

1. THIS DOCUMENT ADDRESSES ONLY PRODUCT ANCHORAGE TO ACHIEVE THE INDICATED DESIGN PRESSURES AT THE INDICATED SIZES. WIDTHS AND HEIGHTS IN SIZE CHART MAY BE TRANSPOSED. INSTALL PRODUCTS WITH MAXIMUM SHIM GAP, MINIMUM EDGE DISTANCE AND EMBEDMENT, AND WITH FASTENER TYPES AS SHOWN IN THIS DRAWING. FOR FULL PRODUCT CONSTRUCTION DETAILS SEE ATI/INTERTEK TEST REPORT P8302.01-501-47.

2. THIS PRODUCT AS SHOWN IN THIS DRAWING IS NOT IMPACT RESISTANT AND REQUIRES THE USE OF IMPACT PROTECTIVE DEVICES (SHUTTERS) IN WINDBORNE DEBRIS REGIONS. THIS PRODUCT HAS BEEN TESTED TO AAMA/WDMA/CSA 101/I.S.2/A440, AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CURRENT EDITION, FOR USE OUTSIDE THE HIGH VELOCITY HURRICANE ZONE.

3. THE DESIGN PRESSURE RATINGS IN THIS DRAWING ARE AS LIMITED BY TESTED WATER AND STRUCTURAL PRESSURES, AND ASTM E 1300 GLASS CALCULATIONS. FOR SMALLER WINDOW SIZES, GLASS THICKNESSES MAY BE DECREASED PROVIDED THAT ASTM E 1300 ALLOWABLE PRESSURE OF INSTALLED GLAZING MEETS REQUIRED DESIGN PRESSURES FOR EACH PROJECT.

4. THE 4/3 ALLOWABLE STRESS INCREASE FACTOR (SHORT-TERM INCREASE FACTOR) HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM. THE 1.6 Cd FACTOR WAS USED IN THE ANALYSIS OF ANCHORAGE INTO WOOD SUBSTRATE.

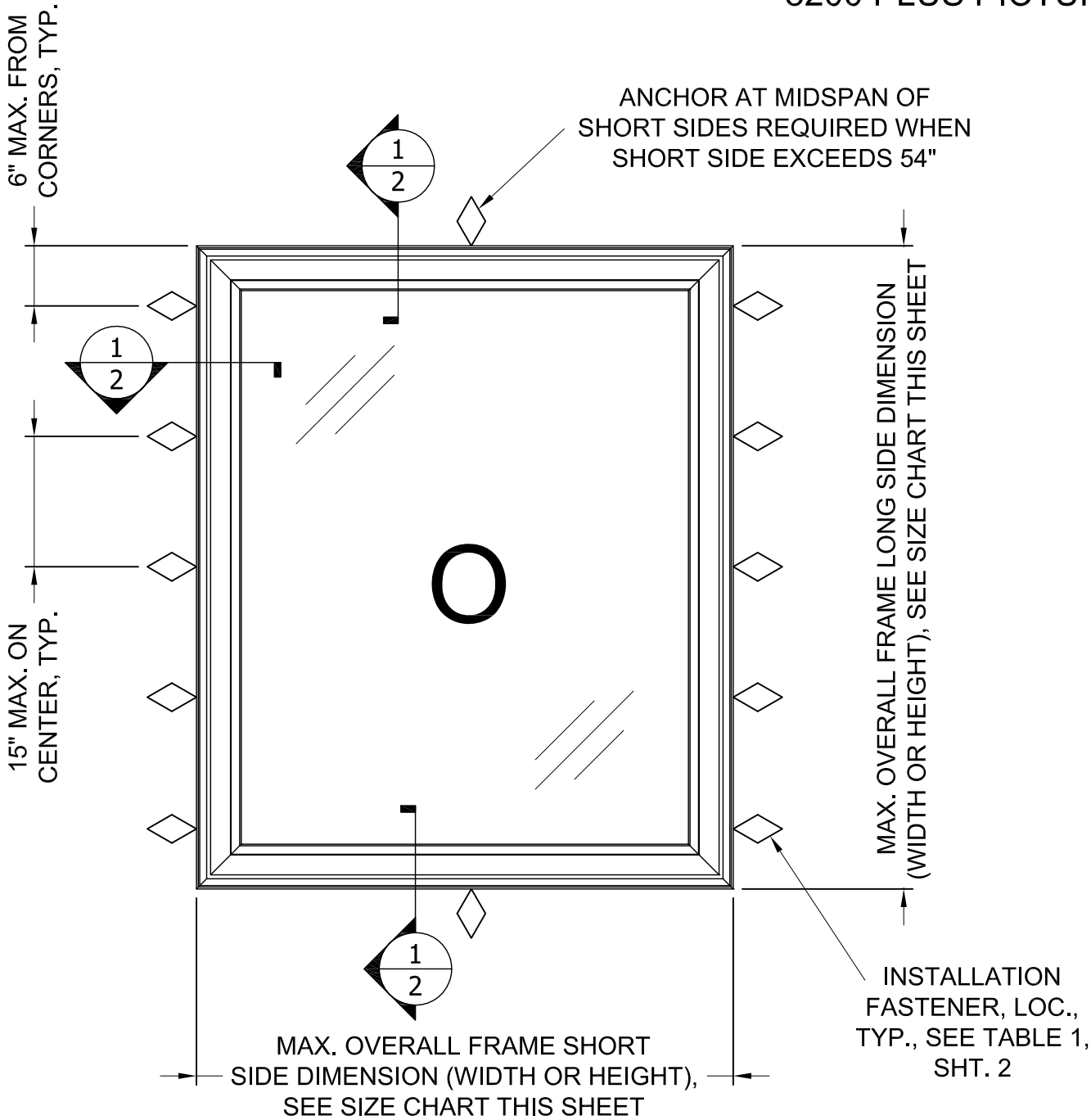
5. THE OPENING SUBSTRATE MATERIALS (FRAMING, MASONRY, BUCKS) AND ATTACHMENT OF BUCKS TO THE SUBSTRATE ARE BY OTHERS AND SHALL BE VERIFIED BY THE ARCHITECT OR ENGINEER OF RECORD OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ). BUCKING, OPENINGS, & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED BY OTHERS IN ACCORDANCE WITH THE FBC TO TRANSFER SUPERIMPOSED LOADS TO THE STRUCTURE.

