

TYPICAL ELEVATIONS

FRONT SET PLUS ALUMINUM WINDOW WALL SYSTEM

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY. ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

INSTRUCTIONS: USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND PRESSURE REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3** CHECK MULLION DESIGN LOAD CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 3 THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USING CHARTS ON SHEET 2 SELECT ANCHOR OPTION WITH DESIGN LOAD CAPACITY MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.
- STEP 6** FOR UNANCHORED JAMBS, USING SHEET 5, DETERMINE THE MIN. & MAX. GAP DIMENSIONS.

SINGLE 'O' PANEL:

FRAME WIDTH = D.L.O. WIDTH + 4.50"
FRAME HEIGHT = D.L.O. HEIGHT + 4.50"

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

Sealed: 6/17/2025

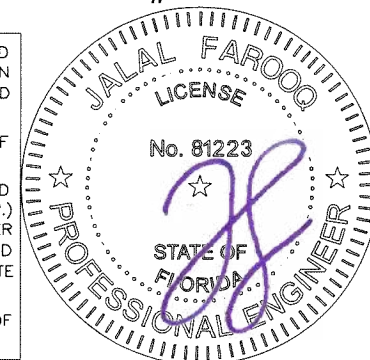
FL #47571

A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.

B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



FRONT SET PLUS ALUMINUM WINDOW WALL SYS. (L.M.I.)

Aldora Aluminum & Glass Products Inc.

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revisions:

no date by description

date: 05-23-25

scale: 1/2"=1'-0"

dr. by: TARIQ

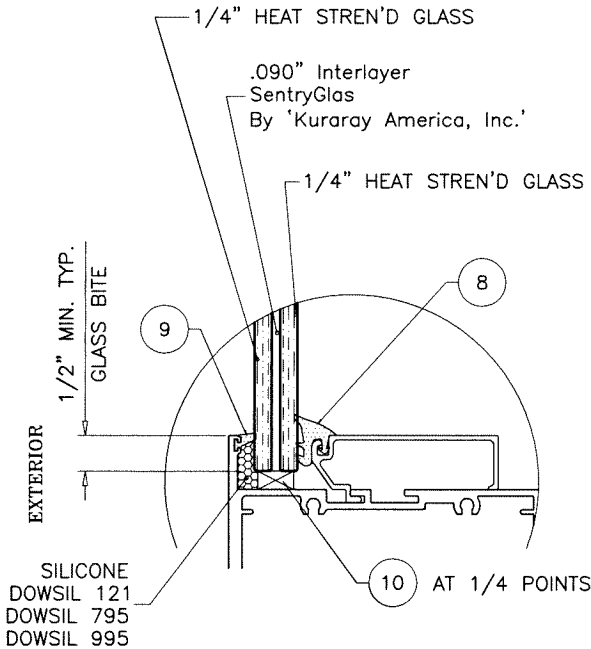
chk. by:

drawing no. 25-56F

sheet 1 of 8

GLASS LOAD CAPACITY - PSF			
NOMINAL DIMS.		9/16" LAM. GLASS	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)	INT.(-)
56-3/4"	115-1/2"	65.0	65.0
62-3/4"		65.0	65.0
68-3/4"		65.0	65.0
72-3/4"		65.0	65.0
80-3/4"		58.6	58.6
86-3/4"		54.5	54.5
92-3/4"		51.0	51.0
98-3/4"		47.9	47.9
56-3/4"	127-1/2"	65.0	65.0
62-3/4"		65.0	65.0
68-3/4"		65.0	65.0
72-3/4"		65.0	65.0
80-3/4"		58.6	58.6
86-3/4"		54.5	54.5
92-3/4"		51.0	51.0
56-3/4"	139-1/2"	65.0	65.0
62-3/4"		65.0	65.0
68-3/4"		65.0	65.0
72-3/4"		65.0	65.0
80-3/4"		58.6	58.6
56-3/4"	163-1/2"	65.0	65.0
62-3/4"		65.0	65.0
68-3/4"		65.0	65.0
72-3/4"		65.0	65.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



GLASS

9/16" OVERALL LAM. GLASS

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS).

MULLION ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)				
NOMINAL DIMS.		ANCHORS	ANCHORS	ANCHORS
WIDTH (W)	FRAME HEIGHT	TYPE 'A'	TYPE 'B'	TYPE 'C'
60"	120"	65.0	65.0	65.0
66"		65.0	65.0	65.0
72"		65.0	65.0	65.0
76"		65.0	65.0	65.0
60"	132"	65.0	65.0	65.0
66"		65.0	65.0	65.0
72"		63.0	65.0	65.0
76"		59.7	65.0	65.0
60"	144"	65.0	65.0	65.0
66"		63.0	65.0	65.0
72"		57.8	63.3	65.0
76"		54.7	60.0	65.0
60"	156"	64.0	65.0	65.0
66"		58.2	63.8	65.0
72"		53.3	58.5	65.0
76"		50.5	55.4	65.0
60"	168"	59.4	65.0	65.0
66"		54.0	59.2	65.0
72"		49.5	54.3	65.0
76"		46.9	51.4	65.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'- 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
WITH 1-1/2" MIN. PENETRATION INTO WOOD
THRU 1BY WOOD BUCKS INTO CONCRETE OR BLOCKS
WITH 1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
WITH 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE OR BLOCKS
WITH 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
WITH 1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

ANCHOR EDGE DISTANCES
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.

TYPE 'B'- 5/16" DIA ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
INTO WOOD STRUCTURES
WITH 1-3/4" MIN. PENETRATION INTO WOOD
THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE OR BLOCKS
WITH 1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
WITH 1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)
5/16" DIA ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE OR BLOCKS
WITH 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
WITH 1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

ANCHOR EDGE DISTANCES
INTO CONCRETE AND BLOCKS = 2-3/16" MIN.
INTO WOOD STRUCTURE = 1-1/2" MIN.

