

SERIES 4020A NON-IMPACT
FIXED WINDOW

FLORIDA PRODUCT APPROVAL #26095

DESIGN PRESSURE RATING	IMPACT RATING
SEE SHEETS 4 & 5	NOT RATED FOR IMPACT RESISTANCE

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

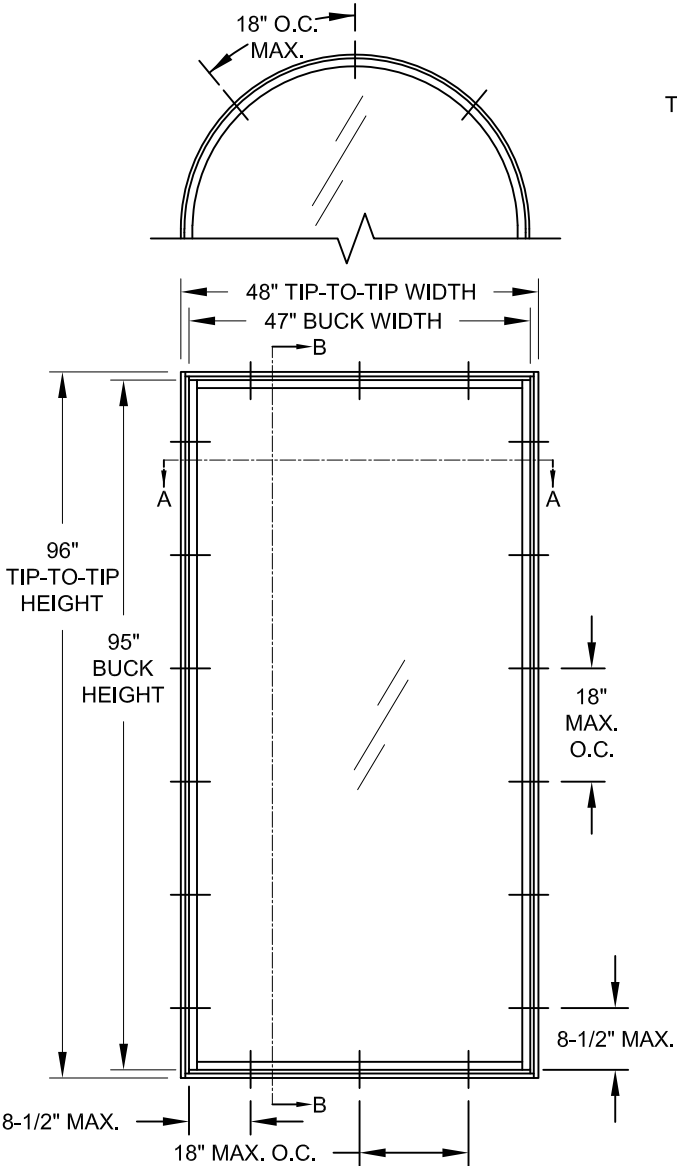
2) SHUTTERS ARE REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.

3) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 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.

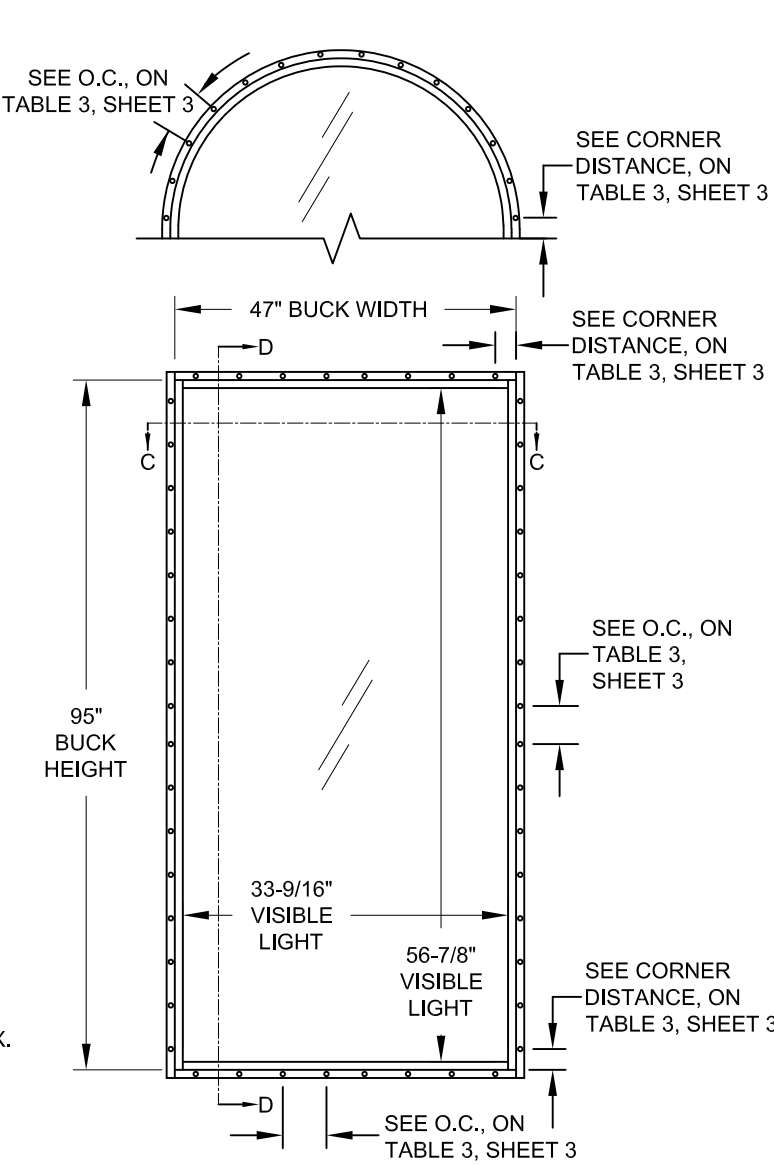
4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH. INSTALLATION ANCHORS SHOULD BE SEALED. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