6. INSTALLATION FASTENER NOTES: ALL ANCHORS USED SHALL BE OF A MATERIAL OR HAVE A COATING COMPATIBLE WITH THE PRESSURE TREATED WOOD BUCKS AND ALL OTHER WINDOW MATERIALS. INSTALL ONE ANCHOR AT EACH LOCATION SHOWN IN THE ELEVATION. INSTALL SHIMS AT EACH ANCHOR LOCATION WHERE A GAP OF 1/16" OR GREATER EXISTS BETWEEN PRODUCT FRAME AND SUBSTRATE. SHIMS SHALL BE LOAD-BEARING (PLASTIC OR METALLIC) AND CAPABLE OF TRANSFERRING LOADS TO SUBSTRATE. SPECIFIED ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL FINISH OR STUCCO. ENSURE 3" MIN. ON-CENTER DISTANCE BETWEEN ANY TWO INSTALLATION FASTENERS.

7. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE COATED OR OTHERWISE PROTECTED PER FBC CHAPTER 20 TO PREVENT GALVANIC REACTIONS. WOOD BUCKS, IF USED, SHALL BE PRESSURE TREATED, WITH EITHER A TREATMENT OR COATING COMPATIBLE WITH THIS PRODUCT. ALL ANCHORS USED SHALL BE OF A MATERIAL OR HAVE A COATING COMPATIBLE WITH THE PRESSURE TREATED WOOD BUCKS AND ALL OTHER WINDOW MATERIALS.

8. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, OR AS APPROVED, SIGNED, AND SEALED BY A FLORIDA-REGISTERED PROFESSIONAL ENGINEER ON A SITE-SPECIFIC BASIS.

9. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT SHALL BE THE RESPONSIBILITY OF OTHERS AND ARE NOT ADDRESSED BY THIS DOCUMENT.



