

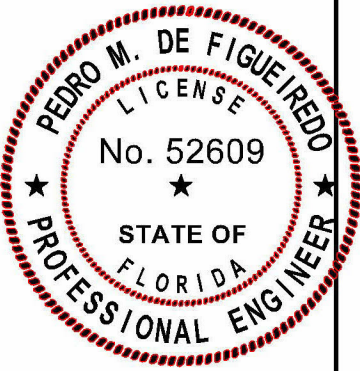


PHOENIX ALUMINUM PRODUCTS, LLC
7781 NW 73rd COURT - MEDLEY, FLORIDA 33166
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Pedro Figueiredo
Digitally signed by Pedro Figueiredo
Date: 2023.10.07 21:05:14 -04'00'

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Pedro De Figueiredo
10/07/2023

ENGINEERING SERVICES - CA 32459
9715 W. BROWARD BLVD.
PLANTATION, FL 33324
ENGINEER SEAL
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PEDRO DE FIGUEIREDO
PE 52609



PRODUCT:
SERIES 5700
FLUSH GLAZED STOREFRONT

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23-126

SHEET
1 of 9

SERIES 5700 FLUSH GLAZED ALUMINUM STOREFRONT WALL

GENERAL NOTES: (FLORIDA BUILDING CODE 2023 - 8TH EDITION)

- 1- CODE: THIS PRODUCT HAS BEEN TESTED AND DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2- DEFINITION: THIS PRODUCT IS AN ALUMINUM FIXED TYPE WINDOW DESIGNED, CONSTRUCTED AND TESTED TO PROVIDE PROTECTION FROM HURRICANE FORCE WINDS AND WIND BORNE DEBRIS (LARGE (LEVELS D, E & SMALL MISSILE) WITHIN THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN THIS APPROVAL.
- 3- POSTING: PRODUCT SHALL BE LABELED WITH A PERMANENT LABEL, MARKING OR ETCHING AND SHALL PROVIDE TRACEABILITY TO THE MANUFACTURER AND PRODUCT.
- 4- PROJECT DESIGN PRESSURES: THE PROJECT DESIGNED PRESSURES MUST BE CALCULATED BASED ON ASCE 7-22, BY A PROFESSIONAL ARCHITECT OR ENGINEER. THE PROJECT DESIGNED PRESSURE, AS DETERMINED BY ASCE 7-22 ARE PERMITTED TO BE MULTIPLIED BY 0.6 AND THEY MUST NOT EXCEED THE ALLOWABLE PRODUCT PRESSURE SPECIFIED HERE-IN.
- 5- MATERIAL: ALL ALUMINUM PARTS TO BE 6063-T6 ALUMINUM ALLOY OR SPECIFIED
- 6- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THE CURRENT SET OF DRAWINGS. INSTALLATION AND LOADS AS PER THIS APPROVAL. ANCHOR QUANTITY & SPACING MUST NOT EXCEED THE MAXIMUM LIMITS SPECIFIED BY THIS APPROVAL.
- 7- USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:
 - 7.1- THE STABILITY OF THE STRUCTURE WHERE THE PRODUCT IS TO BE ATTACHED INSURING PROPER ANCHORAGE.
 - 7.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.
 - 7.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.
- 8- WOOD BUCKS (1x or 2x) BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

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TEST REPORTS:

MODULE: 60 X 120 - IMPACT RATE: LEVEL D
HETI 17-5101 - TAS 202 - ASTM E330
AAMA 501 (MANDATORY SECTIONS) - +100, -100 PSF
ANSI Z97.1, CPSC 16 CFR CH II PART 1201
ASTM E331 - 15 PSF (WATER INFILTRATION)
HETI 18-6025 - TAS 201, 203, ASTM E1886, E1996 - +80, -100 PSF

MODULE: 48 X 120 - IMPACT RATE: LEVEL D
HETI 17-5103 - TAS 202, ASTM E330 - +60, -60 PSF
HETI 17-5104 - TAS 201, 203, ASTM E1886, E1996 - +60, -60 PSF

DOOR WITH TRANSOM AND SIDELITES: 149X120 - IMPACT RATE: LEVEL D
HETI 17-5105 - TAS 202, ASTM E330 - +90, -90 PSF
HETI 17-5106 - TAS 201, 203, ASTM E1886, E1996 - +90, -90 PSF

MODULE: 60 X 120 - LEVEL E
HETI 20-8067 - ASTM E1886, E1996, TAS 201, 203 - +80, -100 PSF

DLO GLAZING SELECTION AND SINGLE MODULE ELEVATION

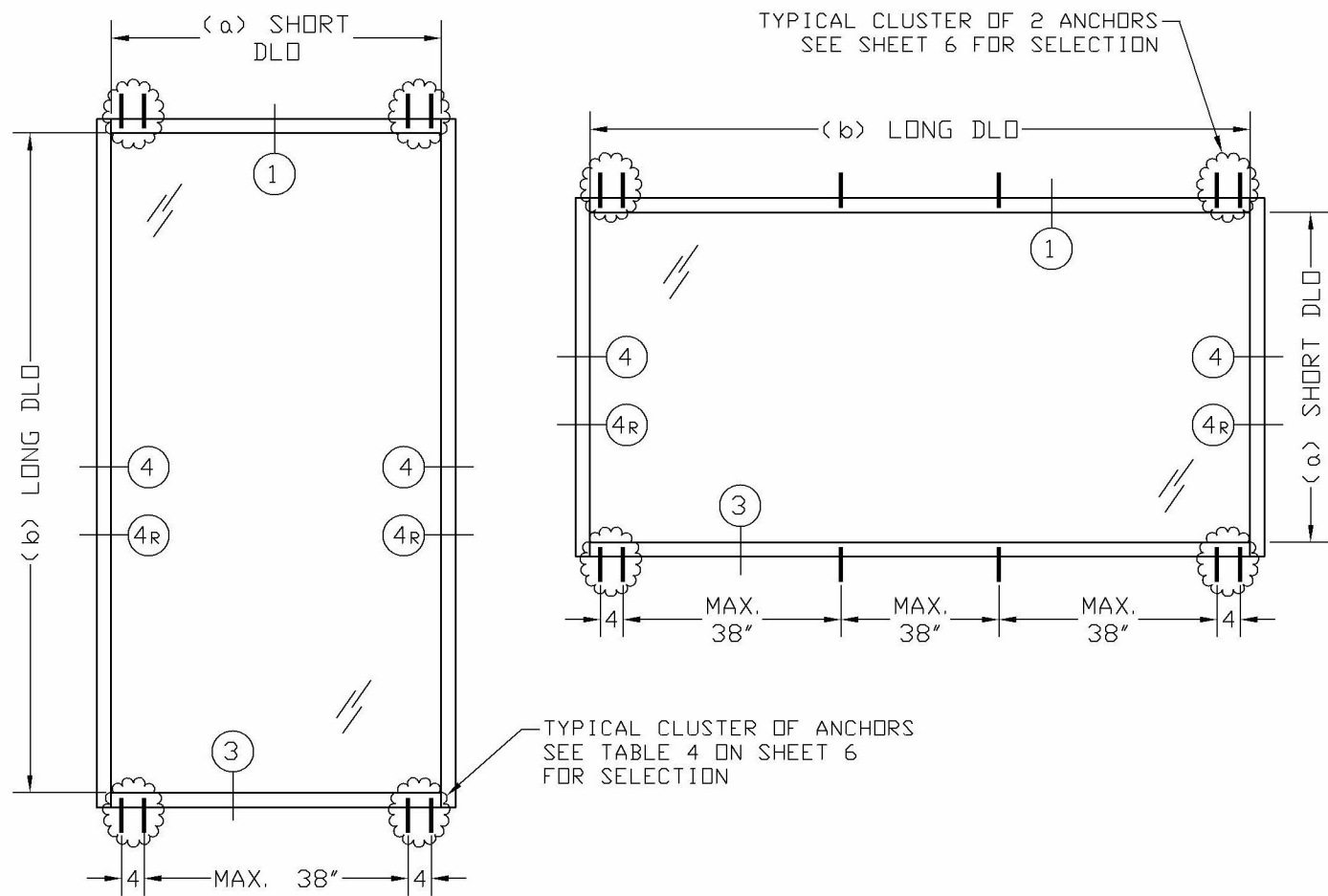
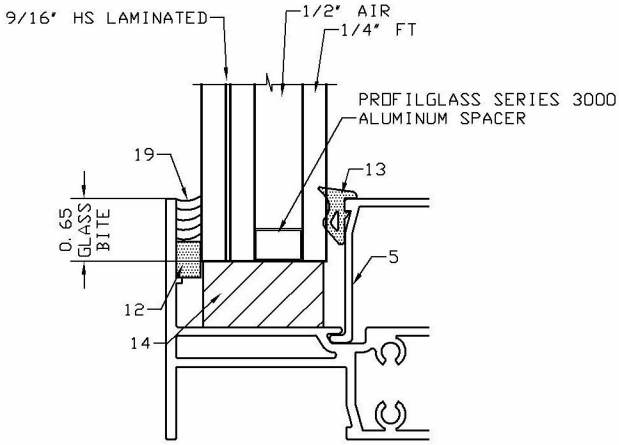
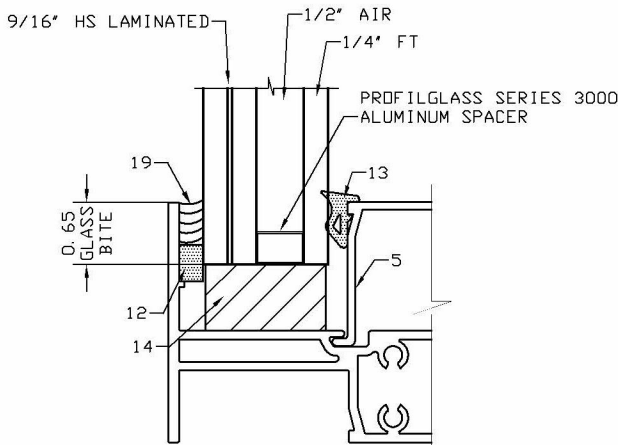