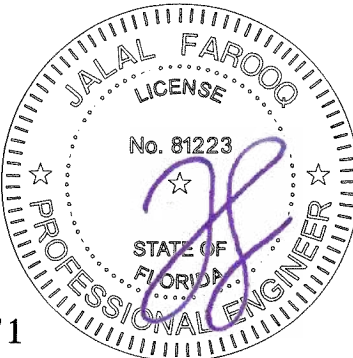
TYPE 'C'- #14 SELF DRILLING SCREWS ST/ST (GRADE 5 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES
INTO METAL STRUCTURE = 1/2" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

WOOD BUCKS AND METAL STRUCTURE NOT BY 'ALDORA'
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

ANCHORS



Sealed: 6/17/2025

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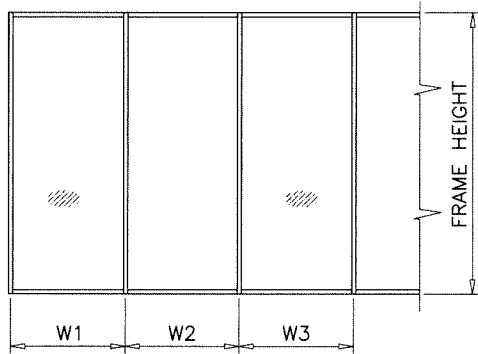
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chk. by:
drawing no.
25-56F
sheet 2 of 8

DESIGN LOAD CAPACITY - PSF WITHOUT INTERMEDIATE HORIZONTALS							
NOMINAL DIMS.		JAMB 'J1'		MULLION 'M1'		MULLION 'M2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
60"	120"	65.0	65.0	65.0	65.0	65.0	65.0
66"		65.0	65.0	65.0	65.0	65.0	65.0
72"		65.0	65.0	65.0	65.0	65.0	65.0
76"		65.0	65.0	65.0	65.0	65.0	65.0
84"		65.0	65.0	65.0	65.0	65.0	65.0
90"		65.0	65.0	65.0	65.0	65.0	65.0
96"		65.0	65.0	65.0	65.0	65.0	65.0
102"		65.0	65.0	65.0	65.0	65.0	65.0
60"	132"	65.0	65.0	65.0	65.0	65.0	65.0
66"		65.0	65.0	65.0	65.0	65.0	65.0
72"		65.0	65.0	65.0	65.0	65.0	65.0
76"		62.7	62.7	65.0	65.0	65.0	65.0
84"		58.3	58.3	65.0	65.0	65.0	65.0
90"		55.7	55.7	65.0	65.0	65.0	65.0
96"		53.6	53.6	65.0	65.0	65.0	65.0
60"	144"	63.0	63.0	65.0	65.0	65.0	65.0
66"		58.0	58.0	65.0	65.0	65.0	65.0
72"		53.9	53.9	65.0	65.0	65.0	65.0
76"		51.6	51.6	65.0	65.0	65.0	65.0
84"		47.8	47.8	64.7	64.7	65.0	65.0
60"	156"	49.3	49.3	65.0	65.0	65.0	65.0
66"		45.4	45.4	60.4	60.4	65.0	65.0
72"		42.2	42.2	56.2	56.2	65.0	65.0
76"		40.4	40.4	53.8	53.8	65.0	65.0
60"	168"	39.8	39.8	53.0	53.0	65.0	65.0
66"		36.6	36.6	48.7	48.7	61.1	61.1
72"		34.0	34.0	45.2	45.2	56.7	56.7
76"		32.5	32.5	43.2	43.2	54.2	54.2

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



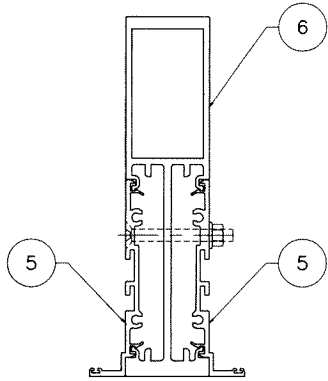
WIDTH (W) = W1
AT FRAME JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION

NOTE:
FOR ANCHORED JAMBS
SEE NOTES ON SHEET 1

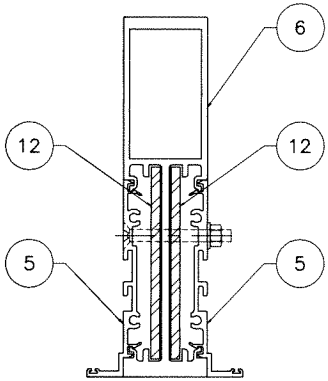
JAMB 'J1'

	I _x IN ⁴	S _x IN ³
ALUMINUM	4.027	1.789
STEEL	1.57	.785
TOTAL I _x ALUM + I _x STL X 2.9	7.167	



MULLION 'M1'

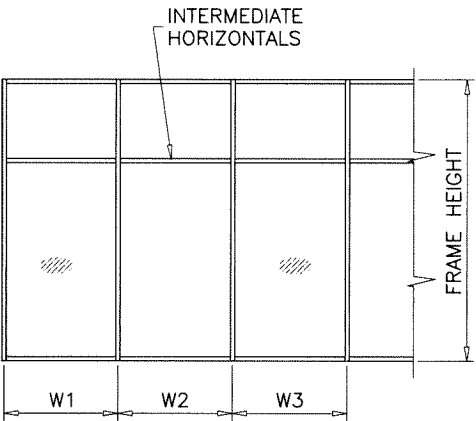
I _x IN ⁴	S _x IN ³
22.736	6.433



	I _x IN ⁴	S _x IN ³
ALUMINUM	22.736	6.433
STEEL	2.0	1.0
TOTAL I _x ALUM + I _x STL X 2.9	28.536	

DESIGN LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS							
NOMINAL DIMS.		JAMB 'J1'		MULLION 'M1'		MULLION 'M2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
60"	120"	65.0	65.0	65.0	65.0	65.0	65.0
66"		65.0	65.0	65.0	65.0	65.0	65.0
72"		65.0	65.0	65.0	65.0	65.0	65.0
76"		65.0	65.0	65.0	65.0	65.0	65.0
60"	132"	65.0	65.0	65.0	65.0	65.0	65.0
66"		64.3	64.3	65.0	65.0	65.0	65.0
72"		59.0	59.0	65.0	65.0	65.0	65.0
76"		55.9	55.9	65.0	65.0	65.0	65.0
60"	144"	59.1	59.1	65.0	65.0	65.0	65.0
66"		53.7	53.7	65.0	65.0	65.0	65.0
72"		49.3	49.3	65.0	65.0	65.0	65.0
76"		46.7	46.7	62.2	62.2	65.0	65.0
60"	156"	46.5	46.5	61.9	61.9	65.0	65.0
66"		42.3	42.3	56.3	56.3	65.0	65.0
72"		38.8	38.8	51.6	51.6	64.7	64.7
76"		36.7	36.7	48.9	48.9	61.2	61.2
60"	168"	37.9	37.9	50.5	50.5	63.2	63.2
66"		34.5	34.5	45.9	45.9	57.5	57.5
72"		31.6	31.6	42.1	42.1	52.7	52.7
76"		29.9	29.9	39.9	39.9	49.9	49.9

