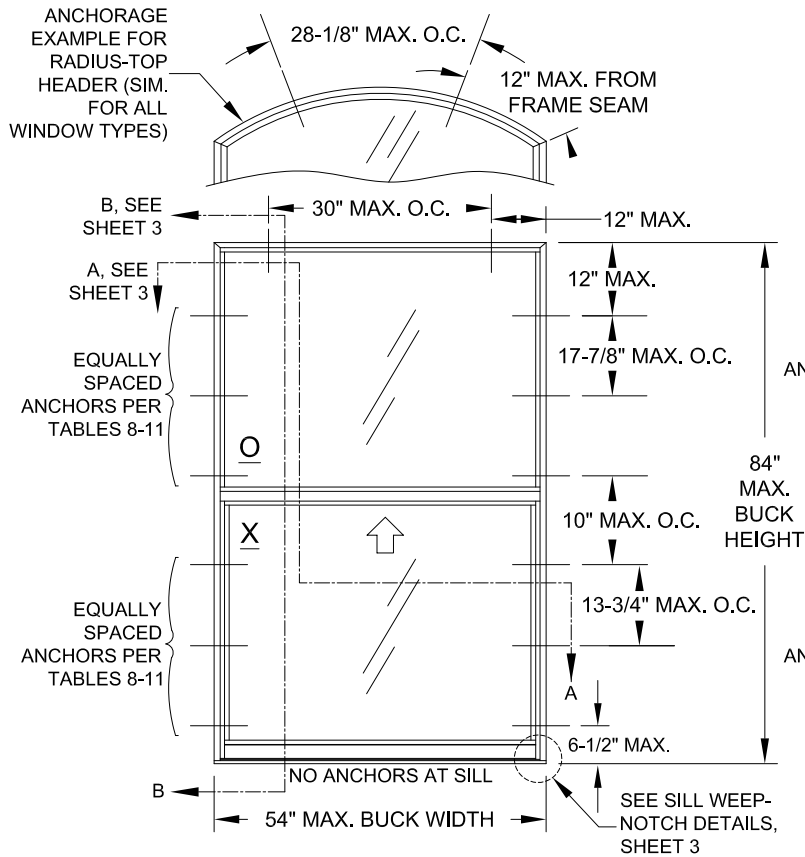
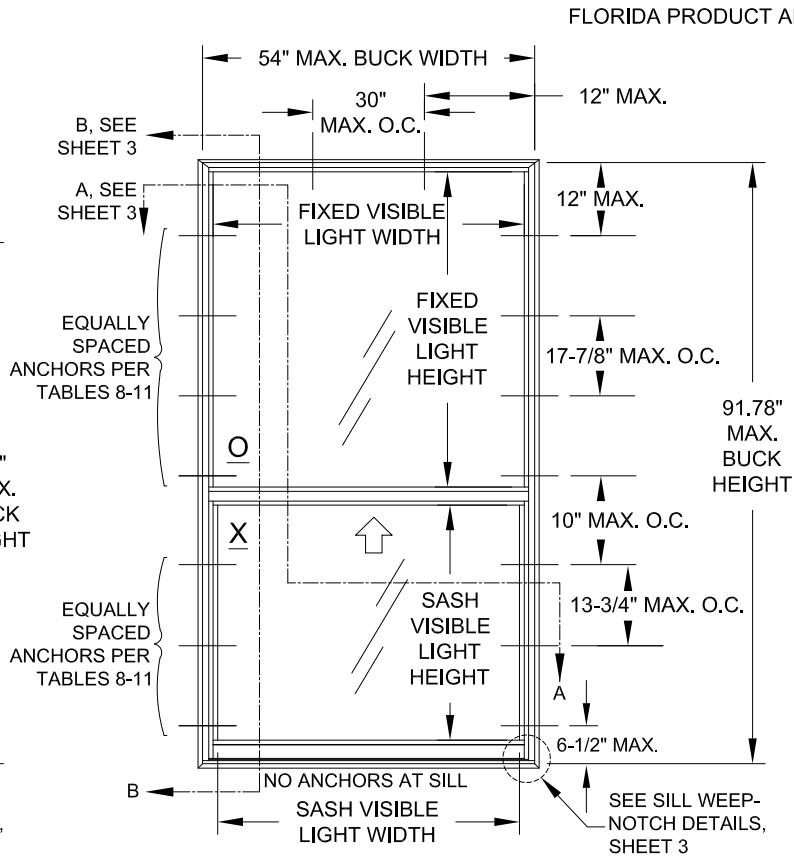
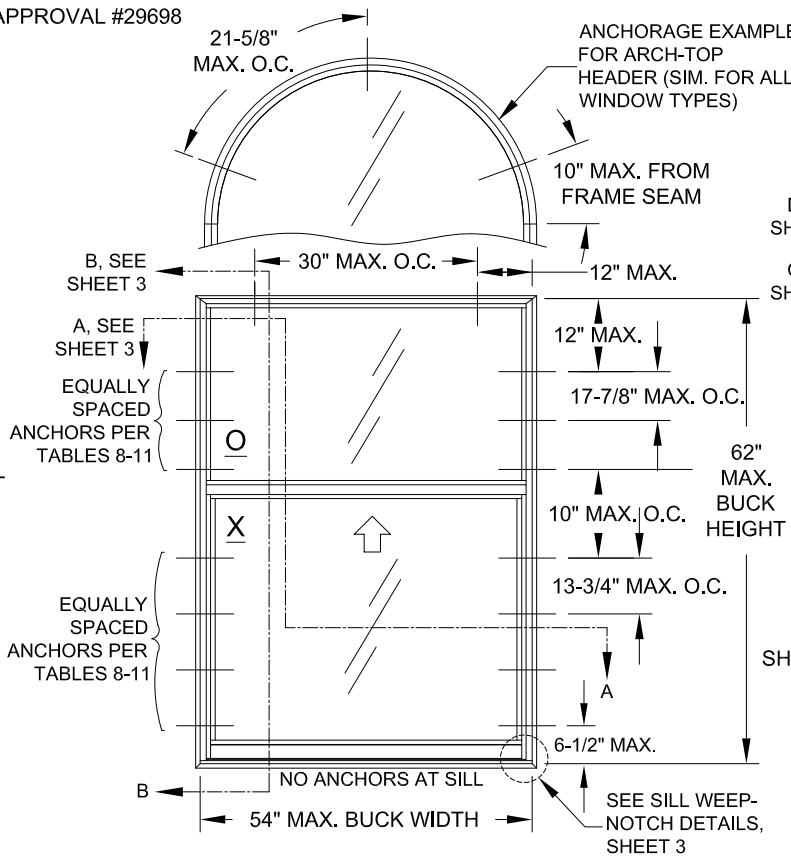




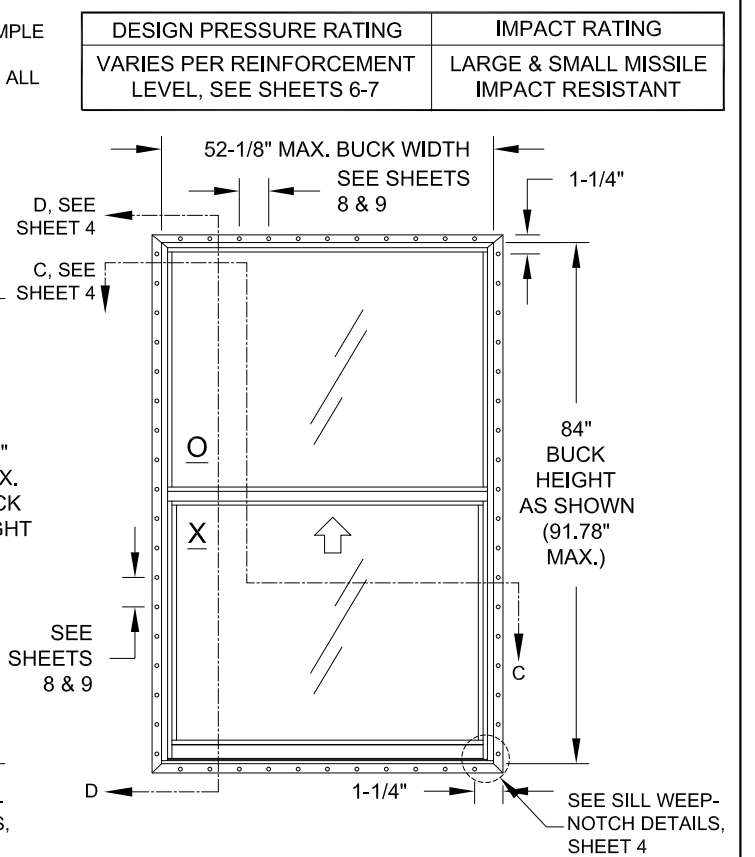
ELEVATION FOR TYP. EQUAL LEG FRAME
SHOWN WITH EQUAL-LITE CONFIGURATION



ELEVATION FOR TYP. FLANGE FRAME
SHOWN WITH ORIEL/PROVIEW CONFIGURATION



ELEVATION FOR TYP. FLANGE FRAME
SHOWN WITH STANDARD COTTAGE CONFIGURATION
FOR CUSTOM COTTAGE CONFIGURATION UP TO
75" HEIGHT SEE TABLES 4-11



ELEVATION FOR TYP. FIN OR J-CHANNEL FRAME
SHOWN WITH EQUAL-LITE CONFIGURATION
ANCHORED THROUGH THE NAIL-FIN
(SIMILAR ANCHOR DIMENSIONS FOR OTHER CONFIGURATIONS)

DESIGN PRESSURE RATING	IMPACT RATING
VARIES PER REINFORCEMENT LEVEL, SEE SHEETS 6-7	LARGE & SMALL MISSILE IMPACT RESISTANT

GENERAL NOTES: SERIES SH5500 IMPACT RESISTANT SINGLE HUNG WINDOW WITH DIAMOND GLASS

- 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. FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ, THE OUTBOARD LITE (CAP) MUST TEMPERED.
- 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 REQUIRED MIN. EMBEDMENT. INST. 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.
- 5) 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.
- 6) 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.
- 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) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
- 9) APPLICABLE EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.
- 10) FRAME FLANGES OR INTEGRAL FINNS MAY BE TRIMMED IN-FIELD TO CREATE AN EQUAL-LEG FRAME.