5) SHIMS ARE REQUIRED AT EACH FLANGE ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.

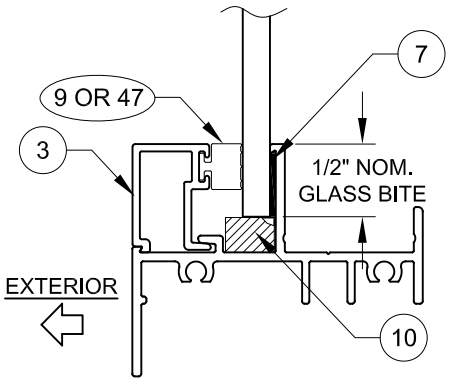
6) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO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



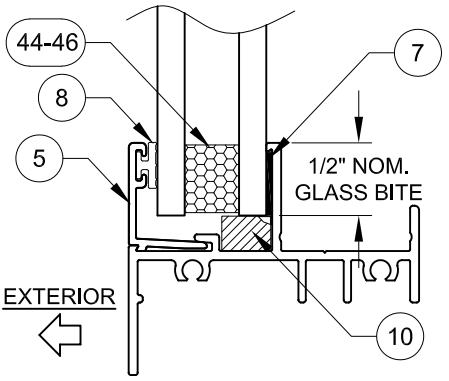
TYP. FLANGE FRAME
ANCHOR LOCATIONS
@ MAX. SIZE



TYP. FIN FRAME
ANCHOR LOCATIONS
@ MAX. SIZE



MONOLITHIC GLAZING DETAIL



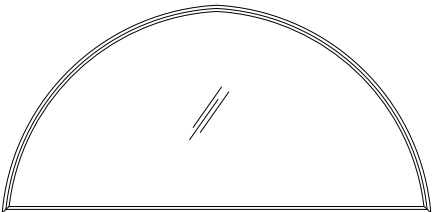
IG GLAZING DETAIL

TABLE 1:

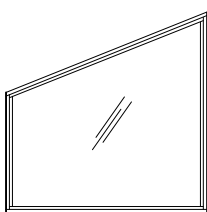
Glass Types	
1	3/16" Annealed
2	1/4" Annealed
3	3/16" Tempered
4	1/4" Tempered
5	3/16" Annealed, 3/8" Airspace, 3/16" Annealed
6	3/16" Tempered, 3/8" Airspace, 3/16" Tempered

SEE SHEET 4 FOR GLASS DETAILS

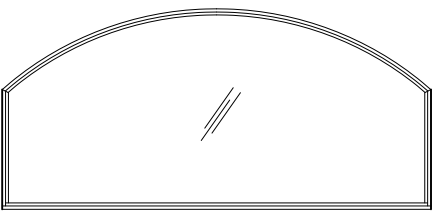
ALL WINDOW SHAPES QUALIFIED, COMMON EXAMPLES SHOWN BELOW:



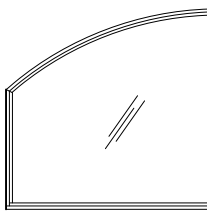
HALF CIRCLE/ARCH



TRAPEZOID



EYEBROW



HALF EYEBROW

Title: PW APPROVAL - HVHZ		Drawn By: JENS ROSOWSKI	
Description: GENERAL NOTES & ELEVATION		Date: 04/15/19	
Revision: ADDED ULTRACON+ ANCHORS		Rev. By: JR	Rev. Date: 09/01/20
Series/Model: PW-4020A	Scale: NTS	Sheet: 1 OF 5	Drawing No. PW4020FLPA
		Rev: D	