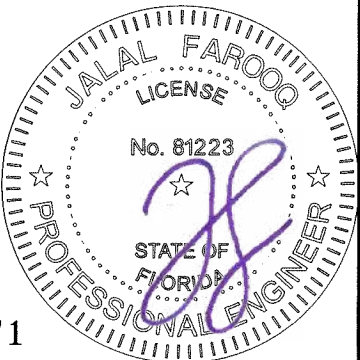
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



WIDTH (W) = W1
AT FRAME JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION

JAMB & MULLIONS



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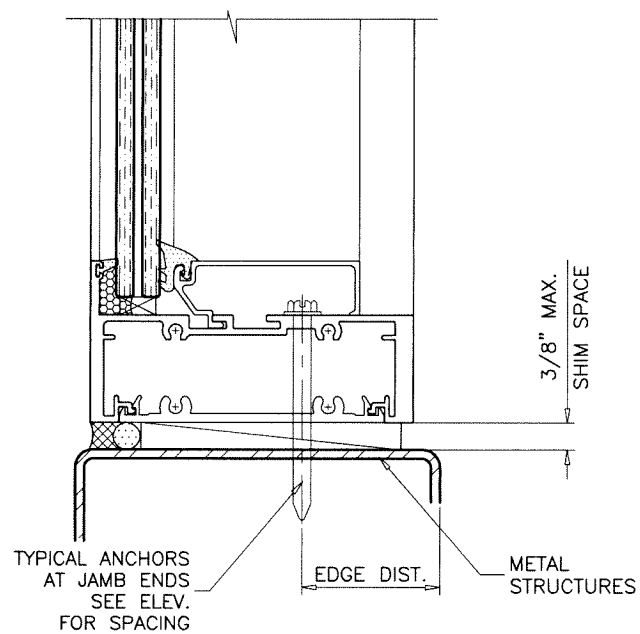