USER INSTRUCTIONS:

- 1) DETERMINE THE SITE SPECIFIC, WINDOW OPENING'S DESIGN PRESSURE REQUIREMENT FROM ASCE 7.
- 2) DETERMINE THE MOST SUITABLE ANCHOR GROUP FROM TABLES 2 OR 3 ACCORDING TO THE INSTALLATION CONDITIONS.
- 3) KNOWING YOUR GLAZING OPTION (TABLE 1), WINDOW CONFIGURATION AND SIZE, DETERMINE YOUR WINDOW'S DESIGN PRESSURE FROM TABLES 4-7. IT MUST EQUAL OR EXCEED THE DESIGN PRESSURE REQUIREMENT FOR THE WINDOW OPENING OBTAINED IN STEP 1.
- 4) DETERMINE THE ANCHOR QUANTITY FROM TABLES 8-11. 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 THRU-FRAME INSTALLATION OR SHEET 4 FOR INTEGRAL FIN 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.....	1
ELEVATIONS.....	1
FRAME, GLASS & ANCHOR OPTIONS.....	2
INSTALLATION, FLANGE & EQUAL LEG/BOX.....	3
INSTALLATION, INTEGRAL FIN & J-CHANNEL...	4
GLAZING DETAILS.....	5
DESIGN PRESSURES.....	6-7
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Title	VINYL SINGLE HUNG WINDOW (LM)		Date 02/07/25
Desc.	GENERAL NOTES & ELEVATION	Drawn By COLTON KEMPFF	
Rev		Rev Date	
Series	SH5500	Sheet 1 OF 14	DWG No. SH5500-DG-LM

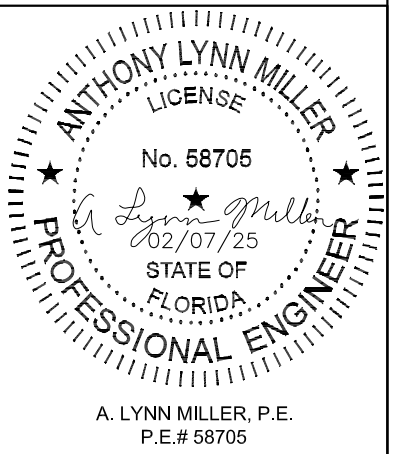


TABLE 1: ALLOWABLE GLASS TYPES

Glass Type	Description (Listed from Exterior to Interior)	Design Pressure	
		Table #	Sheet #
1	7/8" Laminated I.G.: 1/8" A Exterior Cap + 1/2" Air Space + 1/8" A Glass + .090 PVB Interlayer + 0.7mm ATG	4	6
2	7/8" Laminated I.G.: 1/8" T Exterior Cap + 1/2" Air Space + 1/8" A Glass + .090 PVB Interlayer + 0.7mm ATG	4	6
3	7/8" Laminated I.G.: 1/8" H Exterior Cap + 1/2" Air Space + 1/8" H Glass + .090 PVB Interlayer + 0.7mm ATG	5	6
4	7/8" Laminated I.G.: 1/8" T Exterior Cap + 1/2" Air Space + 1/8" H Glass + .090 PVB Interlayer + 0.7mm ATG	5	6
5	7/8" Laminated I.G.: 3/16" A Exterior Cap + 3/8" Air Space + 3/16" A Glass + .090 PVB Interlayer + 0.7mm ATG	5, 6	6, 7
6	7/8" Laminated I.G.: 3/16" T Exterior Cap + 3/8" Air Space + 3/16" A Glass + .090 PVB Interlayer + 0.7mm ATG	5, 6	6, 7
7	7/8" Laminated I.G.: 1/8" T Exterior Cap + 1/2" Air Space + 1/8" T Glass + .090 SG Interlayer + 0.7mm ATG	7	7

GLASS TYPES 1, 3, & 5 MAY NOT BE USED IN THE HVHZ ABOVE 30'.

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.)	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"
		Southern Pine (SG=0.55)	7/16"	1-3/8"
		Concrete (min. 3 ksi)	1"	1-3/8"
B	#12 SMS (steel, 18-8 S.S. or 410 S.S.)	Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
		Southern Pine (SG=0.55)	9/16"	1-3/8"
		Steel, A36*	3/8"	0.050"
	1/4" steel Ultracon+	Steel Stud, A653 Gr. 33*	3/8"	0.0451" (18 Ga.)
		Aluminum, 6063-T5*	3/8"	0.063"
		Southern Pine (SG=0.55)	1"	1-3/8"
C	1/4" steel Ultracon+	Southern Pine (SG=0.55)	1"	1-3/8"
		Concrete (min. 3 ksi)	1-3/16"	1-3/4"
	1/4" steel Creteflex	Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
D	1/4" steel Ultracon+	Concrete (min. 3.35 ksi)	1"	1-3/4"
		Concrete (min. 3 ksi)	2-1/2"	1-3/4"
	1/4" steel Creteflex	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"
E	2-1/2" x .131" Common Nail	Grouted CMU, (ASTM C-90)	2"	2"
		Concrete (min. 3.275 ksi)	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*
E	2-1/2" x .131" Common Nail	Southern Pine (SG=.55)	3/8"	2-7/16"
	2-1/2" Ring-shank Roofing Nail	Southern Pine (SG=.55)	3/8"	2-7/16"
	#10 Trusshead SMS (steel, 18-8 S.S. or 410 S.S.)	Southern Pine (SG=.55)	1/2"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.050"
		Steel Stud, Gr. 33*	3/8"	0.0451" (18 Ga.)
		Steel, A36*	3/8"	0.050"
	#12 Pan Head or Flat Head SMS (steel, 18-8 S.S. or 410 S.S.)	Southern Pine (SG=.55)	9/16"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.063"
		Steel Stud, Gr. 33*	3/8"	0.050"
F	Steel, A36*	Steel, A36*	3/8"	0.050"

* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

Frame Types (see Fig B)	Glass Options (see Table 1)	Frame Configs. (see Fig A)	Frame Shapes (see Fig C)	Installation Options that may be used	
Flange (#2)	1 - 7	Equal-Lite, Oriel/Proview & Cottage	Square/Rect., Arch-Top & Radius-Top	Through the frame of the window.....	into 2X Wood Frame/Buckstrip - sheet 3, option 1
					into Concrete/CMU - sheet 3, option 2
					through 1X Buckstrip into Concrete/CMU - sheet 3, option 3
					into Metal - sheet 3, option 4
Box / Equal-Leg (#4)	1 - 7	Equal-Lite, Oriel/Proview & Cottage	Square/Rect., Arch-Top & Radius-Top	Through the frame of the window.....	into 2X Wood Frame/Buckstrip - sheet 3, option 1
					into Concrete/CMU - sheet 3, option 2
					through 1X Buckstrip into Concrete/CMU - sheet 3, option 3
					into Metal - sheet 3, option 4
J-Channel (#1)	1 - 6	Equal-Lite, Oriel/Proview & Cottage	Square/Rect., Arch-Top & Radius-Top	Through the integral fin.....	into 2X Wood Frame/Buckstrip - sheet 4, option 5
					into Metal - sheet 4, option 7
				Through the frame of the window.....	into 2X Wood Frame/Buckstrip - sheet 4, option 6
					into Metal - sheet 4, option 8
Integral Fin (#3)	1 - 6	Equal-Lite, Oriel/Proview & Cottage	Square/Rect., Arch-Top & Radius-Top	Through the integral fin.....	into 2X Wood Frame/Buckstrip - sheet 4, option 5
					into Metal - sheet 4, option 7
				Through the frame of the window.....	into 2X Wood Frame/Buckstrip - sheet 4, option 6
					into Metal - sheet 4, option 8

FIGURE A: FRAME CONFIGURATIONS

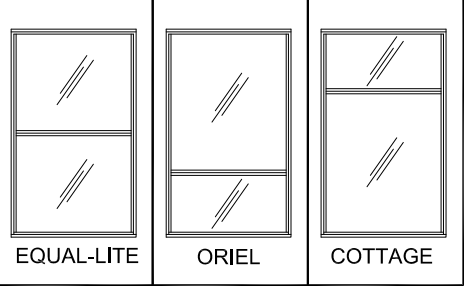
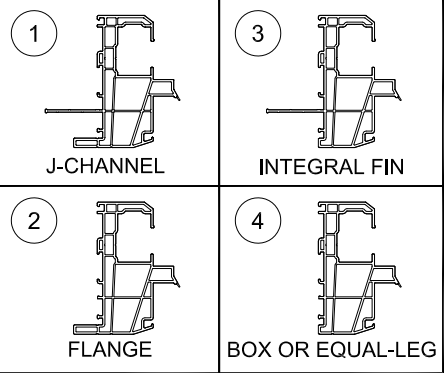
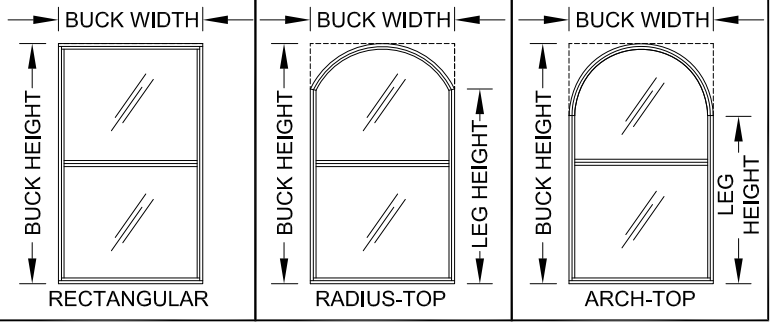


FIGURE B: FRAME TYPES



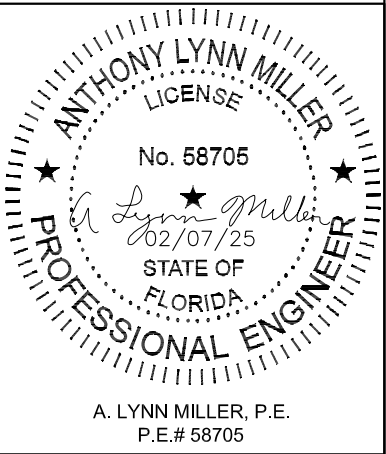
"A" = ANNEALED
"H" = HEAT STRENGTHENED
"T" = TEMPERED
"PVB" = .090" TROSIFOL® PVB BY KURARAY AMERICA, INC.
"SG" = .090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC.
"ATG" = 0.7mm ARCHITECTURAL TECHNICAL GLASS BY CORNING, INC.

FIGURE C: FRAME SHAPES



WINDOW SHAPES AS ABOVE OR SIMILAR ARE APPROVED. SHAPES MAY BE USED BY INSCRIBING THE SHAPE IN A BLOCK AND OBTAINING DESIGN PRESSURES AND ANCHORAGE FOR THAT BLOCK SIZE FROM THE TABLES ON SHEETS 6-11.

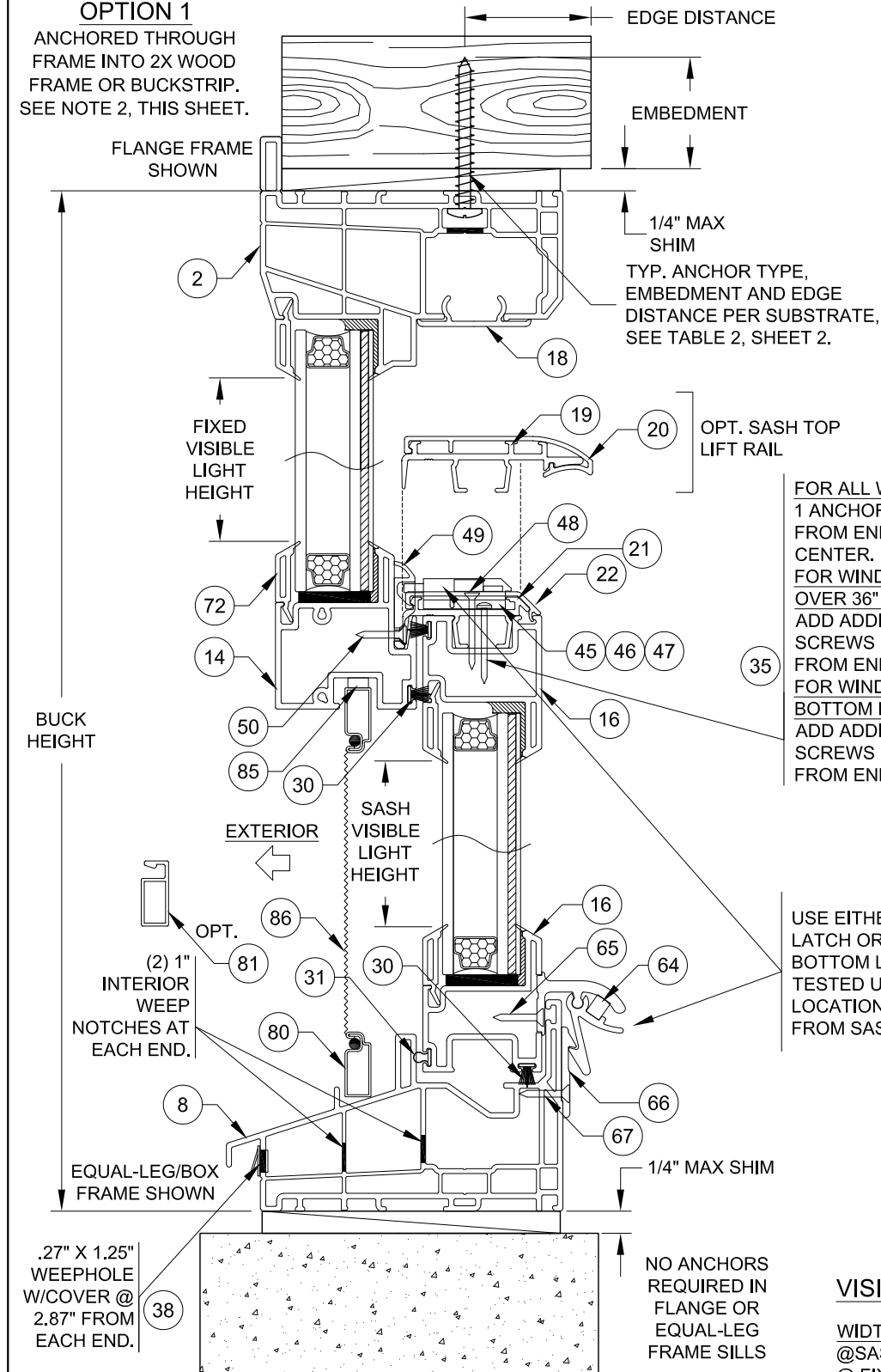
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Desc.	GLASS/ANCHOR/FRAME OPTIONS	Drawn By	COLTON KEMPFF				
Rev			Rev Date				
Series	SH5500	Sheet	2 OF 14	DWG No.	SH5500-DG-LM	Rev.	