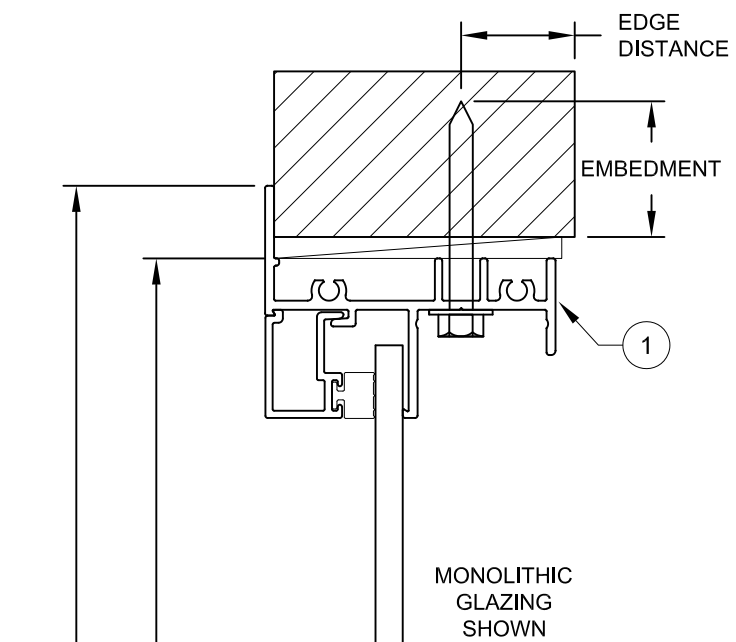
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TIP-TO-TIP HEIGHT