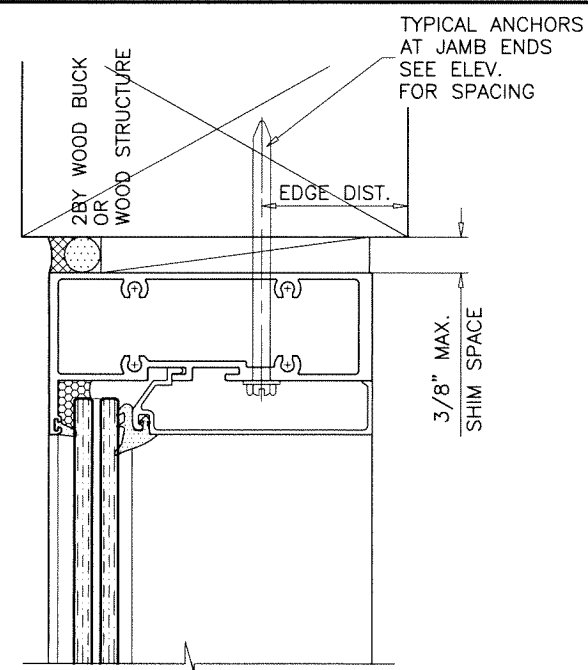
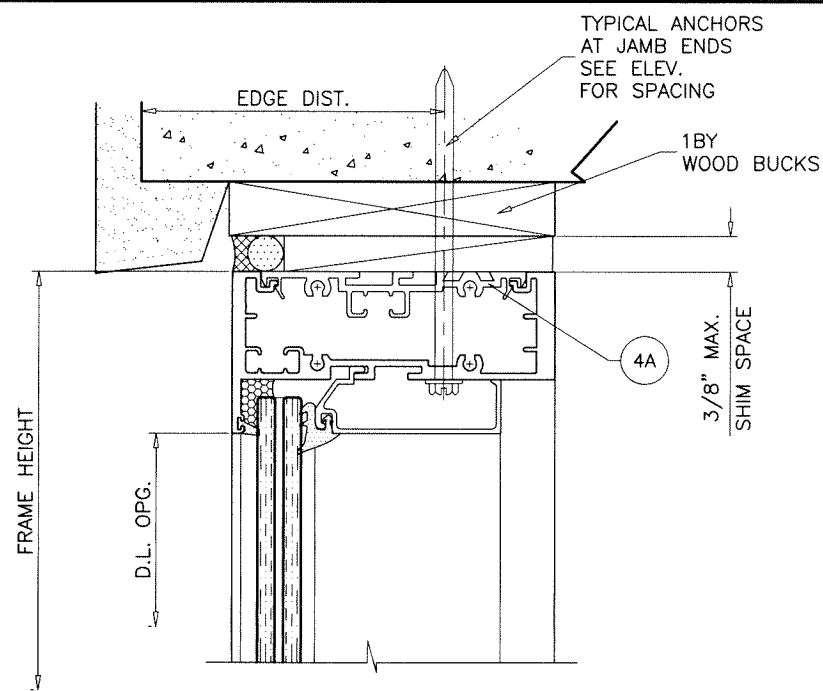
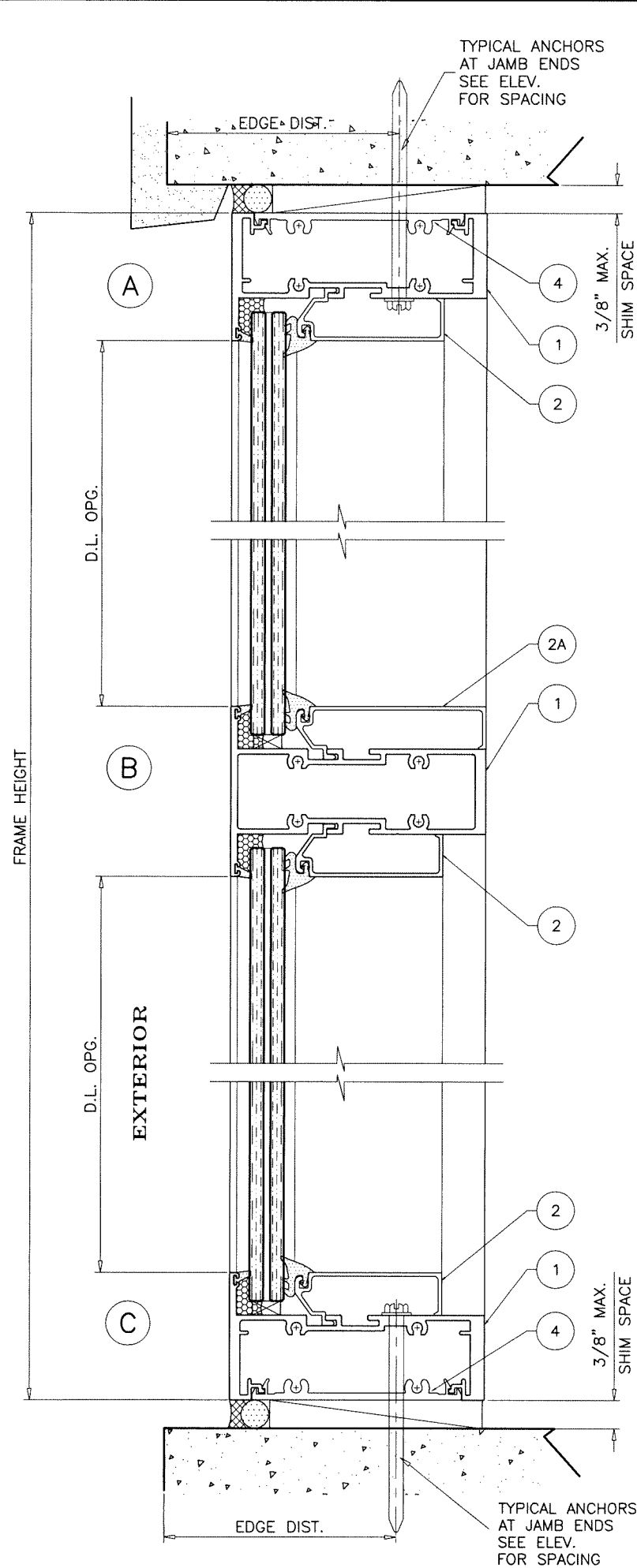
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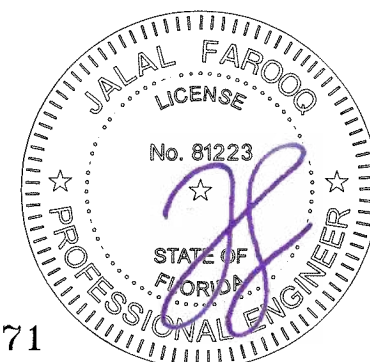
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