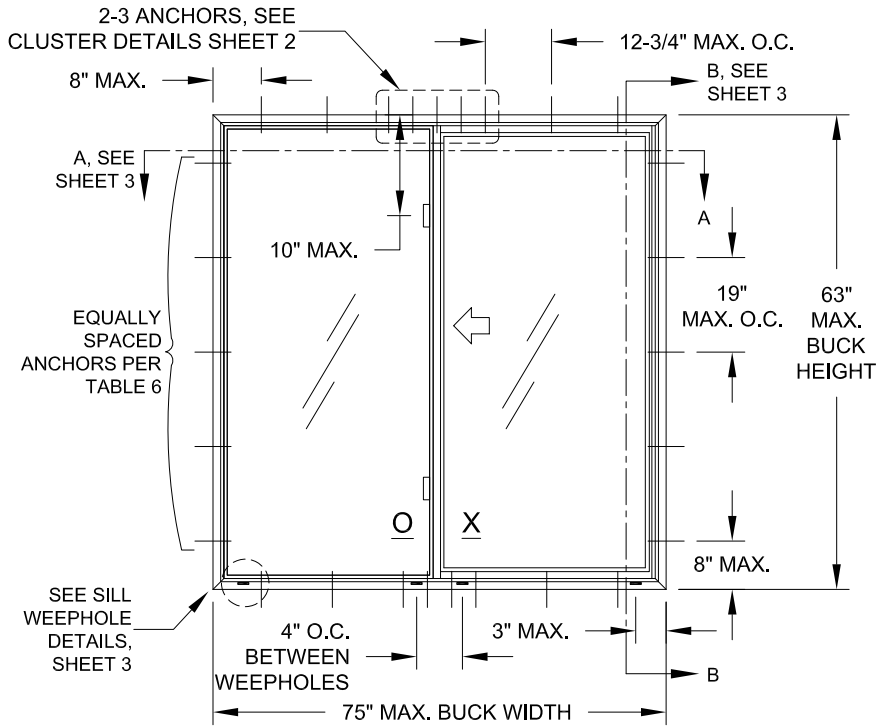
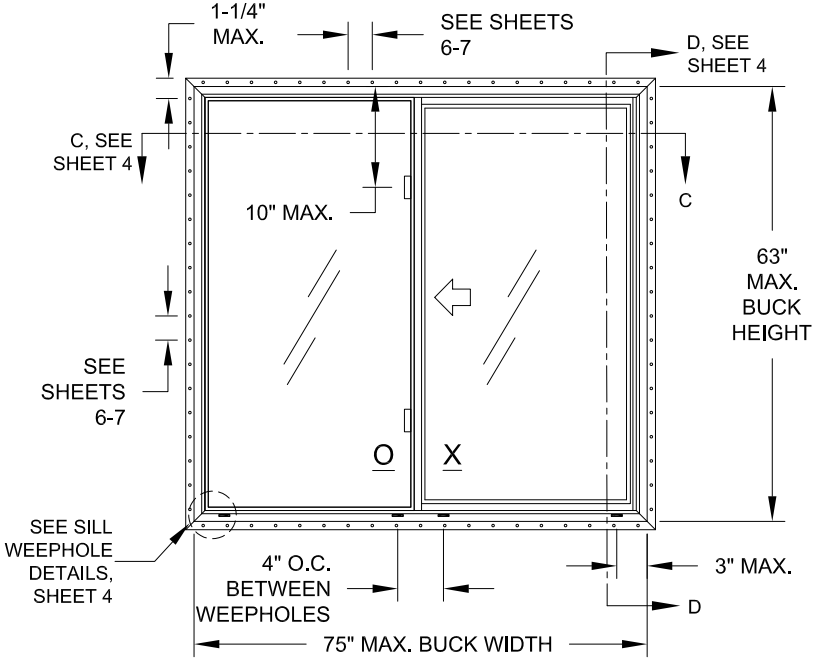
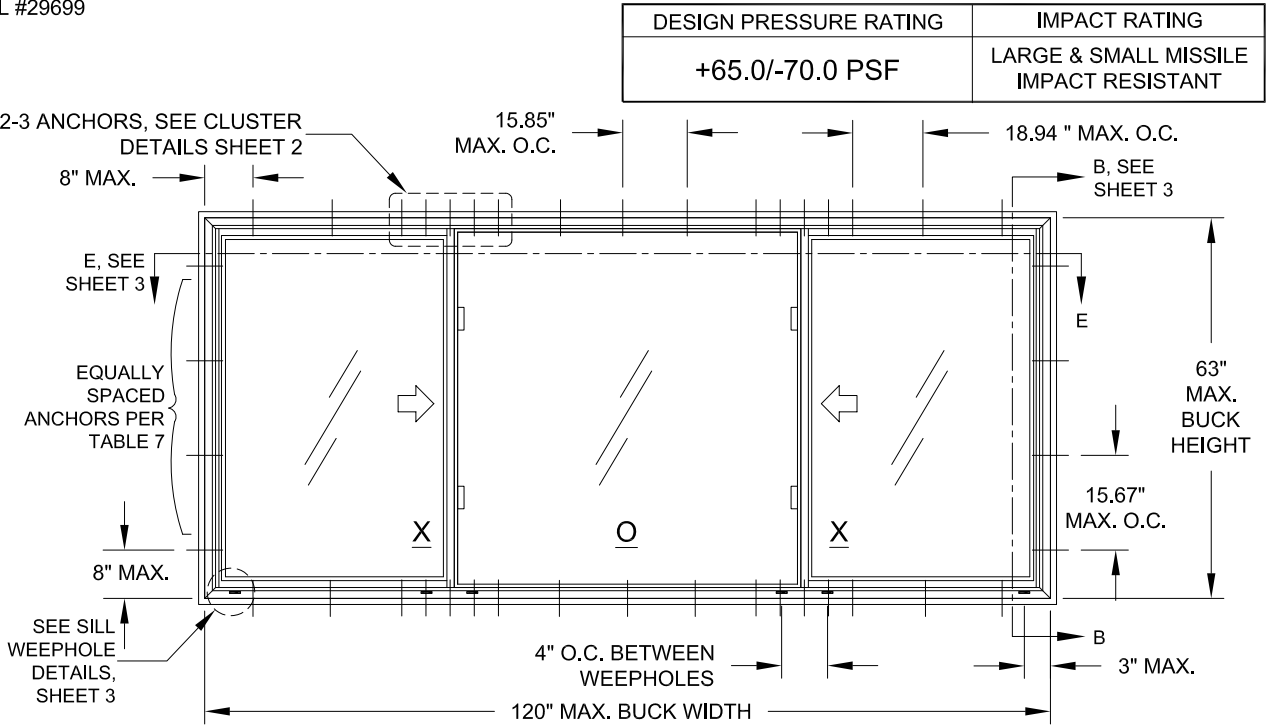




ELEVATION FOR TYP. EQUAL LEG FRAME
SHOWN AS OX CONFIGURATION



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



ELEVATION FOR TYP. FLANGE FRAME
SHOWN AS XOX CONFIGURATION

DESIGN PRESSURE RATING	IMPACT RATING
+65.0/-70.0 PSF	LARGE & SMALL MISSILE IMPACT RESISTANT

SERIES 5510 IMPACT RESISTANT HORIZONTAL ROLLER

- 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 NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- 3) MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, ASTM C90 CONCRETE MASONRY UNITS AND CONCRETE WITH MIN. KSI PER ANCHOR TYPE.
- 4) 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).
- 5) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE REQUIRED MIN. EMBEDMENT. INSTALLATION ANCHORS SHOULD BE SEALED. 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" MAX. SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS.
- 7) DESIGN PRESSURES:
 - A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL & CYCLE TESTING AND GLASS PER ASTM E1300.
 - B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, 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 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.
- 9) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
- 10) REFERENCES: TEST REPORTS FTL-8072, 8073, 8074 & 19-9037; ELCO CRETEFLEX NOA; ELCO AGGRE-GATOR NOA; VISION EXTRUSIONS GROUP, LTD WHITE & BRONZE/LIGHTER SHADES OF CAP COATED PVC EXTRUSION NOA'S; NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, ANSI/AF&PA NDS & ALUMINUM DESIGN MANUAL
- 11) APPLICABLE EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.
- 12) FRAME FLANGES OR INTEGRAL FINS MAY BE TRIMMED IN-FIELD TO CREATE AN EQUAL-LEG FRAME.