SIZE CHART		
SHORT SIDE (IN.)	LONG SIDE (IN.)	DESIGN PRESSURE RATING
54	96	+/-35 PSF (R-PG35)
50	82	+/-40 PSF (R-PG40)
63	74	+/-40 PSF (LC-PG40)
54	54	+/-40 PSF (R-PG40)

FOR GLASS REQUIREMENTS,
SEE GLAZING TABLE, SHEET 2

Lucas Turner
2023.11.27
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11/9/2023
LUCAS A. TURNER, FL PE # 58201
TURNER ENGINEERING
& CONSULTING, INC.
2428 OLD NATCHEZ TRC. TRL.
CAMDEN, TN 38320 | PH. 941-380-1574



700 HIGHLAND RD.
MACEDONIA, OH 44056
(888) 468-0700

SHEET DESCRIPTION:
NOTES, ELEVATION, SIZE CHART

DWG.:
FPA-8200PLUS-PW

SCALE:
NTS

DATE:
10/7/2023

REV.
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SHEET:
1 OF 2

DP40 GLAZING CHART, UP TO 50x82 AND 63x74 SIZES											
MIN. GLASS THICKNESS OF ANNEALED I.G. LITES, 40 PSF											
		Long Side (in.)									
		54	60	66	72	74	78	82	84	90	96
Short Side (in.)	24	2.2mm	2.2mm	2.2mm	3mm	3mm	3mm	3mm	3mm	3mm	3mm
	27	2.2mm	2.2mm	2.2mm	3mm	3mm	3mm	3mm	3mm	3mm	4mm
	30	2.2mm	2.2mm	2.2mm	3mm	3mm	3mm	3mm	4mm	4mm	4mm
	33	2.2mm	2.2mm	2.2mm	3mm	3mm	3mm	4mm	4mm	4mm	4mm
	36	2.2mm	2.2mm	3mm	3mm	3mm	3mm	4mm	4mm	4mm	4mm
	42	3mm	3mm	3mm	3mm	3mm	3mm	4mm	4mm	4mm	4mm
	45	3mm	3mm	3mm	3mm	3mm	4mm	4mm	4mm	4mm	4mm
	48	3mm	3mm	3mm	3mm	4mm	4mm	4mm	4mm	4mm	4mm
	50	3mm	3mm	3mm	4mm	4mm	4mm	4mm	4mm	4mm	4mm
	54	3mm	3mm	4mm	4mm	4mm	4mm	4mm	4mm	4mm	4mm
	57	3mm	3mm	4mm	4mm	4mm					
	60	3mm	4mm	4mm	4mm	4mm					
	63	3mm	4mm	4mm	4mm	4mm					

DP35 GLAZING CHART, UP TO 54x96 SIZE								
MIN. GLASS THICKNESS OF ANNEALED I.G. LITES, 35 PSF								
		Long Side (in.)						
		72	74	78	82	84	90	96
Short Side (in.)	30	3mm	3mm	3mm	3mm	3mm	3mm	3mm
	36	3mm	3mm	3mm	3mm	3mm	3mm	4mm
	42	3mm	3mm	3mm	3mm	3mm	3mm	4mm
	43	3mm	3mm	3mm	3mm	3mm	4mm	4mm
	48	3mm	3mm	3mm	3mm	3mm	4mm	4mm
	50	3mm	3mm	3mm	4mm	4mm	4mm	4mm
	54	3mm	4mm	4mm	4mm	4mm	4mm	4mm

DP35 AND DP40 GLAZING CHART, UP TO 54x54 SIZE									
MIN. GLASS THICKNESS OF ANNEALED I.G. LITES, AT INDICATED PRESSURES									
			Long Side (in.)						
			36	39	42	45	48	51	54
Short Side (in.)	36	DP35	2.2mm	2.2mm	2.2mm	2.2mm	2.2mm	2.2mm	2.2mm
		DP40	2.2mm	2.2mm	2.2mm	2.2mm	2.2mm	2.2mm	2.2mm
	42	DP35	2.2mm	2.2mm	2.2mm	2.2mm	2.2mm	2.2mm	2.2mm
		DP40	2.2mm	2.2mm	2.2mm	2.2mm	2.2mm	2.2mm	3mm
	43	DP35	2.2mm	2.2mm	2.2mm	2.2mm	2.2mm	2.2mm	2.2mm
		DP40	2.2mm	2.2mm	2.2mm	2.2mm	2.2mm	2.2mm	3mm
	45	DP35	2.2mm	2.2mm	2.2mm	2.2mm	2.2mm	2.2mm	2.2mm
		DP40	2.2mm	2.2mm	2.2mm	2.2mm	2.2mm	3mm	3mm
	48	DP35	2.2mm	2.2mm	2.2mm	2.2mm	2.2mm	2.2mm	3mm
		DP40	2.2mm	2.2mm	2.2mm	2.2mm	3mm	3mm	3mm
	50	DP35	2.2mm	2.2mm	2.2mm	2.2mm	2.2mm	3mm	3mm
		DP40	2.2mm	2.2mm	2.2mm	3mm	3mm	3mm	3mm
	54	DP35	2.2mm	2.2mm	2.2mm	2.2mm	3mm	3mm	3mm
		DP40	2.2mm	2.2mm	3mm	3mm	3mm	3mm	3mm