INSTALLATION DETAILS FOR FLANGE & EQUAL-LEG/BOX FRAMES

INSTALLATION
OPTION 1

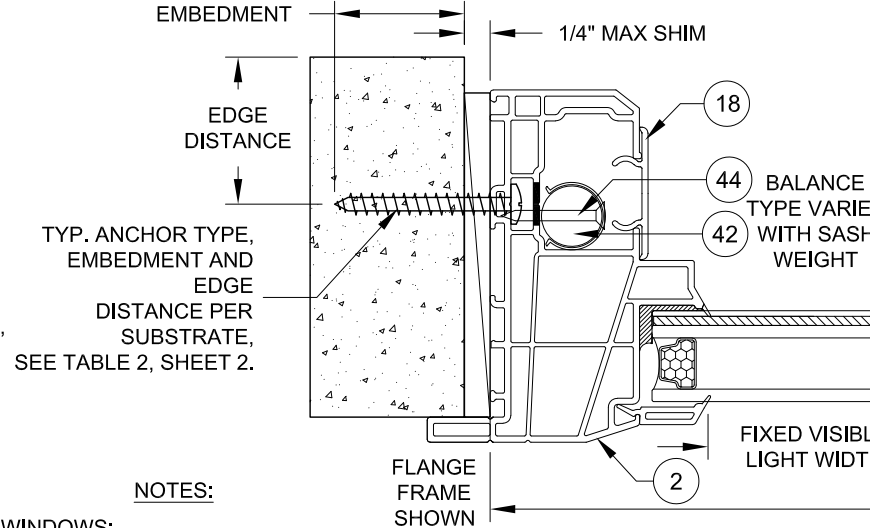
ANCHORED THROUGH
FRAME INTO 2X WOOD
FRAME OR BUCKSTRIP.
SEE NOTE 2, THIS SHEET.



VERTICAL SECTION B-B

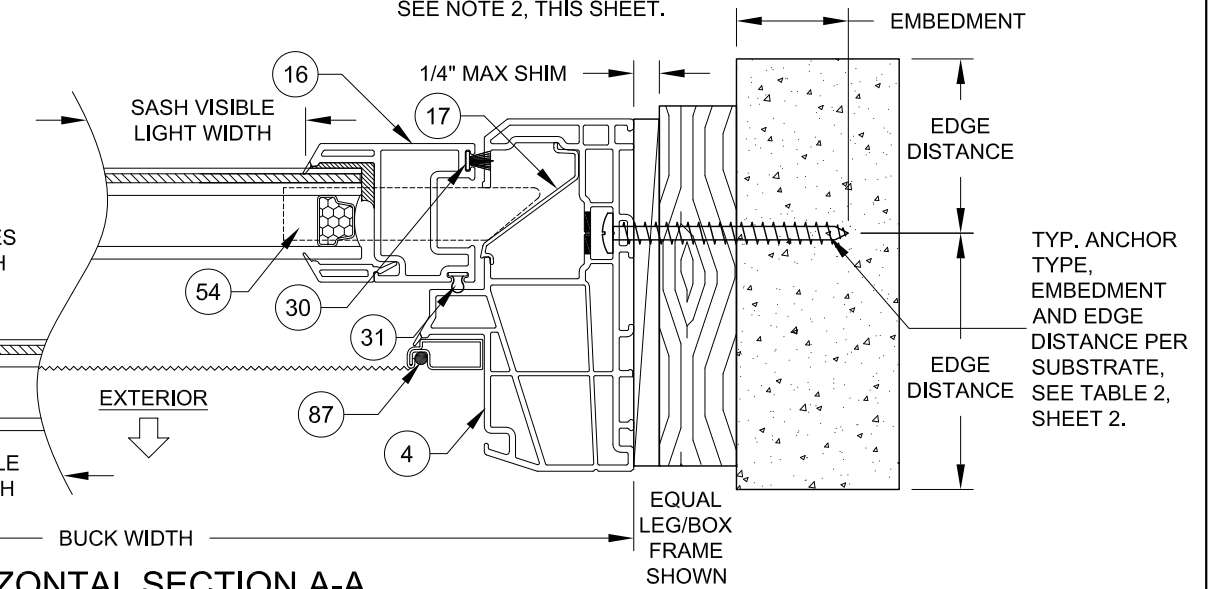
INSTALLATION OPTION 2

ANCHORED THROUGH FRAME
DIRECTLY INTO CONCRETE/CMU.



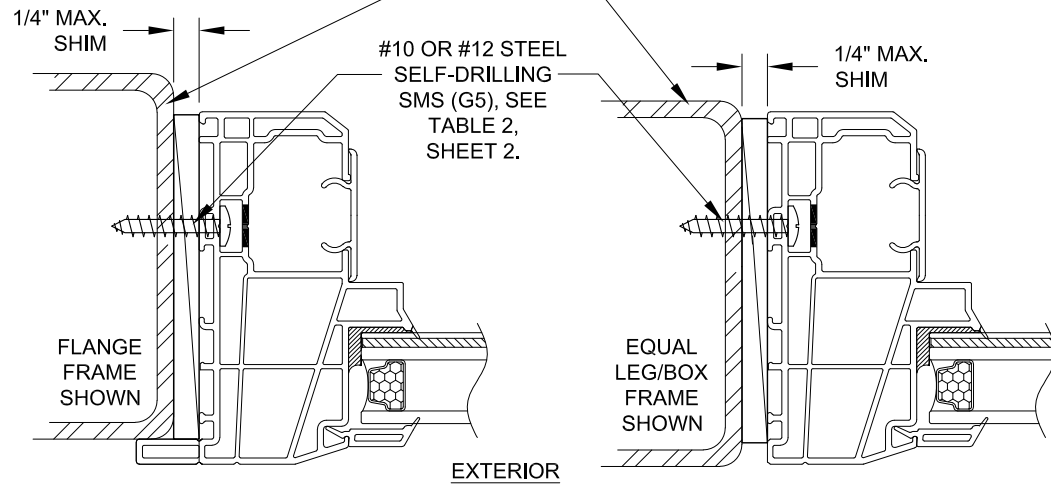
INSTALLATION OPTION 3

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



HORIZONTAL SECTION A-A

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



INSTALLATION
OPTION 4

ANCHORED THROUGH
FRAME INTO METAL

INSTALLATION
OPTION 4

ANCHORED THROUGH
FRAME INTO METAL

NOTES:

FOR ALL WINDOWS:
1 ANCHOR @ 3.55"
FROM END AND AT
CENTER.
FOR WINDOWS
OVER 36" WIDE:
ADD ADDITIONAL
SCREWS @ 16-3/8"
FROM END.
FOR WINDOWS WITH
BOTTOM LOCKS:
ADD ADDITIONAL
SCREWS @ 8-3/8"
FROM END.

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

2) MASONRY ANCHORS MAY BE
USED INTO WOOD AS PER TABLE 2,
SHEET 2. 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
TO PROPERLY TRANSFER LOADS TO
THE STRUCTURE. WOOD BUCK
DESIGN AND INSTALLATION IS THE
RESPONSIBILITY OF THE ENGINEER
OR ARCHITECT OF RECORD.

3) VISIBLE LIGHT WIDTH OR HEIGHT
(ALSO REFERRED TO AS DAYLIGHT
OPENING) IS MEASURED FROM
BEADING TO BEADING.

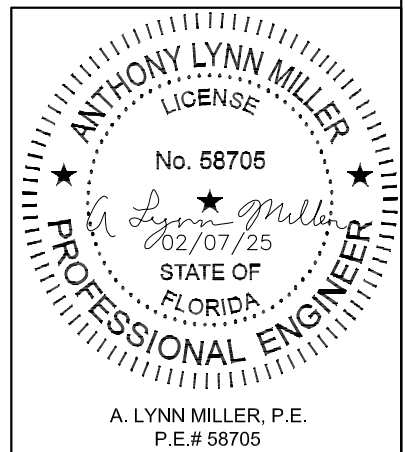
4) ALL ANCHOR HEAD TYPES
ARE ACCEPTABLE.

VISIBLE LIGHT FORMULAS

WIDTH
@SASH: BUCK WIDTH - 6-1/2"
@ FIXED LITE: BUCK WIDTH - 4-3/8"

HEIGHT (EQUAL-LITE)
BUCK HEIGHT/2 - 3-15/16"