TABLE 1 - GLAZING SELECTION

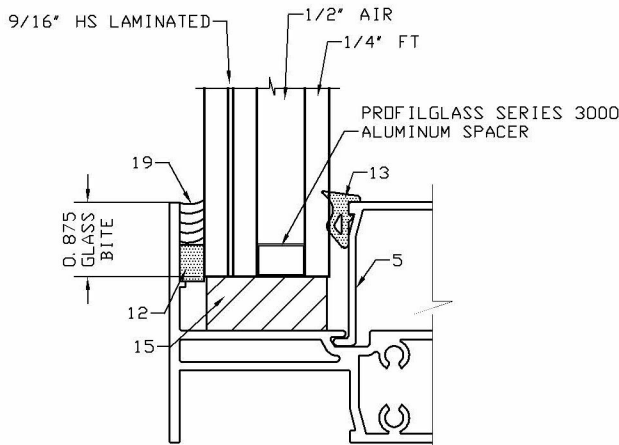
Glazing DLO Sizes		Pressure Rating (PSF)					
		Glazing Type A		Glazing Type B		Glazing Type C	
a	b	Pos	Neg	Pos	Neg	Pos	Neg
57.5	115	80	100	na	na	80	100
45.5	115	80	100	60	60	80	100



- A) 1 5/16" IG LAMINATED GLASS COMPOSED OF:
9/16" HS LAMINATED OUTER LAYER
1/4" HS LITE
0.090 SENTRYGLAS INTERLAYER
1/4" HS LITE
1/2" AIR SPACE
1/4" INNER FULLY TEMPERED GLASS
LEVEL D IMPACT RATED



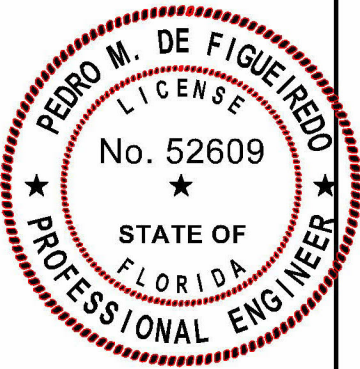
- B) 1 5/16" IG LAMINATED GLASS COMPOSED OF:
9/16" HS LAMINATED OUTER LAYER
1/4" HS LITE
0.090 PVB INTERLAYER
1/4" HS LITE
1/2" AIR SPACE
1/4" INNER FULLY TEMPERED GLASS
LEVEL D IMPACT RATED



- C) 1 7/16" IG LAMINATED GLASS COMPOSED OF:
9/16" HS LAMINATED OUTER LAYER
1/4" HS LITE
0.180 SENTRYGLAS INTERLAYER
1/4" HS LITE
1/2" AIR SPACE
1/4" INNER FULLY TEMPERED GLASS
LEVEL E IMPACT RATED

FBC SECTION 2411.3.3.1 FOR EACH FIXED GLASS SILL WITH WIDTH MORE THAN 3 FEET TO HAVE TWO APPROVED NEOPRENE SETTING BLOCKS 70-90 SHORE A DUROMETER HARDNESS

GLAZING TESTED UNDER PROTOCOLS:
TAS 202, TAS 201, TAS 203
ANZI Z97.1
ASTM E330, ASTM E1996, ASTM E1886
WATER AND AIR INFILTRATION
GLAZING IN COMPLIANCE WITH ASTM E-1300



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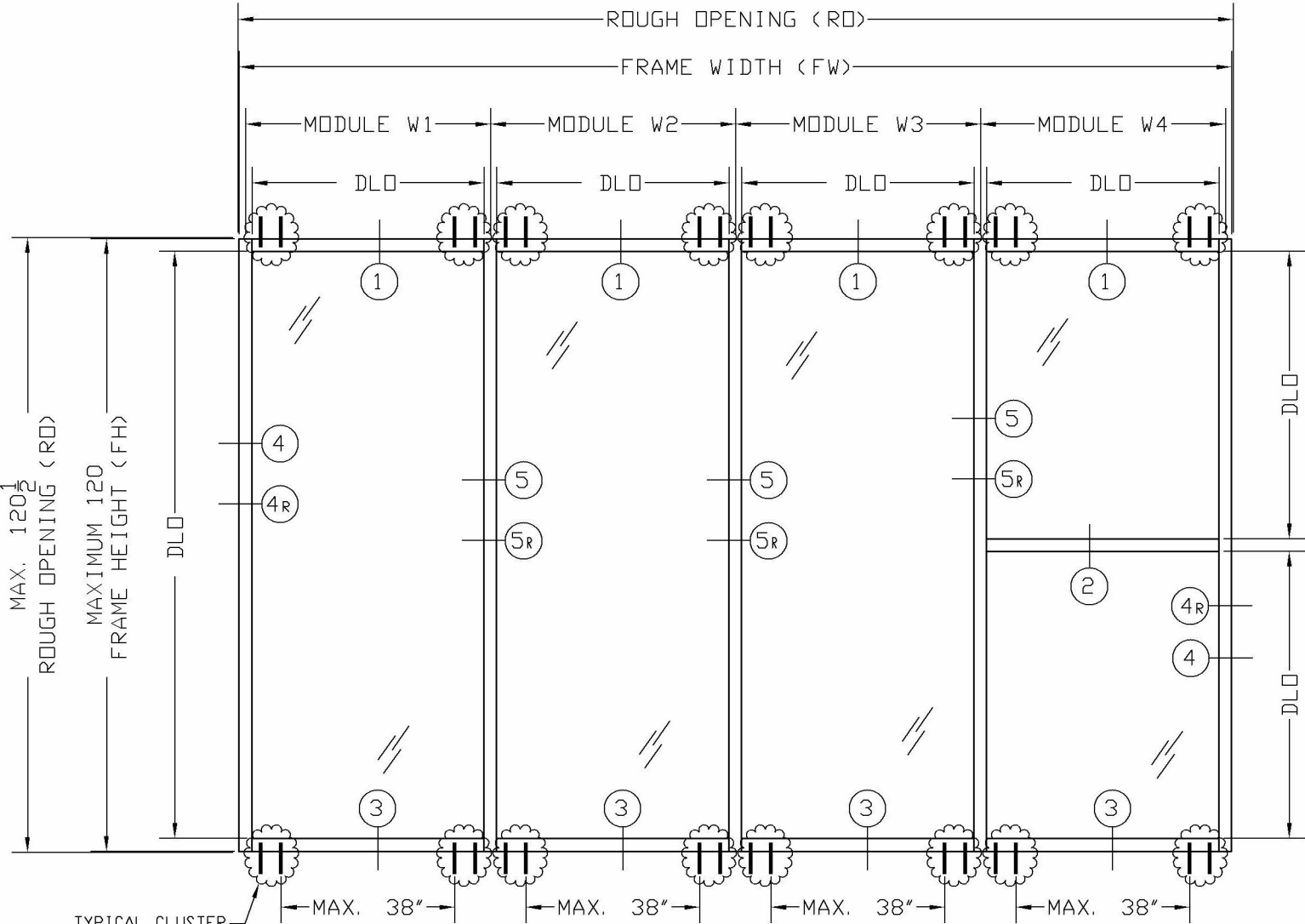
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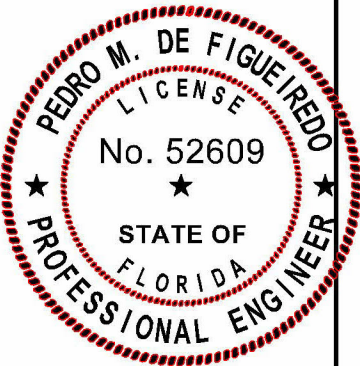
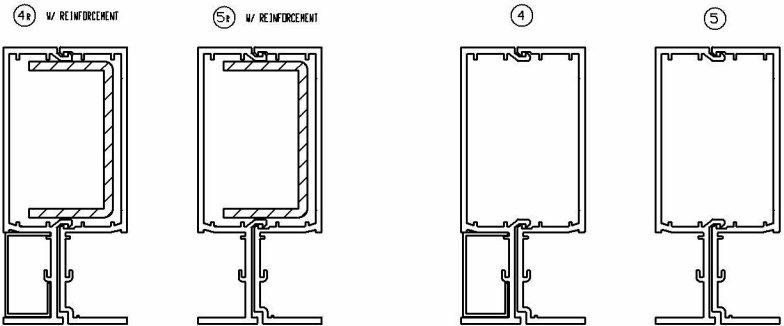
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STOREFRONT MULTIPLE MODULES ELEVATION
INTERMEDIATE VERTICAL MULL AND JAMB SELECTION