USER INSTRUCTIONS:

- 1) DETERMINE THE SITE SPECIFIC, WINDOW OPENING'S DESIGN PRESSURE REQUIREMENT USING WINDLOAD STANDARD ASCE 7.
- 2) KNOWING YOUR FRAME TYPE, WINDOW CONFIGURATION (OX, XO, XOX), SIZE AND GLAZING OPTION FROM (TABLE 1), DETERMINE YOUR WINDOW'S DESIGN PRESSURE REQUIREMENT FOR THE WINDOW OPENING USING TABLES 4-5. IT MUST EQUAL OR EXCEED THE DESIGN PRESSURE REQUIREMENT FOR THE WINDOW OPENING OBTAINED IN STEP 1.
- 3) DETERMINE THE MOST SUITABLE ANCHOR GROUP FROM TABLES 2 AND 3 ON SHEET 2 ACCORDING TO THE INSTALLATION CONDITIONS.
- 4) DETERMINE THE ANCHOR QUANTITY FROM TABLES 6-7, VERIFY THE ANCHOR/SUBSTRATE WILL MEET REQUIREMENTS FOR YOUR OPENING'S CONDITION FROM TABLES 2 OR 3, AND THAT ALL MIN. REQUIREMENTS FROM THIS SHEET SET ARE MET.
- 5) INSTALL AS PER SHEET 3 FOR FLANGE/EQUAL LEG INSTALLATION OR SHEET 4 FOR INTEGRAL FIN/J-CHANNEL INSTALLATION.

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

GENERAL NOTES & ELEVATIONS.....	1
FRAME, GLASS & ANCHOR OPTIONS.....	2
INSTALLATION, FLANGE & EQUAL LEG/BOX.....	3
INSTALLATION, INTEGRAL FIN & J-CHANNEL...	4
DESIGN PRESSURES.....	5
ANCHOR QUANTITIES.....	6-7
EXTRUSION PROFILES & BOM.....	8
ASSEMBLY.....	9

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Title	VINYL HORIZONTAL ROLLER WINDOW (LMI)			Date	06/07/19
Desc.	GENERAL NOTES & ELEVATIONS		Drawn By	JENS ROSOWSKI	
Rev	TRIM FIN/FLANGE NOTE			Rev Date	10/17/23
Series	HR-5510	Sheet	1 OF 9	DWG No.	HR5510 LAMI
				Rev:	B

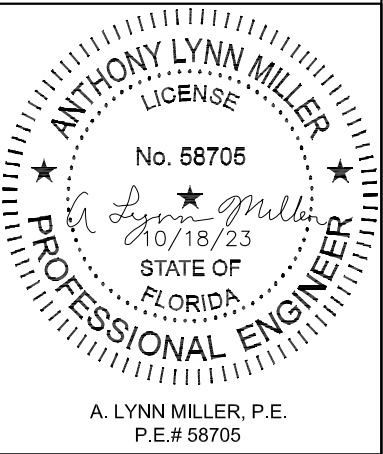


TABLE 1: ALLOWABLE GLASS TYPES

Glass Type	Description	Table #	Sheet #
1	7/16" Lami (3/16" A - .090" PVB - 3/16" A)	4-5	5
2	7/16" Lami (3/16" H - .090" PVB - 3/16" H)	4-5	5

"A" = ANNEALED
"H" = HEAT STRENGTHENED
"PVB" = .090" TROSIFOL® PVB
BY KURARAY AMERICA, INC.

TABLE 2: ALLOWABLE ANCHORS THROUGH THE FRAME

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
A	#10 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
		Steel, A36*	3/8"	0.050"
		Steel Stud, A653 Gr. 33*	3/8"	0.0451" (18 Ga.)
	3/16" steel Ultracon+	Aluminum, 6063-T5*	3/8"	0.050"
		P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
B	#12 SMS (steel, 18-8 S.S. or 410 S.S.)	Concrete (min. 3 ksi)	1"	1-3/8"
		UngROUTED CMU, (ASTM C-90)	1"	1-1/4"
		P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
	1/4" steel Ultracon+	Steel, A36*	3/8"	0.050"
		Steel Stud, A653 Gr. 33*	3/8"	0.0451" (18 Ga.)
		Aluminum, 6063-T5*	3/8"	0.063"
C	1/4" steel Ultracon+	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		P.T. Southern Pine (SG=0.55)	1"	1-3/8"
	1/4" steel Aggre-Gator	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
D	1/4" steel Ultracon+	Concrete (min. 3 ksi)	1-3/16"	1-3/4"
		UngROUTED CMU, (ASTM C-90)	1"	1-1/4"
		Concrete (min. 3.35 ksi)	1"	1-3/4"
	1/4" steel Creteflex	Concrete (min. 3 ksi)	2-1/2"	1-3/4"
		UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
	1/4" steel Aggre-Gator	UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Concrete (min. 3.275 ksi)	1-1/2"	1-3/8"
		Grouted CMU, (ASTM C-90)	2"	2"

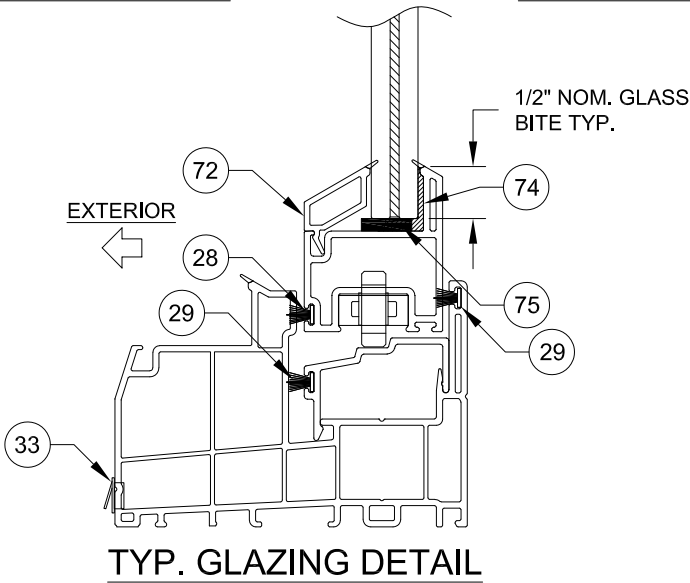
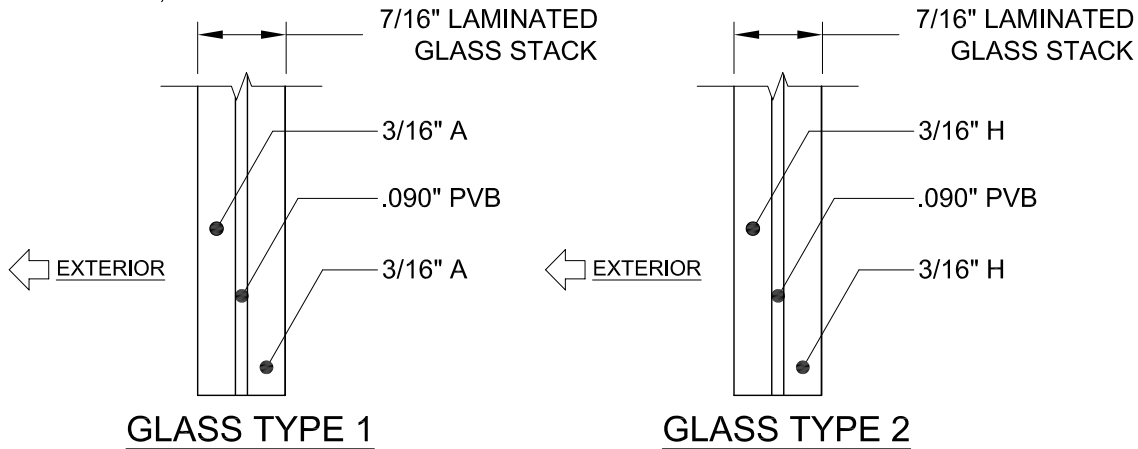
* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
"UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
ALL ANCHOR HEAD TYPES ARE ACCEPTABLE.

TABLE 3: ALLOWABLE ANCHORS THROUGH THE INTEGRAL FIN

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
F	2-1/2" Ring-shank Roofing Nail	P.T. Southern Pine (SG=0.55)	3/8"	2-7/16"
		P.T. Southern Pine (SG=0.55)	1/2"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.050"
		Steel Stud, Gr. 33*	3/8"	0.0451" (18 Ga.)
	#10 Trusshead SMS (steel, 18-8 S.S. or 410 S.S.)	Steel, A36*	3/8"	0.050"
		P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.063"
		Steel Stud, Gr. 33*	3/8"	0.050"
		Steel, A36*	3/8"	0.050"