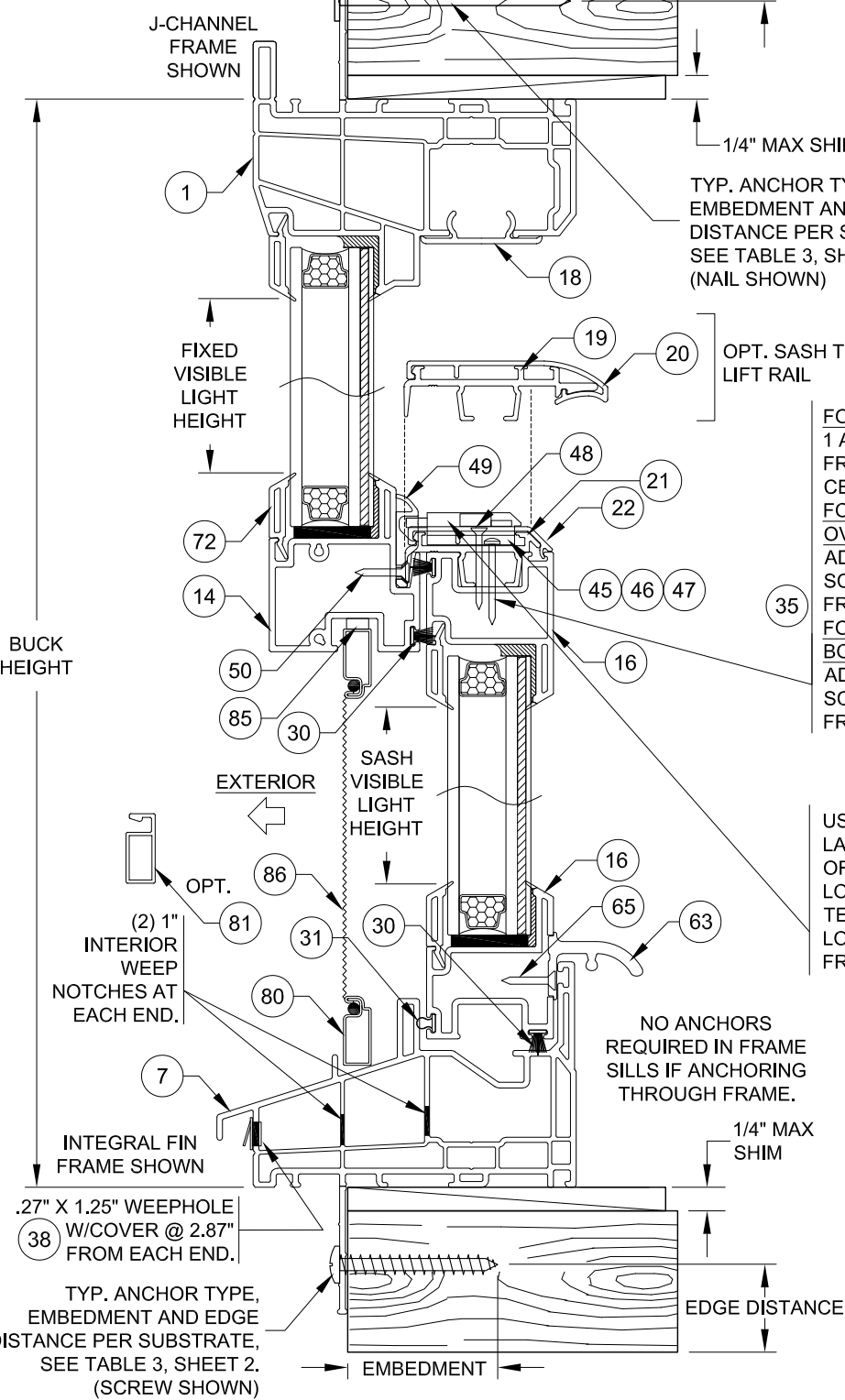
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SH5500		VINYL SINGLE HUNG WINDOW (LM)	02/07/25
Desc.	Rev	FLANGE & EQUAL-LEG FRAMES	
Rev	Rev	Drawn By COLTON KEMPFF	
Rev	Rev	Rev Date	
Rev	Rev	Rev	



INSTALLATION DETAILS FOR INTEGRAL FIN & J-CCHANNEL FRAMES

INSTALLATION OPTION 5

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



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

VERTICAL SECTION D-D

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

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

FOR ALL WINDOWS:
1 ANCHOR @ 3.55" FROM END AND AT CENTER.
FOR WINDOWS OVER 36" WIDE:
ADD ADDITIONAL SCREWS @ 16-3/8" FROM END.
FOR WINDOWS WITH BOTTOM LOCKS:
ADD ADDITIONAL SCREWS @ 8-3/8" FROM END.

USE EITHER LATCH (SHOWN) OR BOTTOM LOCK (SHEET 3). TESTED UNIT LOCATION: 6-5/8" FROM SASH END.

NO ANCHORS REQUIRED IN FRAME SILLS IF ANCHORING THROUGH FRAME.

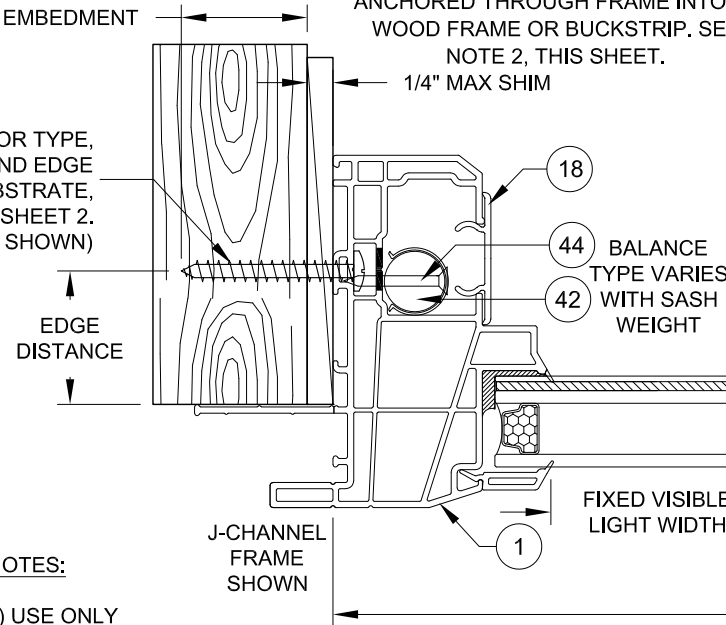
VISIBLE LIGHT FORMULAS

WIDTH
@SASH: BUCK WIDTH - 6-1/2"
@ FIXED LITE: BUCK WIDTH - 4-3/8"

HEIGHT (EQUAL-LITE)
BUCK HEIGHT/2 - 3-15/16"

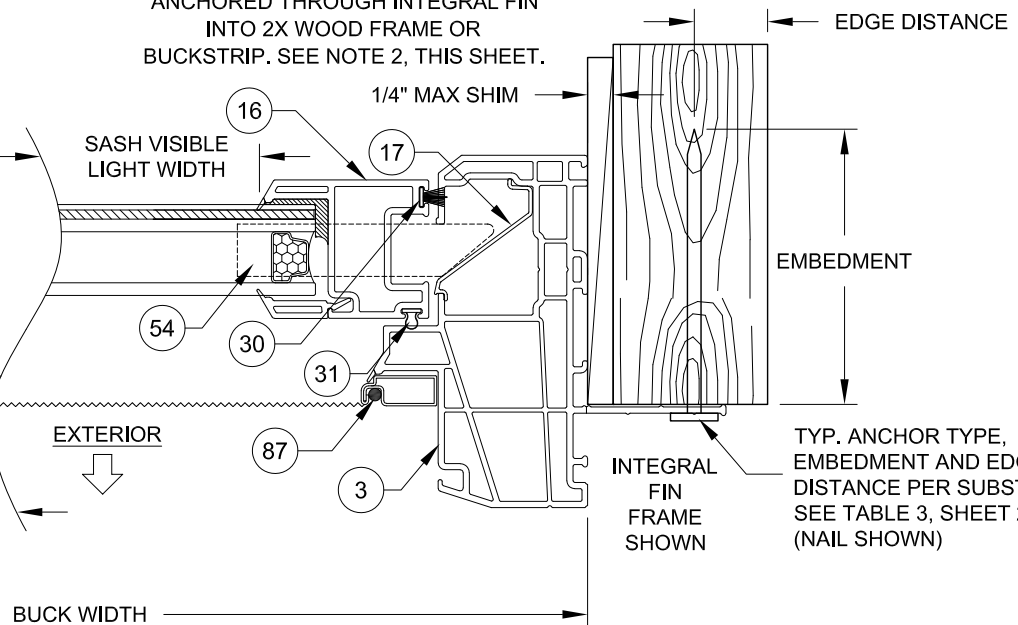
INSTALLATION OPTION 6

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

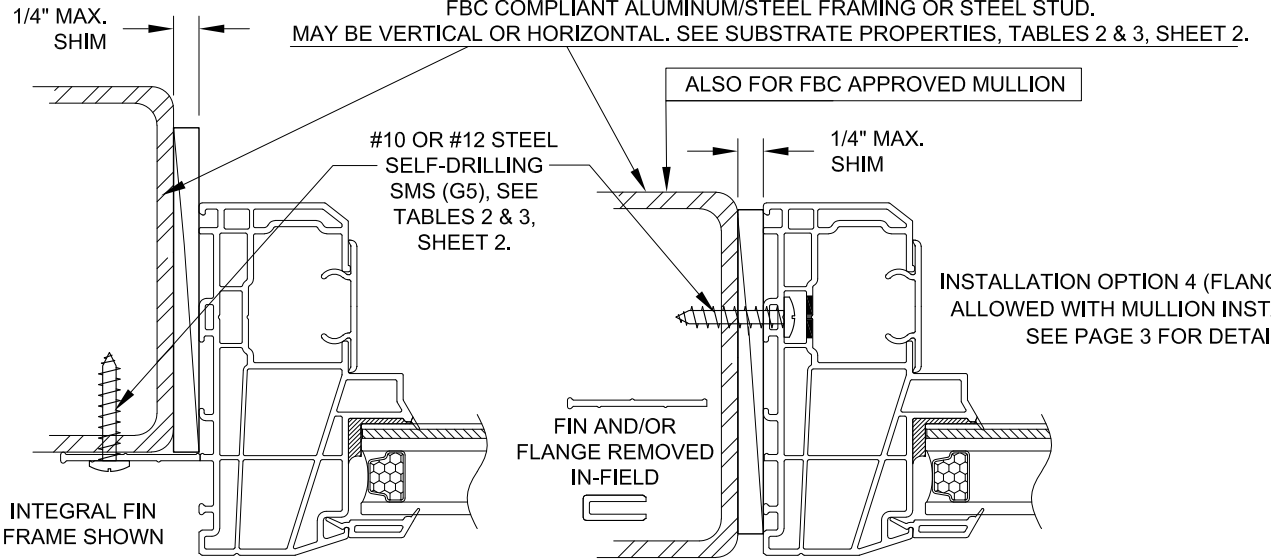


INSTALLATION OPTION 5

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



HORIZONTAL SECTION C-C



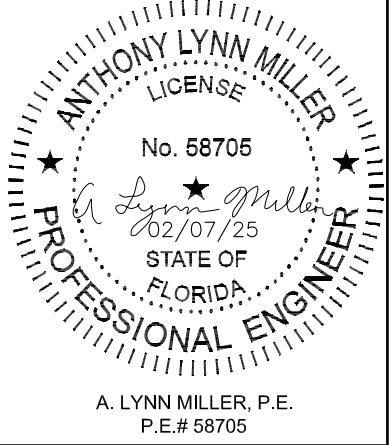
INSTALLATION OPTION 7

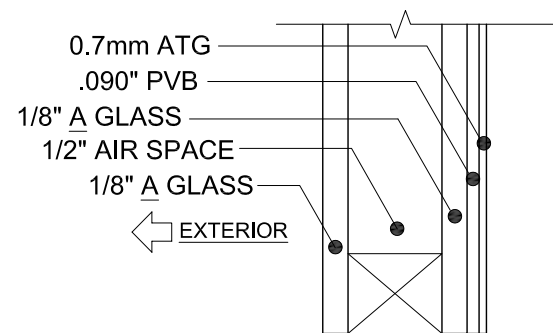
ANCHORED THROUGH INTEGRAL FIN INTO METAL

INSTALLATION OPTION 8

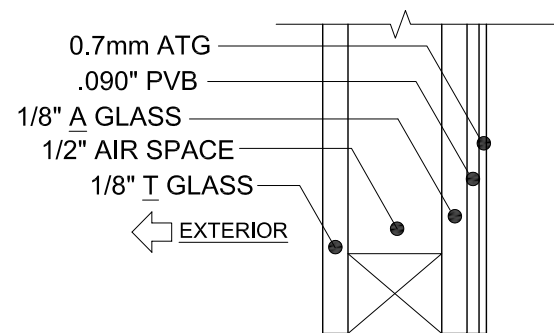
ANCHORED THROUGH FRAME INTO METAL (INTEGRAL FIN/FLANGE REMOVED)

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		VINYL SINGLE HUNG WINDOW (LM)	02/07/25
		J-CHANNEL AND INT. FIN FRAMES	
		Drawn By	COLTON KEMPFF
		Rev	Date
Series	SH5500	Sheet	4 OF 14
DWG No.	SH5500-DG-LM	Rev.	