BUCK HEIGHT

MONOLITHIC GLAZING SHOWN

INSULATED GLAZING SHOWN

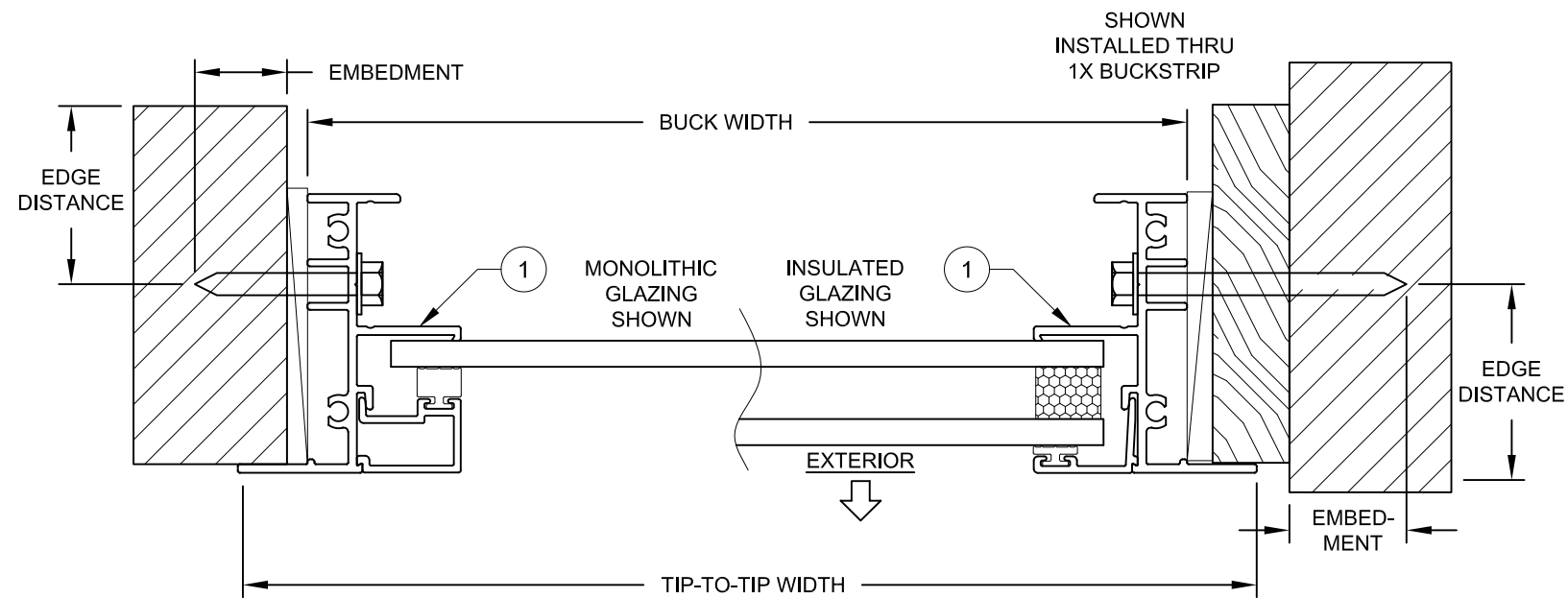
SHOWN INSTALLED THRU 1X BUCKSTRIP

EXTERIOR

EDGE DISTANCE

EMBEDMENT

VERTICAL SECTION B-B



HORIZONTAL SECTION A-A

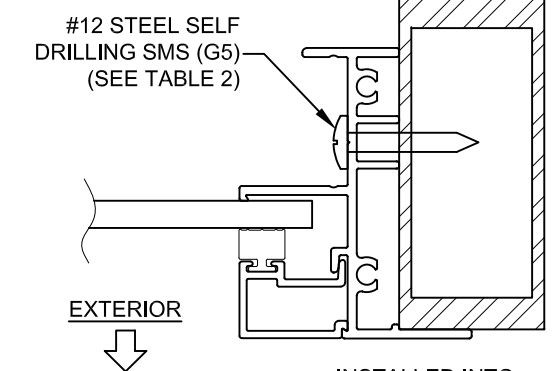
NOTES:

- 1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN TABLE 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. 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) SEE SHEET 1 FOR SPACING REQUIREMENTS.
- 4) MAX. SHIM THICKNESS TO BE 1/4".
- 5) GLASS SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER TO MEET DESIGN REQUIREMENTS.

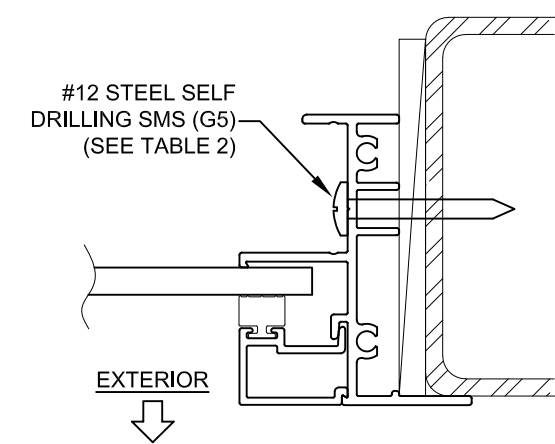
TABLE 2:

Anchor	Substrate	Minimum Edge Distance	Minimum Embedment
#12 Steel, 18-8 SS or 410 SS Screw	P.T. Southern Pine (SG = .55)	9/16"	1-3/8"
	Aluminum, 6063-T5 min.	3/8"	0.062"
	Steel Stud, Gr. 33 min.	3/8"	0.045" (20 Ga)
	A36 Steel	3/8"	0.050"
1/4" Steel Ultracon+	P.T. Southern Pine (SG = .55)	1"	1-3/8"
	Concrete (min. 3.0 ksi)	1"	1-3/8"
	UngROUTED CMU, (ASTM C-90)	1"	1-1/4"
1/4" 410 SS CreteFlex	P.T. Southern Pine (SG = .55)	1"	1-3/8"
	Concrete (min. 3.35 ksi)	1"	1-3/4"
	Concrete (min. 3.35 ksi)	2-1/2"	1"
	UngROUTED CMU, (ASTM C-90)	1-3/4"	1-1/4"

- 1) ANCHOR MUST EXTEND A MINIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.
- 2) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
- 3) ALL ANCHOR HEAD TYPES ARE APPLICABLE.



INSTALLED INTO APPROVED MULLION, MAY BE VERTICAL OR HORIZONTAL.



INSTALLED DIRECTLY INTO APPROVED ALUMINUM, STEEL FRAMING OR STEEL STUD.

Title: PW APPROVAL - HVHZ		Drawn By: JENS ROSOWSKI	
Description: GENERAL NOTES & ELEVATION		Date: 04/15/19	
Revision:		Rev. By:	Rev. Date:
Series/Model: PW-4020A	Scale: NTS	Sheet: 2 OF 5	Drawing No. PW4020FLPA
		Rev:	D

