

SERIES HR7610
NON-IMPACT RESISTANT HORIZONTAL ROLLER WINDOW

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

2) SHUTTERS ARE REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.

3) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED 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 BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE EMBEDMENT. OVERALL SEALING/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 FIN FRAMES INSTALL SHIMS AT MAX. 18" O.C.

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

7) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

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

9) FRAME FLANGES OR INTEGRAL FINS MAY BE TRIMMED IN-FIELD TO CREATE AN EQUAL-LEG FRAME. THE EXPOSED ALUMINUM EDGE MUST BE PAINTED TO PROTECT AGAINST CORROSION.

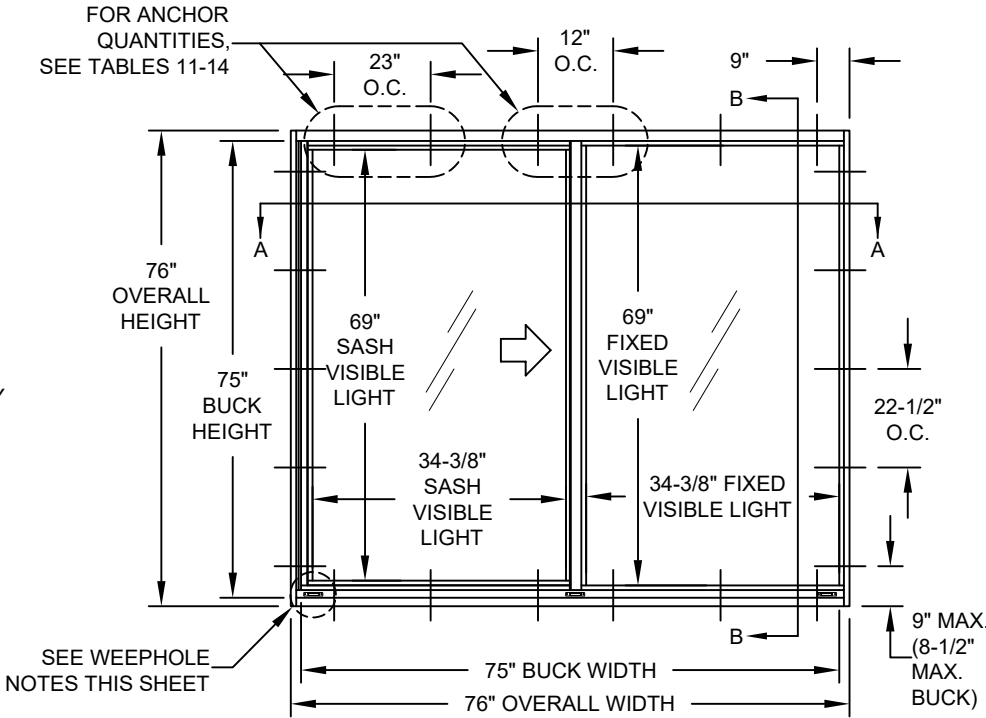
TABLE 1:

Glass Type	Description (Listed from Ext. to Int.)	DP Table #			Anchor Table #		
		XO / OX		XOX	XO / OX		XOX
		STD	HD	STD	STD	HD	STD
1	1/8" AN	2	-		11	-	-
2	1/8" TP	3	-	10	12	-	17
3	3/16" AN	4	5	8	11	13	15
4	3/16" TP	3	6	10	12	14	17
5	13/16" IG: 1/8" AN, AIRSPACE, 1/8" AN	4	-	8	11	-	15
6	13/16" IG: 1/8" TP, AIRSPACE, 1/8" TP	3	-	10	12	-	17
7	13/16" IG: 3/16" AN, AIRSPACE, 3/16" AN	3	7	9	12	14	16
8	13/16" IG: 3/16" TP, AIRSPACE, 3/16" TP	3	6	10	12	14	17

AN = ANNEALED
TP = TEMPERED

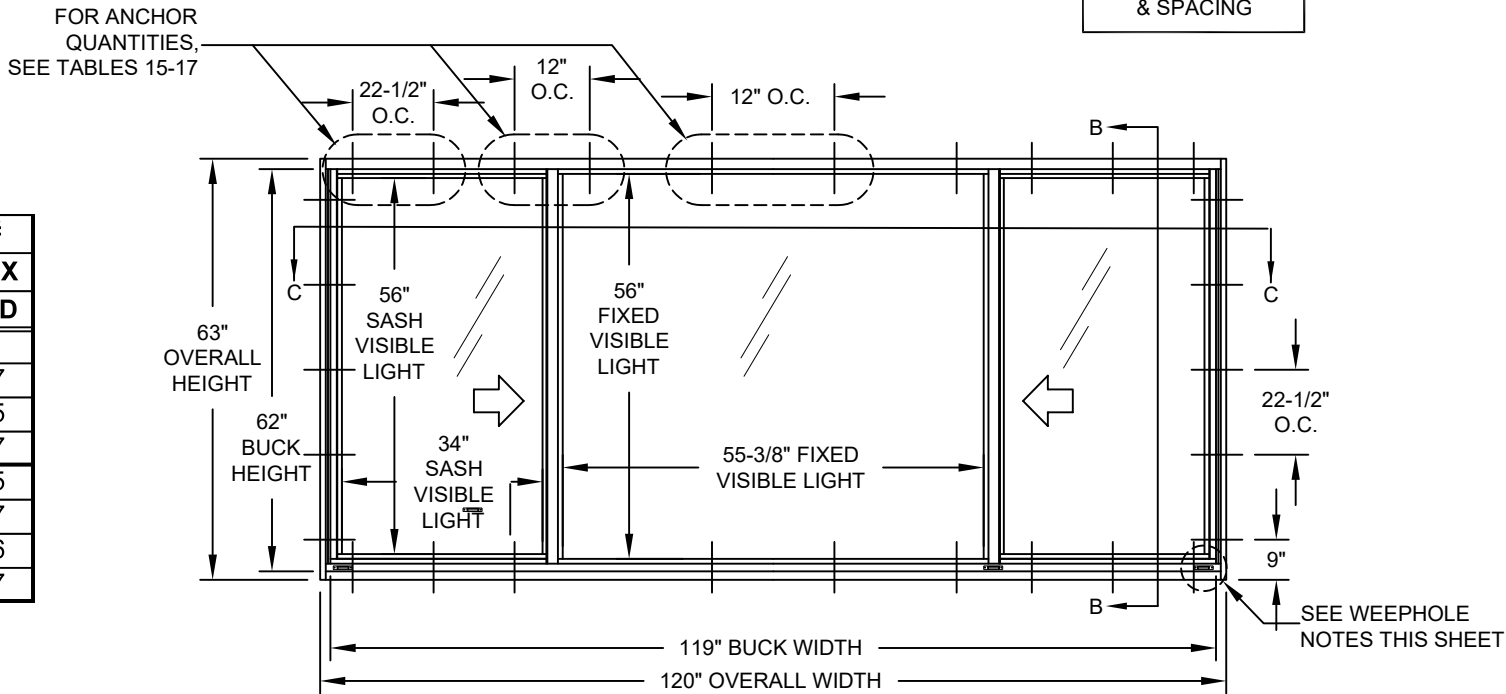
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WHERE THE PRODUCT WILL BE INSTALLED WITHIN 3,000 FEET OF A SALTWATER COASTLINE, IT MUST COMPLY WITH SECTION 1711 OF THE FBC, BUILDING OR R332 OF THE FBC, RESIDENTIAL.



TYP FLANGE. XO ELEVATION (OX SIM.)

MAX. DIMENSIONS ALLOWED SHOWN



TYP. FLANGE XOx ELEVATION

MAX. DIMENSIONS ALLOWED SHOWN

USER INSTRUCTIONS:

1) DETERMINE THE SITE SPECIFIC, WINDOW OPENING'S DESIGN PRESSURE REQUIREMENT FROM ASCE 7.

2) KNOWING YOUR GLAZING OPTION (TABLE 1), WINDOW CONFIGURATION AND SIZE, DETERMINE YOUR WINDOW'S DESIGN PRESSURE FROM TABLES 2-10. IT MUST EQUAL OR EXCEED THE DESIGN PRESSURE REQUIREMENT FOR THE WINDOW OPENING OBTAINED IN STEP 1.

3) DETERMINE THE ANCHOR QUANTITY FROM TABLES 11-17.

4) INSTALL AS PER SHEET 11 FOR FLANGE OR EQUAL-LEG INSTALLATION OR SHEET 12 FOR INTEGRAL FIN INSTALLATION.

NOTE: DESIGN PRESSURE RATING DETERMINATION IS THE SAME PROCESS FOR ALL FRAME TYPES (FLANGE, INTEGRAL FIN OR EQUAL LEG/BOX).

SEE TABLE 19 FOR INTEGRAL FIN ANCHORAGE TYPE & SPACING

DESIGN PRESSURE RATING
SEE TABLES 2-10
WATER TEST PRESSURE
15% OF (+) DP
IMPACT RATING
NOT RATED FOR IMPACT RESISTANCE

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PGT [®] WINDOWS and DOORS 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600	GENERAL NOTES & ELEVATION	1 OF 14	HR7610	1 OF 14

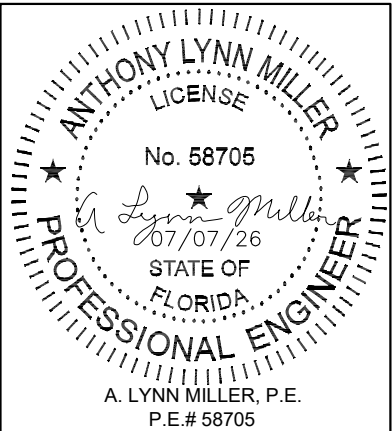


TABLE 2:

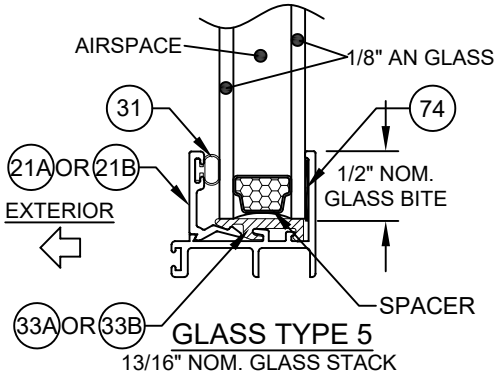
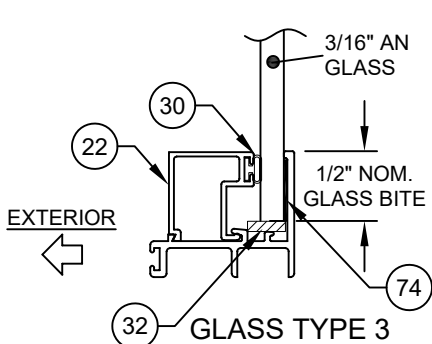
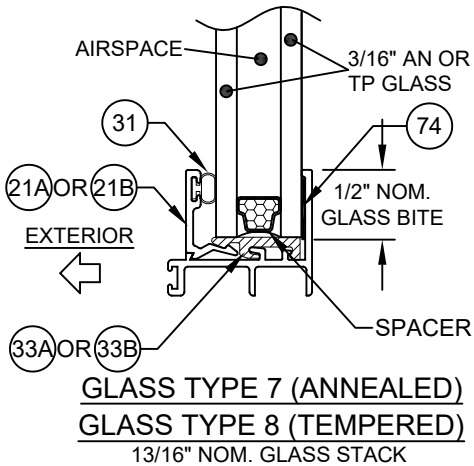
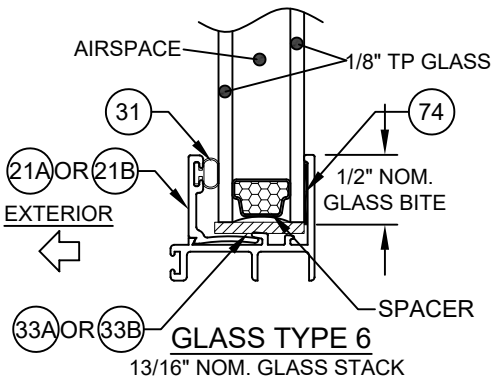
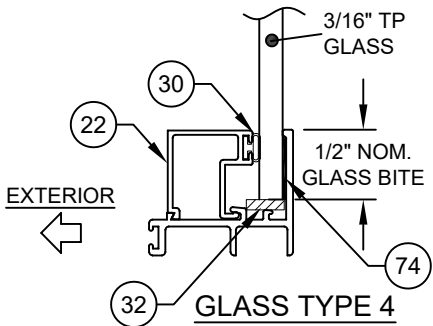
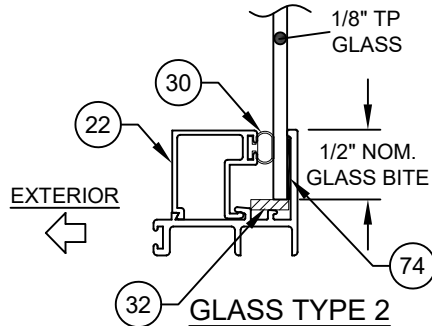
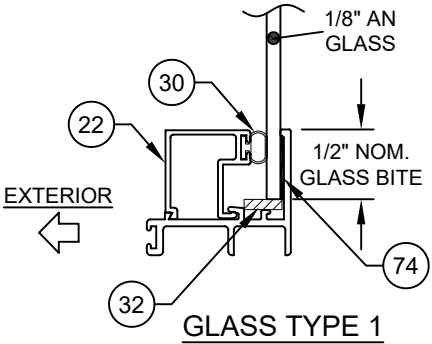
Overall Width	Design Pressure (lbs/ft ²) for XO & OX Windows									
	Glass Types: 1 Meeting Rail: Standard									
	21-1/8" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		55" Overall Hgt.		63" Overall Hgt.	
20"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-119.5	+65.0	-102.8
25"	+65.0	-130.0	+65.0	-130.0	+65.0	-110.9	+65.0	-97.0	+65.0	-83.2
37"	+65.0	-130.0	+65.0	-78.4	+57.9	-57.9	+53.5	-53.5	+50.1	-50.1
49"	+65.0	-118.0	+65.0	-71.0	+47.6	-47.6	+40.0	-40.0	+33.2	-33.2
61"	+65.0	-88.3	+62.0	-62.0	+46.1	-46.1	+39.9	-39.9	+32.9	-32.9
67"	+65.0	-79.0	+57.9	-57.9	+43.7	-43.7	+38.6	-38.6	+32.6	-32.6
74"	+65.0	-68.4	+52.0	-52.0	+40.1	-40.1	+36.0	-36.0	+30.9	-30.9

TABLE 3:

Overall Width	Design Pressure (lbs/ft ²) for XO & OX Windows									
	Glass Types: 2, 4, 6, 7, 8 Meeting Rail: Standard									
	21-1/8" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		55" Overall Hgt.		63" Overall Hgt.	
20"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
25"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
37"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
49"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-126.7	+65.0	-106.5
61"	+65.0	-130.0	+65.0	-130.0	+65.0	-129.0	+65.0	-109.2	+65.0	-90.6
67"	+65.0	-130.0	+65.0	-130.0	+65.0	-122.9	+65.0	-103.2	+65.0	-85.1
74"	+65.0	-130.0	+65.0	-130.0	+65.0	-117.6	+65.0	-97.9	+65.0	-80.0

TABLE 4:

Overall Width	Design Pressure (lbs/ft ²) for XO & OX Windows									
	Glass Types: 3, 5 Meeting Rail: Standard									
	21-1/8" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		55" Overall Hgt.		63" Overall Hgt.	
20"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
25"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
37"	+65.0	-130.0	+65.0	-130.0	+65.0	-104.2	+65.0	-96.3	+65.0	-90.2
49"	+65.0	-130.0	+65.0	-119.0	+65.0	-82.6	+65.0	-72.0	+59.8	-59.8
61"	+65.0	-130.0	+65.0	-99.3	+65.0	-72.7	+61.5	-61.5	+51.9	-51.9
67"	+65.0	-130.0	+65.0	-93.4	+65.0	-69.5	+59.6	-59.6	+49.9	-49.9
74"	+65.0	-123.1	+65.0	-83.4	+65.0	-66.1	+57.6	-57.6	+48.6	-48.6



NOTES:

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

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REGISTRATION #29296

07/07/26

ALUMINUM HORIZONTAL ROLLER

DESIGN PRESSURE TABLES

By
JENS ROSOWSKI

No.
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Sheet
HR7610

Date
07/07/26

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P.E.# 58705

TABLE 5:

Overall Width	Design Pressure (lbs/ft ²) for XO & OX Windows											
	Glass Types: 3 Meeting Rail: Heavy-Duty											
	21-1/8" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		55" Overall Hgt.		63" Overall Hgt.		76" Overall Hgt.	
20"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
25"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-114.6
37"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-117.2	+65.0	-99.5	+65.0	-79.9
49"	+65.0	-130.0	+65.0	-119.0	+65.0	-82.6	+65.0	-76.0	+65.0	-69.0	+61.4	-61.4
61"	+65.0	-130.0	+65.0	-99.3	+65.0	-72.7	+61.5	-61.5	+51.9	-51.9	+42.1	-42.1
67"	+65.0	-130.0	+65.0	-93.4	+65.0	-69.5	+59.6	-59.6	+49.9	-49.9	+39.2	-39.2
76"	+65.0	-130.0	+65.0	-81.7	+64.9	-64.9	+57.0	-57.0	+48.4	-48.4	+37.8	-37.8

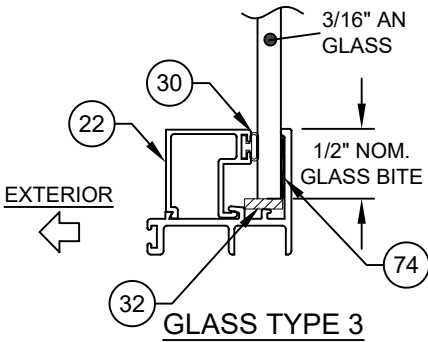


TABLE 6:

Overall Width	Design Pressure (lbs/ft ²) for XO & OX Windows											
	Glass Types: 4, 8 Meeting Rail: Heavy-Duty											
	21-1/8" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		55" Overall Hgt.		63" Overall Hgt.		76" Overall Hgt.	
20"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
25"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
37"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
49"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-111.6
61"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-119.7	+65.0	-93.8
67"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-112.4	+65.0	-87.4
76"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-127.7	+65.0	-104.0	+65.0	-80.0

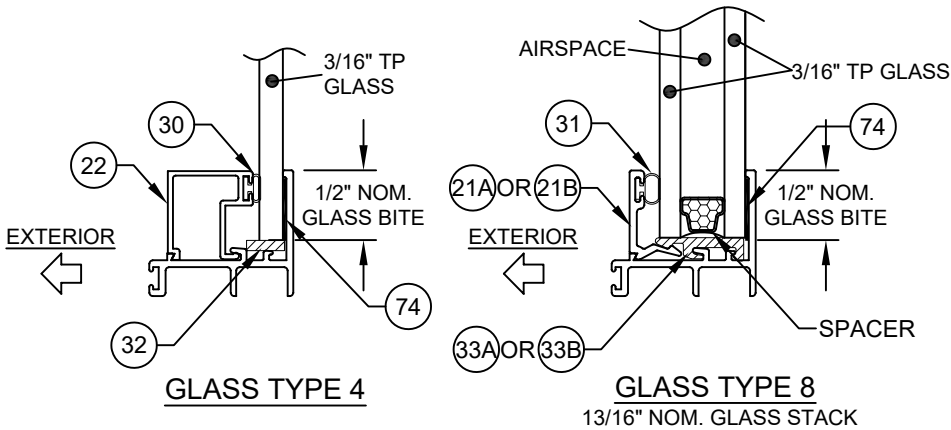
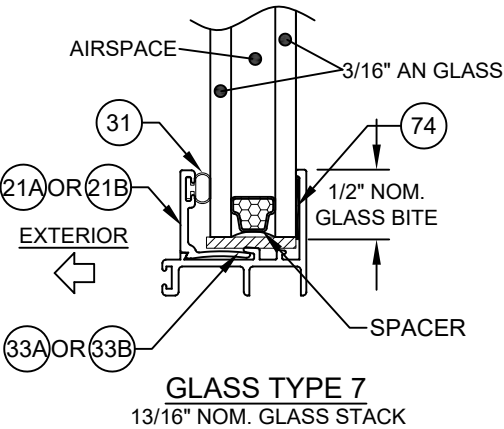


TABLE 7:

Overall Width	Design Pressure (lbs/ft ²) for XO & OX Windows											
	Glass Types: 7 Meeting Rail: Heavy-Duty											
	21-1/8" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		55" Overall Hgt.		63" Overall Hgt.		76" Overall Hgt.	
20"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
25"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
37"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
49"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-124.2	+65.0	-110.5
61"	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-110.7	+65.0	-93.4	+65.0	-75.8
67"	+65.0	-130.0	+65.0	-130.0	+65.0	-125.1	+65.0	-107.3	+65.0	-89.8	+65.0	-70.6
76"	+65.0	-130.0	+65.0	-130.0	+65.0	-116.8	+65.0	-102.6	+65.0	-87.1	+65.0	-68.0



NOTES:

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ALUMINUM HORIZONTAL ROLLER

DESIGN PRESSURE TABLES

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By JENS ROSOWSKI

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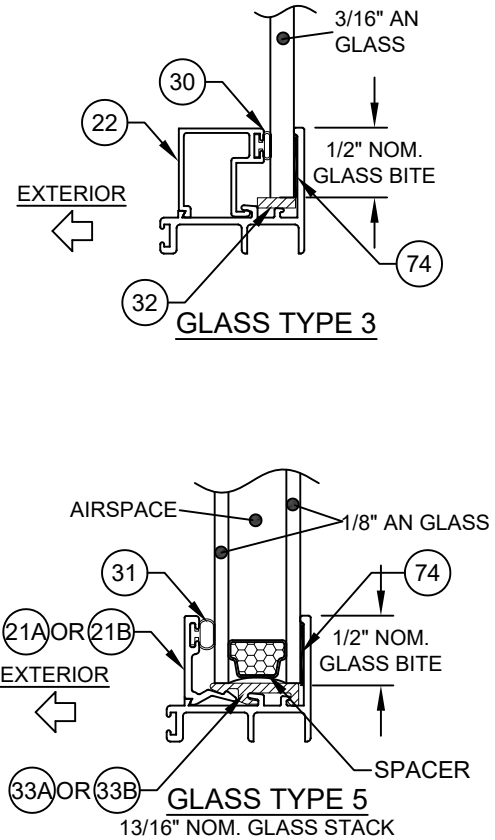
TABLE 8:

Overall Width	Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft ²) for XOX Windows								Glass Types: 3, 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"	1/4-1/2-1/4	12.038 - 12.052	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-91.4	+65.0	-81.7	+65.0	-73.8
	1/3-1/3-1/3	12.053 - 15.008	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-91.4	+65.0	-81.7	+65.0	-71.9
49"	1/4-1/2-1/4	12.038 - 13.302	+65.0	-130.0	+65.0	-130.0	+65.0	-115.0	+65.0	-80.5	+65.0	-71.8	+58.1	-58.1
	1/3-1/3-1/3	13.303 - 16.675	+65.0	-130.0	+65.0	-130.0	+65.0	-123.0	+65.0	-86.2	+65.0	-72.7	+61.7	-61.7
53-1/8"	1/4-1/2-1/4	12.038 - 14.333	+65.0	-130.0	+65.0	-130.0	+65.0	-102.0	+65.0	-73.9	+62.5	-62.5	+53.3	-53.3
	1/3-1/3-1/3	14.334 - 18.050	+65.0	-130.0	+65.0	-130.0	+65.0	-115.0	+65.0	-80.5	+65.0	-71.8	+58.1	-58.1
61"	1/4-1/2-1/4	12.038 - 16.302	+65.0	-127.8	+65.0	-100.0	+65.0	-83.4	+65.0	-66.1	+57.6	-57.6	+48.6	-48.6
	1/3-1/3-1/3	16.303 - 20.675	+65.0	-130.0	+65.0	-130.0	+65.0	-102.0	+65.0	-73.9	+62.5	-62.5	+53.3	-53.3
76"	1/4-1/2-1/4	12.038 - 20.052	+65.0	-96.3	+65.0	-68.9	+59.1	-59.1	+51.4	-51.4	+46.6	-46.6	+41.2	-41.2
	custom	20.053 - 22.185	+65.0	-130.0	+65.0	-103.0	+65.0	-86.1	+65.0	-66.8	+58.2	-58.2	+48.9	-48.9
	1/3-1/3-1/3	22.186 - 25.675	+65.0	-130.0	+65.0	-120.0	+65.0	-95.2	+65.0	-69.5	+58.9	-58.9	+49.0	-49.0
92-1/8"	1/4-1/2-1/4	** - 24.082	+65.0	-91.4	+61.3	-61.3	+51.2	-51.2	+47.1	-47.1	+42.5	-42.5	+36.9	-36.9
	custom	24.083 - 26.185	+65.0	-107.6	+65.0	-82.1	+65.0	-72.1	+59.2	-59.2	+53.0	-53.0	+44.1	-44.1
	1/3-1/3-1/3	26.186 - 31.038	+65.0	-116.8	+65.0	-92.1	+65.0	-78.6	+62.5	-62.5	+52.4	-52.4	+42.8	-42.8
97"	1/4-1/2-1/4	** - 25.302	+65.0	-91.4	+61.3	-61.3	+51.2	-51.2	+47.1	-47.1	+42.5	-42.5	+36.9	-36.9
	custom	25.303 - 27.185	+65.0	-103.0	+65.0	-76.8	+65.0	-66.8	+56.5	-56.5	+50.8	-50.8	+43.0	-43.0
	custom	27.186 - 31.038	+65.0	-109.3	+65.0	-84.0	+65.0	-73.9	+60.0	-60.0	+51.7	-51.7	+42.0	-42.0
109"	1/4-1/2-1/4	** - 28.302	+65.0	-91.4	+61.3	-61.3	+51.2	-51.2	+47.1	-47.1	+42.5	-42.5	+36.9	-36.9
	custom	28.303 - 29.185	+65.0	-95.2	+65.0	-67.3	+57.8	-57.8	+50.7	-50.7	+45.9	-45.9	+40.3	-40.3
	custom	29.186 - 31.038	+65.0	-97.6	+65.0	-70.3	+60.5	-60.5	+52.2	-52.2	+47.5	-47.5	+40.6	-40.6
120"	1/4-1/2-1/4	** - 31.038	+65.0	-91.4	+61.3	-61.3	+51.2	-51.2	+47.1	-47.1	+42.5	-42.5	+36.9	-36.9

** MIN. SASH WIDTH (FLANGE WINDOWS) = $\frac{\text{OVERALL WIDTH} - 57.924}{2}$

** MIN. SASH WIDTH (FIN & EQUAL-LEG WINDOWS) = $\frac{\text{OVERALL WIDTH} - 56.924}{2}$

- NOTES:
- 1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN. FOR INTEGRAL FIN AND EQUAL-LEG WINDOWS, SUBTRACT 1" 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.



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ALUMINUM HORIZONTAL ROLLER
DESIGN PRESSURE TABLES

07/07/26

JENS ROSOWSKI

HR7610

4 OF 14

HR7610-NI-HVHZ

TABLE 9:

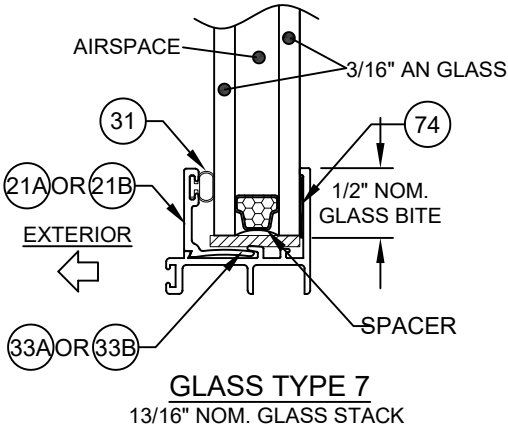
Overall Width	Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft ²) for XOX Windows										Glass Type: 7 Meeting Rail: Standard	
			21-1/8" Overall Hgt.		29" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		55" Overall Hgt.		63" Overall Hgt.	
44"	1/4-1/2-1/4	12.038 - 12.052	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
	1/3-1/3-1/3	12.053 - 15.008	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
49"	1/4-1/2-1/4	12.038 - 13.302	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-129.6	+65.0	-114.8
	1/3-1/3-1/3	13.303 - 16.675	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
53-1/8"	1/4-1/2-1/4	12.038 - 14.333	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-112.5	+65.0	-95.9
	1/3-1/3-1/3	14.334 - 18.050	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-129.6	+65.0	-114.8
61"	1/4-1/2-1/4	12.038 - 16.302	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-119.0	+65.0	-103.7	+65.0	-87.5
	1/3-1/3-1/3	16.303 - 20.675	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-112.5	+65.0	-95.9
76"	1/4-1/2-1/4	12.038 - 20.052	+65.0	-130.0	+65.0	-124.0	+65.0	-106.4	+65.0	-92.5	+65.0	-85.5	+65.0	-74.9
	custom	20.053 - 22.185	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-120.2	+65.0	-104.8	+65.0	-88.0
	1/3-1/3-1/3	22.186 - 25.675	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-126.9	+65.0	-108.2	+65.0	-90.5
92-1/8"	1/4-1/2-1/4	** - 24.082	+65.0	-130.0	+65.0	-109.3	+65.0	-90.7	+65.0	-83.2	+65.0	-76.0	+65.0	-68.6
	custom	24.083 - 26.185	+65.0	-130.0	+65.0	-130.0	+65.0	-129.8	+65.0	-106.6	+65.0	-95.4	+65.0	-83.3
	1/3-1/3-1/3	26.186 - 31.048	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-112.5	+65.0	-100.6	+65.0	-86.4
97"	1/4-1/2-1/4	** - 25.302	+65.0	-130.0	+65.0	-109.3	+65.0	-90.7	+65.0	-83.2	+65.0	-76.0	+65.0	-68.6
	custom	25.303 - 27.185	+65.0	-130.0	+65.0	-130.0	+65.0	-120.2	+65.0	-101.7	+65.0	-91.4	+65.0	-80.6
	1/3-1/3-1/3	27.186 - 32.675	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-108.0	+65.0	-97.2	+65.0	-84.2
109"	1/4-1/2-1/4	** - 28.302	+65.0	-130.0	+65.0	-109.3	+65.0	-90.7	+65.0	-83.2	+65.0	-76.0	+65.0	-68.6
	custom	28.303 - 30.185	+65.0	-130.0	+65.0	-121.1	+65.0	-104.0	+65.0	-91.3	+65.0	-84.1	+65.0	-73.8
	1/3-1/3-1/3	30.186 - 36.675	+65.0	-130.0	+65.0	-130.0	+65.0	-113.6	+65.0	-97.7	+65.0	-88.9	+65.0	-78.7
113-5/8"	1/4-1/2-1/4	** - 29.463	+65.0	-130.0	+65.0	-109.3	+65.0	-90.7	+65.0	-83.2	+65.0	-76.0	+65.0	-68.6
	custom	29.464 - 33.185	+65.0	-130.0	+65.0	-115.2	+65.0	-99.0	+65.0	-88.7	+65.0	-81.2	+65.0	-72.0
	1/3-1/3-1/3	33.186 - 38.222	+65.0	-130.0	+65.0	-130.0	+65.0	-116.8	+65.0	-99.5	+65.0	-90.2	+65.0	-79.9
120"	1/4-1/2-1/4	** - 31.052	+65.0	-130.0	+65.0	-109.3	+65.0	-90.7	+65.0	-83.2	+65.0	-76.0	+65.0	-68.6
	custom	31.053 - 33.185	+65.0	-130.0	+65.0	-110.3	+65.0	-92.2	+65.0	-84.8	+65.0	-77.2	+65.0	-69.3
	custom	33.186 - 38.222	+65.0	-130.0	+65.0	-118.3	+65.0	-101.5	+65.0	-90.0	+65.0	-82.6	+65.0	-72.9

** MIN. SASH WIDTH (FLANGE WINDOWS) = $\frac{\text{OVERALL WIDTH} - 58.556}{2}$

** MIN. SASH WIDTH (FIN & EQUAL-LEG WINDOWS) = $\frac{\text{OVERALL WIDTH} - 57.556}{2}$

NOTES:

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



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ALUMINUM HORIZONTAL ROLLER
DESIGN PRESSURE TABLES

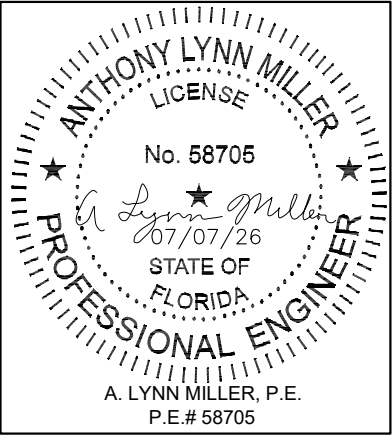
07/07/26
Date

JENS ROSOWSKI
By

5 OF 14
DWG No.

HR7610
Sheet

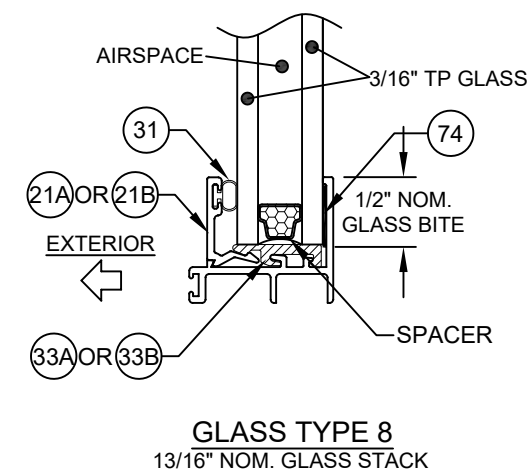
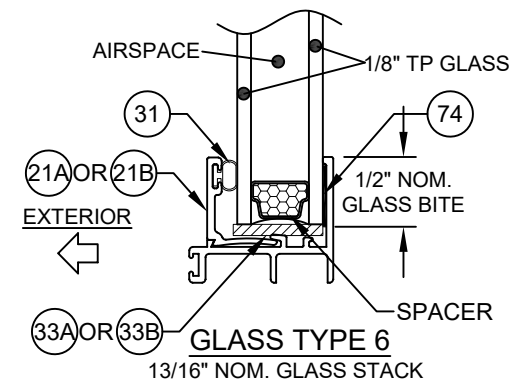
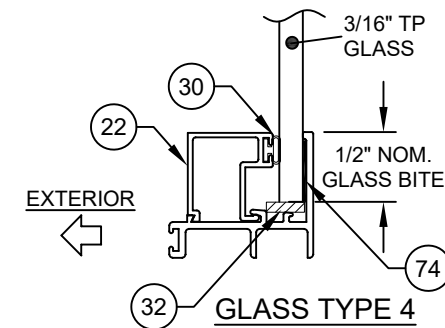
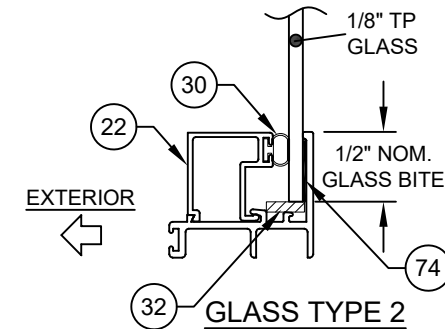
HR7610-NI-HVHZ
Series