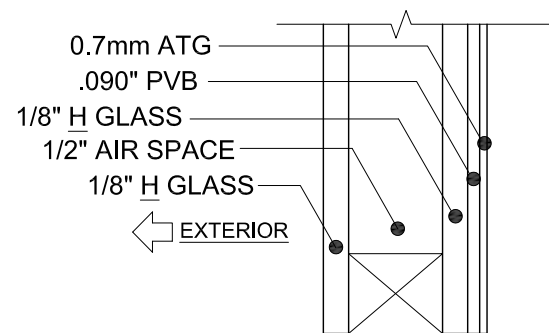




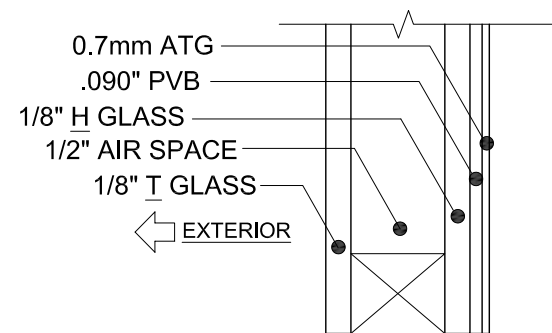
GLASS TYPE 1
7/8" NOM. GLASS STACK



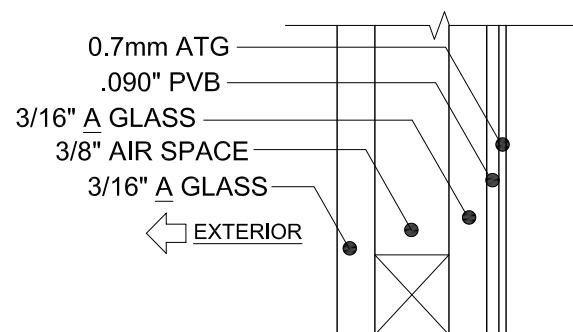
GLASS TYPE 2
7/8" NOM. GLASS STACK



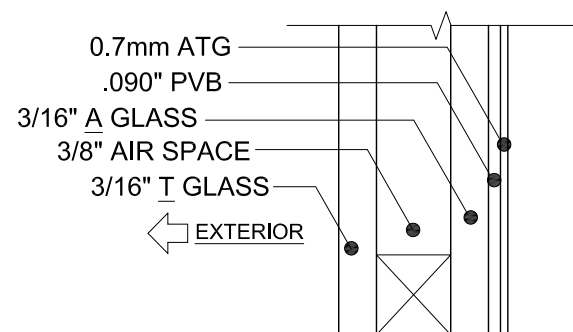
GLASS TYPE 3
7/8" NOM. GLASS STACK



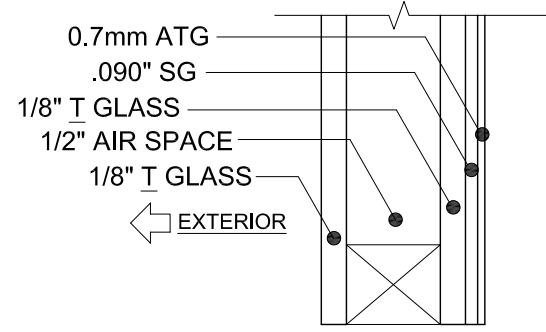
GLASS TYPE 4
7/8" NOM. GLASS STACK



GLASS TYPE 5
7/8" NOM. GLASS STACK



GLASS TYPE 6
7/8" NOM. GLASS STACK



GLASS TYPE 7
7/8" NOM. GLASS STACK

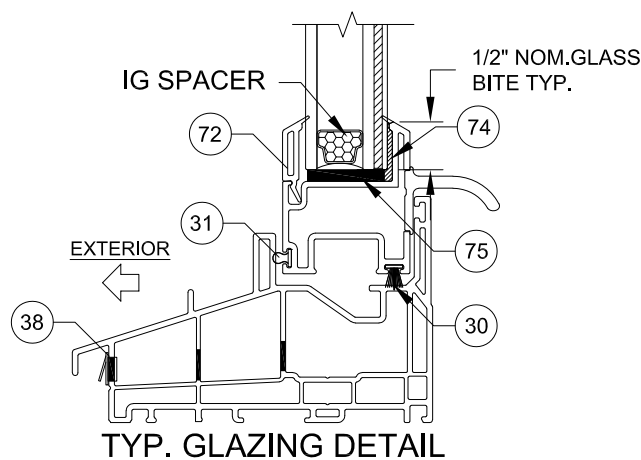
GLASS TYPES 5 & 6 WITH R3 REINF. MAY NOT BE USED WITH J-CHANNEL OR INTEGRAL FIN FRAMES

GLASS TYPE 7 MAY NOT BE USED WITH J-CHANNEL OR INTEGRAL FIN FRAMES

GLASS TYPES 1, 3, & 5 MAY NOT BE USED IN THE HVHZ ABOVE 30'.

GLAZING NOTES:
 "A" = ANNEALED
 "H" = HEAT STRENGTHENED
 "T" = TEMPERED
 "PVB" = .090" TROSIFOL® PVB BY KURARAY AMERICA, INC.
 "SG" = .090" SENTRYGLAS® BY KURARAY AMERICA, INC.
 "ATG" = 0.7mm ARCHITECTURAL TECHNICAL GLASS BY CORNING, INC.

FOR LAMINATED GLAZING COMPONENTS, SEE TABLE 1, SHEET 2.



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Series	SH5500	Sheet	5 OF 14
DWG No.	SH5500-DG-LM	Rev.	
Desc.	VINYL SINGLE HUNG WINDOW (LM)		Date 02/07/25
Rev	GLAZING DETAILS		Drawn By COLTON KEMPFF

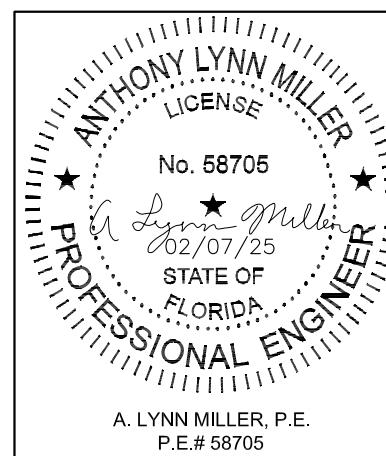
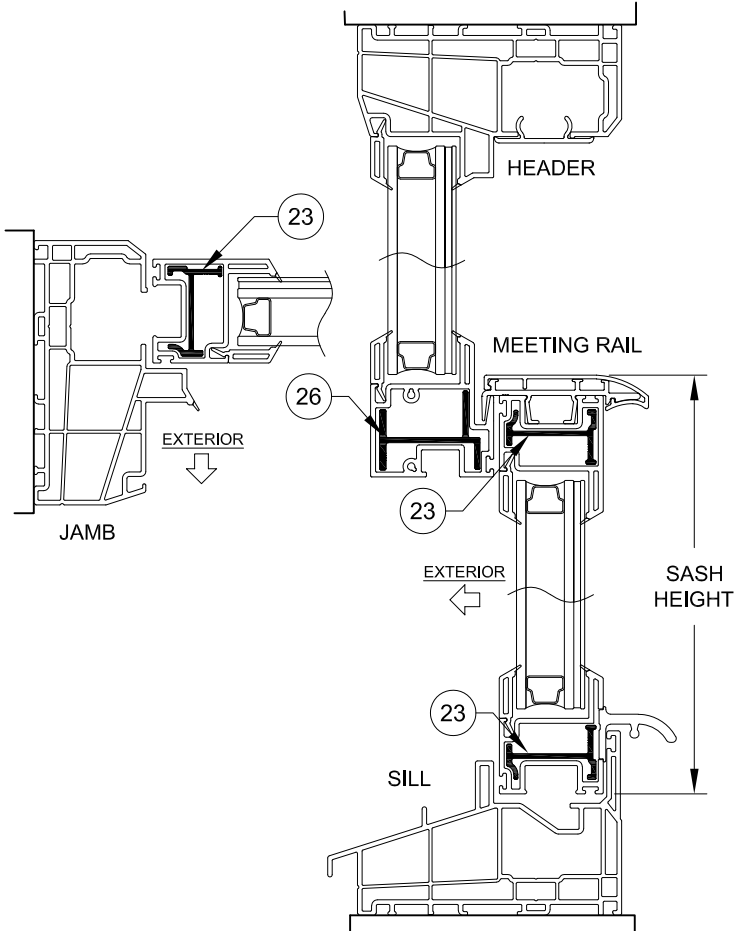


TABLE 4:

Glass Types 1 & 2	Design Pressure, lbs/ft ²
	+/- 50.0
Reinf. Level R1	For all window & sash sizes

SEE TABLE 8, SHEET 8 FOR
AVAILABLE SIZES & ANCHOR
GROUP AND QUANTITY.

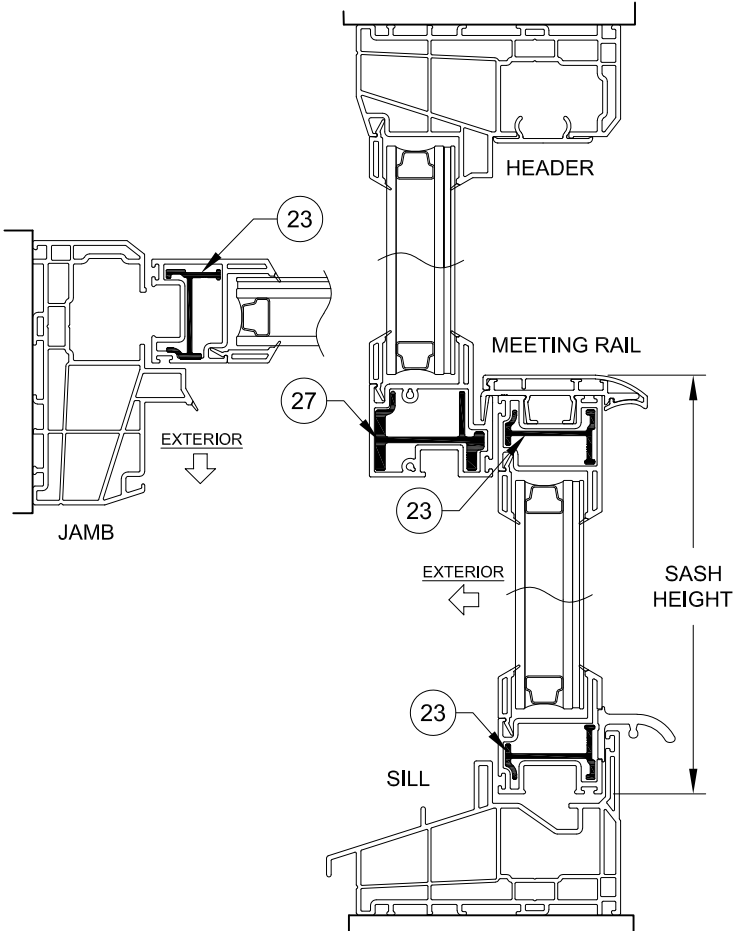


SECTION DETAIL FOR WINDOWS WITH
LEVEL R1 REINFORCEMENT & GLASS TYPES 1 & 2
(REINFORCEMENTS SHOWN IN FIGURES ABOVE
APPLY TO ALL FRAME TYPES &
CONFIGURATIONS)

TABLE 5:

Glass Types 3, 4, 5, & 6	Design Pressure, lbs/ft ²
	+65.0 / -70.0
Reinf. Level R2	For all window and sash sizes

SEE TABLE 9, SHEET 9 FOR
AVAILABLE SIZES & ANCHOR
GROUP AND QUANTITY.



SECTION DETAIL FOR WINDOWS WITH
LEVEL R2 REINFORCEMENT & GLASS TYPES 3, 4, 5, & 6
(REINFORCEMENTS SHOWN IN FIGURES ABOVE
APPLY TO ALL FRAME TYPES &
CONFIGURATIONS)

NOTES:

- 1) USE THESE TABLES FOR ALL WINDOWS INSTALLED THROUGH THE FRAME OR INTEGRAL FIN.
- 2) FRAME DIMENSIONS ARE BUCK. SASH HEIGHT IS AS PER THE FIGURE.