TYPICAL CLUSTER
2, 3, 4, 5 OR 6 ANCHORS
SEE TABLE 4 ON
SHEET 6 FOR SELECTION

SECTION 5 AND 5R: $W = (W1 + W2) / 2, (W2 + W3) / 2$ OR $(W3 + W4) / 2$
SECTION 4 AND 4R: $W = W1$ OR $W4$



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TABLE 2 - FRAMING SELECTION

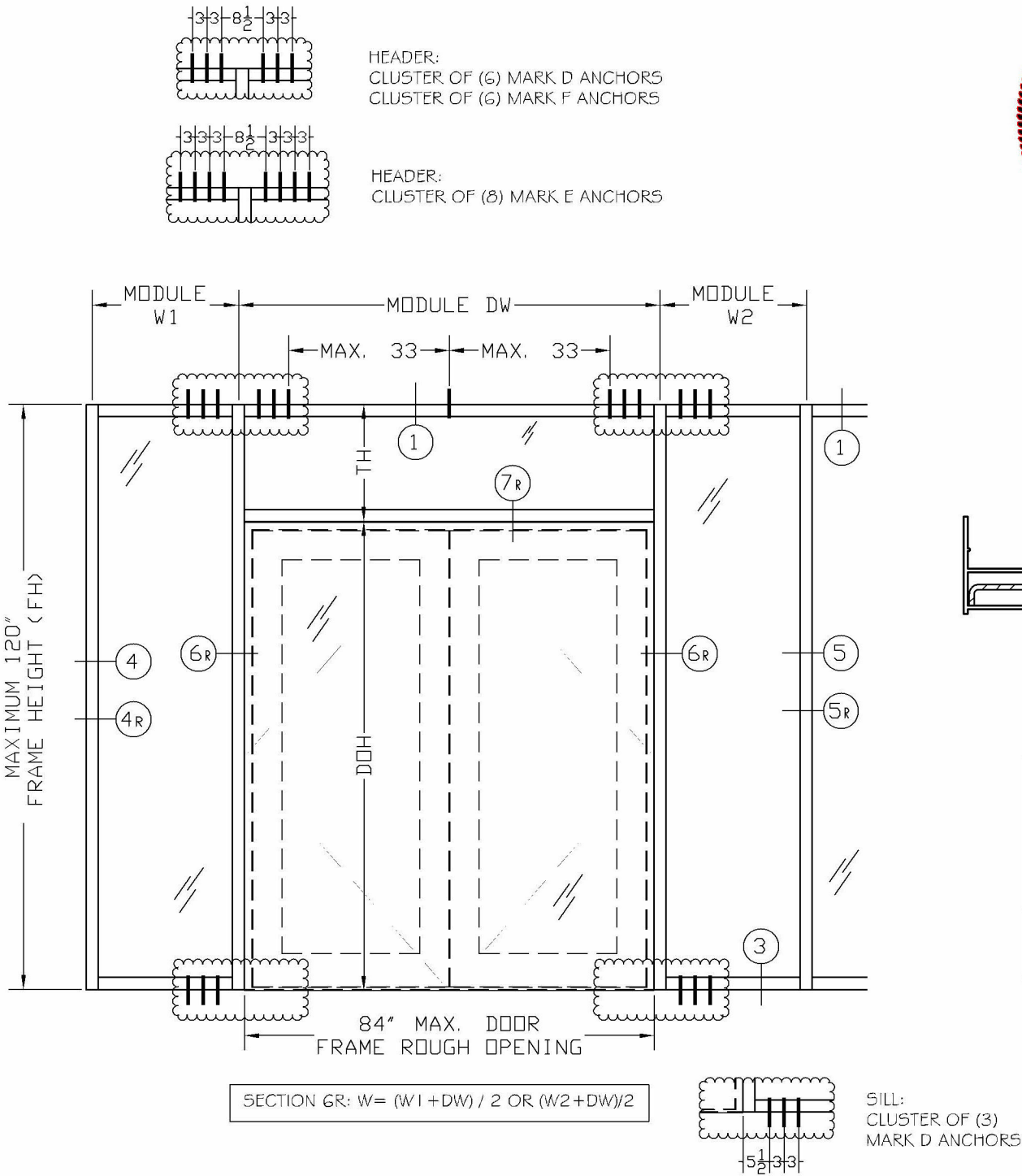
FH (inches)	Module W (inches)	Sections 4 and 5		Sections 4R or 5R	
		Pd+ (PSF)	Pd- (PSF)	Pd+ (PSF)	Pd- (PSF)
84	36	60	60	80	100
	42	60	60	80	100
	48	60	60	80	100
	54	60	60	80	100
	60	60	60	80	100
	66	60	60	80	100
96	36	60	60	80	100
	42	60	60	80	100
	48	60	60	80	100
	54	60	60	80	100
	60	60	60	80	100
	66	55	55	80	100
108	36	60	60	80	100
	42	60	60	80	100
	48	60	60	80	100
	54	59	59	80	100
	60	53	53	80	100
	66	48	48	80	100
120	36	60	60	80	100
	42	60	60	80	100
	48	60	60	80	100
	54	53	53	80	100
	60	48	48	80	100

GLAZING NOTE: USE TABLE 1 ON SHEET 2 FOR GLAZING SELECTION AND DESIGN RATING.

TABLE 3 - DOOR JAMB FRAMING DESIGN

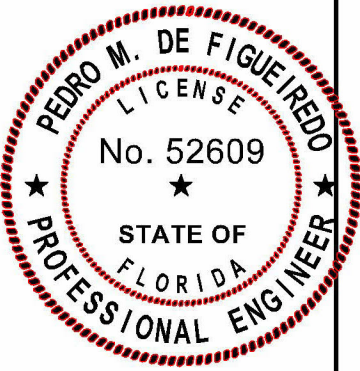
FH (inches)	Module W (inches)	TH (inches)	DOH (inches)	Sections 6R	
				Pd+ (PSF)	Pd- (PSF)
120	58	12	108	90	90
		24	96	85	85
		36	84	83	83
		40	80	81	81
	54	12	108	90	90
		24	96	90	90
		36	84	87	87
		40	80	86	86
	51	12	108	90	90
		24	96	90	90
		36	84	90	90
		40	80	90	90
114	58	18	96	90	90
		30	84	88	88
		34	80	87	87
		18	96	90	90
	54	30	84	90	90
		34	80	90	90
		18	96	90	90
		30	84	90	90
	51	34	80	90	90
		12	96	90	90
		24	84	90	90
		28	80	90	90
108	58	12	96	90	90
		24	84	90	90
		28	80	90	90
		12	96	90	90
	54	24	84	90	90
		28	80	90	90
	51	12	96	90	90
		24	84	90	90

GLAZING NOTE: USE TABLE 1 ON SHEET 2 FOR GLAZING SELECTION AND DESIGN RATING.



ANCHOR DATA

Mark	Type	Edge Dist. / Spacing
D	5/16" Tapcons/ Ultracons with 1 3/4" embedment into 3000 psi concrete	ed>=3" / s>=3"oc
E	5/16" Tapcons/ Ultracons with 1 3/8" embedment into 2x PT wood	ed>=.75" / s>=3"oc
F	5/16-18 Self drilling Screws grade 5 into 1/8" Aluminum / Steel structures	ed>=5/8" / s>=3"oc