Overall Width	Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft ²) for XOX Windows								Glass Types: 2, 4, 6, 8 Meeting Rail: Standard			
			21-1/8" Overall Hgt.		29" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		55" Overall Hgt.		63" Overall Hgt.	
44"	1/4-1/2-1/4	12.038 - 12.052	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
	1/3-1/3-1/3	12.053 - 15.008	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
49"	1/4-1/2-1/4	12.038 - 13.302	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-129.2
	1/3-1/3-1/3	13.303 - 16.675	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
53-1/8"	1/4-1/2-1/4	12.038 - 14.333	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
	1/3-1/3-1/3	14.334 - 18.050	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-129.2
61"	1/4-1/2-1/4	12.038 - 16.302	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-114.7
	1/3-1/3-1/3	16.303 - 20.675	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-116.9
76"	1/4-1/2-1/4	12.038 - 20.052	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-116.8	+65.0	-103.6	+65.0	-91.6
	custom	20.053 - 22.185	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-126.7	+65.0	-104.8
	1/3-1/3-1/3	22.186 - 25.675	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-125.1	+65.0	-104.0
92-1/8"	1/4-1/2-1/4	** - 24.082	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-104.0	+65.0	-92.8	+65.0	-80.8
	custom	24.083 - 26.185	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-114.9	+65.0	-93.6
	1/3-1/3-1/3	26.186 - 31.048	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-111.2	+65.0	-90.9
97"	1/4-1/2-1/4	** - 25.302	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-104.0	+65.0	-92.8	+65.0	-80.8
	custom	25.303 - 27.185	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-128.4	+65.0	-112.8	+65.0	-91.3
	1/3-1/3-1/3	27.186 - 32.675	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-108.2	+65.0	-87.9
109"	1/4-1/2-1/4	** - 28.302	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-104.0	+65.0	-92.8	+65.0	-80.8
	custom	28.303 - 30.185	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-115.2	+65.0	-102.0	+65.0	-86.5
	1/3-1/3-1/3	30.186 - 36.675	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-123.2	+65.0	-103.2	+65.0	-82.6
113-5/8"	1/4-1/2-1/4	** - 29.463	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-104.0	+65.0	-92.8	+65.0	-80.8
	custom	29.464 - 33.185	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-111.2	+65.0	-98.8	+65.0	-83.6
	1/3-1/3-1/3	33.186 - 38.222	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-125.2	+65.0	-102.4	+65.0	-82.1
120"	1/4-1/2-1/4	** - 31.052	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-104.0	+65.0	-92.8	+65.0	-80.8
	custom	31.053 - 33.185	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-105.6	+65.0	-94.4	+65.0	-82.0
	custom	33.186 - 38.222	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0</						

$$** \text{ MIN. SASH WIDTH (FIN \& EQUAL-LEG WINDOWS)} = \frac{\text{OVERALL WIDTH} - 57.556}{2}$$

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



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ALUMINUM HORIZONTAL ROLLER		Date	07/07/26
DESIGN PRESSURE TABLES		By Drown	JENS ROSOWSKI
Series HR7610	Sheet 6 OF 14	DWG No.	HR7610-NI-HVHZ

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 No. 58705
 A. Lynn Miller
 07/07/26
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

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

TABLE 11:

Overall Width	Anchor Quantities for XO & OX Windows									
	Glass Types: 1, 3, 5 Meeting Rail: Standard									
	21-1/8" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		55" Overall Hgt.		63" Overall Hgt.	
	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
20"	1+C2+1	2	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
25"	1+C2+1	2	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
37"	1+C2+1	2	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
49"	1+C2+1	2	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
61"	1+C2+1	2	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
67"	2+C2+2	2	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
74"	2+C2+2	2	2+C2+2	2	1+C2+1	3	1+C2+1	3	1+C2+1	3

TABLE 12:

Overall Width	Anchor Quantities for XO & OX Windows									
	Glass Types: 2, 4, 6, 7, 8 Meeting Rail: Standard									
	21-1/8" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		55" Overall Hgt.		63" Overall Hgt.	
	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
20"	1+C2+1	2	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
25"	1+C2+1	2	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3
37"	1+C2+1	2	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C3+1	3
49"	1+C2+1	2	1+C2+1	2	1+C2+1	3	1+C3+1	3	1+C3+1	3
61"	1+C2+1	2	1+C2+1	2	1+C3+1	3	1+C3+1	3	1+C3+1	3
67"	2+C2+2	2	2+C2+2	2	2+C3+2	3	1+C3+1	3	1+C3+1	3
74"	2+C2+2	2	2+C2+2	2	2+C3+2	3	2+C3+2	3	1+C3+1	3

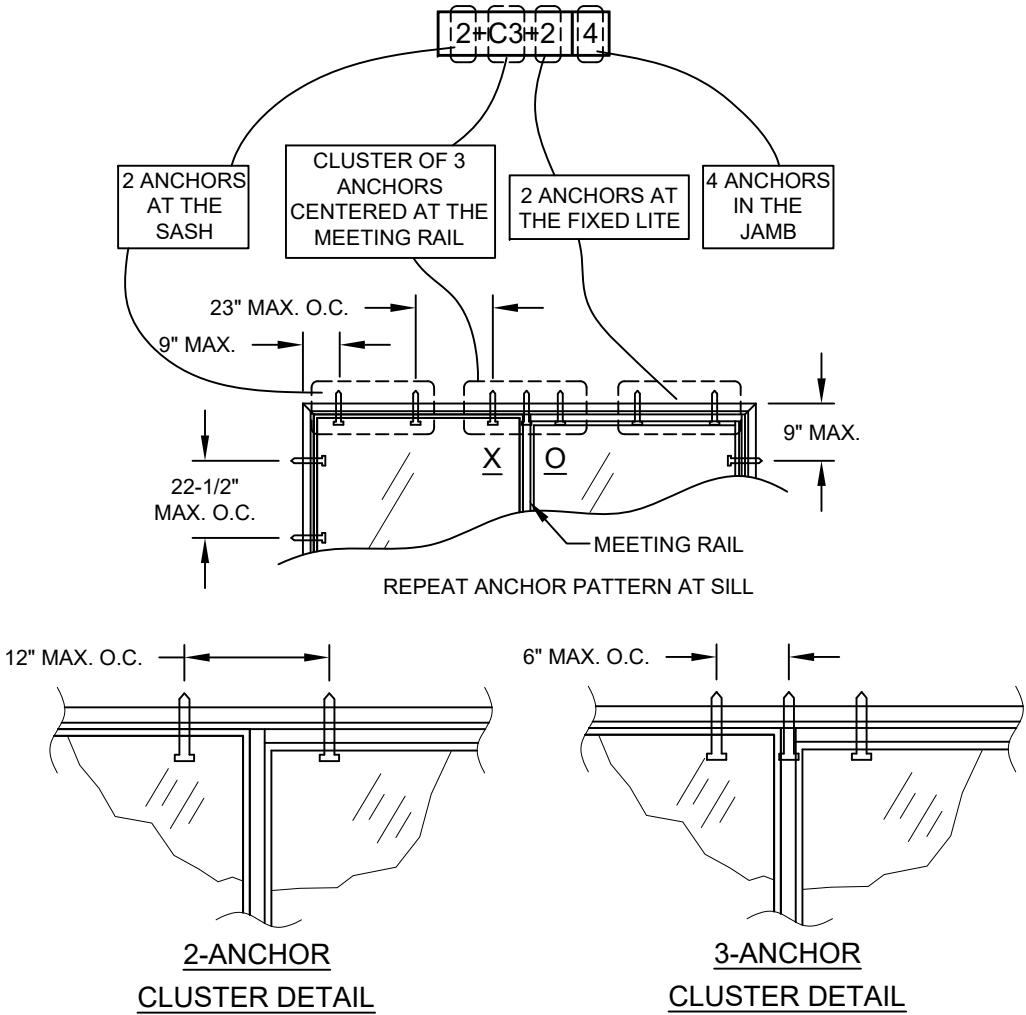
TABLE 13:

Overall Width	Anchor Quantities for XO & OX Windows											
	Glass Types: 3 Meeting Rail: Heavy-Duty											
	21-1/8" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		55" Overall Hgt.		63" Overall Hgt.		76" Overall Hgt.	
	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
20"	1+C2+1	2	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	4
25"	1+C2+1	2	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	4
37"	1+C2+1	2	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	4
49"	1+C2+1	2	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	4
61"	1+C2+1	2	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	4
67"	2+C2+2	2	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	4
76"	2+C2+2	2	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	4

TABLE 14:

Overall Width	Anchor Quantities for XO & OX Windows											
	Glass Types: 4, 7, 8 Meeting Rail: Heavy-Duty											
	21-1/8" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		55" Overall Hgt.		63" Overall Hgt.		76" Overall Hgt.	
	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
20"	1+C2+1	2	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	4
25"	1+C2+1	2	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C2+1	3	1+C2+1	4
37"	1+C2+1	2	1+C2+1	2	1+C2+1	3	1+C2+1	3	1+C3+1	3	1+C3+1	4
49"	1+C2+1	2	1+C2+1	2	1+C2+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	4
61"	1+C2+1	2	1+C2+1	2	1+C3+1	3	1+C3+1	3	1+C3+1	3	1+C3+1	4
67"	2+C2+2	2	2+C2+2	2	2+C3+2	3	2+C3+2	3	2+C3+2	3	1+C3+1	4
76"	2+C2+2	2	2+C2+2	2	2+C3+2	3	2+C3+2	3	2+C3+2	3	1+C3+1	4

GUIDE TO USING ANCHOR QUANTITY TABLES FOR XO/OX WINDOWS:



- NOTES:
- 1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN. FOR EQUAL-LEG WINDOWS, SUBTRACT 1" 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.

PREPARED BY A. LYNN MILLER
3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

PGT®
WINDOWS and DOORS
3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

07/07/26
Date

By
JENS ROSOWSKI

7 OF 14
Sheet

HR7610-NI-HVHZ
Series

ALUMINUM HORIZONTAL ROLLER
ANCHOR QUANTITY TABLES

HR7610
Desc.

ANTHONY LYNN MILLER
LICENSE
No. 58705
07/07/26
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 15:

Overall Width	Sash Configuration	Sash Width Range (in)	Anchor Quantities for XOX Windows											
			Glass Types: 3, 5 Meeting Rail: Standard											
			21-1/8" Overall Hgt.		29" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		55" Overall Hgt.		63" Overall Hgt.	
			Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
44"	1/4-1/2-1/4	12.038 - 12.052	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3
	1/3-1/3-1/3	12.053 - 15.008	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3
49"	1/4-1/2-1/4	12.038 - 13.302	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3
	1/3-1/3-1/3	13.303 - 16.675	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3
53-1/8"	1/4-1/2-1/4	12.038 - 14.333	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3
	1/3-1/3-1/3	14.334 - 18.050	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3
61"	1/4-1/2-1/4	12.038 - 16.302	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3
	1/3-1/3-1/3	16.303 - 20.675	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3
76"	1/4-1/2-1/4	12.038 - 20.052	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	3	1+C2+2+C2+1	3
	custom	20.053 - 22.185	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3
	1/3-1/3-1/3	22.186 - 25.675	1+C2+1+C2+1	2	1+C2+2+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3
92-1/8"	1/4-1/2-1/4	** - 24.082	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	3	1+C2+3+C2+1	3
	custom	24.083 - 26.185	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	3	1+C2+2+C2+1	3
	1/3-1/3-1/3	26.186 - 31.038	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3
97"	1/4-1/2-1/4	** - 25.302	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	3	1+C2+3+C2+1	3
	custom	25.303 - 27.185	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	3	1+C2+2+C2+1	3
	custom	27.186 - 31.038	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	3	1+C2+2+C2+1	3
109"	1/4-1/2-1/4	** - 28.302	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	3	1+C2+3+C2+1	3
	custom	28.303 - 29.185	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	3	1+C2+3+C2+1	3
	custom	29.186 - 31.038	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	3	1+C2+3+C2+1	3
120"	1/4-1/2-1/4	** - 31.038	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	3	1+C2+3+C2+1	3