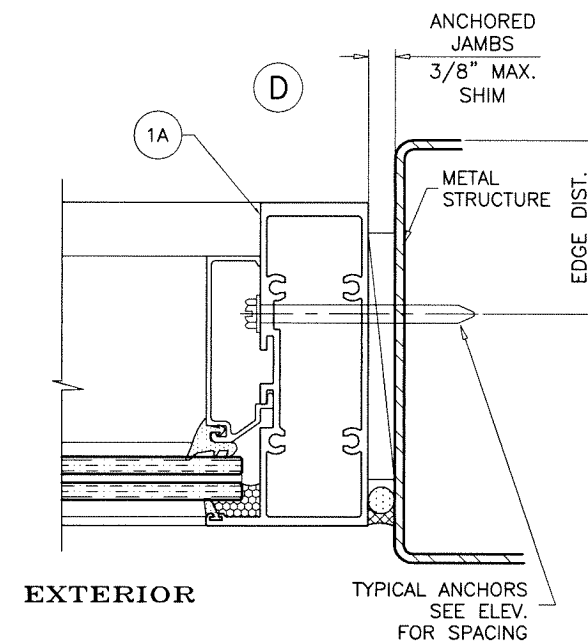
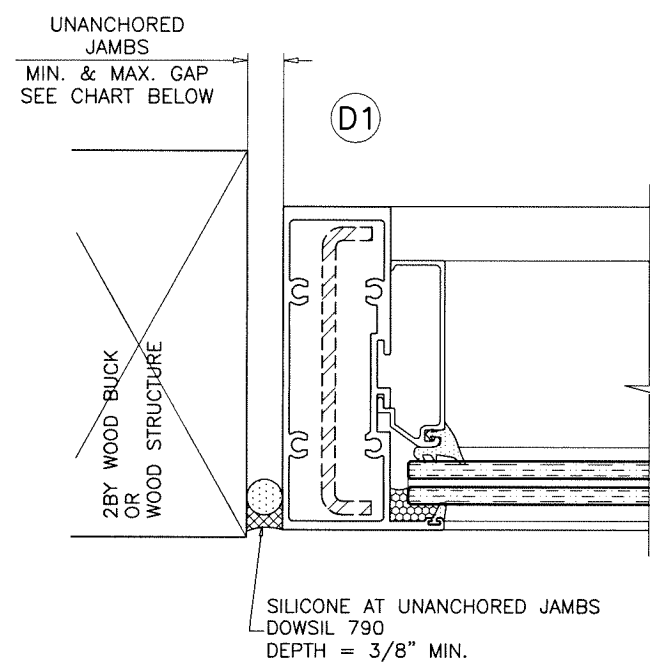
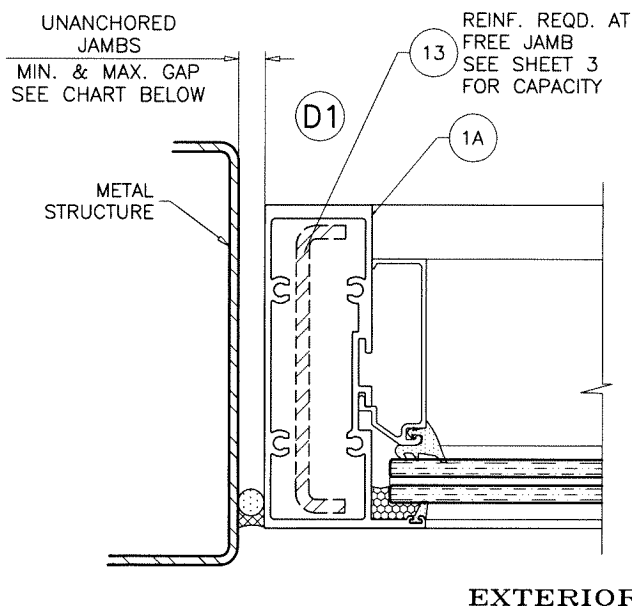
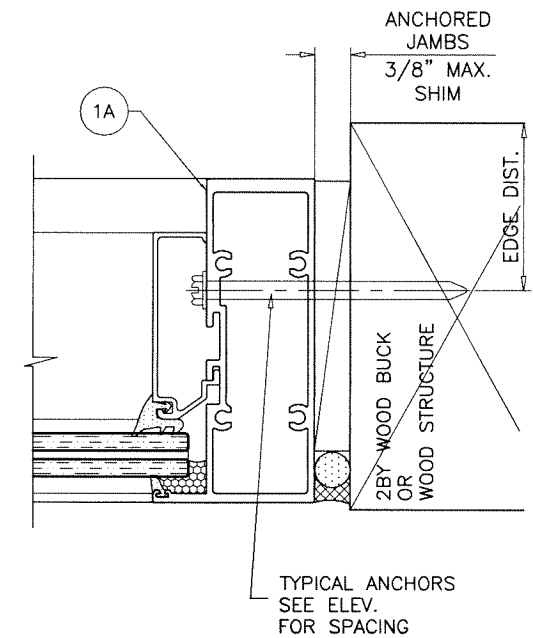
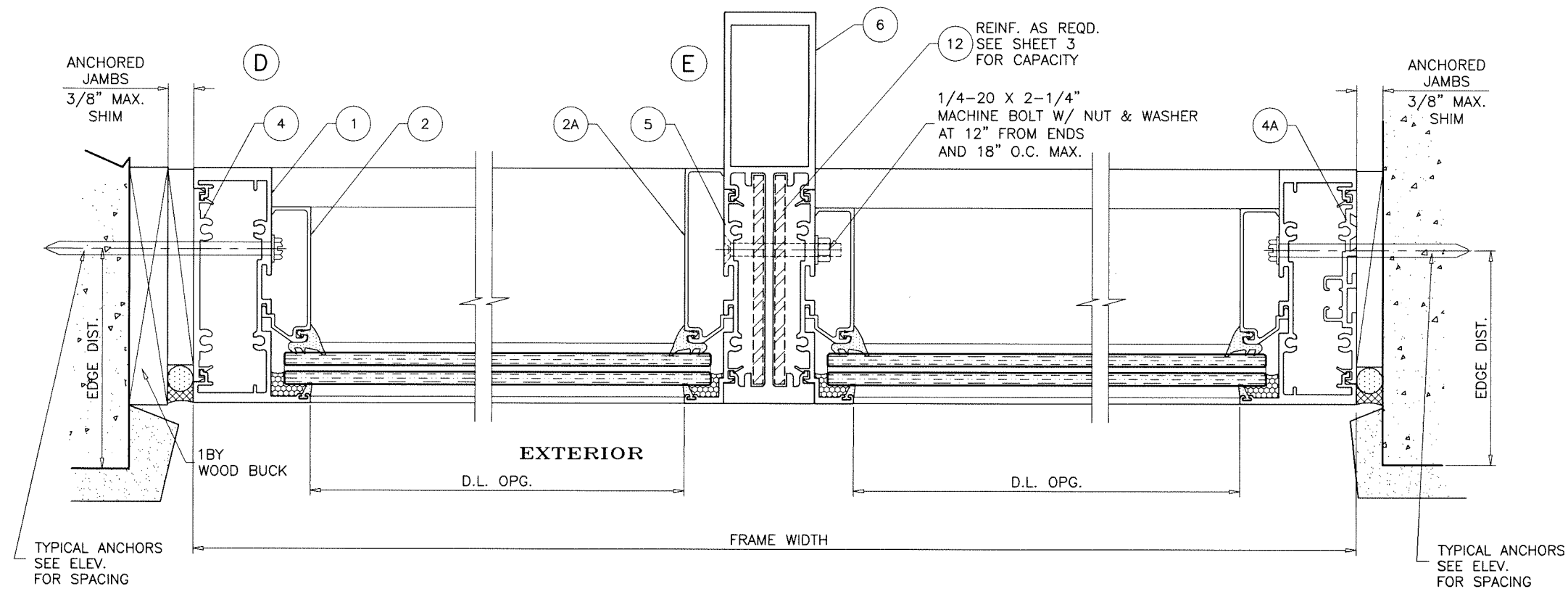
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 sheet 4 of 8