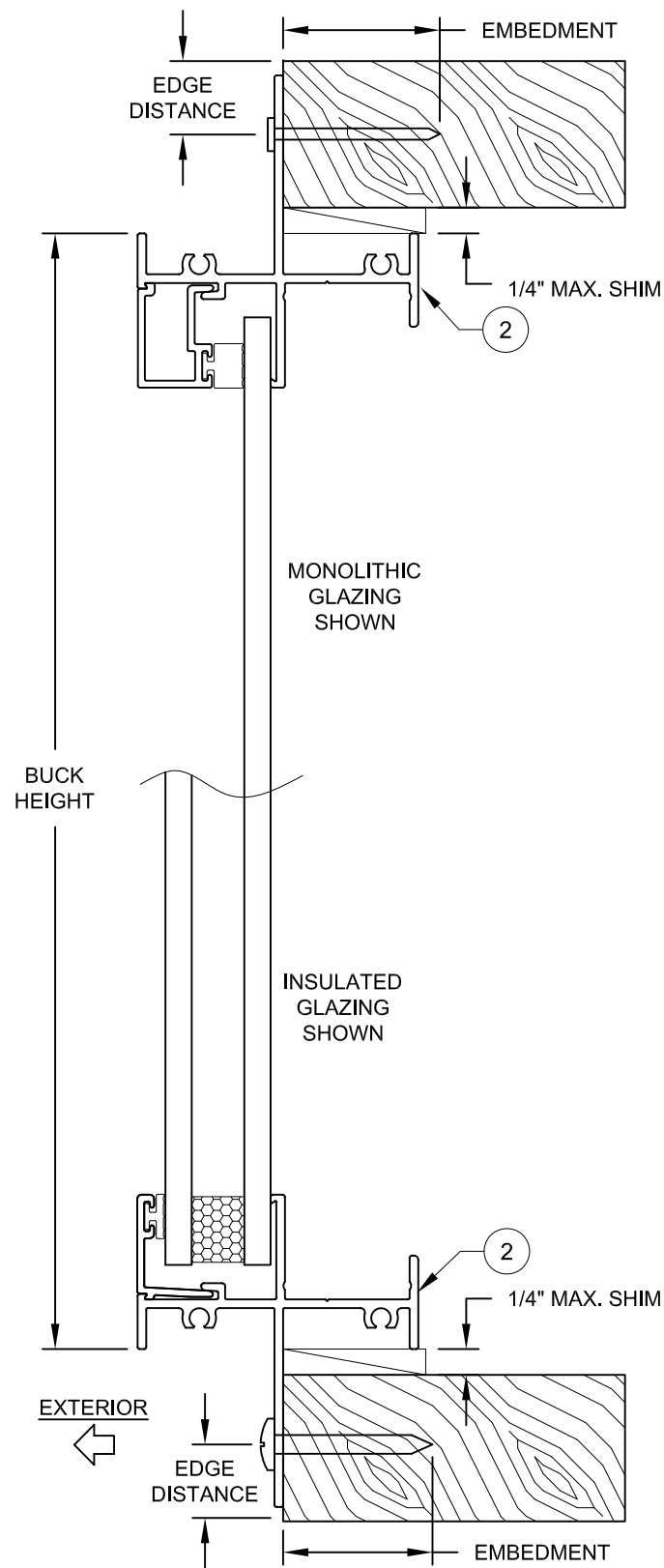
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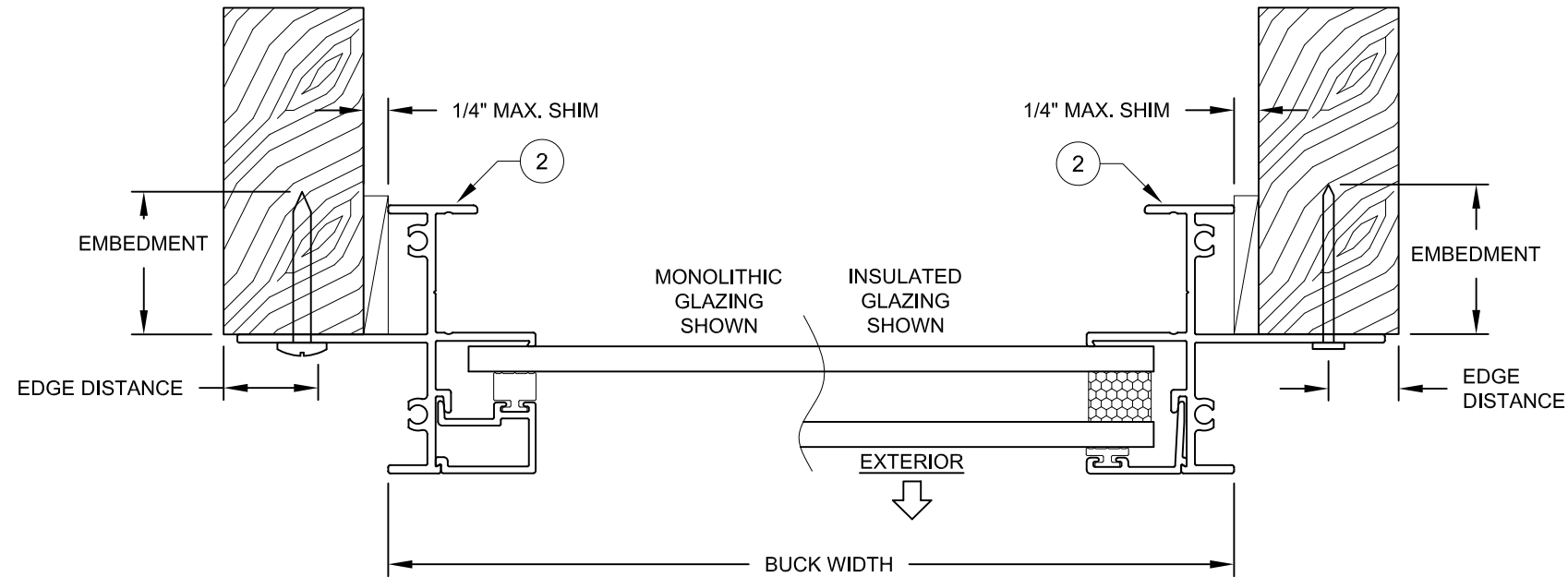
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VERTICAL SECTION D-D