** MIN. SASH WIDTH (FLANGE WINDOWS) = $\frac{\text{OVERALL WIDTH} - 57.924}{2}$

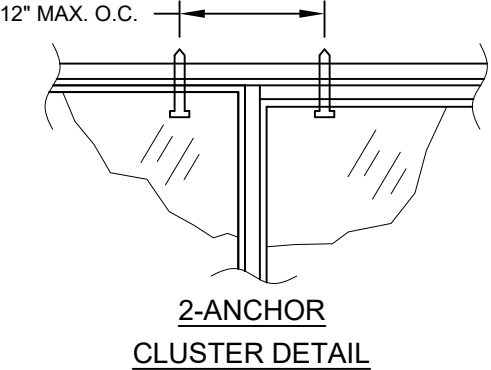
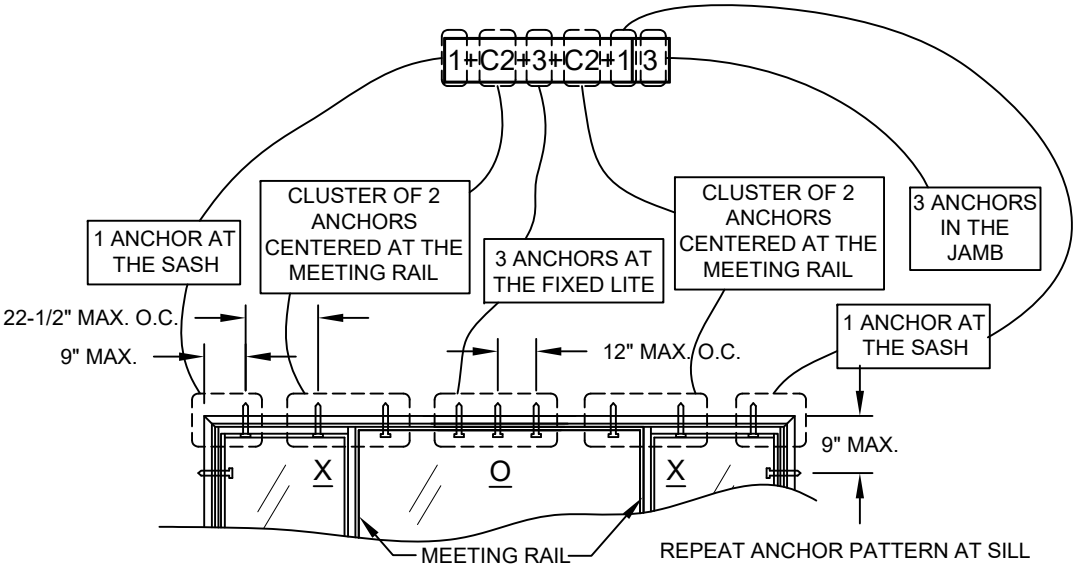
** MIN. SASH WIDTH (EQUAL-LEG WINDOWS) = $\frac{\text{OVERALL WIDTH} - 56.924}{2}$

NOTES:

1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN. FOR EQUAL-LEG WINDOWS, SUBTRACT 1" 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.

GUIDE TO
USING ANCHOR
QUANTITY
TABLES FOR
XOX WINDOWS:



PGT®
WINDOWS
and DOORS

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REGISTRATION #29296

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3400 PRECISION DRIVE
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ALUMINUM HORIZONTAL ROLLER

ANCHOR QUANTITY TABLES

HR7610

8 OF 14

HR7610-NI-HVHZ

07/07/26

JENS ROSOWSKI

By

DWG No.

Sheet

Series

Title

Desc.

ANTHONY LYNN MILLER
LICENSE
No. 58705
07/07/26
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 16:

Overall Width	Sash Configuration	Sash Width Range (in)	Anchor Quantities for XOX Windows												Glass Types: 7	
			Meeting Rail: Standard													
			21-1/8" Overall Hgt.		29" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		55" Overall Hgt.		63" Overall Hgt.			
			Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb		
44"	1/4-1/2-1/4	12.038 - 12.052	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3		
	1/3-1/3-1/3	12.053 - 15.008	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	3		
49"	1/4-1/2-1/4	12.038 - 13.302	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3		
	1/3-1/3-1/3	13.303 - 16.675	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	3		
53-1/8"	1/4-1/2-1/4	12.038 - 14.333	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3		
	1/3-1/3-1/3	14.334 - 18.050	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	3		
61"	1/4-1/2-1/4	12.038 - 16.302	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	3	1+C2+2+C2+1	3		
	1/3-1/3-1/3	16.303 - 20.675	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3		
76"	1/4-1/2-1/4	12.038 - 20.052	1+C2+2+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	3	1+C2+2+C2+1	3		
	custom	20.053 - 22.185	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	3	1+C2+2+C2+1	3		
	1/3-1/3-1/3	22.186 - 25.675	1+C2+1+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C3+2+C3+1	3	1+C3+1+C3+1	3	1+C3+1+C3+1	3		
92-1/8"	1/4-1/2-1/4	** - 24.082	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	3	1+C2+3+C2+1	3		
	custom	24.083 - 26.185	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+3+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	3	1+C3+2+C3+1	3		
	1/3-1/3-1/3	26.186 - 31.048	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C3+2+C3+1	3	1+C3+2+C3+1	3		
97"	1/4-1/2-1/4	** - 25.302	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	3	1+C2+3+C2+1	3		
	custom	25.303 - 27.185	1+C2+2+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	3	1+C3+2+C3+1	3		
	1/3-1/3-1/3	27.186 - 32.675	1+C2+2+C2+1	2	2+C2+2+C2+2	2	2+C2+3+C2+2	2	1+C2+2+C2+1	3	1+C3+2+C3+1	3	1+C3+2+C3+1	3		
109"	1/4-1/2-1/4	** - 28.302	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	3	1+C2+3+C2+1	3		
	custom	28.303 - 30.185	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	3	1+C3+3+C3+1	3		
	1/3-1/3-1/3	30.186 - 36.675	2+C2+2+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	3	1+C3+2+C3+1	3	1+C3+2+C3+1	3		
113-5/8"	1/4-1/2-1/4	** - 29.463	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	3	1+C2+3+C2+1	3		
	custom	29.464 - 33.185	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	3	1+C3+3+C3+1	3		
	1/3-1/3-1/3	33.186 - 38.222	2+C2+2+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C2+2+C2+2	3	2+C3+2+C3+2	3	1+C3+2+C3+1	3		
120"	1/4-1/2-1/4	** - 31.052	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	3	1+C2+3+C2+1	3		
	custom	31.053 - 33.185	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	3	1+C2+3+C2+1	3		
	custom	33.186 - 38.222	2+C2+2+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	3	1+C2+3+C2+1	3	1+C3+2+C3+1	3		

** MIN. SASH WIDTH (FLANGE WINDOWS) = $\frac{\text{OVERALL WIDTH} - 58.556}{2}$

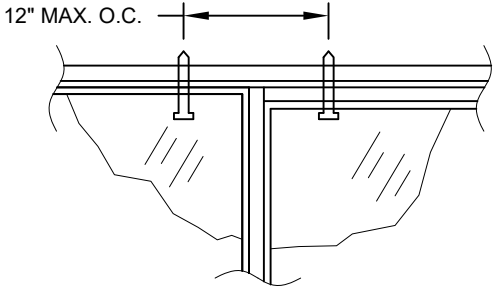
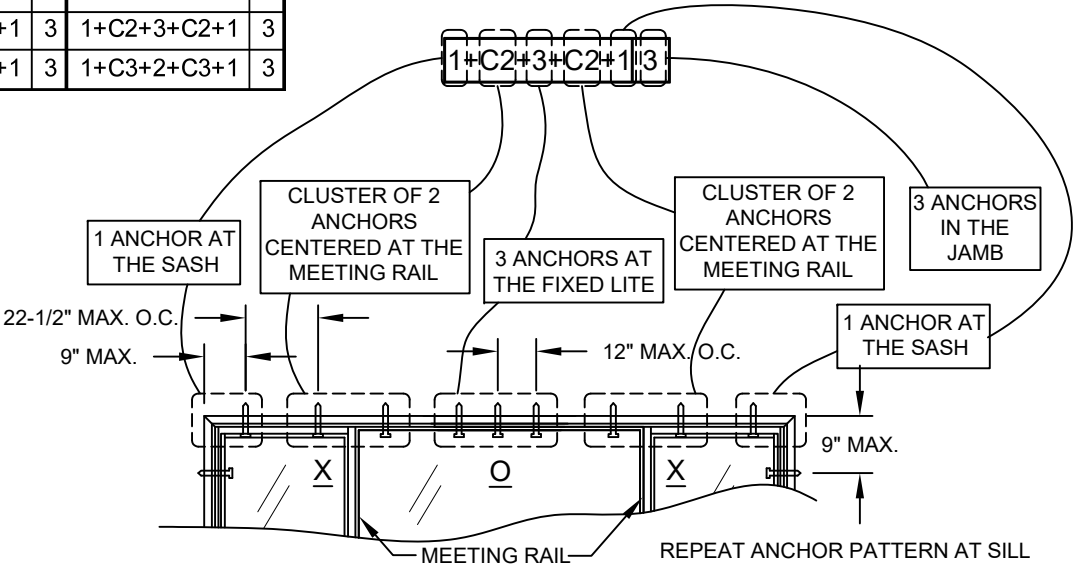
** MIN. SASH WIDTH (EQUAL-LEG WINDOWS) = $\frac{\text{OVERALL WIDTH} - 57.556}{2}$

NOTES:

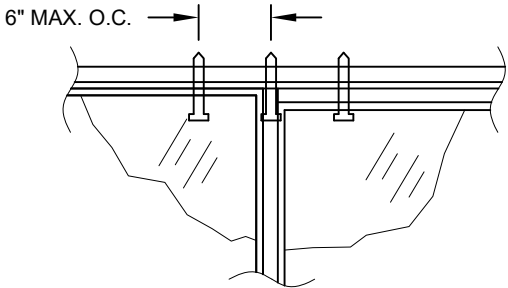
1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN. FOR EQUAL-LEG WINDOWS, SUBTRACT 1" FROM THE TIP TO TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

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

GUIDE TO
USING ANCHOR
QUANTITY
TABLES FOR
XOX WINDOWS:



2-ANCHOR
CLUSTER DETAIL



3-ANCHOR
CLUSTER DETAIL

PGT®
WINDOWS
and DOORS

3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296

PREPARED BY A. LYNN MILLER
3400 PRECISION DRIVE
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ALUMINUM HORIZONTAL ROLLER

ANCHOR QUANTITY TABLES

07/07/26

By JENS ROSOWSKI

DWG No. HR7610

9 OF 14

Sheet

Series Desc. Title

HR7610-NI-HVHZ

ANTHONY LYNN MILLER
LICENSE
No. 58705
07/07/26
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 17:

Overall Width	Sash Configuration	Sash Width Range (in)	Anchor Quantities for XOX Windows											
			21-1/8" Overall Hgt.		29" Overall Hgt.		37" Overall Hgt.		49" Overall Hgt.		55" Overall Hgt.		63" Overall Hgt.	
			Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb
44"	1/4-1/2-1/4	12.038 - 12.052	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C2+1+C2+1	3
	1/3-1/3-1/3	12.053 - 15.008	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	3
49"	1/4-1/2-1/4	12.038 - 13.302	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	3
	1/3-1/3-1/3	13.303 - 16.675	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	3
53-1/8"	1/4-1/2-1/4	12.038 - 14.333	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	3
	1/3-1/3-1/3	14.334 - 18.050	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	3	1+C3+1+C3+1	3
61"	1/4-1/2-1/4	12.038 - 16.302	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C3+2+C3+1	3	1+C3+2+C3+1	3
	1/3-1/3-1/3	16.303 - 20.675	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C3+1+C3+1	3	1+C3+1+C3+1	3
76"	1/4-1/2-1/4	12.038 - 20.052	1+C2+2+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	3	1+C3+3+C3+1	3
	custom	20.053 - 22.185	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C3+2+C3+1	3	1+C3+2+C3+1	3	1+C3+2+C3+1	3
92-1/8"	1/4-1/2-1/4	22.186 - 25.675	1+C2+1+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C3+2+C3+1	3	1+C3+2+C3+1	3	1+C3+1+C3+1	3
	custom	24.083 - 26.185	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+4+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	3	1+C3+3+C3+1	3
97"	1/4-1/2-1/4	26.186 - 31.048	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C3+2+C3+1	3	1+C3+2+C3+1	3	1+C3+2+C3+1	3
	custom	25.303 - 27.185	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+4+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	3	1+C3+3+C3+1	3
109"	1/4-1/2-1/4	27.186 - 32.675	1+C2+2+C2+1	2	2+C2+2+C2+2	2	2+C2+3+C2+2	2	2+C3+3+C3+2	3	1+C3+2+C3+1	3	1+C3+2+C3+1	3
	custom	28.303 - 30.185	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C3+3+C3+1	3	1+C3+3+C3+1	3	1+C3+3+C3+1	3
113-5/8"	1/4-1/2-1/4	30.186 - 36.675	2+C2+2+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C3+3+C3+2	3	2+C3+3+C3+2	3	1+C3+2+C3+1	3
	custom	29.464 - 33.185	1+C2+3+C2+1	2	2+C2+3+C2+2	2	2+C2+3+C2+2	2	1+C3+3+C3+1	3	1+C3+3+C3+1	3	1+C3+3+C3+1	3
120"	1/4-1/2-1/4	33.186 - 38.222	2+C2+2+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C3+3+C3+2	3	2+C3+3+C3+2	3	1+C3+2+C3+1	3
	custom	31.053 - 33.185	1+C2+3+C2+1	2	2+C2+3+C2+2	2	2+C2+4+C2+2	2	1+C2+3+C2+1	3	1+C3+3+C3+1	3	1+C3+3+C3+1	3
120"	custom	33.186 - 38.222	2+C2+2+C2+2	2	2+C2+3+C2+2	2	2+C2+3+C2+2	2	2+C3+3+C3+2	3	2+C3+3+C3+2	3	1+C3+3+C3+1	3

** MIN. SASH WIDTH (FLANGE WINDOWS) = $\frac{\text{OVERALL WIDTH} - 58.556}{2}$

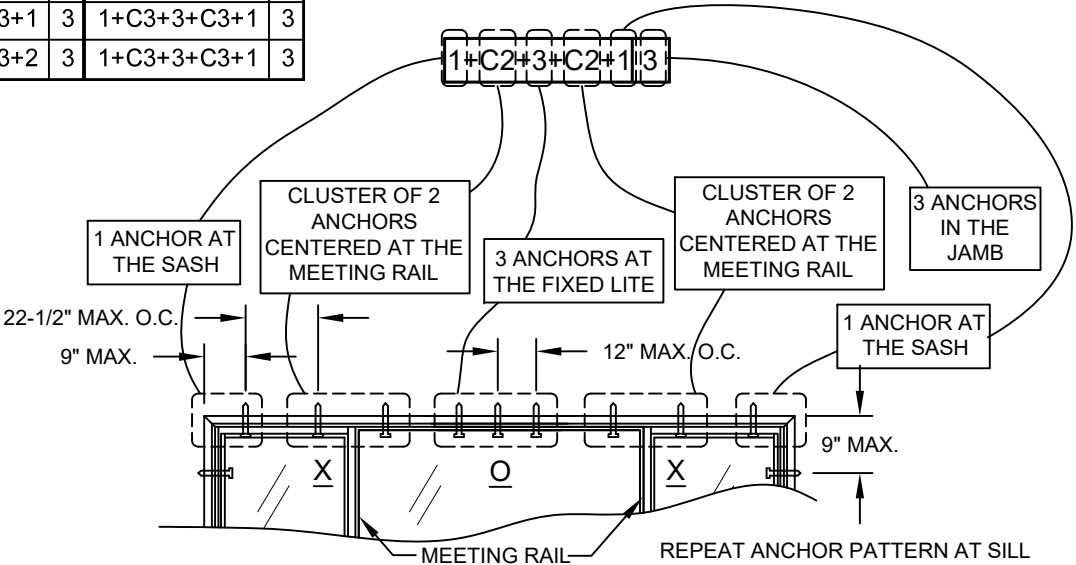
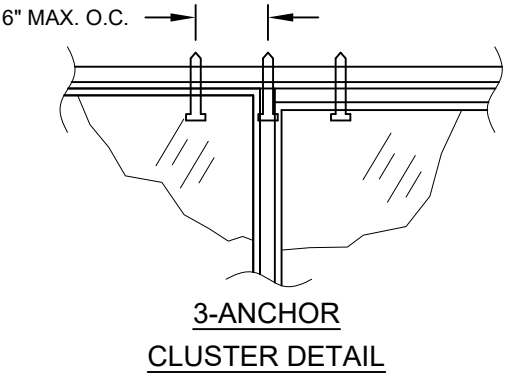
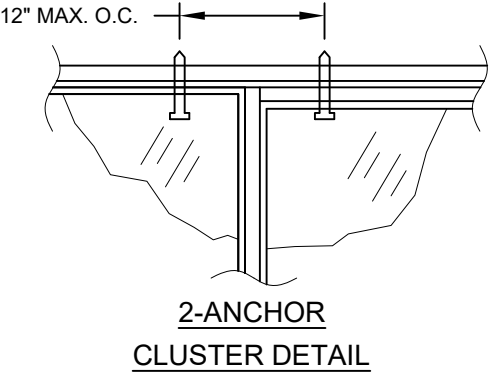
** MIN. SASH WIDTH (EQUAL-LEG WINDOWS) = $\frac{\text{OVERALL WIDTH} - 57.556}{2}$

GUIDE TO
USING ANCHOR
QUANTITY
TABLES FOR
XOX WINDOWS:

NOTES:

1) OVERALL (TIP TO TIP) DIMENSIONS SHOWN. FOR EQUAL-LEG WINDOWS, SUBTRACT 1" 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.



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3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296

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3400 PRECISION DRIVE
N. VENICE, FL 34275
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ALUMINUM HORIZONTAL ROLLER

ANCHOR QUANTITY TABLES

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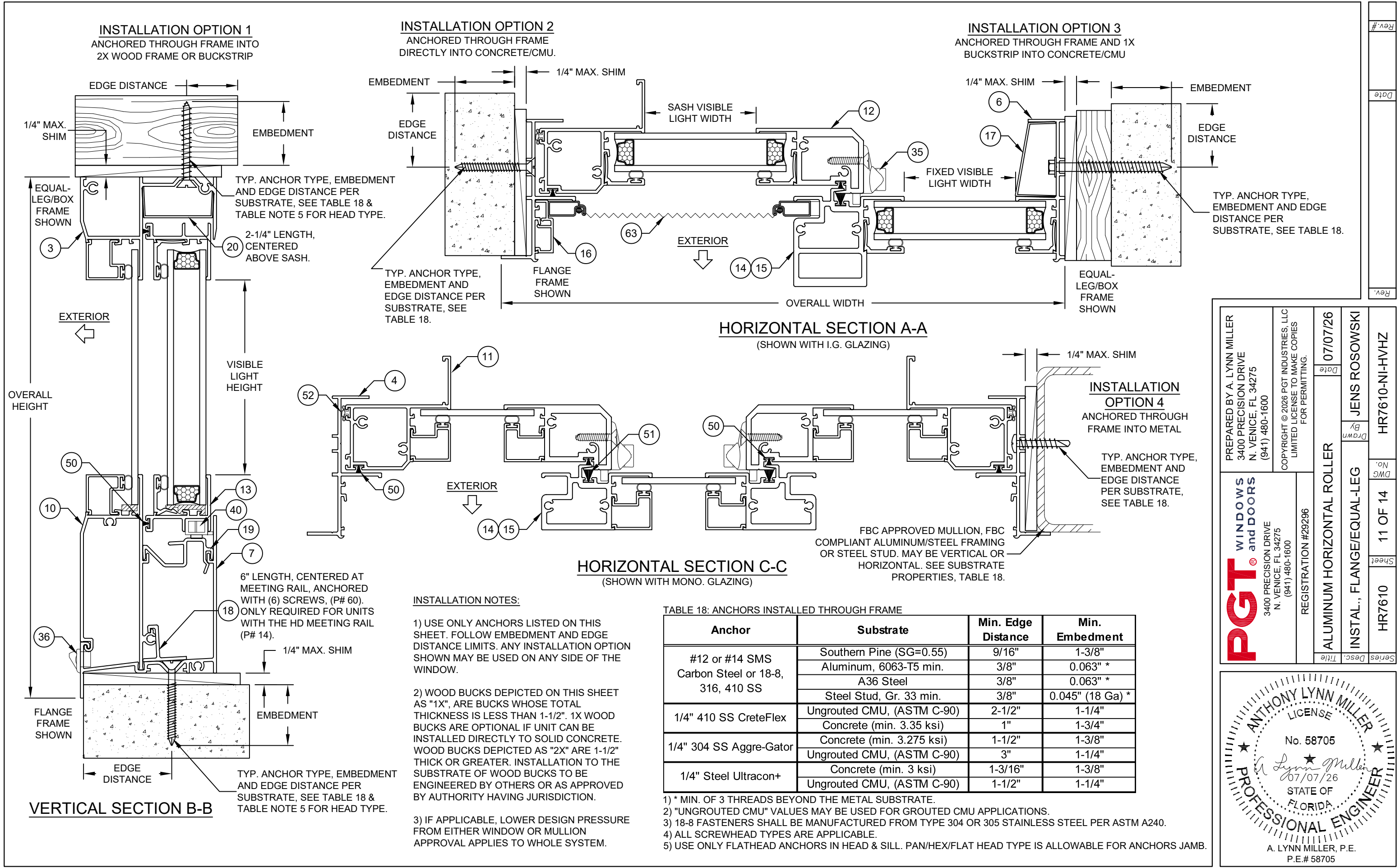
No. 58705

07/07/26

STATE OF FLORIDA

PROFESSIONAL ENGINEER

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



INSTALLATION NOTES:

- 1) USE ONLY ANCHORS LISTED ON THIS SHEET. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
 - 2) WOOD BUCKS DEPICTED ON THIS SHEET AS "1X", ARE BUCKS WHOSE TOTAL THICKNESS IS LESS THAN 1-1/2". 1X WOOD BUCKS ARE OPTIONAL IF UNIT CAN BE INSTALLED DIRECTLY TO SOLID CONCRETE. WOOD BUCKS DEPICTED AS "2X" ARE 1-1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY AUTHORITY HAVING JURISDICTION.
 - 3) IF APPLICABLE, LOWER DESIGN PRESSURE FROM EITHER WINDOW OR MULLION APPROVAL APPLIES TO WHOLE SYSTEM.
- TABLE 18: ANCHORS INSTALLED THROUGH FRAME
- | Anchor | Substrate | Min. Edge Distance | Min. Embedment |
|--|----------------------------|--------------------|------------------|
| #12 or #14 SMS Carbon Steel or 18-8, 316, 410 SS | Southern Pine (SG=0.55) | 9/16" | 1-3/8" |
| | Aluminum, 6063-T5 min. | 3/8" | 0.063" * |
| | A36 Steel | 3/8" | 0.063" * |
| | Steel Stud, Gr. 33 min. | 3/8" | 0.045" (18 Ga) * |
| 1/4" 410 SS CreteFlex | UngROUTED CMU, (ASTM C-90) | 2-1/2" | 1-1/4" |
| | Concrete (min. 3.35 ksi) | 1" | 1-3/4" |
| 1/4" 304 SS Aggre-Gator | Concrete (min. 3.275 ksi) | 1-1/2" | 1-3/8" |
| | UngROUTED CMU, (ASTM C-90) | 3" | 1-1/4" |
| 1/4" Steel Ultracon+ | Concrete (min. 3 ksi) | 1-3/16" | 1-3/8" |
| | UngROUTED CMU, (ASTM C-90) | 1-1/2" | 1-1/4" |
- 1) * MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
 - 2) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
 - 3) 18-8 FASTENERS SHALL BE MANUFACTURED FROM TYPE 304 OR 305 STAINLESS STEEL PER ASTM A240.
 - 4) ALL SCREWHEAD TYPES ARE APPLICABLE.
 - 5) USE ONLY FLATHEAD ANCHORS IN HEAD & SILL. PAN/HEX/FLAT HEAD TYPE IS ALLOWABLE FOR ANCHORS JAMB.