MAX. FRAME HEIGHT	MAX. GAPS FOR UNANCHORED JAMBS	
	MIN.	MAX.
120"	5/8"	1"
132"	11/16"	1"
144"	3/4"	1"
156"	13/16"	1"
168"	7/8"	1"

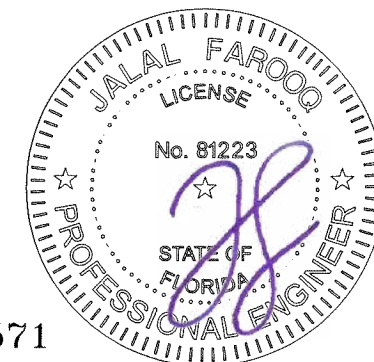
NOTE:
 MAX. MOVEMENT CONSIDERED=100% STRETCH.
 PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOWALL MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.
 REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.

ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.

GAPS LESS THAN 1/4" MAY BE DESIGNED BY ENGINEER OF RECORD BY THE USE OF BOND BREAKER TAPE OR 15% OF GAP ALLOWED MOVEMENT.

REFER TO SHEETS 4 THRU 7 FOR SELECTION OF MULLION/JAMB WITH REINFORCED & UNREINFORCED FRAMES.

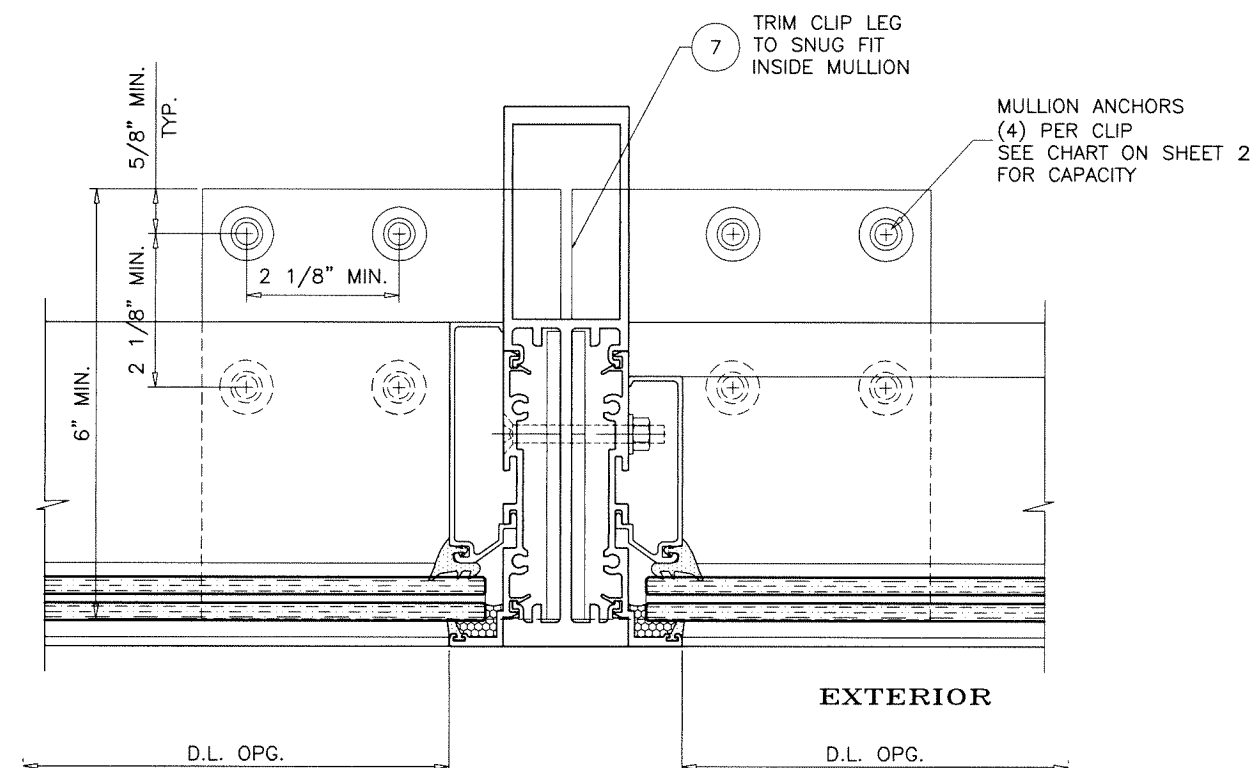
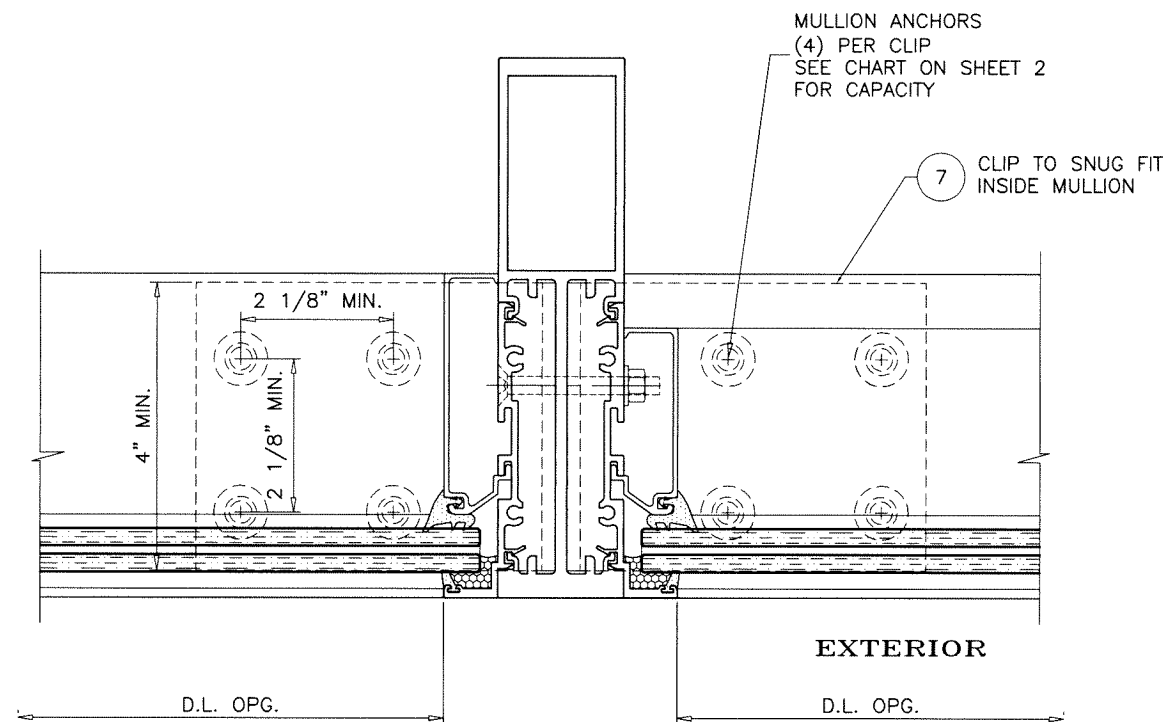
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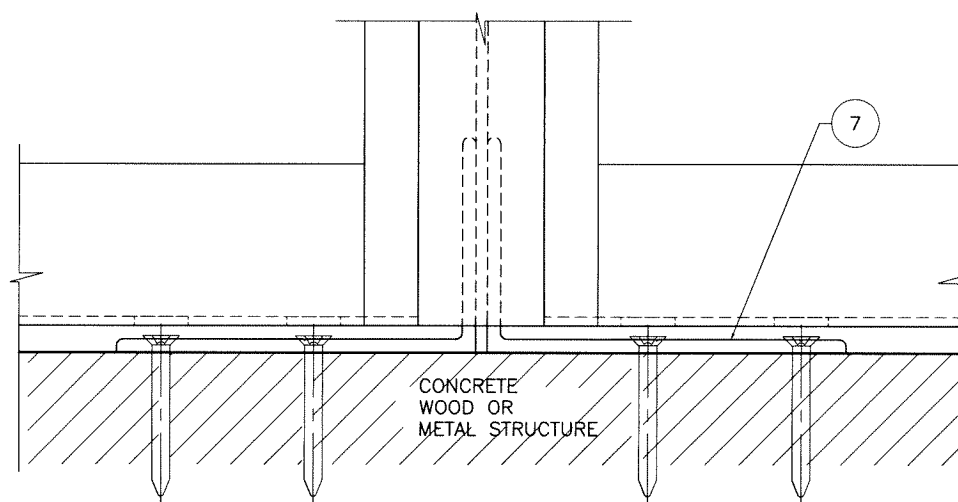
FRONT SET PLUS ALUMINUM WINDOW WALL SYS. (L.M.I.)
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 4250 Coral Ridge Drive, Suite 101
 Coral Springs, FL 33065
 Tel. (954) 784-6900 Fax. (954) 784-6901