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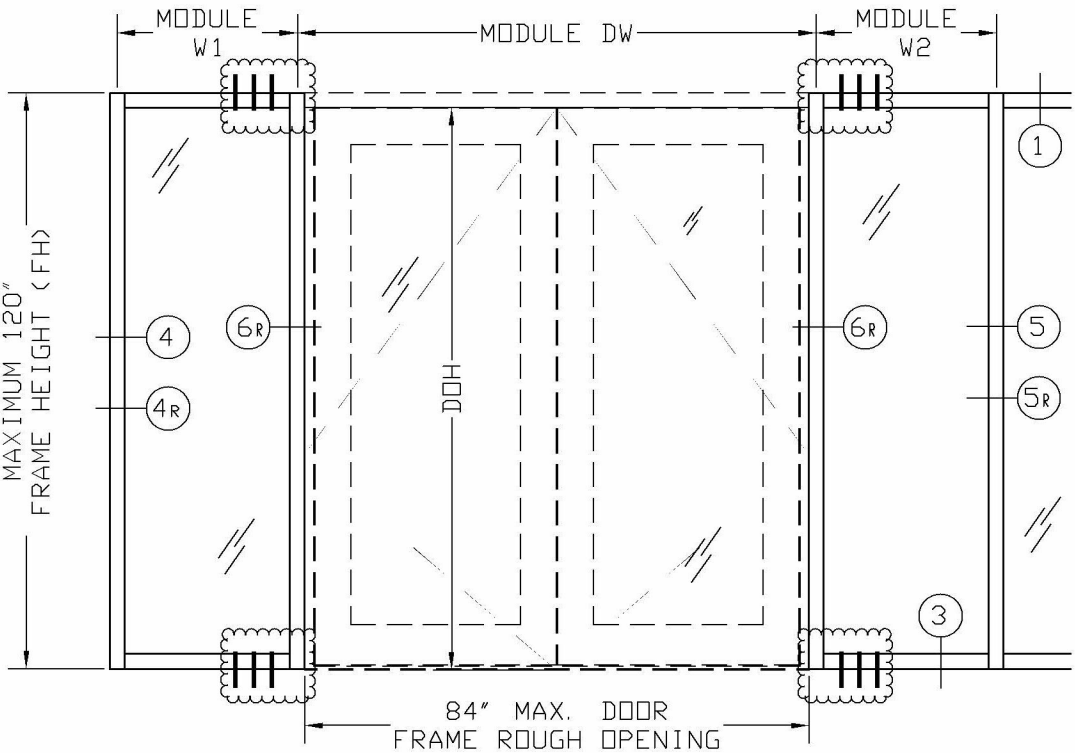
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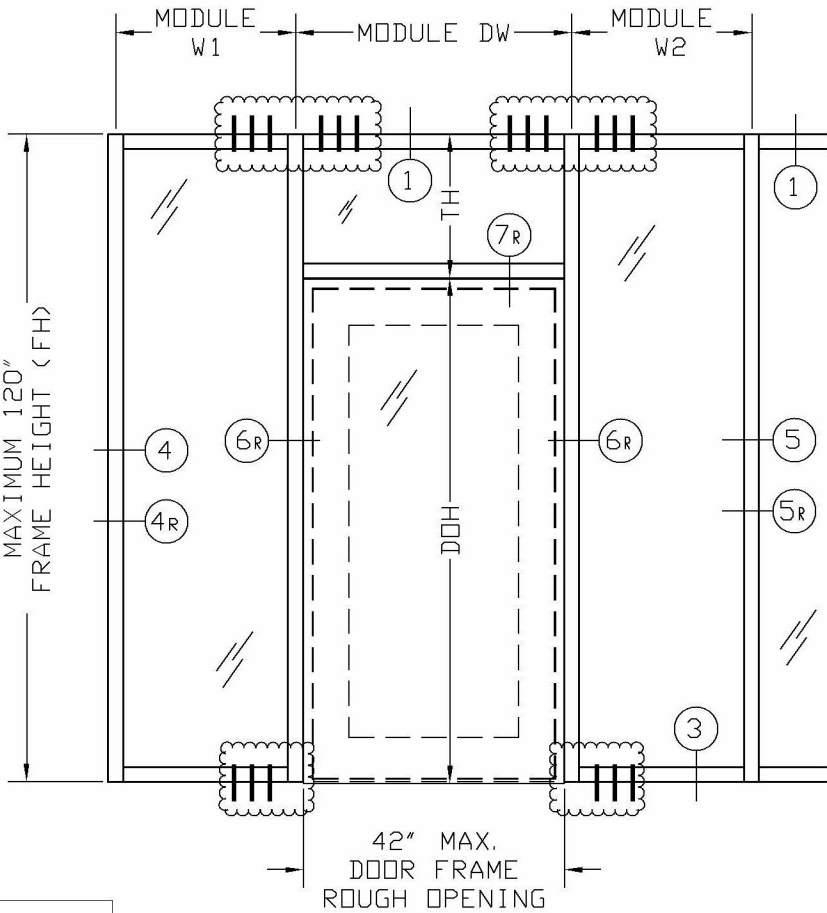
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STOREFRONT WITH PAIR / SINGLE DOOR W/O TRANSOM

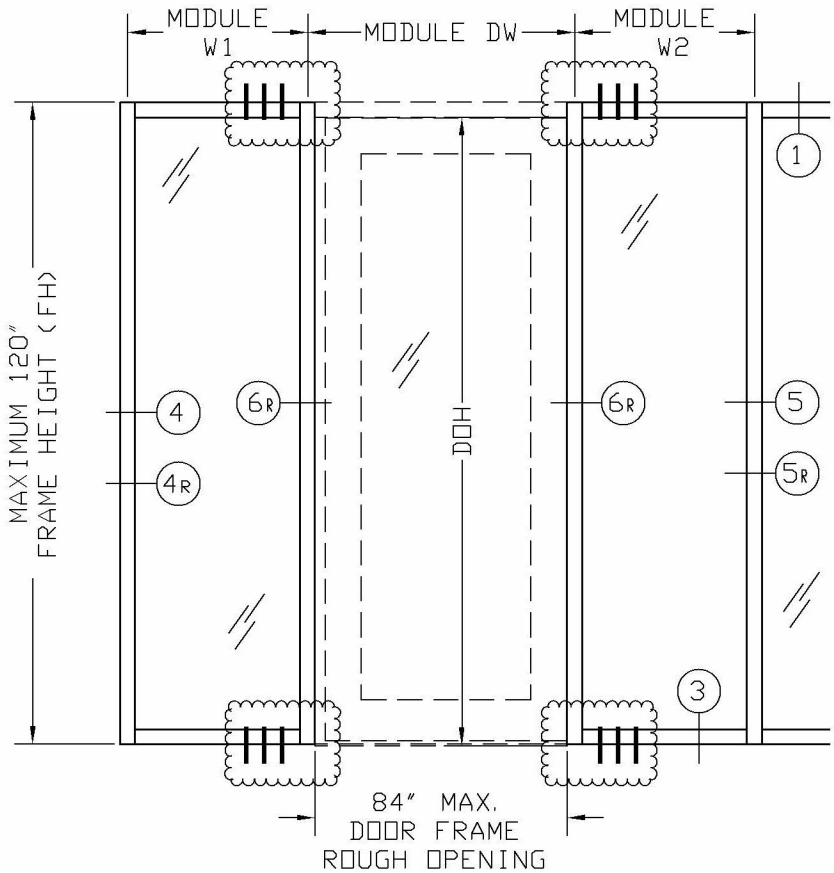
STOREFRONT WITH SINGLE DOOR W/ TRANSOM



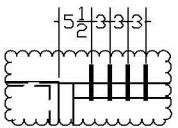
SECTION 6R: $W = (W1/2 + DW/4) / 2$ OR $(W2/2 + DW/4)$



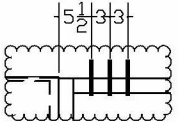
SECTION 6R: $W = (W1 + DW) / 2$ OR $(W2 + DW) / 2$



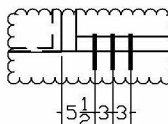
SECTION 6R: $W = (W1 + DW) / 2$ OR $(W2 + DW) / 2$



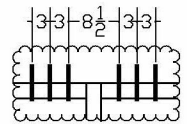
HEADER:
CLUSTER OF (4) MARK E ANCHORS



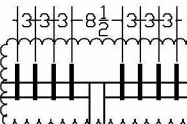
HEADER:
CLUSTER OF (3) MARK D ANCHORS
CLUSTER OF (3) MARK F ANCHORS



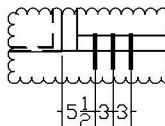
SILL:
CLUSTER OF (3) MARK D ANCHORS



HEADER:
CLUSTER OF (6) MARK D ANCHORS
CLUSTER OF (6) MARK F ANCHORS



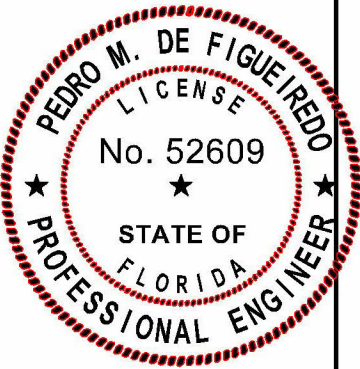
HEADER:
CLUSTER OF (8) MARK E ANCHORS



SILL:
CLUSTER OF (3)
MARK D ANCHORS

ANCHOR DATA

Mark	Type	Edge Dist. / Spacing
D	5/16" Tapcons/ Ultracons w ith 1 3/4" embedment into 3000 psi concrete	ed>=3" / s>=3"oc
E	5/16" Tapcons/ Ultracons w ith 1 3/8" embedment into 2x PT w ood	ed>=.75" / s>=3"oc
F	5/16-18 Self drilling Screw s grade 5 into 1/8" Aluminum / Steel structures	ed>=5/8" / s>=3"oc



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PE 52609

TABLE 4 - ANCHORAGE CLUSTER SELECTION

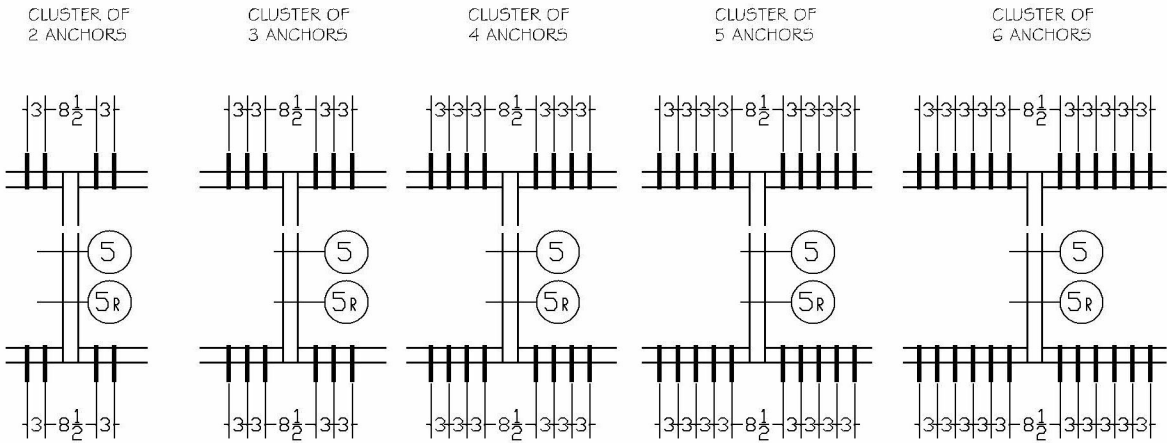
FH (inches)	Module W (inches)	Sections 4 and 5		ANCHOR MARK						Sections 4R or 5R		ANCHOR MARK					
		Pd+ (PSF)	Pd- (PSF)	A	B	C	D	E	F	Pd+ (PSF)	Pd- (PSF)	A	B	C	D	E	F
84	36	60	60	2	2	2	2	2	2	80	100	3	3	3	3	3	3
	42	60	60	2	2	2	2	2	2	80	100	3	3	3	3	3	3
	48	60	60	2	2	2	2	2	2	80	100	3	4	3	3	3	3
	54	60	60	2	3	2	2	2	2	80	100	3	4	3	3	3	3
	60	60	60	2	3	2	2	2	2	80	100	3	4	3	3	3	3
	66	60	60	2	3	2	2	2	2	80	100	3	5	3	3	4	3
96	36	60	60	2	2	2	2	2	2	80	100	3	3	3	3	3	3
	42	60	60	2	2	2	2	2	2	80	100	3	4	3	3	3	3
	48	60	60	2	3	2	2	2	2	80	100	3	4	3	3	3	3
	54	60	60	2	3	2	2	2	2	80	100	3	4	3	3	3	3
	60	60	60	2	3	2	2	2	2	80	100	3	5	3	3	4	3
	66	55	55	2	3	2	2	2	2	80	100	3	5	4	3	4	3
108	36	60	60	2	2	2	2	2	2	80	100	3	3	3	3	3	3
	42	60	60	2	3	2	2	2	2	80	100	3	4	3	3	3	3
	48	60	60	2	3	2	2	2	2	80	100	3	4	3	3	3	3
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	60	53	53	2	3	2	2	2	2	80	100	3	5	4	3	4	3
	66	48	48	2	3	2	2	2	2	80	100	4	6	4	3	5	3
120	36	60	60	2	2	2	2	2	2	80	100	3	4	3	3	3	3
	42	60	60	2	3	2	2	2	2	80	100	3	4	3	3	3	3
	48	60	60	2	3	2	2	2	2	80	100	3	5	3	3	4	3
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ANCHOR DATA