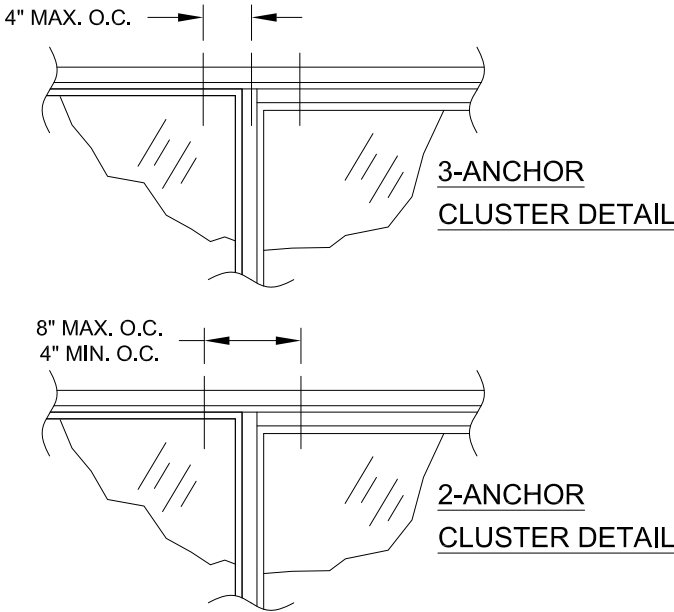
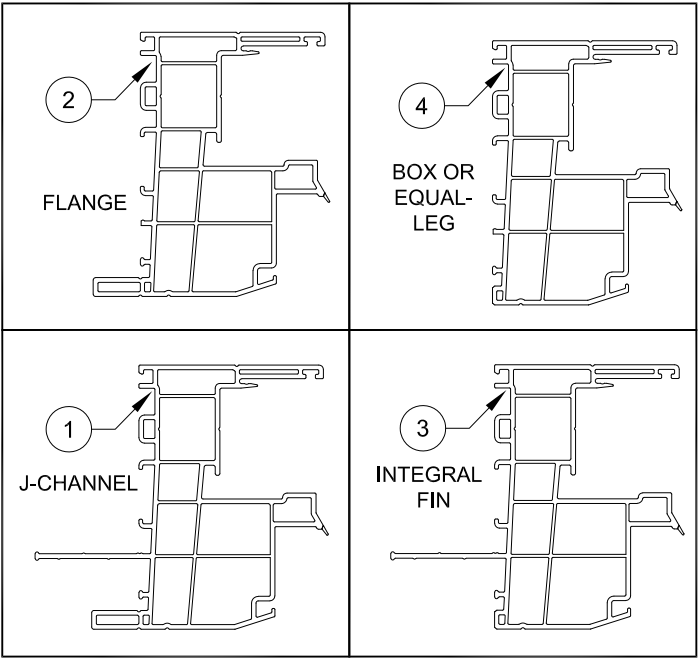
* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

NOTE:
USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLES 2 & 3, THIS SHEET. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.

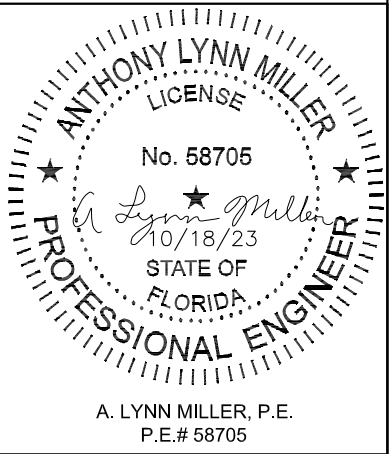


Material	Min. F _y	Min. F _u
Steel Screw	92 ksi	120 ksi
18-8 Screw	60 ksi	95 ksi
410 Screw	90 ksi	110 ksi
Elco/DeWalt Aggre-Gator®	57 ksi	96 ksi
3/16" DeWalt UltraCon+®	117 ksi	164 ksi
1/4" DeWalt UltraCon+®	148 ksi	164 ksi
410 SS Elco/Dewalt CreteFlex®	127.4 ksi	189.7 ksi
6063-T5 Aluminum	16 ksi	22 ksi
A36 Steel	36 ksi	58 ksi
Gr. 33 Steel Stud	33 ksi	45 ksi

FRAME TYPES



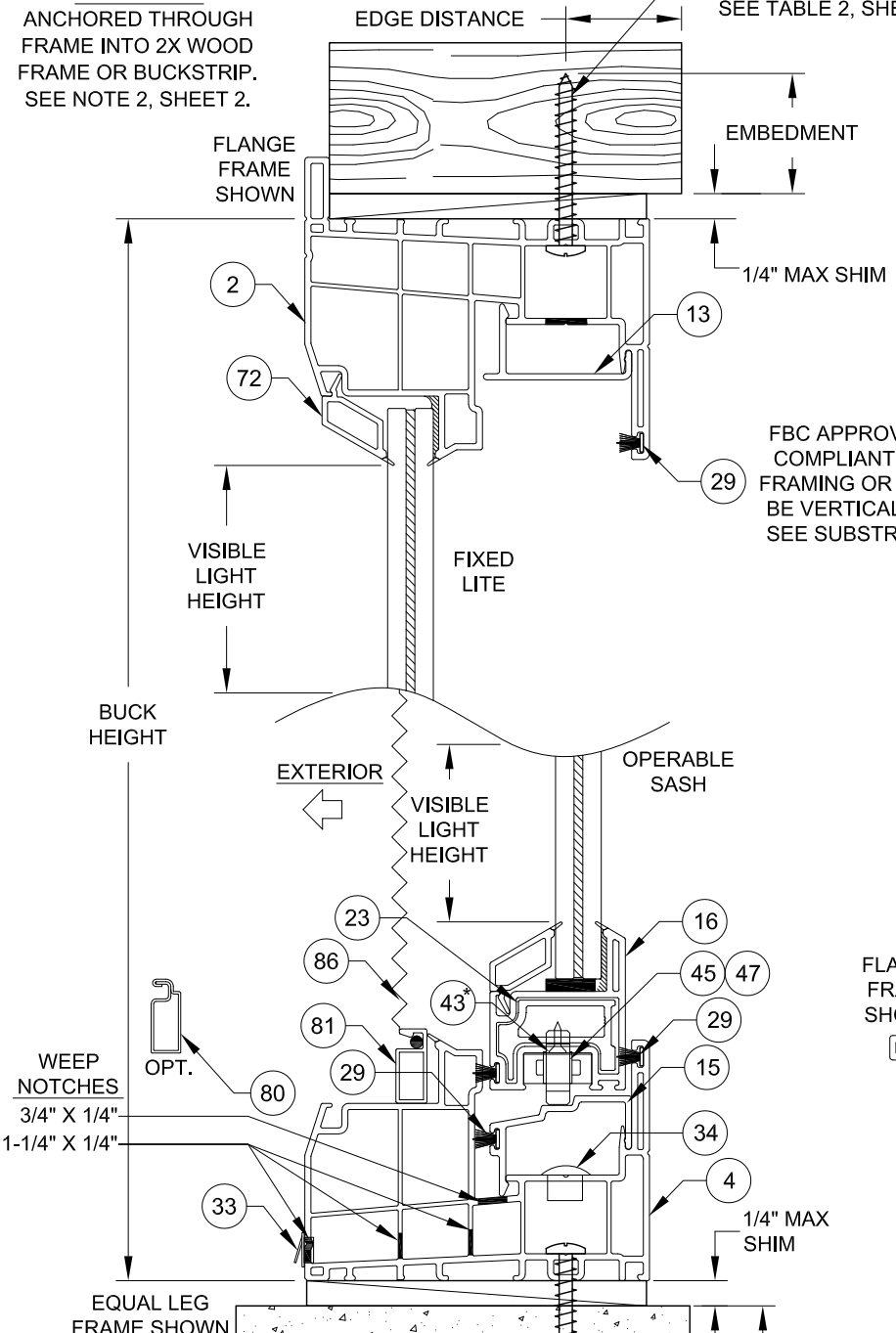
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Series	Rev	Desc.	Title
HR-5510	2 OF 9	REMOVED ULTRACONS/ ANCHOR HEAD	VINYL HORIZONTAL ROLLER WINDOW (LMI)
DWG No.	HR5510 LAMI	Rev	Date
			06/07/19
		Drawn By	JENS ROSOWSKI
		Rev Date	10/17/23



INSTALLATION DETAILS FOR FLANGE AND EQUAL-LEG FRAMES

INSTALLATION
OPTION 1

ANCHORED THROUGH
FRAME INTO 2X WOOD
FRAME OR BUCKSTRIP.
SEE NOTE 2, SHEET 2.

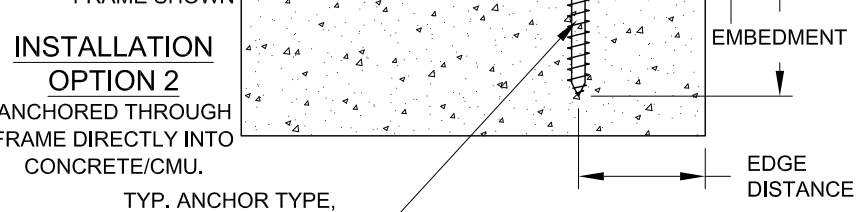


INSTALLATION
OPTION 2

ANCHORED THROUGH
FRAME DIRECTLY INTO
CONCRETE/CMU.

TYP. ANCHOR TYPE,
EMBEDMENT AND EDGE
DISTANCE PER SUBSTRATE,
SEE TABLE 2, SHEET 2.