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Series	SH5500	Sheet	6 OF 14
Desc.	VINYL SINGLE HUNG WINDOW (LM)		Date 02/07/25
Rev	DESIGN PRESSURE TABLE		Drawn By COLTON KEMPF
		Rev Date	
		DWG No.	SH5500-DG-LM
		Rev.	

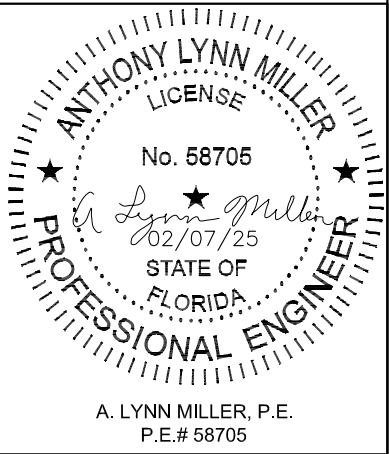


TABLE 6:

Glass Types 5 & 6	Design Pressure, lbs/ft ²
	+70.0 / -80.0
Reinf. Level R3	For all window and sash sizes

SEE TABLE 10, SHEET 10 FOR AVAILABLE SIZES & ANCHOR GROUP AND QUANTITY.

!

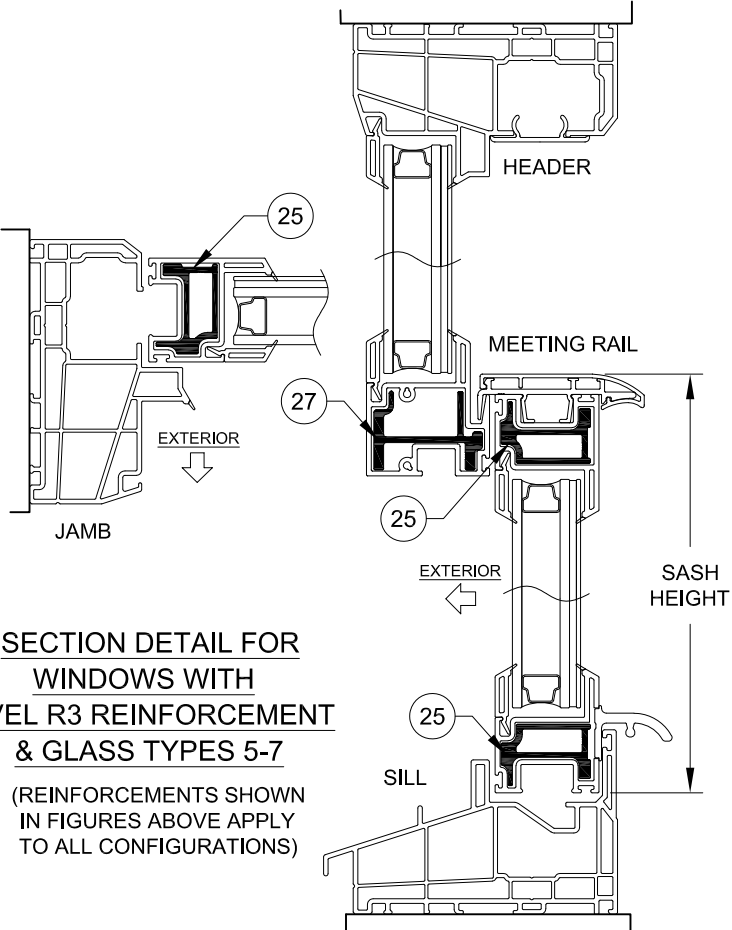
GLASS TYPES 5 & 6 WITH R3 REINF. MAY NOT BE USED WITH J-CHANNEL OR INTEGRAL FIN FRAMES

TABLE 7:

Glass Type 7	Bottom Sash Description for given Range @ Window Height Shown	Sash Height Range (in)	Design Pressure, lbs/ft ²							
			Window Buck Width (in)							
			up to 40		48		52.125		54	
23.5	Equal-lite	11.394	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Standard Cottage	14.517 - 15.870	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Standard Preview	11.377 - 11.582	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
28	Equal-lite	11.583 - 14.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Standard Cottage	20.958 - 23.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Standard Preview	14.517 - 17.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Shortest	11.377 - 14.516	+70.0	-110.0	+70.0	-110.0	+70.0	-107.0	+70.0	-103.0
	Tallest	27.583 - 31.911	+70.0	-110.0	+70.0	-99.0	+70.0	-93.0	+70.0	-90.0
37.375	Custom Size	26.517 - 27.582	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Standard Cottage	23.517 - 26.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Equal-lite	20.517 - 23.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Standard Preview	17.517 - 20.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Custom Size	14.517 - 17.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Shortest	11.377 - 14.516	+70.0	-110.0	+70.0	-110.0	+70.0	-107.0	+70.0	-103.0
	Tallest	31.583 - 35.911	+70.0	-110.0	+70.0	-99.0	+70.0	-93.0	+70.0	-90.0
	Standard Cottage	26.517 - 31.582	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Equal-lite	20.517 - 26.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
44	Standard Preview	17.517 - 20.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Custom Size	14.517 - 17.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Shortest	11.377 - 14.516	+70.0	-110.0	+70.0	-110.0	+70.0	-107.0	+70.0	-103.0
	Tallest	31.583 - 35.911	+70.0	-110.0	+70.0	-99.0	+70.0	-93.0	+70.0	-90.0
	Standard Cottage	26.517 - 31.582	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Equal-lite	20.517 - 26.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Standard Preview	17.517 - 20.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
48	Custom Size	14.517 - 17.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Custom Size	12.517 - 14.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Shortest	11.377 - 12.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Tallest	33.208 - 37.536	+70.0	-110.0	+70.0	-99.0	+70.0	-93.0	+70.0	-90.0
	Standard Cottage	26.517 - 33.207	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Equal-lite	23.517 - 26.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
49.625	Custom Size	20.517 - 23.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Standard Preview	17.517 - 20.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Custom Size	14.517 - 17.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Custom Size	12.517 - 14.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Shortest	11.377 - 12.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Tallest	36.517 - 41.644	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
62	Standard Cottage	31.517 - 36.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Equal-lite	26.517 - 31.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Standard Preview	23.517 - 26.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Custom Size	20.517 - 23.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Custom Size	17.517 - 20.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Custom Size	14.517 - 17.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Custom Size	13.017 - 14.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Shortest	11.864 - 13.016	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Tallest	39.517 - 41.644	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
75	Custom Size	38.517 - 39.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Equal-lite	35.517 - 38.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Custom Size	32.517 - 35.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Standard Preview	29.517 - 32.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Custom Size	26.517 - 29.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Shortest	24.864 - 26.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
84	Equal-lite	38.517 - 41.644	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Custom Size	35.517 - 38.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
	Standard Preview	33.864 - 35.516	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0
91.78	Tallest	** - 41.644	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0	+70.0	-110.0

SEE TABLE 11, SHEET 11 FOR ANCHOR GROUP AND QUANTITY.
** MIN. SASH HEIGHT = WINDOW BUCK HEIGHT - 50.136
(APPLIES TO ANY HEIGHT 91.78" OR LESS)

Window Buck Height (in)



SECTION DETAIL FOR
WINDOWS WITH
LEVEL R3 REINFORCEMENT
& GLASS TYPES 5-7

(REINFORCEMENTS SHOWN
IN FIGURES ABOVE APPLY
TO ALL CONFIGURATIONS)

!

GLASS TYPE 7 MAY NOT BE USED WITH J-CHANNEL OR INTEGRAL FIN FRAMES

NOTES:

- 1) USE THESE TABLES FOR ALL WINDOWS INSTALLED THROUGH THE FRAME.
- 2) FRAME DIMENSIONS ARE BUCK. SASH HEIGHT IS AS PER THE FIGURE.
- 3) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

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Series	SH5500	Sheet
Desc.	VINYL SINGLE HUNG WINDOW (LM)	Date
Rev	DESIGN PRESSURE TABLE	Rev Date
7 OF 14		DWG No.
SH5500-DG-LM		Rev.

ANTHONY LYNN MILLER

LICENSE

No. 58705

02/07/25

STATE OF FLORIDA

PROFESSIONAL ENGINEER

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

FOR ANCHOR GROUP D, TABLE 9, SHEET 9 MAY BE USED.

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

(APPLIES TO ANY HEIGHT 91.78" OR LESS)

- 1) USE THE ABOVE "ANCHOR QUANTITIES REQUIRED....." TABLE FOR ANCHORS INSTALLED THROUGH THE FRAME.
- 2) USE THE ABOVE "MAX. ANCHOR O.C. SPACING....." TABLE FOR ANCHORS INSTALLED THROUGH THE INTEGRAL FIN
- 3) FRAME DIMENSIONS ARE BUCK. "MR" = MEETING RAIL.
- 4) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
- 5) REFER TO TABLES 2 & 3, SHEET 2 FOR ANCHOR GROUP DESCRIPTIONS.

TABLE 9:

[illegible]

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

Anchor Group

4th

SEE TABLE 5, SHEET 6 FOR DESIGN PRESSURES WHEN USING THIS TABLE.

**** MIN. SASH HEIGHT = WINDOW BUCK HEIGHT - 50.136**

(APPLIES TO ANY HEIGHT 91.78" OR LESS)

NOTES:

- 1) USE THE ABOVE "ANCHOR QUANTITIES REQUIRED....." TABLE FOR ANCHORS INSTALLED THROUGH THE FRAME.
- 2) USE THE ABOVE "MAX. ANCHOR O.C. SPACING....." TABLE FOR ANCHORS INSTALLED THROUGH THE INTEGRAL FIN.
- 3) FRAME DIMENSIONS ARE BUCK. "MR" = MEETING RAIL.
- 4) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
- 5) REFER TO TABLES 2 & 3, SHEET 2 FOR ANCHOR GROUP DESCRIPTIONS.

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Title	VINYL SINGLE HUNG WINDOW (LM)				Date	02/07/25
Desc.	ANCHOR QUANTITY TABLE			Drawn By	COLTON KEMPF	
Rev					Rev Date	
Series	SH5500	Sheet	9 OF 14	DWG No.	SH5500-DG-LM	Rev.

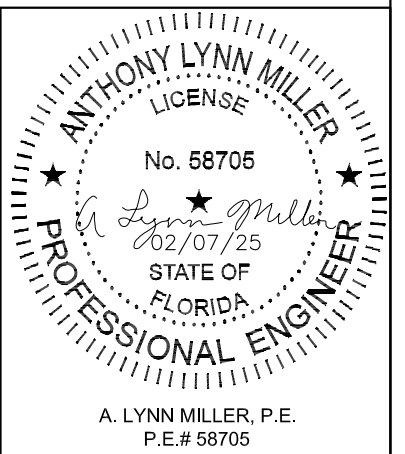


TABLE 10:

[illegible]

GLASS TYPES 5 & 6 WITH
R3 REINF. MAY NOT BE
USED WITH J-CANNEL OR
INTEGRAL FIN FRAMES

SEE TABLE 6, SHEET 7 FOR DESIGN PRESSURES WHEN USING THIS TABLE.

**** MIN. SASH HEIGHT = WINDOW BUCK HEIGHT - 50.136**

(APPLIES TO ANY HEIGHT 91.78" OR LESS)

NOTES:

- 1) FRAME DIMENSIONS ARE BUCK. "MR" = MEETING RAIL.

- 2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

- 3) REFER TO TABLES 2, SHEET 2 FOR ANCHOR GROUP DESCRIPTIONS.