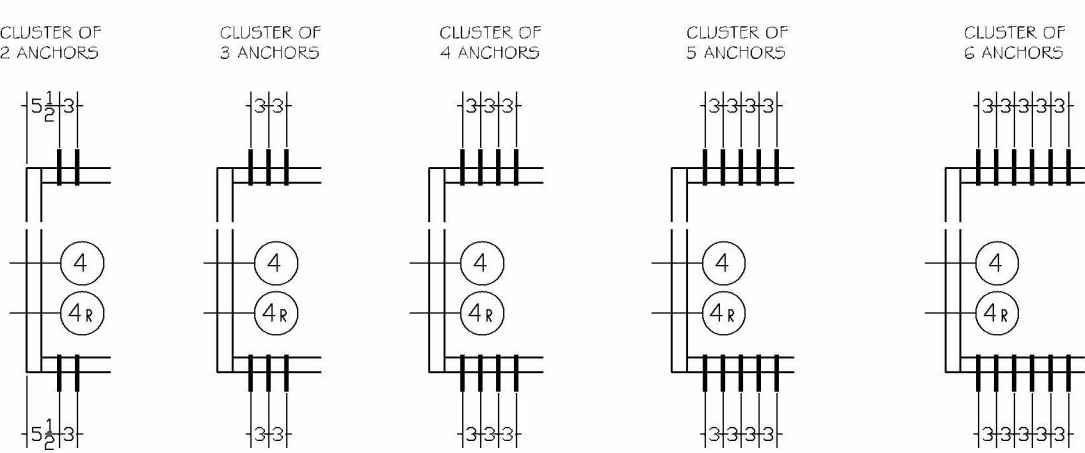
Mark	Type	Edge Dist. / Spacing
A	1/4" Tapcons/ Ultracons with 1 3/4" embedment into 3000 psi concrete	ed>=3" / s>=3"oc
B	1/4" Tapcons/ Ultracons with 1 3/8" embedment into 2x PT wood	ed>=3/4" / s>=3"oc
C	1/4-14 / 1/4-20 ss SMS into 1/8" Aluminum/ Steel structures	ed>=1/2" / s>=3"oc
D	5/16" Tapcons/ Ultracons with 1 3/4" embedment into 3000 psi concrete	ed>=3" / s>=3"oc
E	5/16" Tapcons/ Ultracons with 1 3/8" embedment into 2x PT wood	ed>=.75" / s>=3"oc
F	5/16-18 Self drilling Screws grade 5 into 1/8" Aluminum/ Steel structures	ed>=5/8" / s>=3"oc

FOR LEVEL E IMPACT APPLICATIONS USE ONLY ANCHORS MARK D, E OR F

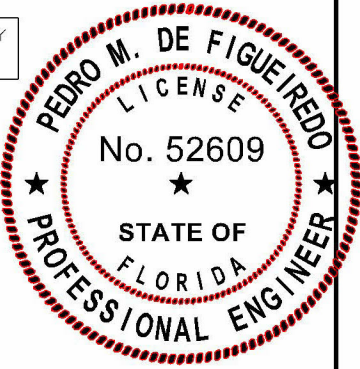
INTERMEDIATE MULLION CONNECTION AT HEADER AND SILL



JAMB MULLION CONNECTION AT HEADER AND SILL



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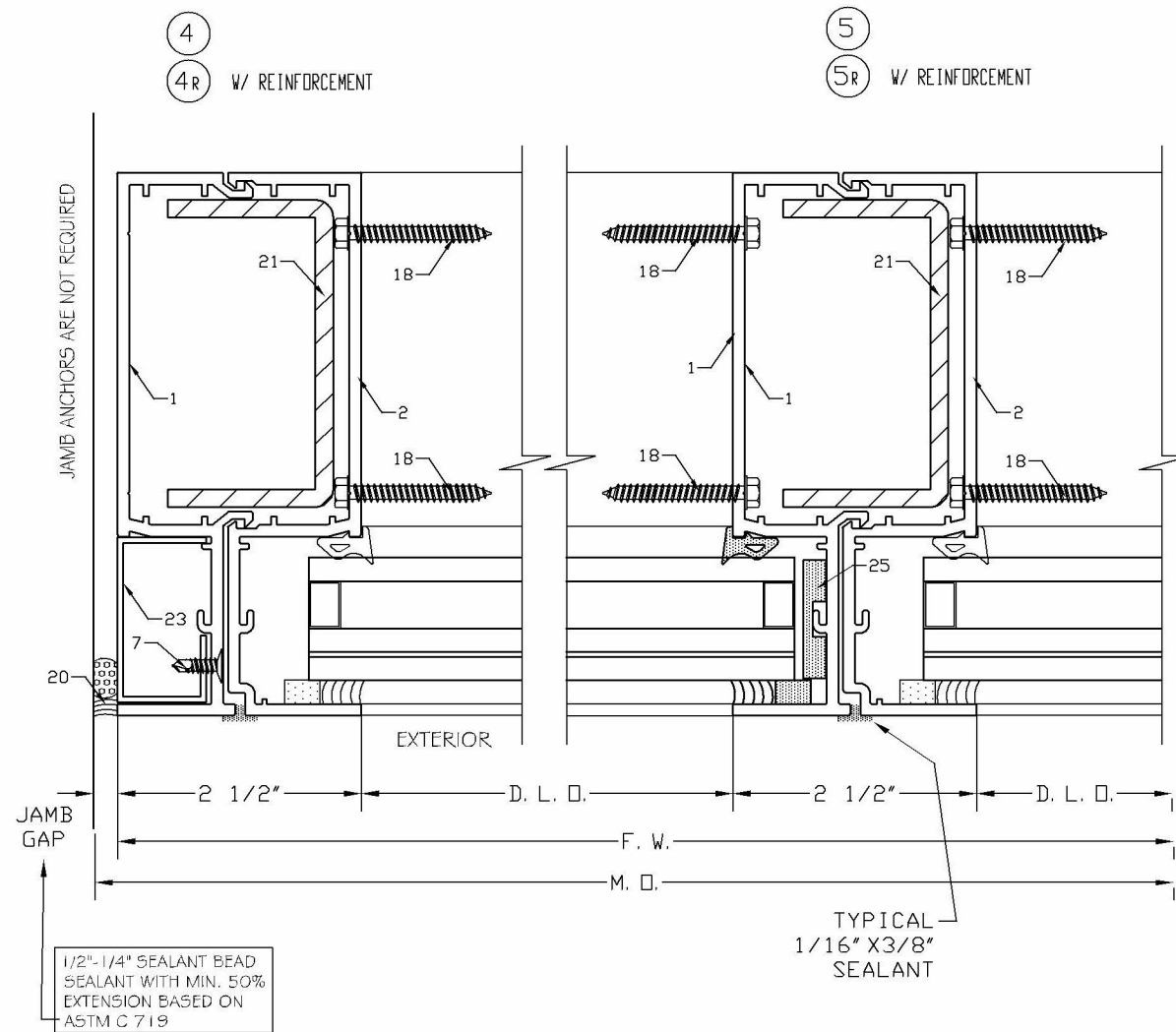
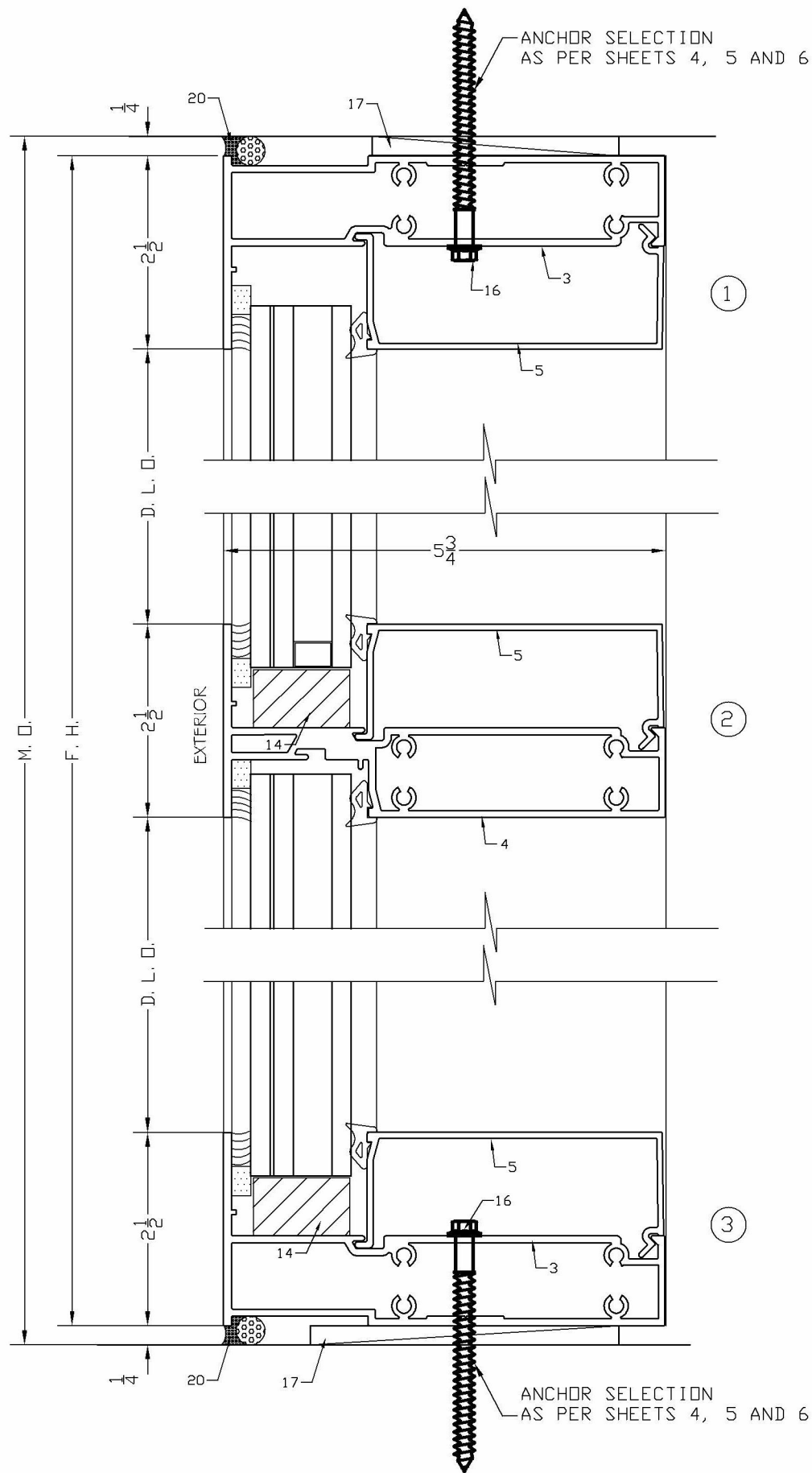
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TYPICAL SECTIONS



