T6
19	424042	Sill Track	Alum. 6063-T6
20	424018	Jamb Lift Clip	Alum. 6063-T6
21A	424039	IO Bead	Alum. 6063-T5
21B	424011	IO Snap Bead	Alum. 6063-T5
23	424026	1-1/2" Lami Glaz. Bead	Alum. 6063-T5
24	424012	2-1/2" Lami Glaz. Bead	Alum. 6063-T5
30	377237	Glazing Bead, Bulb Vinyl for #424012 & #424026	Vinyl
31	377249	Glazing Bead, Bulb Vinyl for #424039 & #424011	Vinyl
32	711PM08	Sill/Jamb Setting Block 0.50" x 1.06" x 1"	Neoprene
33A	711PM	Lami GL Setting Block 1/8" x 3/4" x 1 1/16"	Neoprene
34B	424031A	IO Snap Setting Block	Vinyl
35	724045	Keeper Latch	Cast Zinc
36	71206	Keeper Hole Cover	Vinyl
37	41722	Hole Plug	Vinyl
38	724021	Lock Rail Cover (LH & RH)	Vinyl
39	724052	Pull Rail End Cap	Vinyl
40	724048	Roller Housing & Stem Guide	Vinyl
41	724052	Roller Wheels	Stainless Steel
42	724054	Sash Top Rail Gasket, (LH & RH)	Polyethylene
43	724055	Sash Bot Rail Gasket, (LH & RH)	Polyethylene
44	724057	Frame Header Gasket (LH & RH	Polyethylene
45	724049	Frame Sill Gasket (LH & RH)	Polyethylene
46	724053	Meeting Rail Gasket	Polyethylene
50		Weatherstrip, .187" x .313" Fin Seal @ Sash	
51		Weatherstrip, .187" x .375" Fin Seal @ MM	
52	377275	Bulb Vinyl	
60	710DOPW44	4"H x 28" W, Fin Sill Windhead Adapter	Stainless Steel
61	791PSW	MS x 1" Qty. 2+1 Strut Frame & Stack Assembly	Stainless Steel
62	-	Aluminum Screws with Flat/plastic Washer	Varies
63	-	Sill Sealant	Varies
64	-	Clear Tape, 3M, 361 or 3/8" Thin Recreational	Silicone

ASSEMBLY DETAILS FOR XO FLANGE FRAMES



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

PGT INDUSTRIES
ALUM. HORIZONTAL ROLLER WINDOW ASSEMBLY
SCALE: NTS
DRAWN BY: [illegible]
CHECKED BY: [illegible]
DATE: 11-30-22
SHEET NO. 1 OF 1 SHEETS

ROBERT LYNN BOYER
No. 38705
STATE OF FLORIDA
PROFESSIONAL ENGINEER