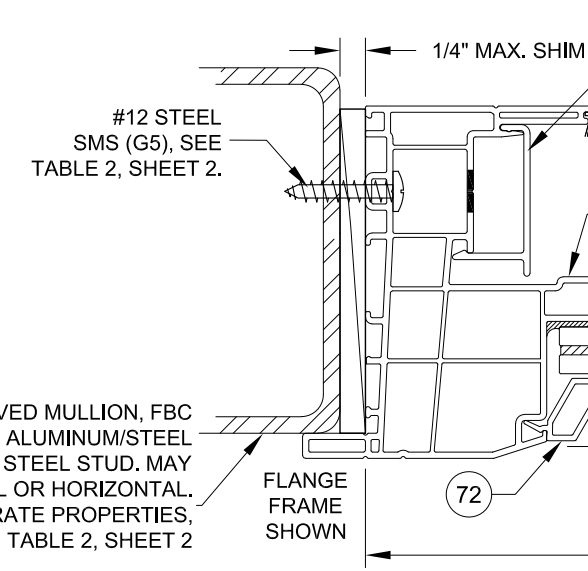
VERTICAL
SECTION B-B



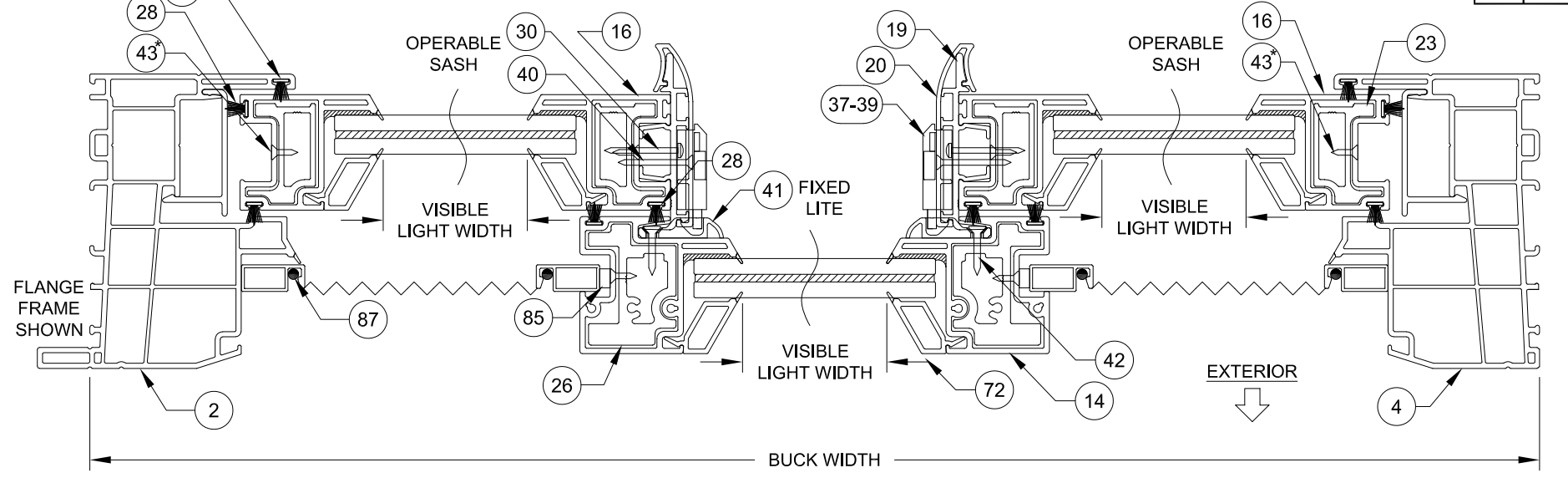
INSTALLATION
OPTION 4

ANCHORED THROUGH
FRAME INTO METAL

SEE INSTALLATION NOTES SHEET 2



HORIZONTAL SECTION A-A (OX)



HORIZONTAL SECTION E-E (XOX)

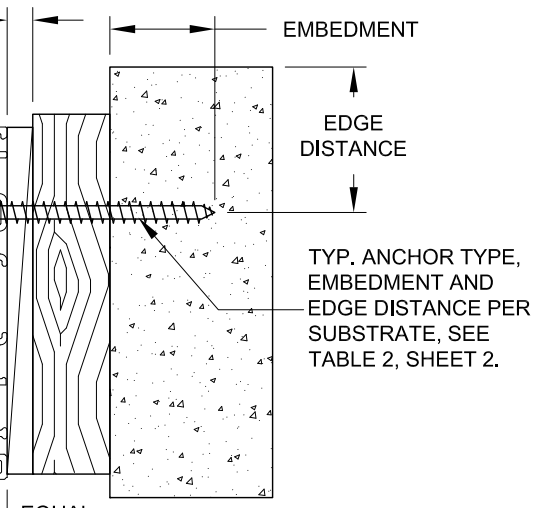
INSTALLATION AS PER SECTION A-A ABOVE

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

WIDTH: BUCK WIDTH / 2 - 4-1/4"
HEIGHT: BUCK HEIGHT - 7-1/4"

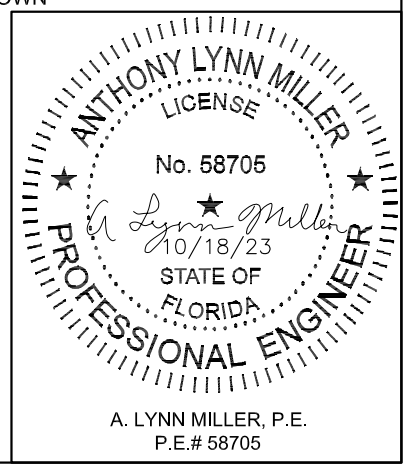
INSTALLATION OPTION 3

ANCHORED THROUGH FRAME AND 1X
BUCKSTRIP INTO CONCRETE/CMU.
SEE NOTE 2, SHEET 2.



(1) AT MID-SPAN OF INTERLOCK
(1) 3-1/2" FROM EACH SASH
CORNER AND (1) AT CENTER OF
SASH STILES/RAILS

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Desc.	VINYL HORIZONTAL ROLLER WINDOW (LMI)		Date 06/07/19
Rev	FLANGE & EQUAL LEG/BOX		Drawn By JENS ROSOWSKI
NO CHANGES THIS SHEET		Rev Date	10/17/23
Series	HR-5510	Sheet	3 OF 9
DWG No.	HR5510 LAMI		Rev: B

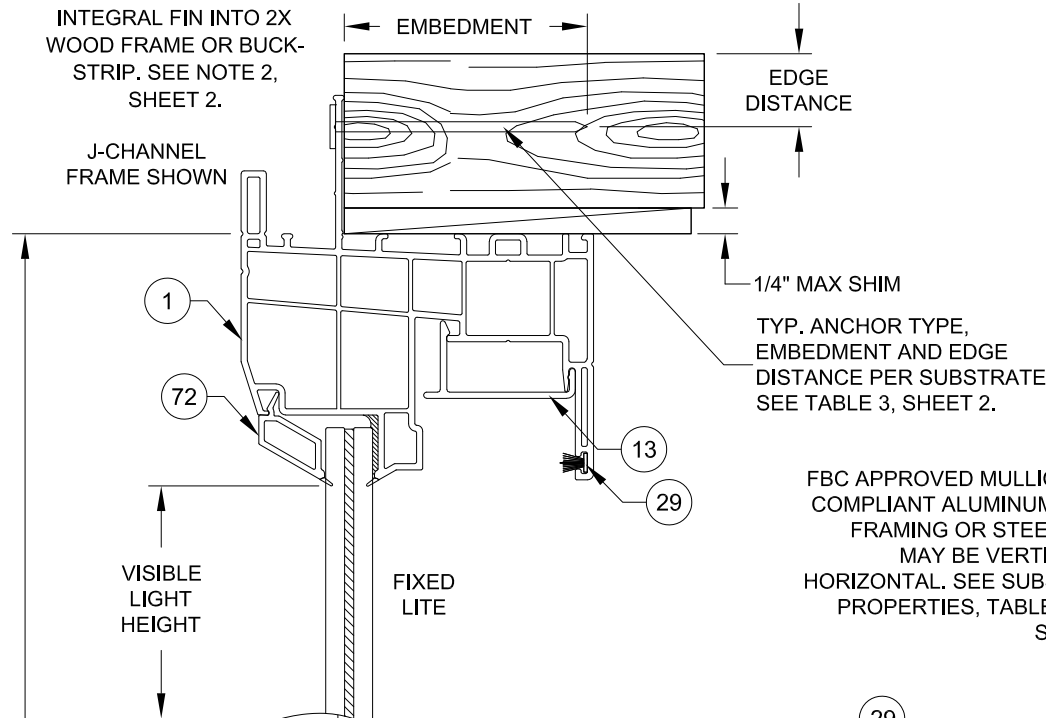


INSTALLATION DETAILS FOR FIN AND J-CHANNEL FRAMES

INSTALLATION OPTION 5

ANCHORED THROUGH INTEGRAL FIN INTO 2X WOOD FRAME OR BUCK-STRIP. SEE NOTE 2, SHEET 2.

J-CHANNEL FRAME SHOWN



BUCK HEIGHT

WEEP NOTCHES
3/4" X 1/4"
1-1/4" X 1/4"

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE SEE TABLE 3, SHEET 2.

INSTALLATION OPTION 5
ANCHORED THROUGH INTEGRAL FIN INTO 2X WOOD FRAME OR BUCK-STRIP. SEE NOTE 2, SHEET 2.