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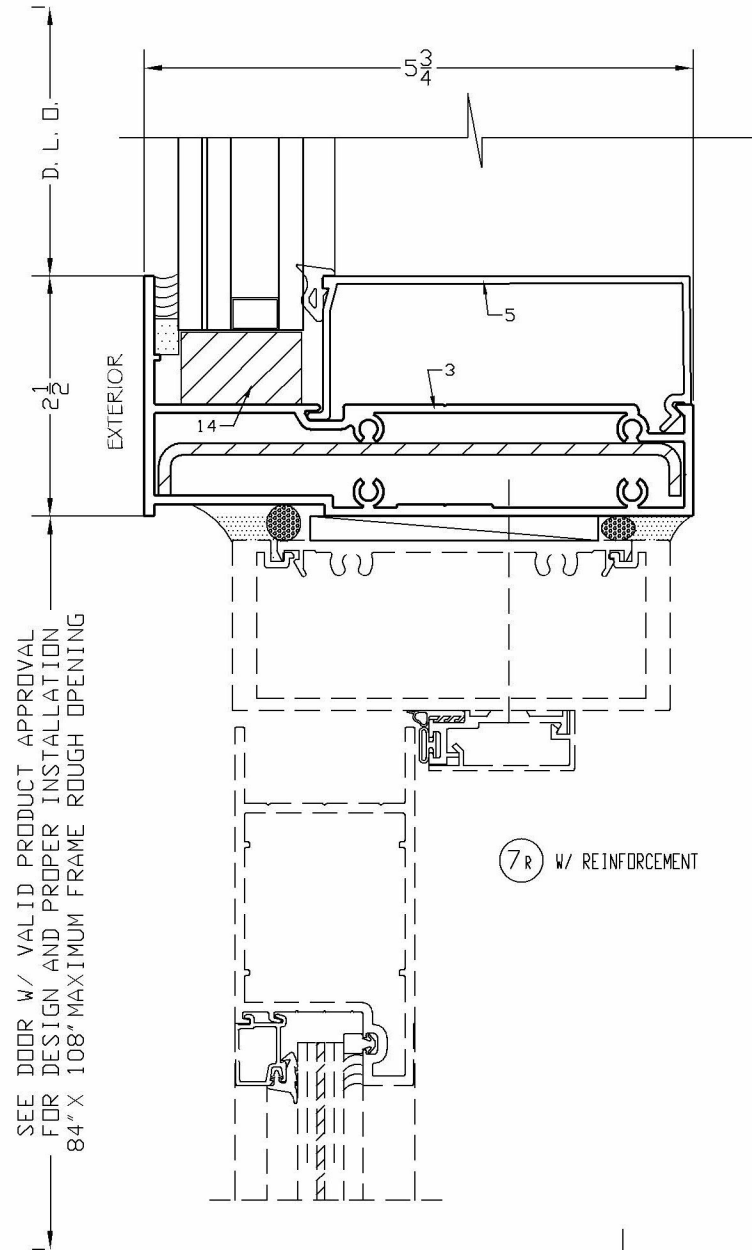