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REGISTRATION #29296

ALUMINUM HORIZONTAL ROLLER

INSTAL., FLANGE/EQUAL-LEG

HR7610

07/07/26

By JENS ROSOWSKI

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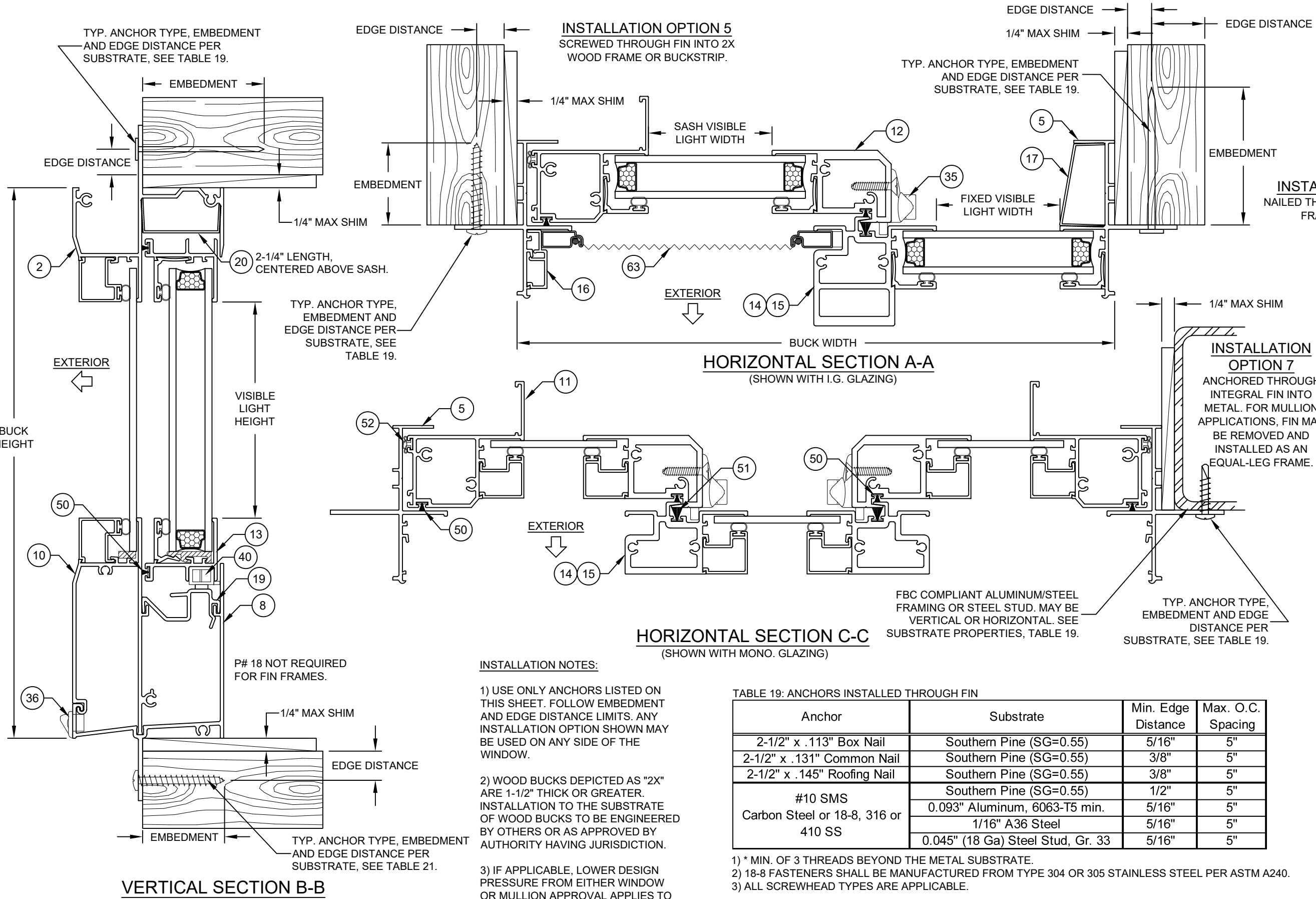
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STATE OF FLORIDA

PROFESSIONAL ENGINEER

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



INSTALLATION NOTES:

- 1) USE ONLY ANCHORS LISTED ON THIS SHEET. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
- 2) WOOD BUCKS DEPICTED AS "2X" ARE 1-1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY AUTHORITY HAVING JURISDICTION.
- 3) IF APPLICABLE, LOWER DESIGN PRESSURE FROM EITHER WINDOW OR MULLION APPROVAL APPLIES TO WHOLE SYSTEM.

TABLE 19: ANCHORS INSTALLED THROUGH FIN

Anchor	Substrate	Min. Edge Distance	Max. O.C. Spacing
2-1/2" x .113" Box Nail	Southern Pine (SG=0.55)	5/16"	5"
2-1/2" x .131" Common Nail	Southern Pine (SG=0.55)	3/8"	5"
2-1/2" x .145" Roofing Nail	Southern Pine (SG=0.55)	3/8"	5"
#10 SMS Carbon Steel or 18-8, 316 or 410 SS	Southern Pine (SG=0.55)	1/2"	5"
	0.093" Aluminum, 6063-T5 min.	5/16"	5"
	1/16" A36 Steel	5/16"	5"
	0.045" (18 Ga) Steel Stud, Gr. 33	5/16"	5"

- 1) * MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
- 2) 18-8 FASTENERS SHALL BE MANUFACTURED FROM TYPE 304 OR 305 STAINLESS STEEL PER ASTM A240.
- 3) ALL SCREWHEAD TYPES ARE APPLICABLE.

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REGISTRATION #29296

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ALUMINUM HORIZONTAL ROLLER
INSTALLATION, INTEGRAL FIN

07/07/26

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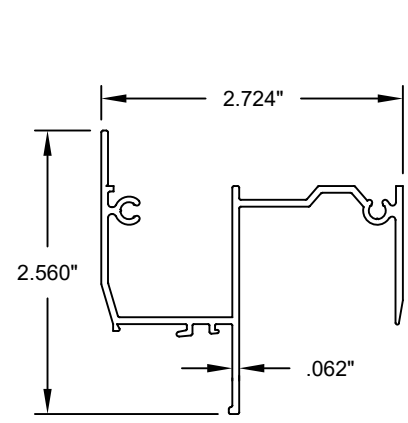
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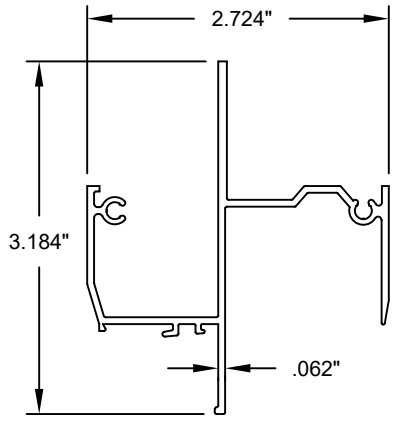
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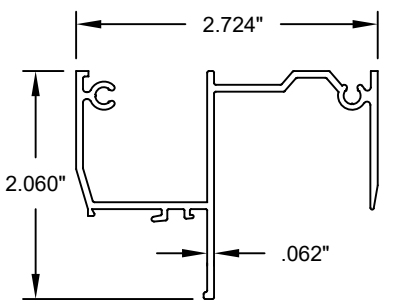
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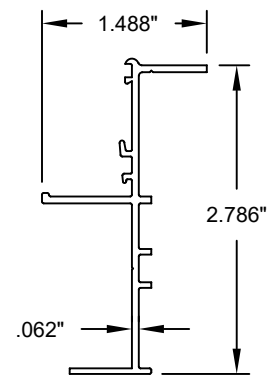
1 HEAD, FLANGE FRAME