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 COMP-ANL\25-56FAGP

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sheet 5 of 8	

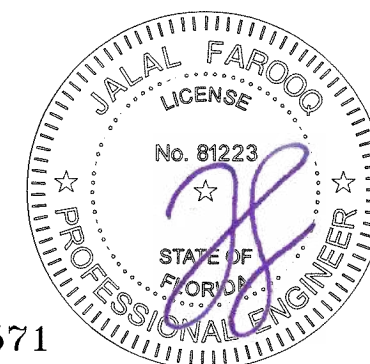


OFFSET ANCHOR CLIPS OPTION



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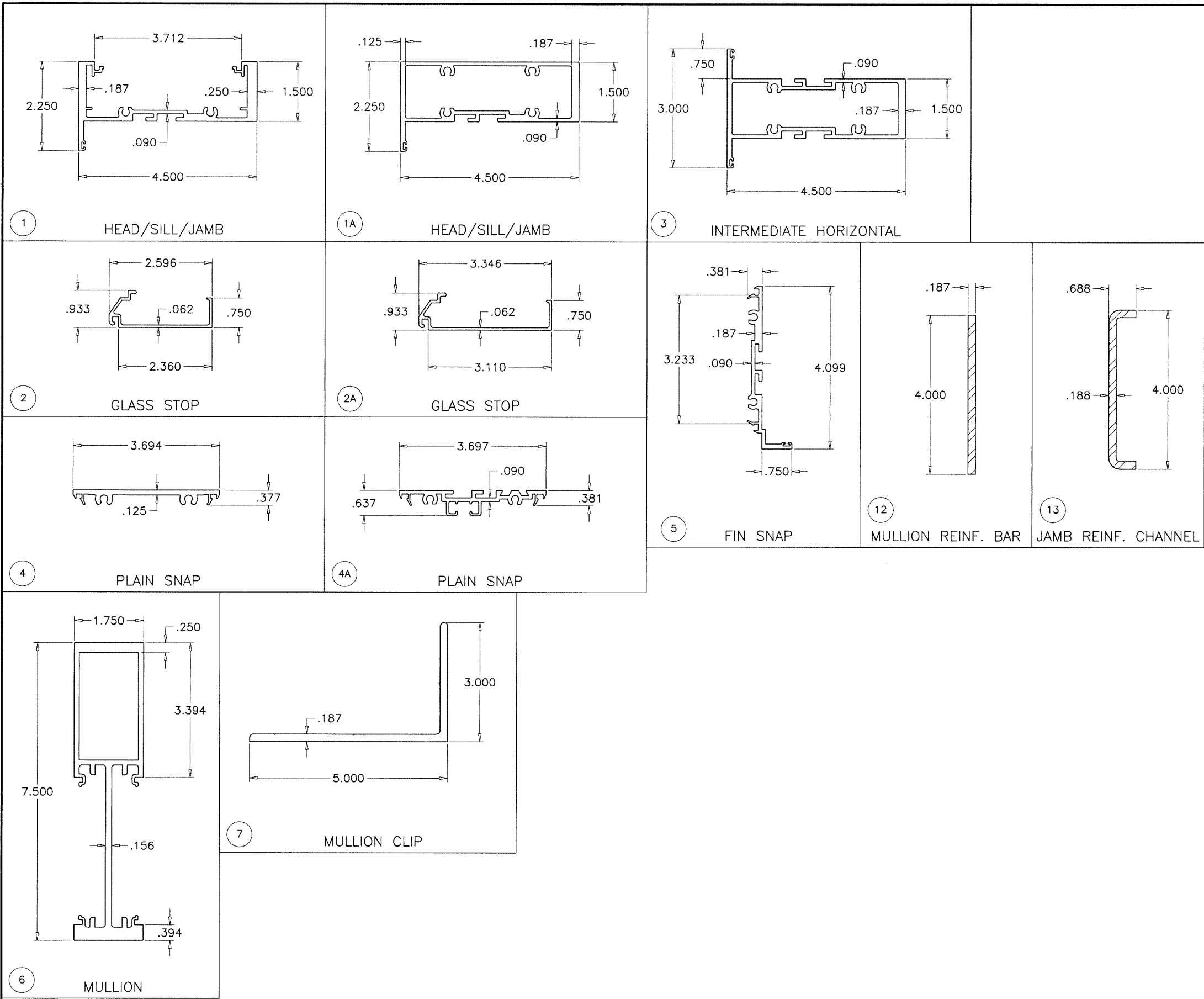
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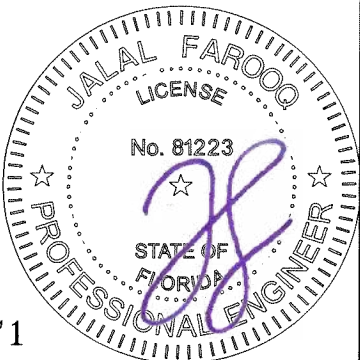
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sheet 6 of 8