PRODUCT:
SERIES 5700
FLUSH GLAZED STOREFRONT

7781 NW 73rd COURT
MEDLEY, FLORIDA 33166
PH: (786) 534-6713
FX: (786) 464-1679
WWW.PHOENIXALUM.COM

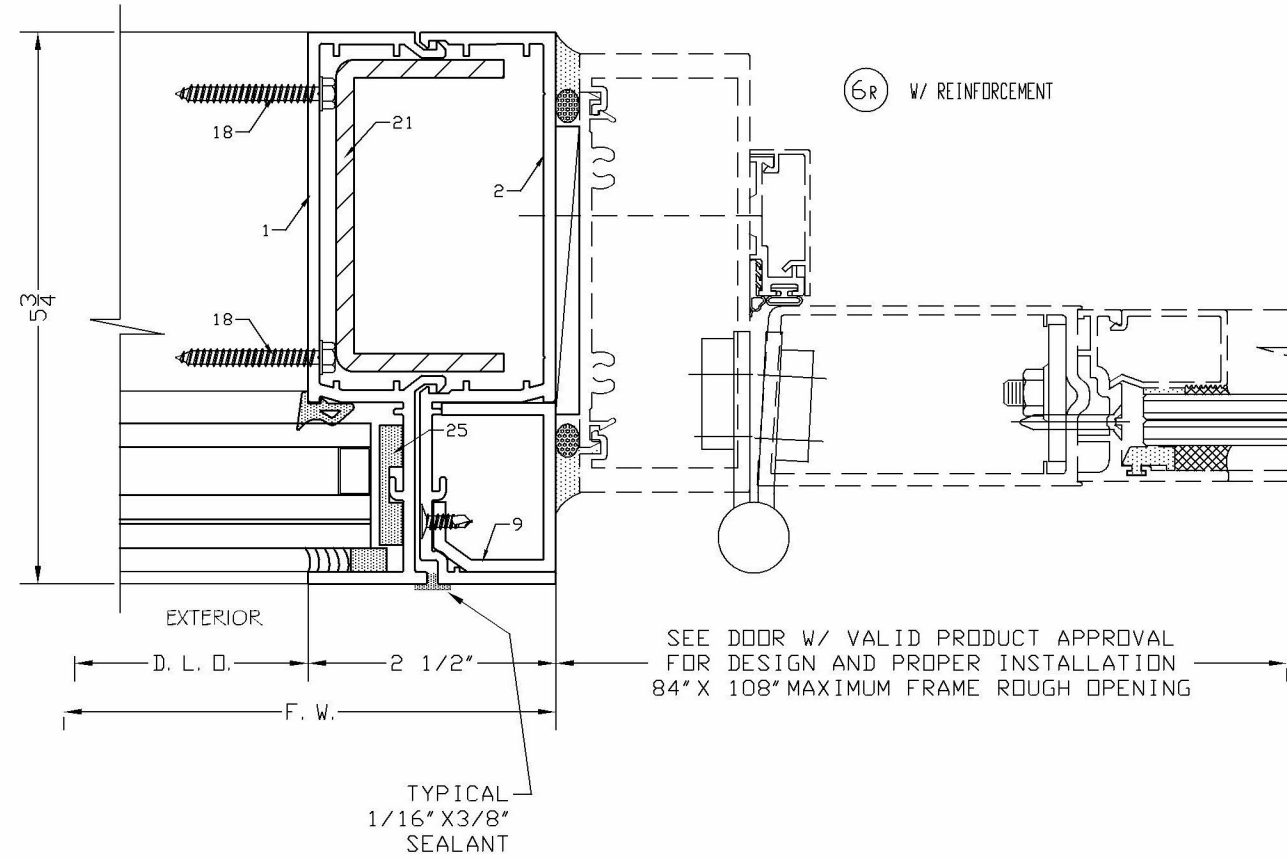
PHOENIX
ALUMINUM PRODUCTS, LLC

SCALE:
1:1/2
DATE:
10/07/2023
DRAWING #
23-126
SHEET
7 of 9



SEE DOOR W/ VALID PRODUCT APPROVAL
FOR DESIGN AND PROPER INSTALLATION
84\" X 108\" MAXIMUM FRAME ROUGH OPENING

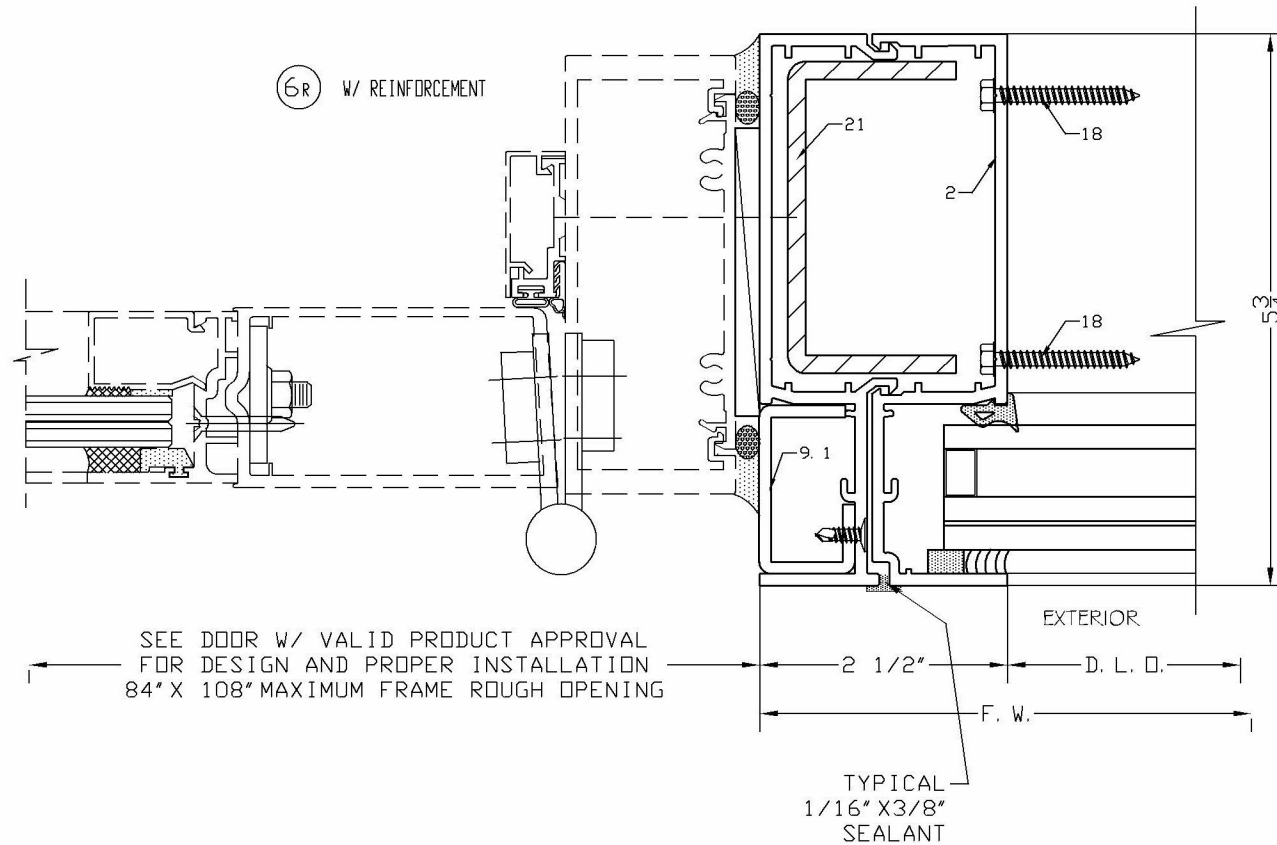
(7R) W/ REINFORCEMENT



(6R) W/ REINFORCEMENT

SEE DOOR W/ VALID PRODUCT APPROVAL
FOR DESIGN AND PROPER INSTALLATION
84\" X 108\" MAXIMUM FRAME ROUGH OPENING

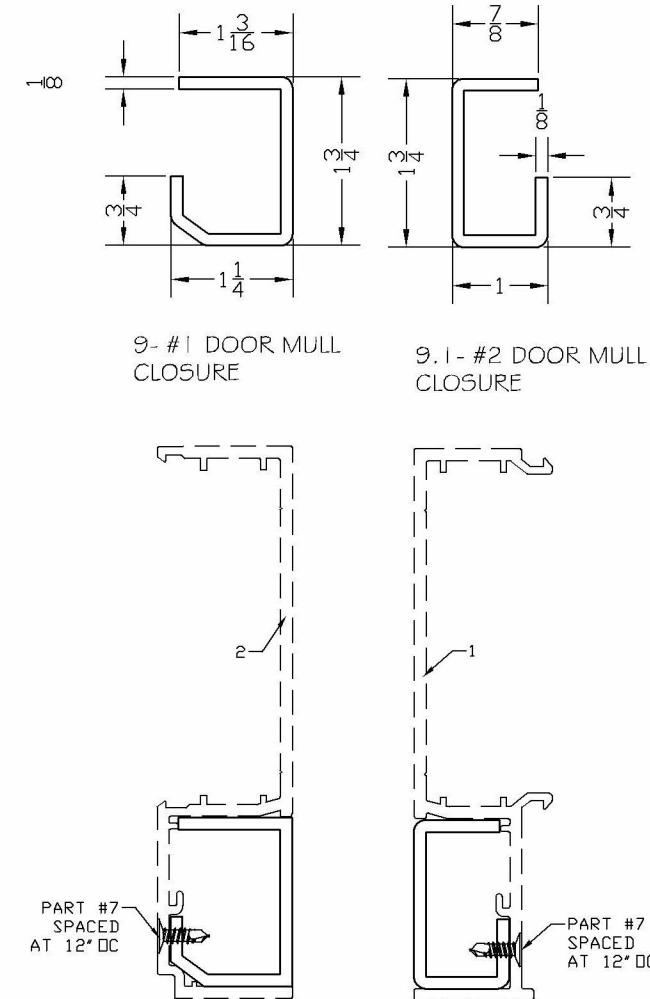
TYPICAL
1/16\" X 3/8\"
SEALANT



(6R) W/ REINFORCEMENT

SEE DOOR W/ VALID PRODUCT APPROVAL
FOR DESIGN AND PROPER INSTALLATION
84\" X 108\" MAXIMUM FRAME ROUGH OPENING

TYPICAL
1/16\" X 3/8\"
SEALANT

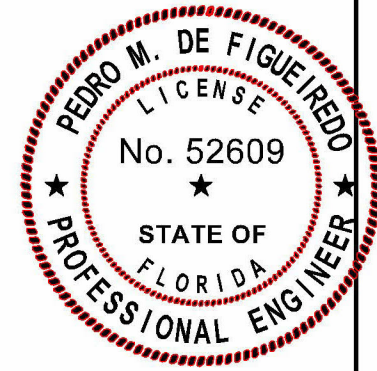


9- #1 DOOR MULL
CLOSURE

9.1- #2 DOOR MULL
CLOSURE

PART #7
SPACED
AT 12\" DC

PART #7
SPACED
AT 12\" DC



Pedro De Figueiredo
10/07/2023

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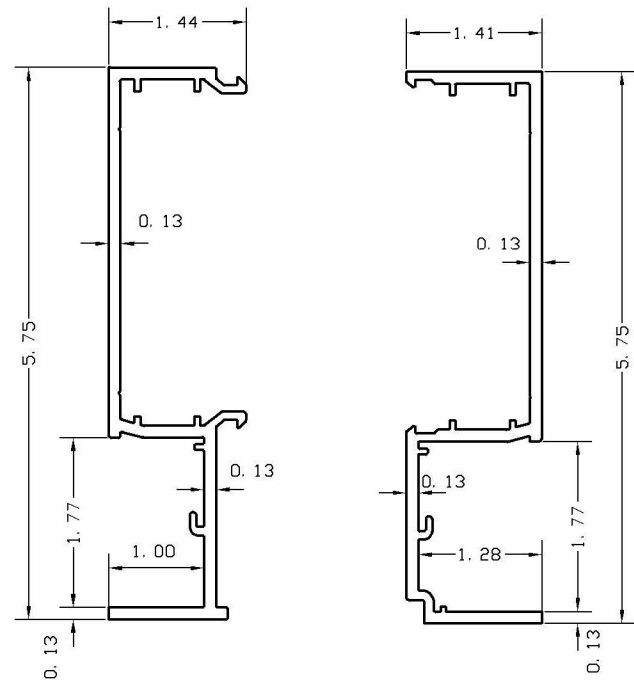
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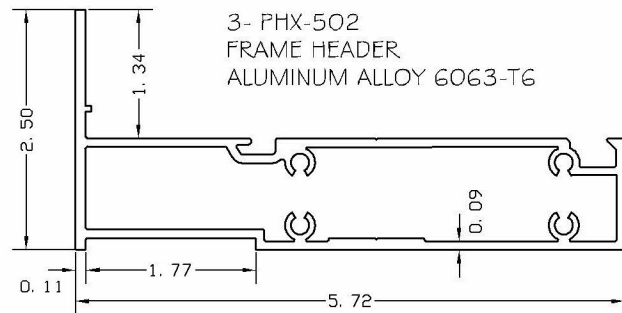
SHEET
8 of 9