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Title	VINYL SINGLE HUNG WINDOW (LM)				Date	02/07/25	
Desc.	ANCHOR QUANTITY TABLE			Drawn By	COLTON KEMPF		
Rev					Rev Date		
Series	SH5500	Sheet	10 OF 14	DWG No.	SH5500-DG-LM	Rev.	

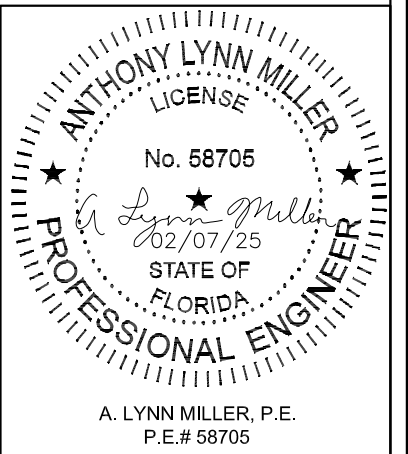


TABLE 11:

[illegible]

 GLASS TYPE 7 MAY NOT
BE USED WITH J-CHANNEL
OR INTEGRAL FIN FRAMES

SEE TABLE 7, SHEET 7 FOR DESIGN PRESSURES WHEN USING THIS TABLE.

**** MIN. SASH HEIGHT = WINDOW BUCK HEIGHT - 50.136**

(APPLIES TO ANY HEIGHT 91.78" OR LESS)

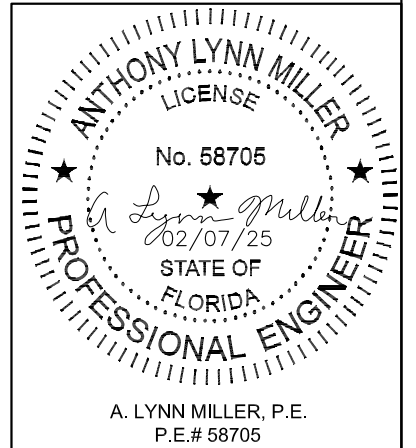
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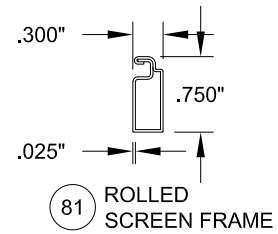
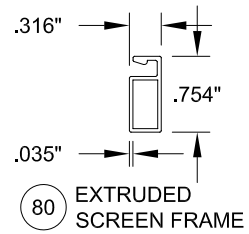
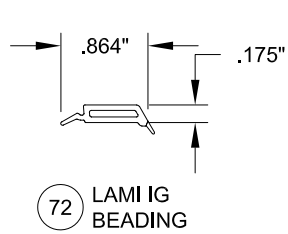
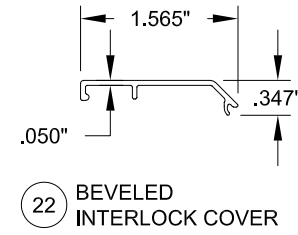
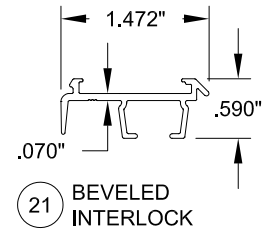
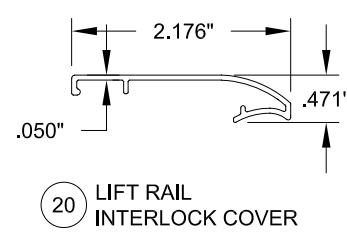
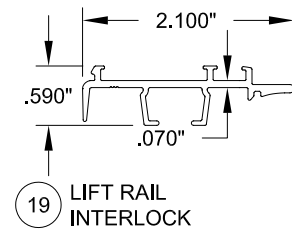
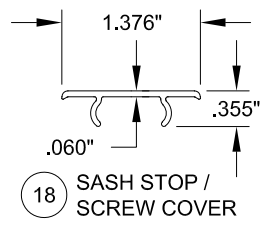
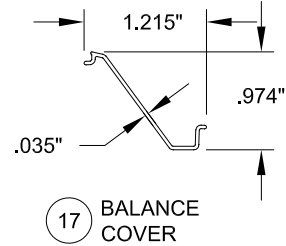
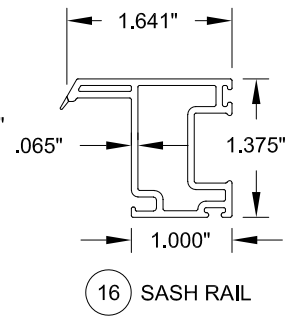
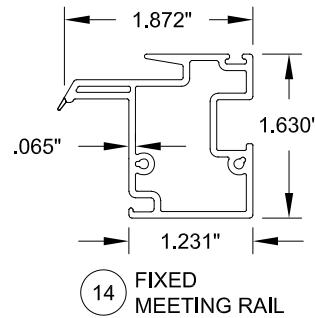
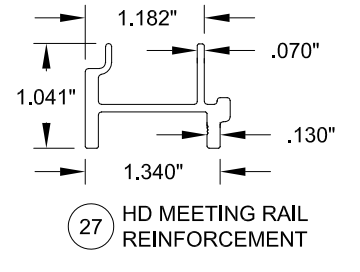
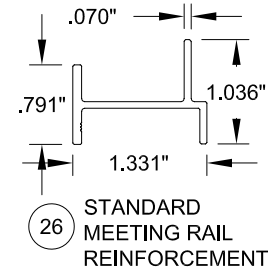
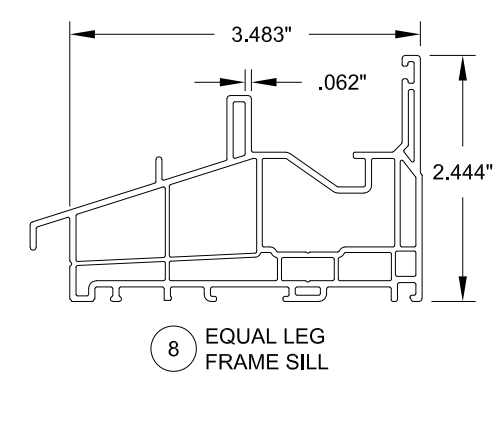
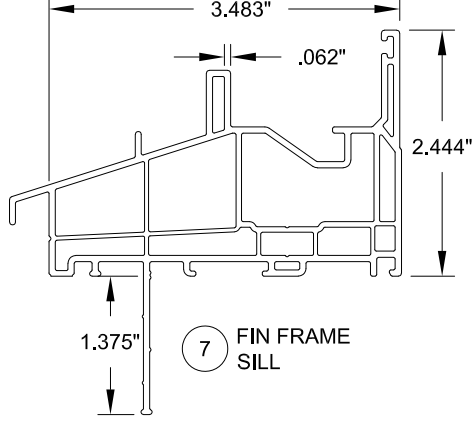
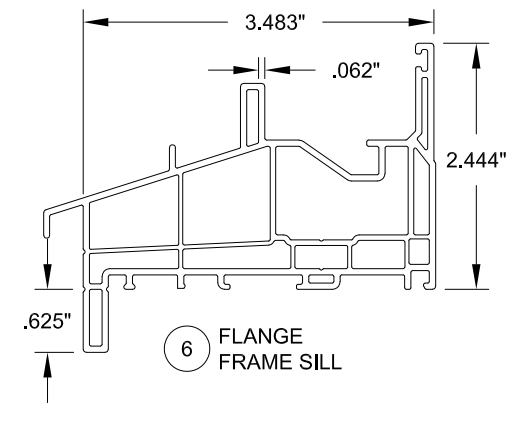
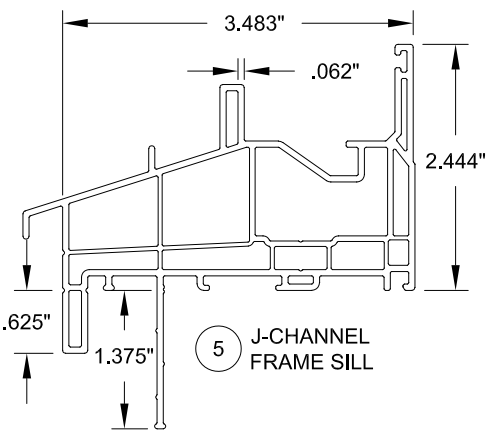
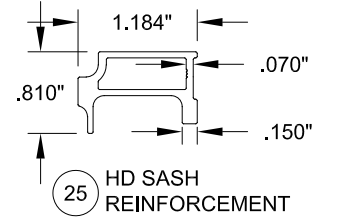
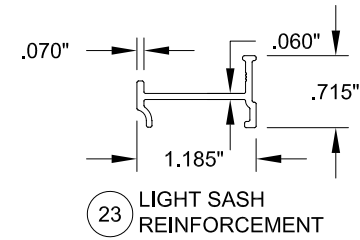
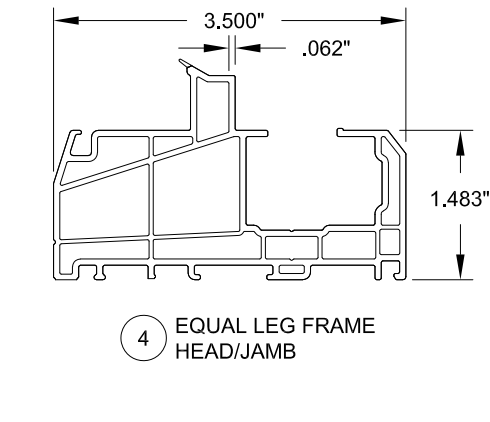
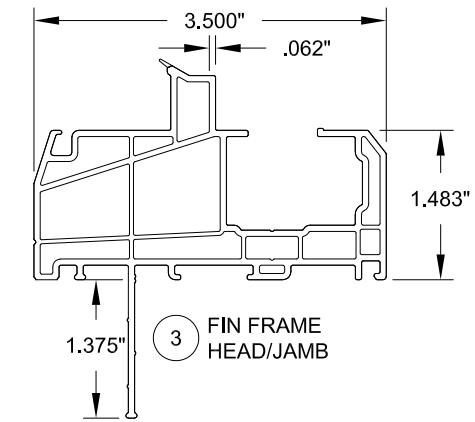
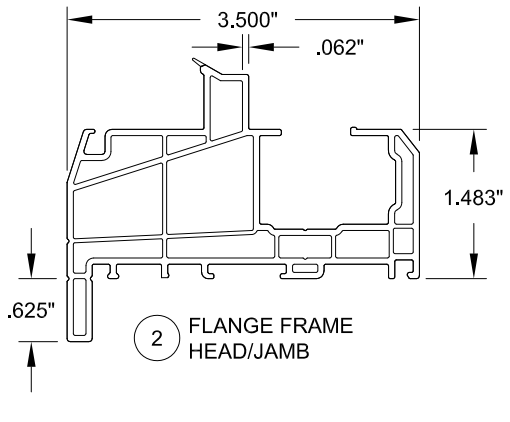
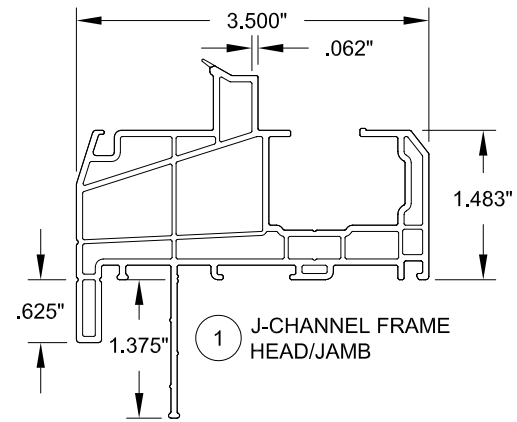
1) FRAME DIMENSIONS ARE BUCK. "MR" = MEETING RAIL.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

3) REFER TO TABLES 2, SHEET 2 FOR ANCHOR GROUP DESCRIPTIONS.