VERTICAL SECTION D-D

INSTALLATION OPTION 7

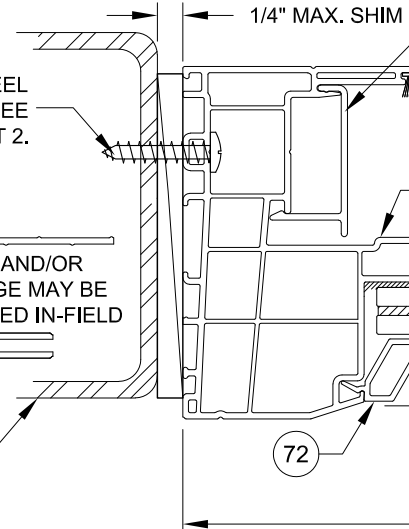
ANCHORED THROUGH FRAME INTO METAL (INTEGRAL FIN/FLANGE REMOVED)

SEE INSTALLATION NOTES SHEET 2

#12 STEEL SMS (G5), SEE TABLE 2, SHEET 2.

FIN AND/OR FLANGE MAY BE REMOVED IN-FIELD

FBC APPROVED MULLION, FBC COMPLIANT ALUMINUM/STEEL FRAMING OR STEEL STUD. MAY BE VERTICAL OR HORIZONTAL. SEE SUBSTRATE PROPERTIES, TABLES 2 & 3, SHEET 2.



HORIZONTAL SECTION C-C (OX)

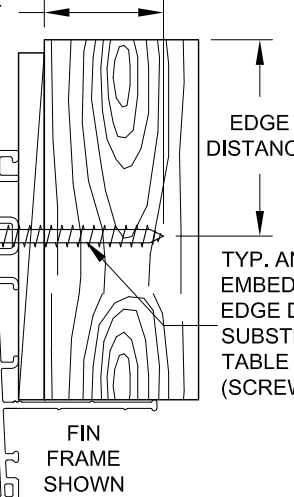
INSTALLATION OPTION 6

ANCHORED THROUGH FRAME INTO 2X WOOD FRAME OR BUCKSTRIP. SEE NOTE 2, SHEET 2.

EMBEDMENT

EDGE DISTANCE

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE 2, SHEET 2. (SCREW SHOWN)

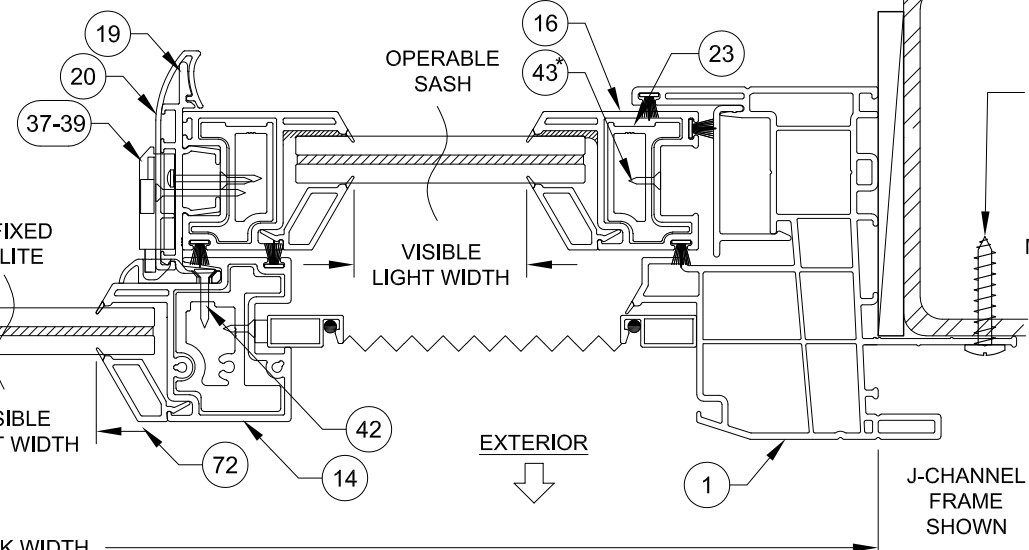


INSTALLATION OPTION 8

ANCHORED THROUGH FIN INTO METAL (FLANGE MAY BE REMOVED)

#10 OR #12 STEEL SMS (G5), SEE TABLE 2, SHEET 2.

HYBRID CONFIGURATIONS (FLANGE FRAME/FIN FRAME ALLOWED WITH MULLION INSTALLATION, SEE PAGE 3 FOR FLANGE FRAME INSTALLATION DETAILS.



HORIZONTAL SECTION C-C (XOX)

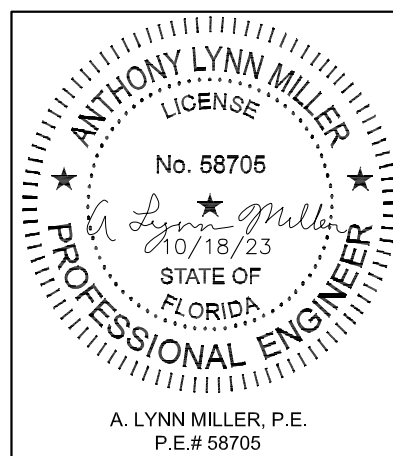
INSTALLATION AS PER SECTION D-D ABOVE

(1) AT MID-SPAN OF INTERLOCK
(1) 3-1/2" FROM EACH SASH CORNER AND (1) AT CENTER OF SASH STILES/RAILS

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

WIDTH: BUCK WIDTH / 2 - 4-1/4"
HEIGHT: BUCK HEIGHT - 7-1/4"

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Desc.	Rev	Title	Date
		VINYL HORIZONTAL ROLLER WINDOW (LMI)	06/07/19
		J-CHANNEL & INT. FIN FRAMES	
		Drawn By	JENS ROSOWSKI
		Rev	Date
		HYBRID CONFIGURATION NOTE	10/17/23
Series	Sheet	DWG No.	Rev.
HR-5510	4 OF 9	HR5510 LAMI	B

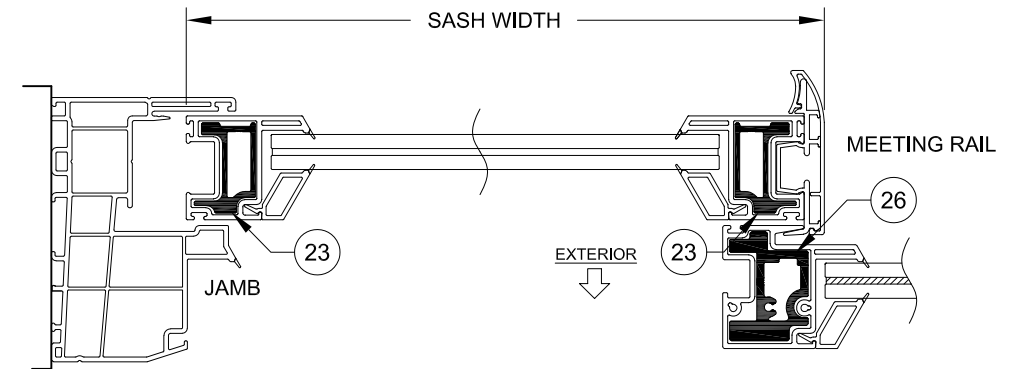


Glass Types 1 & 2		Design Pressure (lbs/ft ²) for XO or OX Windows					
Reinf. Level		Window Buck Height					
R4		48"		54"		63"	
Window Buck Width	25-1/2"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
	28"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
	36"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
	42"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
	48"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
	60"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
	75"	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0

Glass Types 1 & 2		Sash Configuration	Sash Width Range (in)	Design Pressure (lbs/ft ²) for XOX Windows							
				Window Buck Height							
				36"		48"		54"		63"	
Window Buck Width	60"	Custom	11.391 - 13.397	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
		¼-½-¾	13.398 - 15.360	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
		⅓-⅔-⅓	15.361 - 19.641	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
	75"	Custom	11.391 - 13.397	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
		¼-½-¾	13.398 - 19.110	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
		⅓-⅔-⅓	19.111 - 24.641	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
	96"	Custom	18.360 - 19.397	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
		¼-½-¾	19.398 - 24.360	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
		Custom	24.361 - 30.360	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0
	120"	¼-½-¾	** - 30.360	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0	+65.0	-70.0

NOTES:

- 1) USE THESE TABLES FOR ALL WINDOWS INSTALLED THROUGH THE FRAME OR INTEGRAL FIN.
- 2) FRAME DIMENSIONS ARE BUCK WIDTH AND BUCK HEIGHT (SEE SHEETS 3-4). SASH SIZE IS AS PER THE FIGURE.
- 3) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
- 4) "1/4-1/2-1/4" AND "1/3-1/3-1/3" INDICATE THAT THOSE STANDARD SASH CONFIGURATIONS FALL WITHIN THE SASH WIDTH RANGE IN THE ADJACENT COLUMN. "CUSTOM" INDICATES THAT NO STANDARD SASH CONFIGURATIONS FALL WITHIN THE RANGE.