ENGINEERING SERVICES - CA 32459
9715 W. BROWARD BLVD.
PLANTATION, FL 33324
PPMF@AOL.COM
ENGINEER SEAL
PEDRO DE FIGUEIREDO
PE 52609

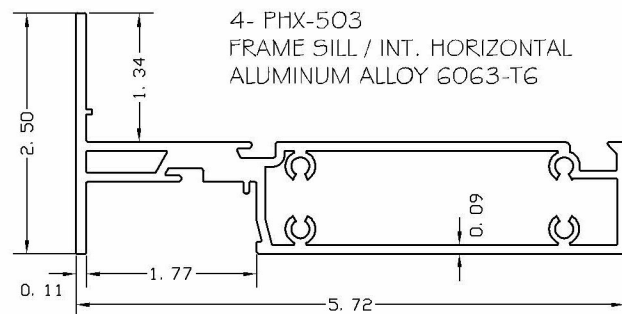


1- PHP-500
MALE VERTICAL MULLION
ALUMINUM ALLOY 6005-T5

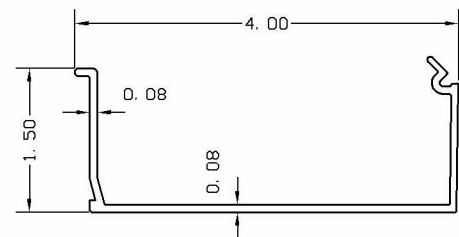
2- PHP-501
FEMALE VERTICAL MULLION
ALUMINUM ALLOY 6005-T5



3- PHX-502
FRAME HEADER
ALUMINUM ALLOY 6063-T6

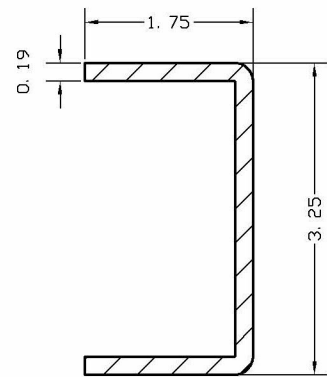


4- PHX-503
FRAME SILL / INT. HORIZONTAL
ALUMINUM ALLOY 6063-T6

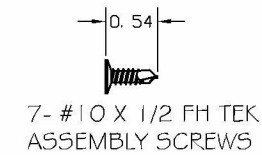


5- PHX-504
INSULATED GLASS STOP

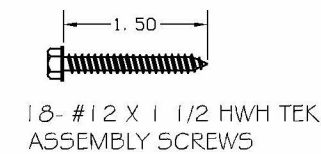
PRODUCT COMPONENTS



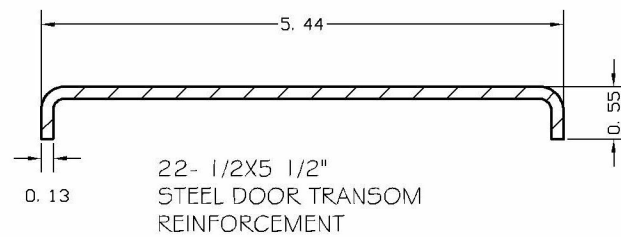
21- 1/2X3 1/2"
STEEL MULLION
REINFORCEMENT



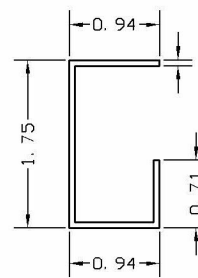
7- #10 X 1/2 FH TEK
ASSEMBLY SCREWS



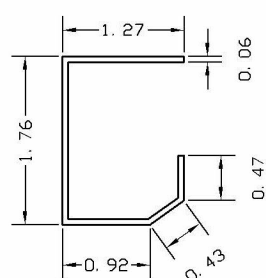
18- #12 X 1 1/2 HWH TEK
ASSEMBLY SCREWS



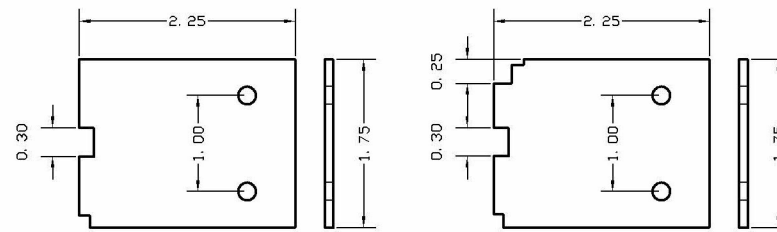
22- 1/2X5 1/2"
STEEL DOOR TRANSOM
REINFORCEMENT



23- #1 JAMB CLOSURE

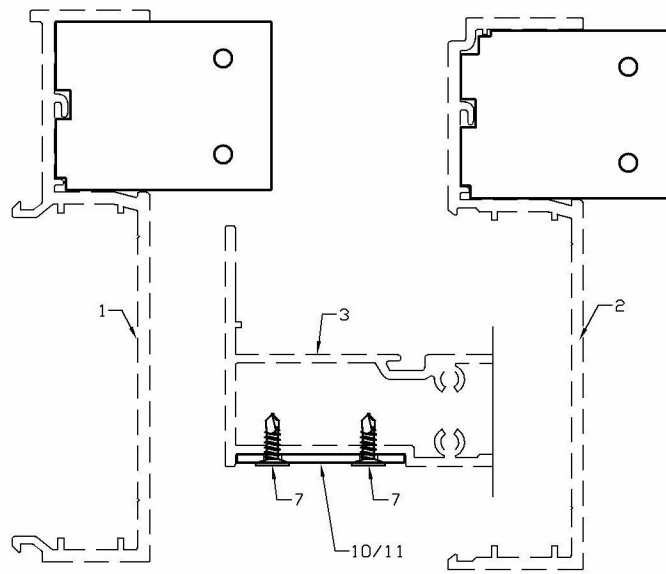


24- #2 JAMB CLOSURE



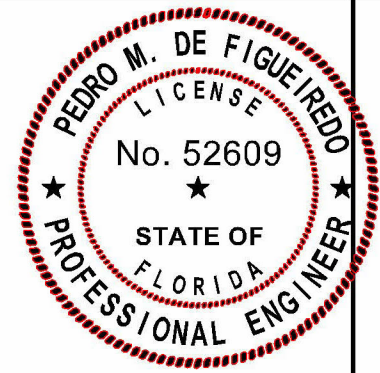
10- 0.09" x 2.25" x 1.75"
ALUMINUM MALE END CAP

11- 0.09" x 2.25" x 1.75"
ALUMINUM FEMALE END CAP



PRODUCT MATERIAL SCHEDULE

ITEM	PART #	DESCRIPTION	REMARKS
1	PHP-500	MALE VERTICAL MULL	6005-T5 ALUMINUM ALLOY
2	PHP-501	FEMALE VERTICAL MULL	6005-T5 ALUMINUM ALLOY
3	PHX-502	FRAME HEADER	6063-T6 ALUMINUM ALLOY
4	PHX-503	FRAME SILL / HORIZONTAL	6063-T6 ALUMINUM ALLOY
5	PHX-504	INSUL. GLASS STOP	6063-T6 ALUMINUM ALLOY
6			
7	---	ASSEMBLY SCREWS	#10X 1/2" FH TEK 410 SS SCREWS
8	---		
9	---	1/8-1.25X1.75" DOOR MULL FILLER	FORMED 6063-T5 ALUMINUM ALLOY
9.1	---	1/8-1.0X1.75" DOOR MULL FILLER	FORMED 6063-T5 ALUMINUM ALLOY
10	---	MALE END CAP	0.09" ALUMINUM
11	---	FEMALE END CAP	0.09" ALUMINUM
12	---	1/4"X3/8" GLAZING TAPE	TREMCO STRUCTURAL POLYURETHANE TAPE
13	---	GLAZING GASKET	TR-211785 TREMCO SILICONE ±70 SHORE A HARDNESS
14	---	SETTING BLOCK - LEVEL D	1 1/4 X 3/4 X 3" SETTING BLOCKS
15	---	SETTING BLOCK - LEVEL E	1 1/4 X 1/2 X 3" SETTING BLOCKS
16	---	ANCHORS	VARIES WITH APPLICATION
17	---	SHIMS	SOLID PLASTIC SHIMS
18	---	ASSEMBLY SCREWS	#12X 1 1/2" HWH TEK 410 SS SCREWS
19	---	STRUCTURAL SILICONE	TREMCO 99G STRUCTURAL SILICONE
20	---	PERIMETER SEALANT	TREMCO SPECTRUM II SILICONE
21	---	MULLION STEEL REINFORCEMENT	1 3/4X3 1/4" STEEL CHANNEL
22	---	TRANSOM STEEL REINFORCEMENT	1/2 X 5 1/2" STEEL CHANNEL
23	---	JAMB CLOSURE	0.04" ALUMINUM FORMED METAL
24	---	JAMB CLOSURE	0.04" ALUMINUM FORMED METAL



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