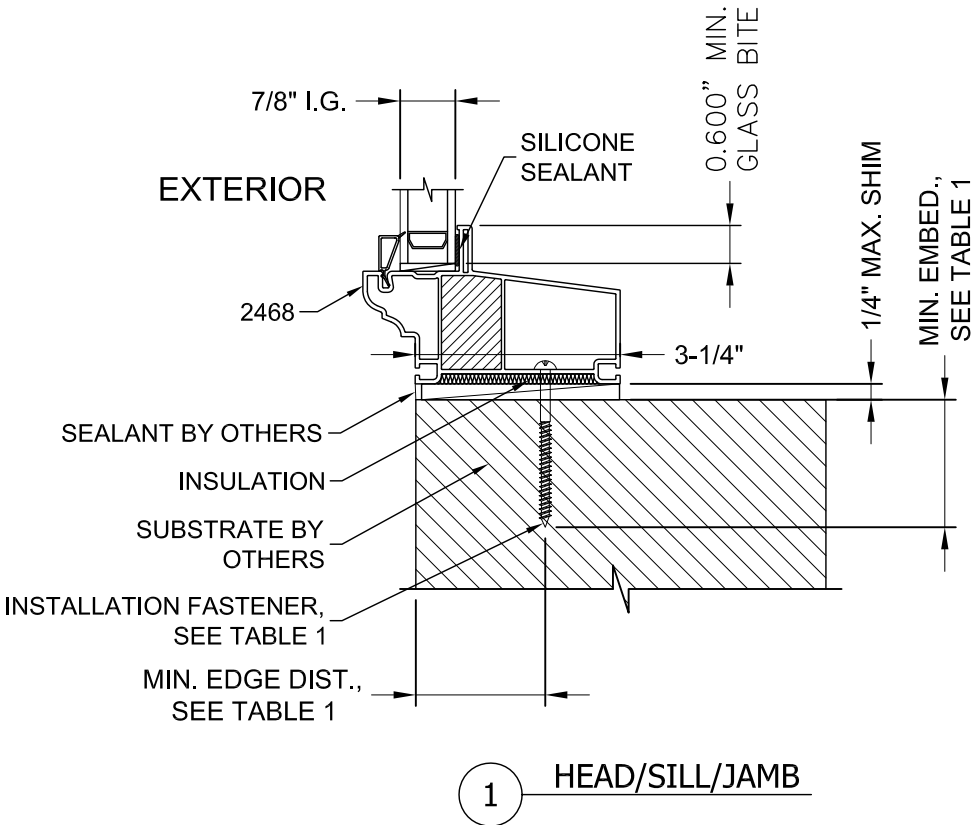


TABLE 1: FRAME INSTALLATION FASTENER REQUIREMENTS TABLE			
SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED.	MIN. EDGE DIST.
SPRUCE-PINE-FIR (G=0.42 MIN.)	#10 WOOD SCREW, 3/16" ITW TAPCON, OR 3/16" DEWALT ULTRACON+	1-3/8"	1"
CONCRETE (2.0 KSI MIN)	3/16" ITW TAPCON	1-1/2"	1 1/8"
HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	2"
CONCRETE (3.05 KSI MIN)	3/16" DEWALT ULTRACON+	1-3/4"	1"
HOLLOW OR GROUT-FILLED CMU (PER ASTM C-90)	3/16" DEWALT ULTRACON+	1-1/4"	2-1/2"
16 GAUGE (0.060") MIN. STEEL STUD, 33KSI YIELD MIN., OR 1/8" ALUM. 6063-T5 MIN.	#10-16 HILTI KWIK-FLEX OR ITW TEKS SELF-DRILLING SCREW	3 THREADS BEYOND METAL WALL	1/2"



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SHEET DESCRIPTION:
DETAILS, INSTALLATION

DWG.: FPA-8200PLUS-PW REV. 0

SCALE: NTS DATE: 10/7/2023 SHEET: 2 OF 2