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Title	VINYL HORIZONTAL ROLLER WINDOW (LMI)				Date	06/07/19
Desc.	DESIGN PRESSURE TABLES		Drawn By	JENS ROSOWSKI		
Rev	NO CHANGES THIS SHEET				Rev Date	10/17/23
Series	HR-5510	Sheet	5 OF 9	DWG No.	HR5510 LAMI	Rev: B

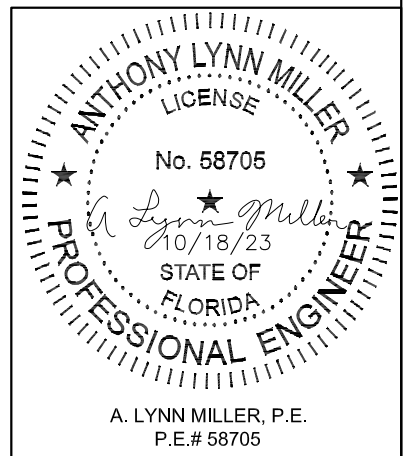


TABLE 6: MINIMUM ANCHOR QUANTITIES SHOWN. ALL ANCHORAGE MUST ALSO COMPLY WITH THE MAX. O.C. SPACING SHOWN ON THE ELEVATIONS.

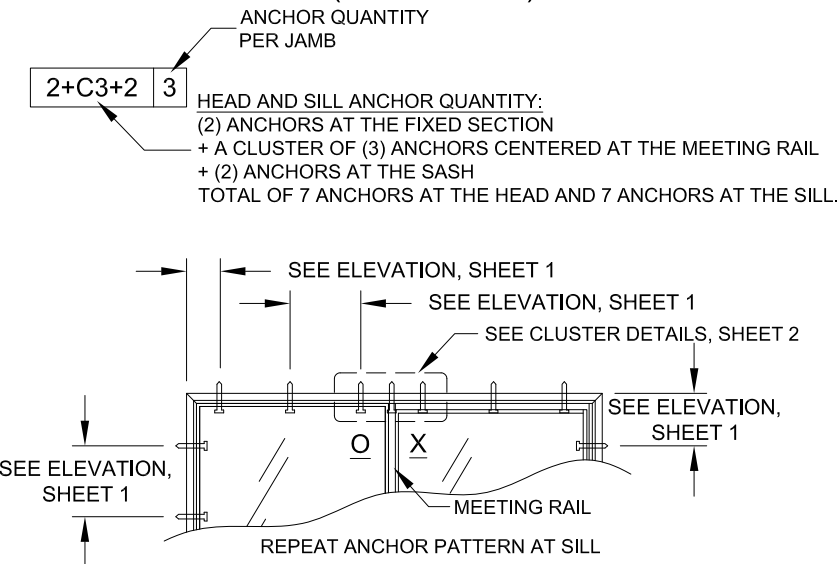
Glass Types 1 & 2		Sash Width (in)	Anchor Quantities for XO or OX Windows																					
			30" Height		36" Height		48" Height		54" Height		63" Height		30" Height		36" Height		48" Height		54" Height		63" Height			
Head & Sill	Jamb		Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb				
Anchor Group A												Anchor Group C												
Window Buck Width	25-1/2"	12.147	Not Allowed												1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
	28"	13.397													1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
	36"	17.397													1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
	42"	20.397													1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
	48"	23.397													1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4
	60"	29.397													2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4
	75"	36.897													2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C3+2	4
		Anchor Group B												Anchor Group D										
Window Buck Width	25-1/2"	12.147	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4		
	28"	13.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4		
	36"	17.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4		
	42"	20.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4		
	48"	23.397	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4	1+C2+1	2	1+C2+1	3	1+C2+1	4	1+C2+1	4	1+C2+1	4		
	60"	29.397	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C3+2	4	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4		
	75"	36.897	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C3+2	4	2+C2+2	2	2+C2+2	3	2+C2+2	4	2+C2+2	4	2+C2+2	4		

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

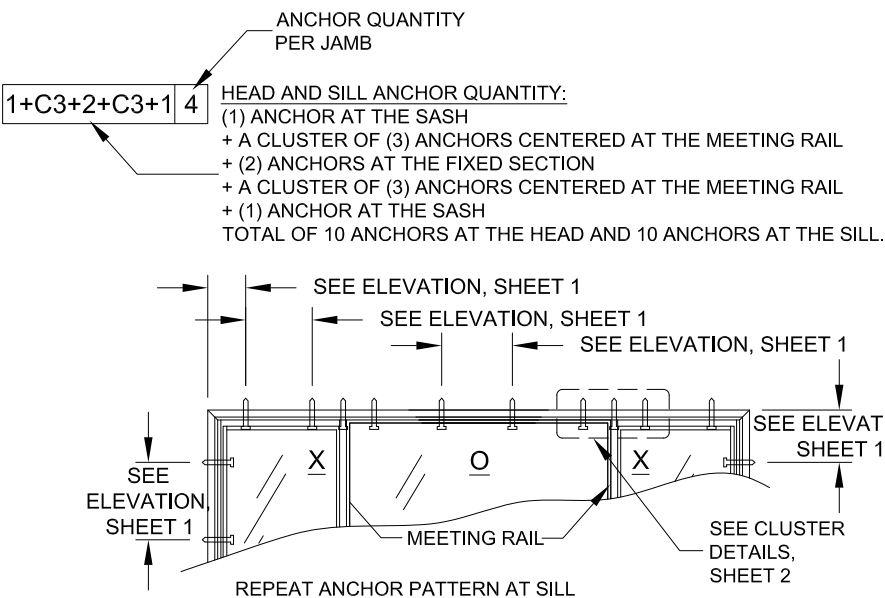
NOTES:
1) FRAME DIMENSIONS ARE BUCK WIDTH AND BUCK HEIGHT (SEE SHEETS 3-4). SASH SIZE IS AS PER THE FIGURE ON SHEET 5.
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

GUIDE TO USING ANCHOR QUANTITY TABLES:

FOR OX WINDOWS (XO SIMILAR):



FOR XOX WINDOWS:



PGT Custom Windows and Doors		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
		REGISTRATION #29296 COPYRIGHT © 2023 PGT, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	
Desc.	VINYL HORIZONTAL ROLLER WINDOW (LMI)	Date	06/07/19
Rev	ANCHOR QTY. TABLE - XO/OX	Drawn By	JENS ROSOWSKI
Series	NO CHANGES THIS SHEET	Rev Date	10/17/23
HR-5510	6 OF 9	DWG No.	HR5510 LAMI
		Rev:	B

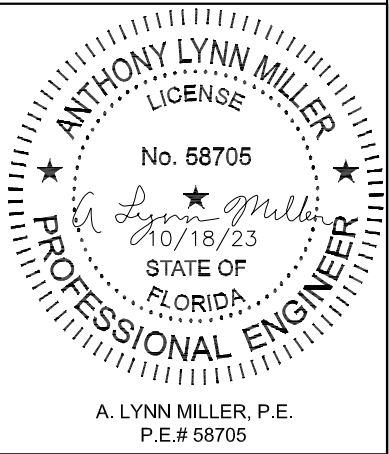


TABLE 7: MINIMUM ANCHOR QUANTITIES SHOWN. ALL ANCHORAGE MUST ALSO COMPLY WITH THE MAX. O.C. SPACING SHOWN ON THE ELEVATIONS.