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Title	VINYL SINGLE HUNG WINDOW (LM)				Date	02/07/25
Desc.	ANCHOR QUANTITY TABLE			Drawn By	COLTON KEMPF	
Rev					Rev Date	
Series	SH5500	Sheet	11 OF 14	DWG No.	SH5500-DG-LM	Rev.





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Series	SH5500	Sheet	12 OF 14
Desc.	VINYL SINGLE HUNG WINDOW (LM)		Date 02/07/25
Rev	WINDOW EXTRUSIONS		Drawn By COLTON KEMPF
Rev			Rev Date
Series	SH5500	DWG No.	SH5500-DG-LM
Rev			

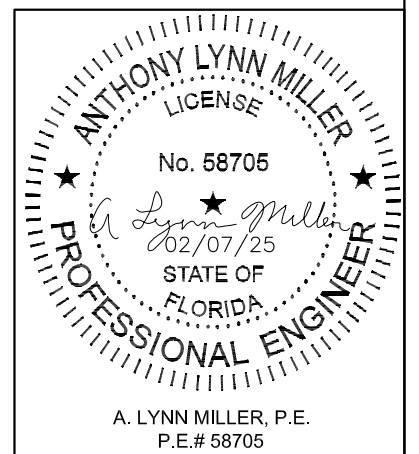


TABLE 12:

Bill of Material			
#	Part #	Description	Material
1	620101	Single Hung Frame Head & Jambs - J-Channel	PVC
2	620102	Single Hung Frame Head & Jambs - Flange	PVC
3	620103	Single Hung Frame Head & Jambs - Fin	PVC
4	620104	Single Hung Frame Head & Jambs - Equal Leg/Box	PVC
5	620105	SH/DH Frame Sill - J-Channel	PVC
6	620106	SH/DH Frame Sill - Flange	PVC
7	620107	SH/DH Frame Sill - Fin	PVC
8	620108	SH/DH Frame Sill - Equal Leg/Box	PVC
14	620131	Fixed Meeting Rail	PVC
16	620129	Sash Rail (Sides, Top & Bottom)	PVC
17	620134	Balance Cover	PVC
18	620133	Sash Stop/Screw Cover	PVC
19	620156	Pull Rail Interlock	6005 T5 Al
20	620144	Pull Rail Interlock Cover	PVC
21	620157	Beveled Interlock	6005 T5 Al
22	620145	Beveled Interlock Cover	PVC
23	620150	Light Sash Reinforcement	6063 T6 Al
25	620152	HD Sash Reinforcement	6063 T6 Al
26	620153	Standard Meeting Rail Reinforcement	6005 T5 Al
27	620154	HD Meeting Rail Reinforcement	6005 T5 Al
30	61644	Weatherstrip, .187" x .270" Fin Pile	
31	6Q300	Weatherstrip, .190" x .300" Foam Bulb	Flex PVC
32	61719	Weatherstrip, .187" x .220" PolyPile	
33	61825	Weatherstrip Plug, .220" Finseal	
35	78X1MTTT	#8 x 1" Ph. PH SDS (Interlock Mounting Screw)	
36	78X3THPX	#8 x 3" Ph. PH SMS (Meeting Rail Screw)	410 SS
37	71669SP	Meeting Rail Screw Support Plate	6063 T6 Al
38	720210	Weep Hole Cover	PVC
40	720XXXX	Constant Force Balance	
41		#8 x 3/4" Ph. FH SMS (Con. Force Balance Screw)	SS
42		Spiral Balance	
43	720205	Spiral Balance Shoe	Nylon
44	78X114FPAX	#8 x 1-1/4" Ph. FH SMS (Spiral Balance Screw)	410 SS

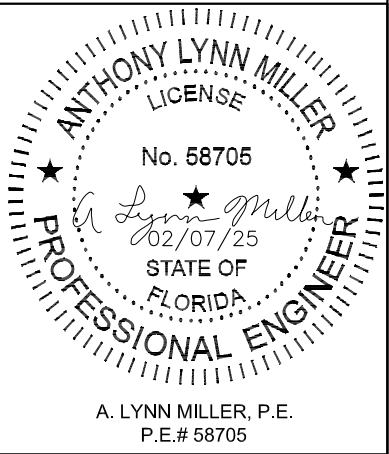
TABLE 12, CONT.:

Bill of Material, cont.			
#	Part #	Description	Material
45	720197	Auto Lock Mechanism	C Steel
46	720198&9	Sweep Lock	Cast Zinc
47	720195&6	Auto Lock Cover Assembly	Cast Zinc
48	76X1180PTX	#6 x 1-1/8" Ph. FH SDS (Auto and Sweep Lock Screw)	SS
49	720200	Auto and Sweep Lock Keeper	Cast Zinc
50	?76X34PPA	#6 x 3/4" PH. PH SDS (Keeper Screw)	SS
51	420181 L/R	Beveled Tilt Latch Corner Key	PVC
52	420182 L/R	Pull Rail Tilt Latch Corner Key	PVC
53	7634PHFL	#6 x 3/4" Ph. FH SDS (Corner Key Screw)	SS
54	420183	Tilt Latch	PVC
55	420184	Tilt Latch Retainer	PVC
56	720207	1" Tilt Latch Spring	SS
57	420186	Plastic Tilt Latch Finger Pull	PVC
58	720192	Metal Tilt Latch Finger Pull	Cast Zinc
59	420180	Pivot Bar Corner Key	PVC
60	720206	Pivot Bar	SS
63	720191	Sash Pull Handle	Cast Zinc
64	720194	Sash Pull Handle With Latch Assembly	Cast Zinc
65	7834FPT	#8 x 3/4" Ph. FH SDS (Pull Handle Screw)	SS
66	420188	Bottom Latch Strike Plate	Cast Zinc
67	?7858B	#8 x 5/8" Ph. FH SMS (Strike Plate Screw)	SS
72	720135	Lami I.G. Bead	PVC
74		Backbedding, GE 7700 or Dow 791 or Dow 983	Silicone
75	71646N	Setting Block (7/8" x 1" x 1/8"), 85 +/- 5 duro.	EPDM
76		IG Spacer	varies
80	61012	Extruded Screen Frame	Alum
81	61011	Roll-Formed Screen Frame	Alum
82	7CKGLB21	Screen Corner Key for Extruded Frame X 4	PVC
83	47042	Screen Corner Key with Pull Ring X 2	PVC
84	47041	Screen Corner Key without Pull Ring X 2	PVC
85	7CASPm	Tension Spring	SS
86	61816C48	Screen Cloth	Fiberglass
87	61635/61614	.140" Screen Spline (Machine/Hand Rolled)	Vinyl

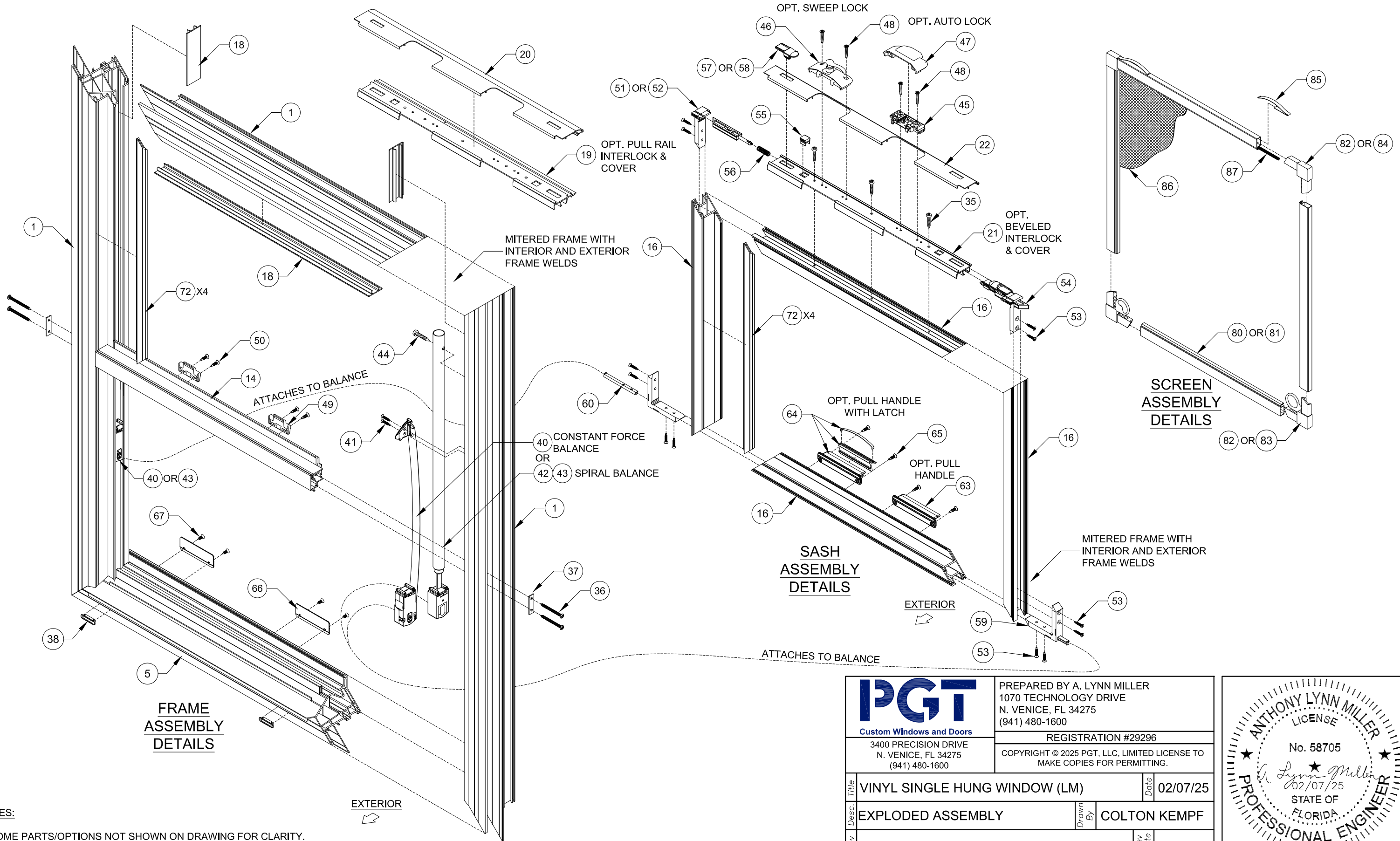
NOTES:

- 1) PVC BY VISION EXTRUSION, LTD., TO BE LABELED FOR AAMA EXTRUDER CODE.
2) ITEMS # 9-13, 15, 24, 28, 29, 34, 39, 61, 62, 68-71, & 73 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.

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Series	SH5500	Sheet	13 OF 14
Desc.	VINYL SINGLE HUNG WINDOW (LM)		Date
Rev	BILL OF MATERIALS		02/07/25
		Drawn By	COLTON KEMPf
		Rev	
		Date	
		DWG No.	SH5500-DG-LM
		Rev.	



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



- NOTES:
- 1) SOME PARTS/OPTIONS NOT SHOWN ON DRAWING FOR CLARITY.
 - 2) J-CCHANNEL FRAME SHOWN, PARTS # 1 & 5. OTHER FRAME TYPES APPLY.
 - 3) FOR REINFORCEMENT TYPES, SEE DETAILS ON SHEETS 6 & 7.
 - 4) USE EITHER SASH TOP LOCKS OR SASH BOTTOM LOCKS.

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Desc.	VINYL SINGLE HUNG WINDOW (LM)		Date 02/07/25
Rev	EXPLODED ASSEMBLY		Drawn By COLTON KEMPF
Series	SH5500	Sheet 14 OF 14	DWG No. SH5500-DG-LM