HORIZONTAL SECTION C-C

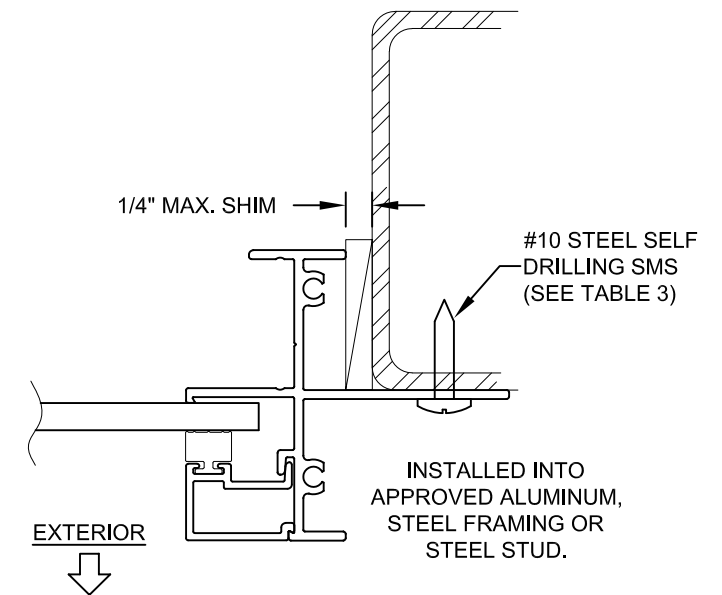
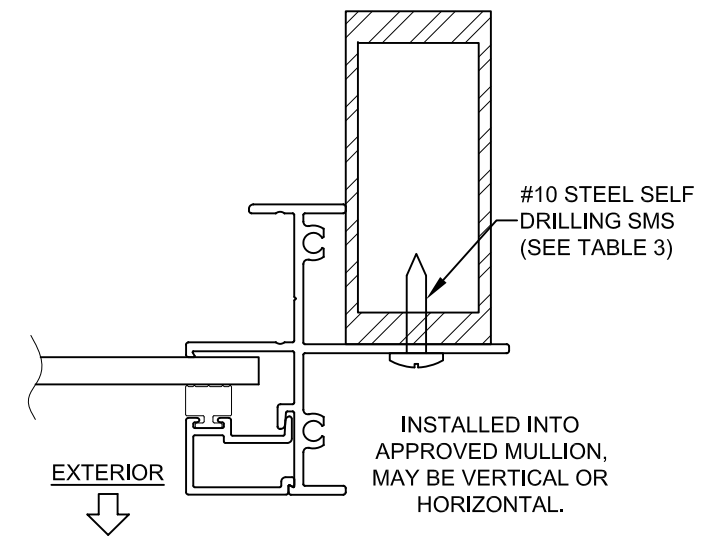
TABLE 3: THOUGH-FIN ANCHORS

Anchor	Substrate	Min. Embedment or Metal Thickness	Min. Edge Distance	Max. On-center, Distance, OC	Max. Corner Distance
2-1/2" x .113" Box Nail	P.T. Southern Pine (SG = .55)	-	3/8"	6"	2-7/8"
2-1/2" x .131" Common Nail	P.T. Southern Pine (SG = .55)	-	3/8"		
2-1/2" x .145" Roofing Nail	P.T. Southern Pine (SG = .55)	-	3/8"		
#10 or #12 Steel SMS Screw (G5)	P.T. Southern Pine (SG = .55)	1-3/8"	9/16"	26"	8-1/2"
	Aluminum, 6063-T5 min	0.125"	7/16"		
	Steel Stud, Gr. 33 min.	0.057"	7/16"		
	A36 Steel	0.050"	7/16"		

- 1) ANCHOR MUST EXTEND A MINIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.
2) ALL SCREW HEAD TYPES ARE APPLICABLE.

NOTES:

- 1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN TABLE 3. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
- 2) 2X WOOD FRAMING OR BUCK, 1-1/2" THICK OR GREATER.
- 3) SEE SHEET 1 FOR SPACING REQUIREMENTS.
- 4) MAX. SHIM THICKNESS TO BE 1/4".
- 5) GLASS SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER TO MEET DESIGN REQUIREMENTS.