Glass Types 1 & 2		Sash Configuration	Sash Width Range (in)	Anchor Quantities for XOX Windows																									
				24" Height		30" Height		36" Height		48" Height		54" Height		63" Height		24" Height		30" Height		36" Height		48" Height		54" Height		63" Height			
				Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb	Head & Sill	Jamb		
Reinf. Level R4				Anchor Group A												Anchor Group C													
Window Buck Width	35-1/4"	⅓-⅓-⅓	11.391 - 11.391	Not Allowed												1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4
	38"	⅓-⅓-⅓	12.308 - 12.308													1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4		
	45-1/8"	¼-½-¼	11.391 - 13.397													1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4		
		⅓-⅓-⅓	13.398 - 14.683													1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4		
	47-3/4"	¼-½-¼	11.391 - 12.297													1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4		
		⅓-⅓-⅓	12.298 - 15.558													1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4		
	52-1/8"	Custom	11.391 - 12.016													1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4		
		¼-½-¼	12.017 - 13.397													1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4		
		⅓-⅓-⅓	13.398 - 17.016													1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4		
	60"	Custom	11.391 - 13.397													1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4		
		¼-½-¼	13.398 - 15.360													1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4		
		⅓-⅓-⅓	15.361 - 19.641													1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4		
	75"	Custom	11.391 - 13.397													1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4		
		¼-½-¼	13.398 - 19.110													1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C2+2+C2+1	4		
		⅓-⅓-⅓	19.111 - 24.641													1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4		
	96"	Custom	18.360 - 19.397													1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4		
¼-½-¼		19.398 - 24.360	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C3+3+C3+1	4															
Custom		24.361 - 30.360	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C3+2+C3+1	4															
120"	¼-½-¼	** - 30.360	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C3+3+C3+1	4															
Window Buck Width	35-1/4"	⅓-⅓-⅓	11.391 - 11.391	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4		
	38"	⅓-⅓-⅓	12.308 - 12.308	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4		
	45-1/8"	¼-½-¼	11.391 - 13.397	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4		
		⅓-⅓-⅓	13.398 - 14.683	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4		
	47-3/4"	¼-½-¼	11.391 - 12.297	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4		
		⅓-⅓-⅓	12.298 - 15.558	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4		
	52-1/8"	Custom	11.391 - 12.016	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4		
		¼-½-¼	12.017 - 13.397	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4		
		⅓-⅓-⅓	13.398 - 17.016	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4		
	60"	Custom	11.391 - 13.397	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4		
		¼-½-¼	13.398 - 15.360	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4		
		⅓-⅓-⅓	15.361 - 19.641	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C3+0+C3+1	4	1+C2+0+C2+1	2	1+C2+0+C2+1	2	1+C2+0+C2+1	3	1+C2+0+C2+1	4	1+C2+0+C2+1	4	1+C2+0+C2+1	4		
	75"	Custom	11.391 - 13.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4		
		¼-½-¼	13.398 - 19.110	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C3+2+C3+1	4	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C2+2+C2+1	4		
		⅓-⅓-⅓	19.111 - 24.641	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C3+1+C3+1	4	1+C2+1+C2+1	2	1+C2+1+C2+1	2	1+C2+1+C2+1	3	1+C2+1+C2+1	4	1+C2+1+C2+1	4	1+C2+1+C2+1	4		
	96"	Custom	18.360 - 19.397	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C3+3+C3+1	4	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4		
¼-½-¼		19.398 - 24.360	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C3+3+C3+1	4	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4			
Custom		24.361 - 30.360	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C3+2+C3+1	4	1+C2+2+C2+1	2	1+C2+2+C2+1	2	1+C2+2+C2+1	3	1+C2+2+C2+1	4	1+C2+2+C2+1	4	1+C2+2+C2+1	4			
120"	¼-½-¼	** - 30.360	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C3+3+C3+1	4	1+C2+3+C2+1	2	1+C2+3+C2+1	2	1+C2+3+C2+1	3	1+C2+3+C2+1	4	1+C2+3+C2+1	4	1+C2+3+C2+1	4			

Max. Anchor O.C. Spacing for "Integral-Fin" Installation	Anchor Group F
	3.7"

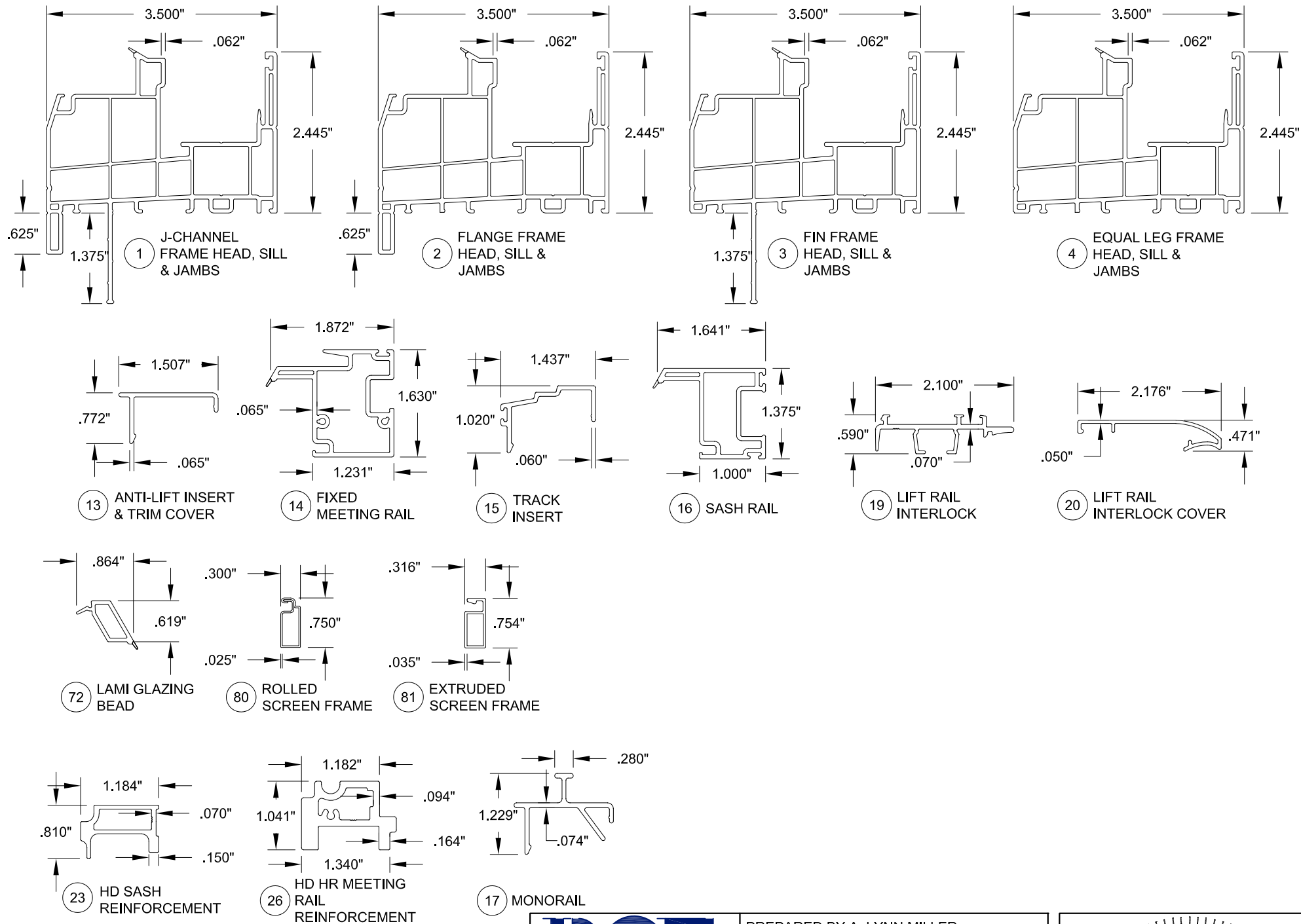
** MIN. SASH SIZE = WINDOW WIDTH - 59.28
2

- NOTES:
- 1) FRAME DIMENSIONS ARE BUCK WIDTH AND BUCK HEIGHT (SEE SHEETS 3-4). SASH SIZE IS AS PER THE FIGURE ON SHEET 5.
 - 2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH

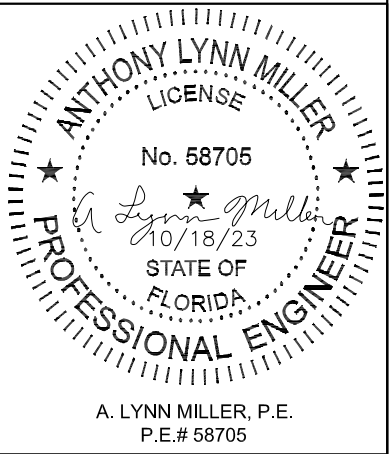
TABLE 8:

Bill of Material			
#	Part #	Description	Material
1	620121	Frame Head, Sill and Jambs - J-Channel	PVC
2	620122	Frame Head, Sill and Jambs - Flange	PVC
3	620123	Frame Head, Sill and Jambs - Fin	PVC
4	620124	Frame Head, Sill and Jambs - Equal Leg	PVC
13	620172	Anti-Lift Insert / Trim Cover	PVC
14	620131	Fixed Meeting Rail	PVC
15	620158	Track Insert	6063 T6 Al
16	620129	Sash Rail (Sides, Top & Bottom)	PVC
17	620166	Monorail	6063 T6 Al
19	620156	Pull Rail Interlock	6063 T6 Al
20	620144	Pull Rail Interlock Cover	PVC
23	620152	HD Sash Reinforcement	6063 T6 Al
26	620155	H.D. Horiz. Roller Meeting Rail Reinforcement	6005 T5 Al
27	710X114PPA	#10 x 1-1/4" PH. PH SDS (Monorail Screw)	410 SS
28	61644	Weatherstrip, .187" x .270" Fin Pile	
29	61719	Weatherstrip, .187" x .220" Poly Pile	
30		#8 x 1" Ph. PH SDS (Interlock Mounting Screw)	410 SS
31	78X312PPA	#8 x 3-1/2" Ph. PH SMS (Fixed Meeting Rail Screw)	410 SS
32	71669SP	Meeting Rail Screw Support Plate	6063 T5 Al
33	720210	Weep Hole Cover	PVC
34	720187	Installation Screw Hole Plug	PVC
37	720197	Auto Lock	C Steel
38	720199	Sweep Lock	Cast Zinc
39	720196	Auto Lock Cover Assembly	Cast Zinc
40		#6 x 1-1/8" Ph. FH SDS (Auto and Sweep Lock Screw)	SS
41	720200	Auto and Sweep Lock Keeper	Cast Zinc
42	76X34PPA	#6 x 3/4" PH. PH SDS (Keeper Screw)	SS
43	7612FPTX	#6 x 1/2" FPH Tek (Reinforcement Screw)	SS
44		Leadstile Top Corner Key	Nylon
45		Leadstile Bottom Corner Key	Nylon
46		Lockstile Top Corner Key	Nylon
47		Lockstile Bottom Corner Key	Nylon
48	720204	Wheel	Nylon
72	620332	Lami Glazing Bead	PVC
74		Backbedding, GE 7700 or Dow 791, 983	Silicone
75		Setting Block (1/8" x 1/2" x 4")	EPDM
80	61011	Roll-formed Screen	Alum
81	61012	Extruded Screen Frame	Alum
82		Extruded Screen Spreader Bar	Alum
83	47042W	Screen Corner Key with Pull Ring	PVC
84	47041W/CKGLB	Screen Corner Key No Pull Ring	PVC
85	7CASP	Tension Spring	SS
86	61816C48	Screen Cloth	Fiberglass
87	61635/61614	.140" Screen Spline (Machine/Hand Rolled)	Vinyl

NOTES:
1) ITEMS # 5-12, 18, 21-22, 24-25, 35, 36, 49-71 & 73 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.
2) PVC BY VISION EXTRUSIONS GROUP, LTD., TO BE LABELED FOR AAMA EXTRUDER CODE.