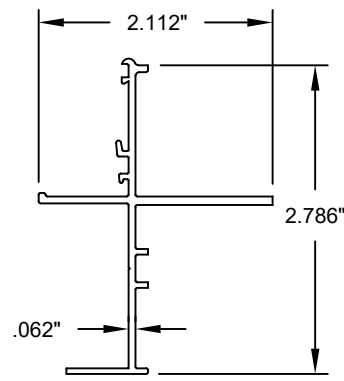
2 HEAD, INTEGRAL FIN FRAME



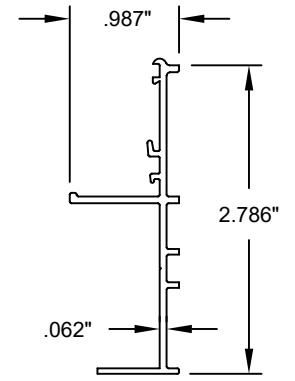
3 HEAD, EQUAL LEG FRAME



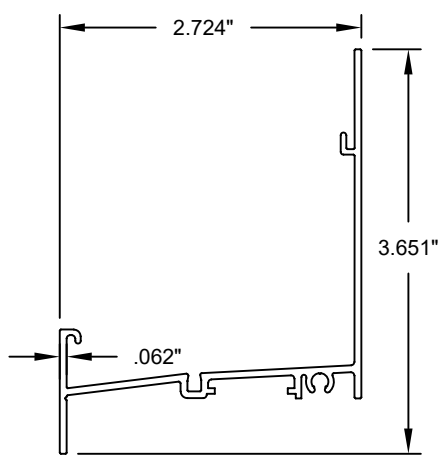
4 JAMB, FLANGE FRAME



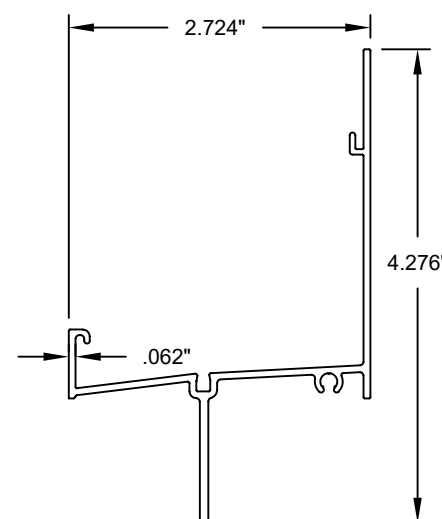
5 JAMB, INTEGRAL FIN FRAME



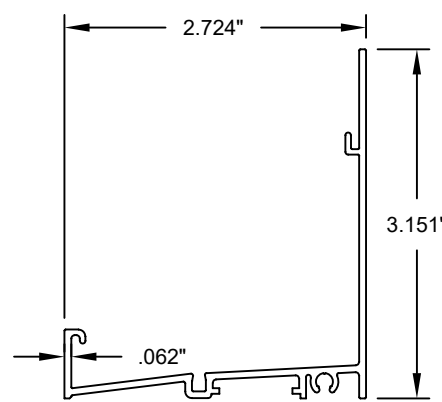
6 JAMB, EQUAL LEG FRAME



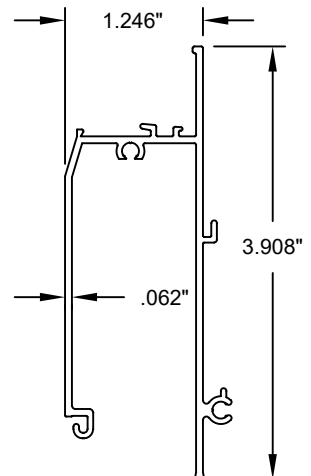
7 SILL, FLANGE FRAME



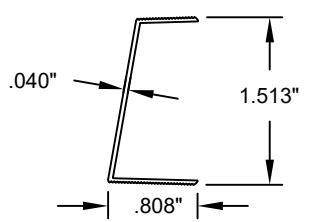
8 SILL, INTEGRAL FIN FRAME



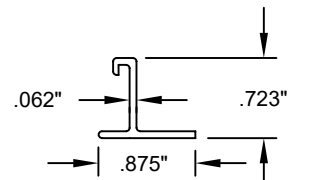
9 SILL, EQUAL LEG FRAME



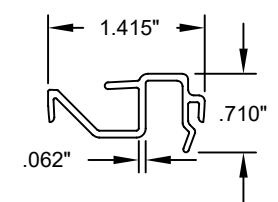
10 SILL ADAPTER



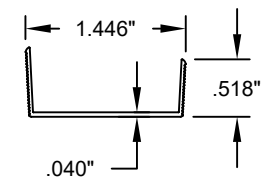
17 INSTALLATION HOLE COVER



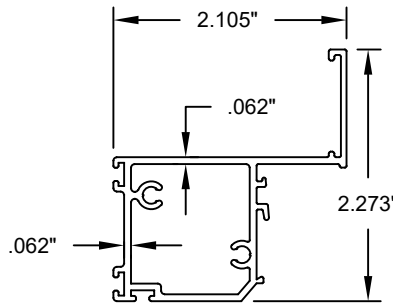
18 WINDLOAD ADAPTER



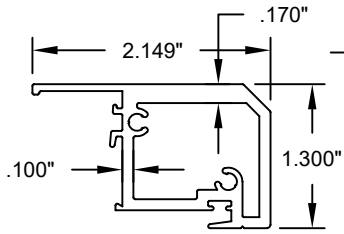
19 SILL TRACK



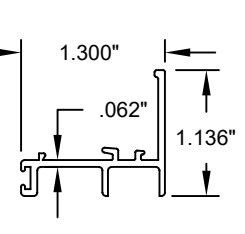
20 ANTI-LIFT CLIP



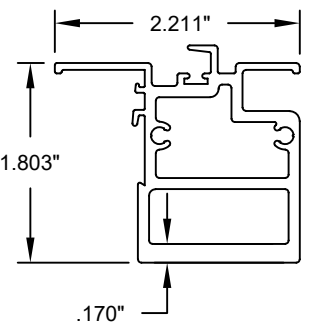
11 SASH PULL RAIL



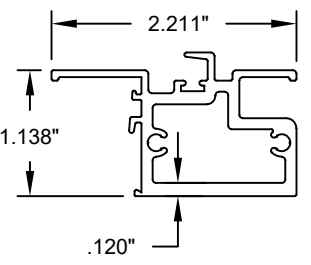
12 SASH LOCK RAIL



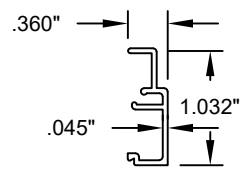
13 SASH TOP & BOTTOM RAIL



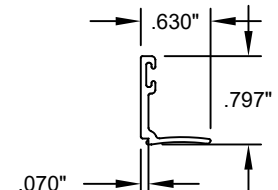
14 HD MEETING RAIL



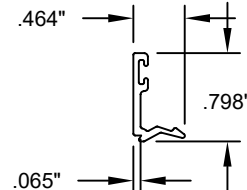
15 STD MEETING RAIL



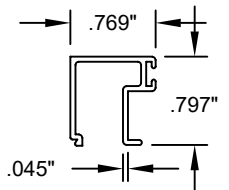
16 SCREEN ADAPTER



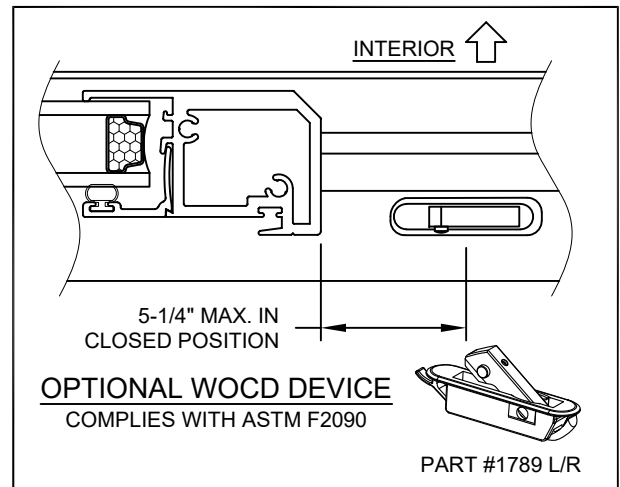
21A IG BEAD



21B IG SNAP BEAD



22 1/8" & 3/16" BEAD



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Date		By		DWG No.		Sheet		Series	
07/07/26		JENS ROSOWSKI		13 OF 14		HR7610		HR7610-NI-HVHZ	

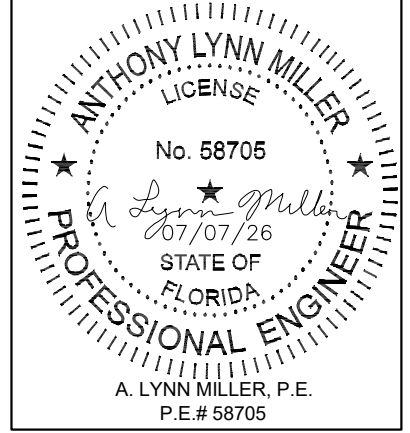
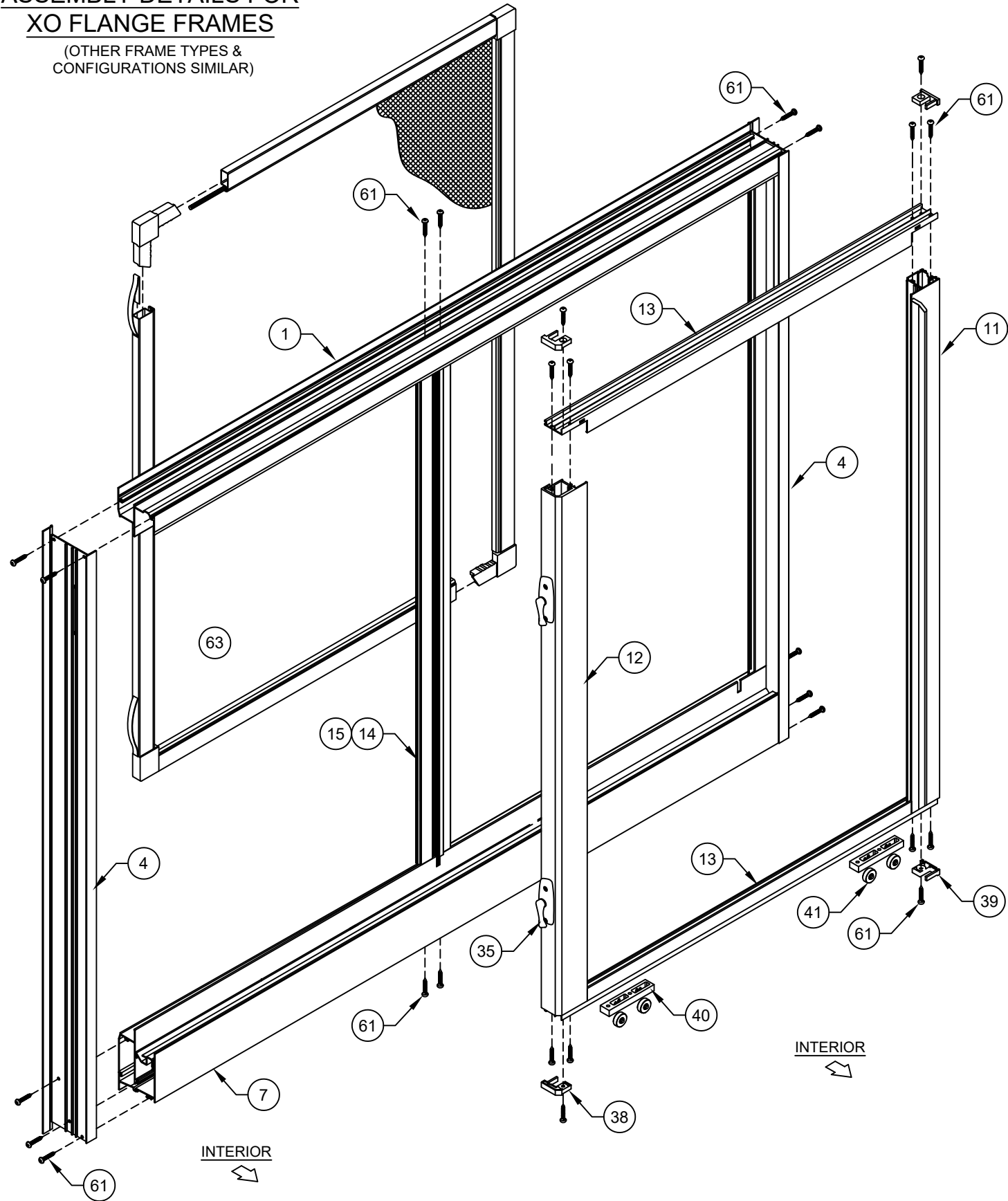


TABLE 20:

Item #	Part #	Description	Material
1	624038	Head, Flange Frame	Alum. 6063-T6
2	624039	Head, Integral Fin Frame	Alum. 6063-T6
3	624040	Head, Equal-leg Frame	Alum. 6063-T6
4	624001	Jamb, Flange Frame	Alum. 6063-T6
5	624017	Jamb, Integral Fin Frame	Alum. 6063-T6
6	624028	Jamb, Equal-leg Frame	Alum. 6063-T6
7	624035	Sill, Flange Frame	Alum. 6063-T6
8	624036	Sill, Integral Fin Frame	Alum. 6063-T6
9	624037	Sill, Equal-leg Frame	Alum. 6063-T6
10	624034	Sill Adaptor	Alum. 6063-T6
11	624043	Sash Pull Rail	Alum. 6063-T6
12	624006	Sash Lock Rail	Alum. 6005A-T61
13	624041	Sash Top & Bottom Rail	Alum. 6063-T6
14	624027	HD Meeting Rail	Alum. 6063-T6
15	624005	Std. Meeting Rail	Alum. 6005A-T61
16	624047	Screen Adapter	Alum. 6063-T6
17	624051	Installation Hole Cover	Alum. 6063-T6
18	64125M	Windload Adapter	Alum. 6063-T6
19	624042	Sill Track	Alum. 6063-T6
20	624101	Anti-Lift Clip	Vinyl
21A	624009	IG Bead	Alum. 6063-T5
21B	624011	IG Snap Bead	Alum. 6063-T5
22	624023	1/8" & 3/16" Bead	Alum. 6063-T6
30	6TP247	Glazing Bead, Bulb Vinyl for #624013 & #624026	Vinyl
31	6TP248	Glazing Bead, Bulb Vinyl for #624009 & #624011	Vinyl
32	712653K	Mono setting Block 3/32" X 1/4" X 1"	Neoprene
33A	71715K	Lami IG Setting Block 1/8" x 3/4" x 1-1/14"	Neoprene
33B	624014	IG Snap Setting Block	Vinyl
35	724045	Sweep Latch	Cast Zinc
36	71298	Weep Hole Cover	Vinyl
37	41722	Hole Plug	Vinyl
38	724021	Lock Rail Cover, (LH & RH)	Vinyl
39	724050	Pull Rail End Cap	Vinyl
40	724048	Roller Housing & Sash 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	724058	Frame Sill Gasket, (LH & RH)	Polyethylene
46	724063	Meeting Rail Gasket	Polyethylene
50		Weatherstrip, .187" x .170", Fin Seal @ Sash	
51		Weatherstrip, .187" x .270", Fin Seal @ MR	
52	67070	Bulb Vinyl	
60	710X38PPAX	#10 X 3/8" Ph. PH SMS (Windload Adapter)	Stainless Steel
61	781PQX	#8 X 1" Qd. PH SMS (Frame & Sash Assembly)	Stainless Steel
63	-	Aluminum Screen with Fiberglass Mesh	Varies
70	-	Kommerling Kodispace 4SG TPS	See Sheet 14 for Materials
71	-	Quanex Super Spacer nXT	
72	-	Quanex Duraseal Spacer	
73	-	Cardinal XL Edge Spacer	
74	-	Dow 791, 899, 983 or GE 7700 Backbedding	
			Silicone

ASSEMBLY DETAILS FOR
XO FLANGE FRAMES

(OTHER FRAME TYPES &
CONFIGURATIONS SIMILAR)



- NOTES:
1) ALL CORNERS TO USE GASKET AND/OR SEALANT.
2) SOME PARTS/OPTIONS NOT SHOWN ON DRAWING FOR CLARITY.

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