Title: PW APPROVAL - HVHZ			Drawn By: JENS ROSOWSKI		
Description: GENERAL NOTES & ELEVATION				Date: 04/15/19	
Revision:			Rev. By:	Rev. Date:	
Series/Model: PW-4020A	Scale: NTS	Sheet: 3 OF 5	Drawing No. PW4020FLPA	Rev: D	

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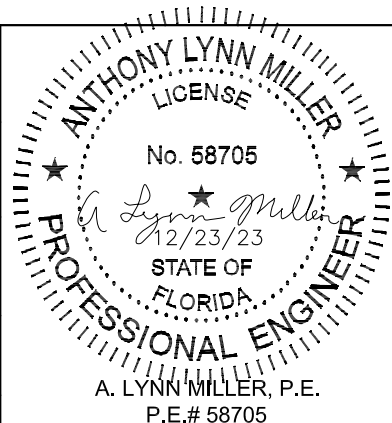


TABLE 4:

For Glass Types 1 & 2		Window Design Pressure (+/-, psf)													
		Short Side (in)													
		22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	47"
Long Side (in)	52"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	56"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-49.7	+/-48.6	+/-47.9
	60"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-49.5	+/-48.9	+/-48.4	+/-48	+/-47.3	+/-46.3		
	64"	+/-50	+/-50	+/-50	+/-50	+/-48.5	+/-46.7	+/-45.6	+/-45.1	+/-44.6	+/-44.2	+/-43.8			
	68"	+/-50	+/-50	+/-50	+/-49.5	+/-45.6	+/-42.9	+/-41.6	+/-41.2	+/-41.1					
	72"	+/-50	+/-50	+/-50	+/-47.5	+/-42.6	+/-40.4	+/-39.3	+/-38.7						
	75"	+/-50	+/-50	+/-50	+/-46.1	+/-41.3	+/-39	+/-37.5	+/-36.8						
	80"	+/-50	+/-50	+/-50	+/-44.1	+/-39.7	+/-36.8								
	84"	+/-50	+/-50	+/-49.6	+/-42.9	+/-38.6	+/-35.2								
	88"	+/-50	+/-50	+/-48.7	+/-41.8	+/-37.5									
	92"	+/-50	+/-50	+/-47.9	+/-41.1										
	95"	+/-50	+/-50	+/-47.4	+/-40.6										

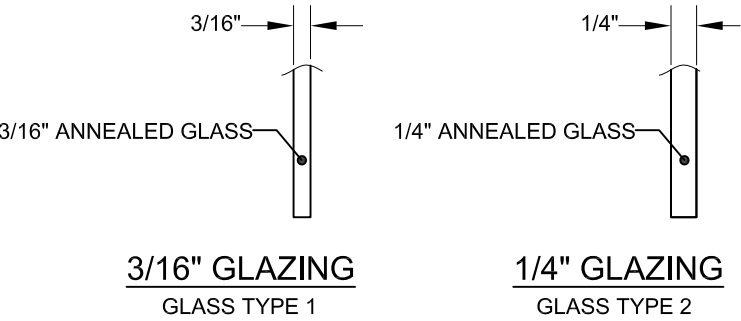
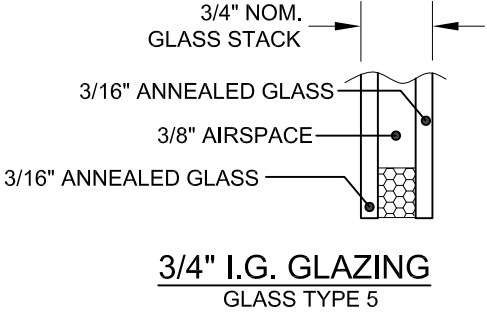


TABLE 5:

For Glass Type 5		Window Design Pressure (+/-, psf)													
		Short Side (in)													
		22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	47"
Long Side (in)	80"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	84"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	88"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	92"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-49	+/-48.6	+/-48.2	+/-48.4	+/-48.6	+/-48.8
	95"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-49.3	+/-47.2	+/-46.3	+/-46.1	+/-46.1	+/-46.3	+/-46.4



NOTES:
1) BUCK DIMENSIONS SHOWN.

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

Title: PW APPROVAL - HVHZ				Drawn By: JENS ROSOWSKI			
Description: DESIGN PRESSURE TABLES						Date: 04/15/19	
Revision:					Rev. By:	Rev. Date:	
Series/Model: PW-4020A		Scale: NTS	Sheet: 4 OF 5	Drawing No. PW4020FLPA		Rev: D	

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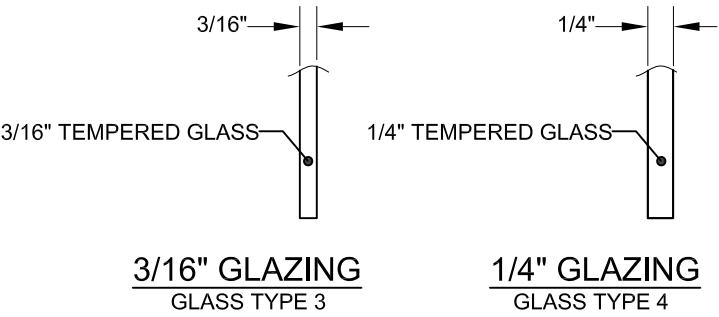
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TABLE 6:

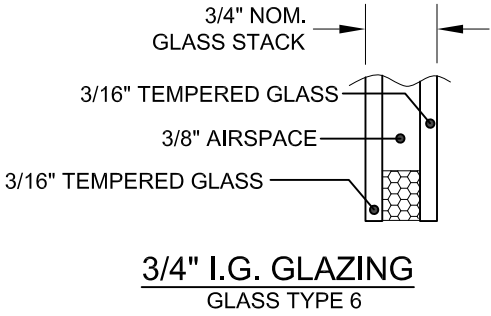
For Glass Types 3, 4 & 6		Window Design Pressure (+/-, psf)																			
		Short Side (in)																			
		30"	32"	34"	36"	38"	40"	42"	44"	46"	47"	48"	50"	52"	54"	56"	58"	60"	62"	64"	66-13/16"
Long Side (in)	66-13/16"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	72"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50		
	76"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-49.3				
	80"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-49.4						
	84"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-49.3							
	88"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-49.4								
	92"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-49.9									
	95"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50										
	96"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50											
	100"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50												
	104"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50													
	108"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50														
	112"	+/-50	+/-50	+/-50	+/-50	+/-50															
	116"	+/-50	+/-50	+/-50	+/-50	+/-50															
	120"	+/-50	+/-50	+/-50	+/-50																
	124"	+/-50	+/-50	+/-50	+/-50																
	128"	+/-50	+/-50	+/-50																	
	132"	+/-50	+/-50																		
	136"	+/-50	+/-50																		
	144"	+/-50																			

NOTES:
1) BUCK DIMENSIONS SHOWN.
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.



3/16" GLAZING
GLASS TYPE 3

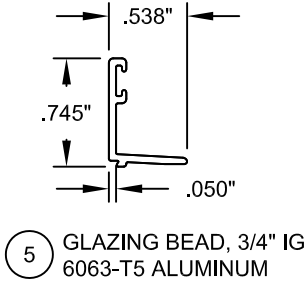
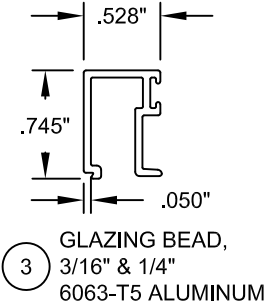
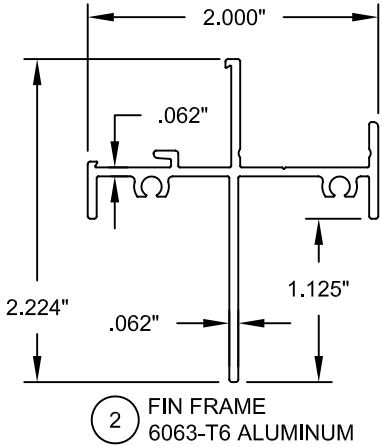
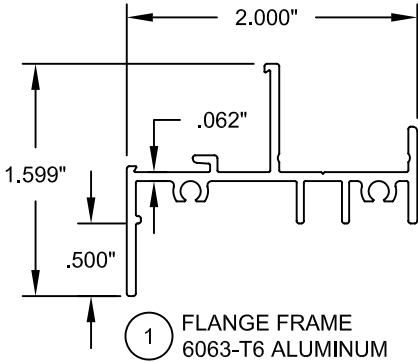
1/4" GLAZING
GLASS TYPE 4



3/4" I.G. GLAZING
GLASS TYPE 6

TABLE 7:

Item #	Description
1	Flange Frame
2	Integral Fin Frame
3	Glazing Bead, 5/16" Lami, 3/16" & 1/4" Mono
5	Glazing Bead, 3/4" IG
7	Dow 791, 899, 983 or RGS-7700 Silicone
8	Vinyl Bulb Glazing Gasket
9	Vinyl Glazing Gasket
10	Setting Block 3/16" x 5/16" x 1-1/2"
12	#8 X 1" Panhead SMS (Assembly Screw)
44	Kommerling Kodispace 4SG TPS
45	Quanex Super Spacer nXT with Hot Melt Butyl
46	Metal IG Spacer
47	Vinyl Glazing Gasket - 1/4" Mono



Title: PW APPROVAL - HVHZ				Drawn By: JENS ROSOWSKI	
Description: MATERIALS				Date: 04/15/19	
Revision:			Rev. By:	Rev. Date:	
Series/Model: PW-4020A	Scale: NTS	Sheet: 5 OF 5	Drawing No. PW4020FLPA	Rev: D	

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