PGT Custom Windows and Doors		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
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Series	Rev	Title	Date
HR-5510	8 OF 9	VINYL HORIZONTAL ROLLER WINDOW (LMI)	06/07/19
CHANGED EXTRUDER		Drawn By	JENS ROSOWSKI
		Rev Date	10/17/23
Sheet	DWG No.	Rev:	B
8 OF 9	HR5510 LAMI		



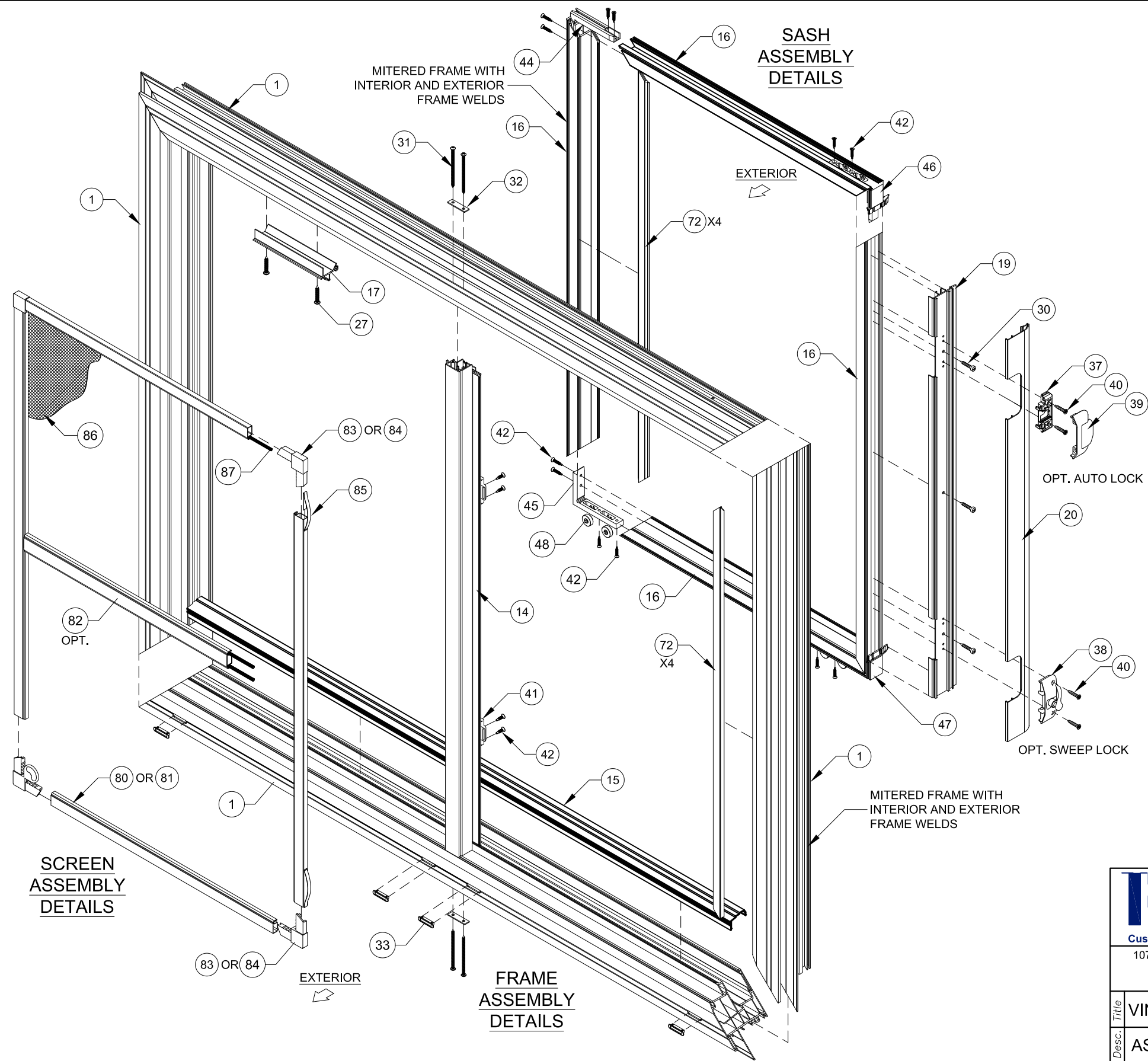
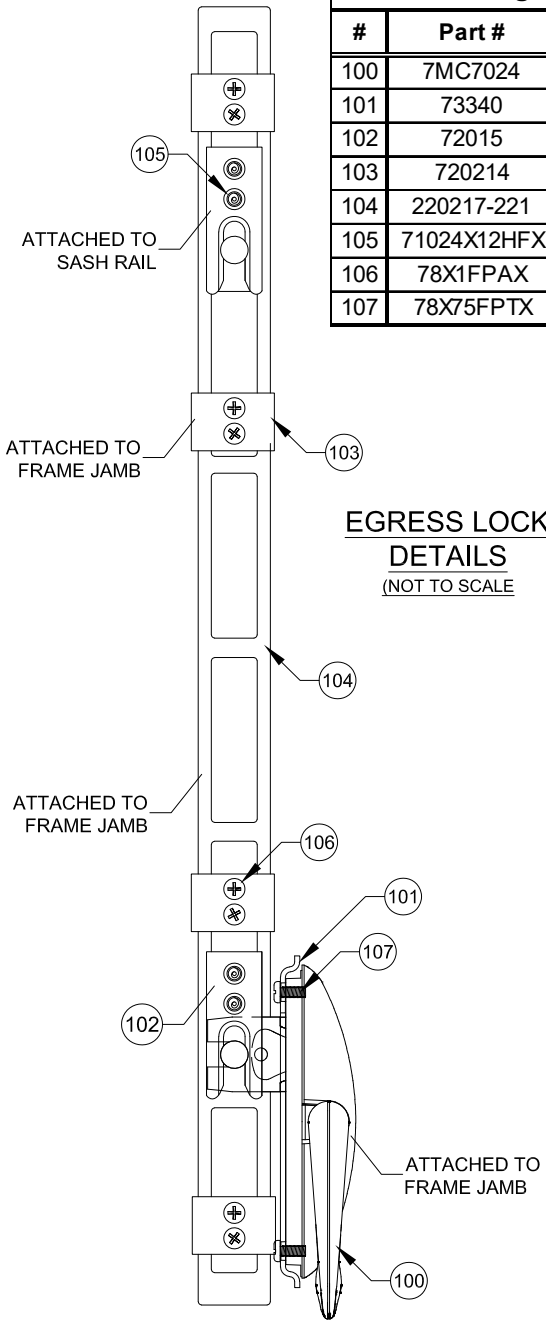


TABLE 9:

Egress Lock Bill of Material			
#	Part #	Description	Material
100	7MC7024	Multi-Point Lock Operator	Cast Zinc
101	73340	Operator mounting Plate	Steel
102	72015	Multipoint Lock Keeper	Aluminum
103	720214	Multipoint Lock Guide	Nylon
104	220217-221	Tie Bar (Length Varies)	Stainless Steel
105	71024X12HFX	#10 x 1/2" HH MS	Stainless Steel
106	78X1FPAX	#8 x 1" Ph. FH SMS	Stainless Steel
107	78X75FPTX	#8 x 3/4" Ph. FH SDS	Stainless Steel



SCREEN
ASSEMBLY
DETAILS

FRAME
ASSEMBLY
DETAILS

NOTES:
1) GLASS AND SOME PARTS/OPTIONS NOT SHOWN ON DRAWING FOR CLARITY.
2) J-CANNEL FRAME SHOWN, PART # 1. OTHER FRAME TYPES APPLY.

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HR-5510		VINYL HORIZONTAL ROLLER WINDOW (LMI)	06/07/19
ASSEMBLY		Drawn By	JENS ROSOWSKI
NO CHANGES THIS SHEET		Rev Date	10/17/23
Sheet	9 OF 9	DWG No.	HR5510 LAMI
		Rev:	B