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FL #47571



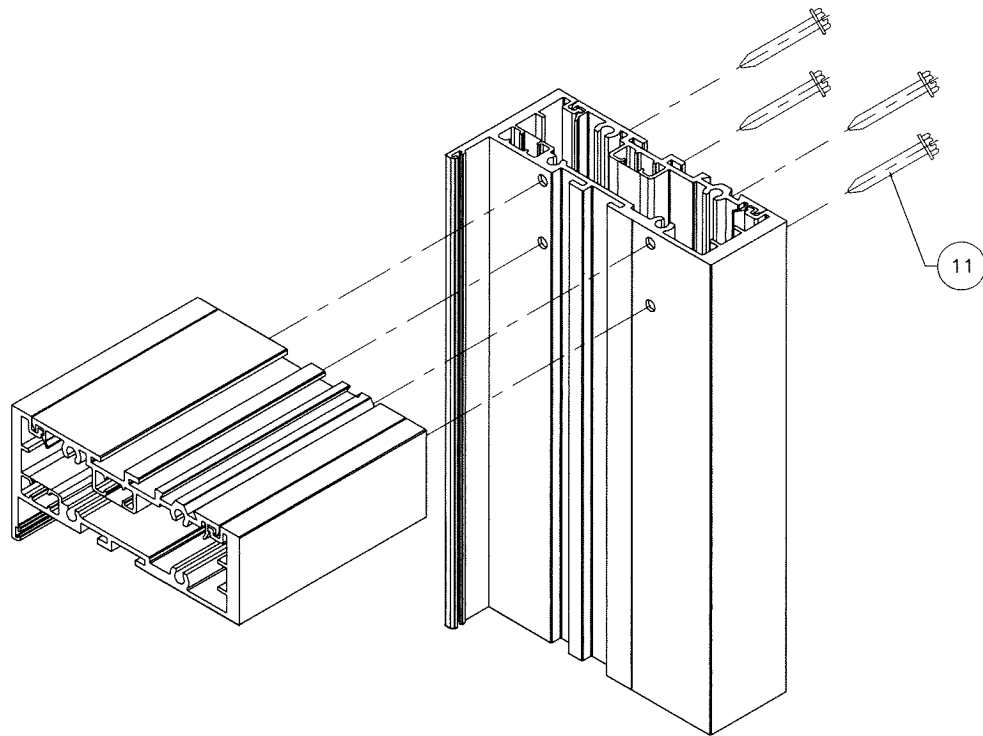
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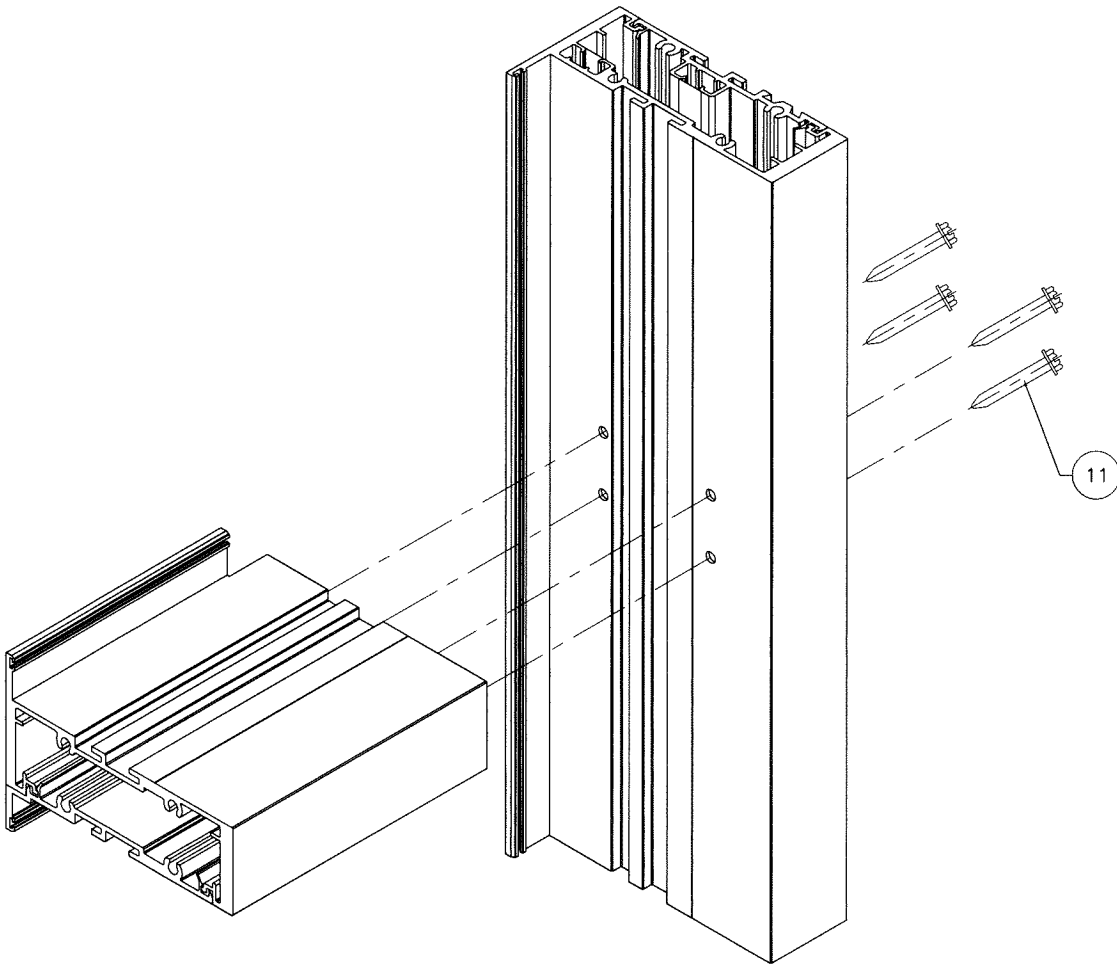
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25-56F
 sheet 7 of 8



FRAME TOP/BOTTOM CORNERS

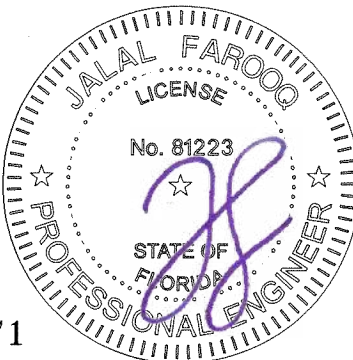


INTERMEDIATE HORIZONTAL CORNERS

ITEM #	PART #	REQ'D	DESCRIPTION	MATERIAL	MANF. / SUPPLIER / REMARKS
1	SMI-316	AS REQ'D	HEAD, SILL, JAMB	6063-T6	-
1A	SMI-318	AS REQ'D	HEAD, SILL, JAMB	6063-T6	-
2	SMI-312	AS REQ'D	GLASS STOP	6063-T6	-
2A	SMI-314	AS REQ'D	GLASS STOP (LARGER)	6063-T6	-
3	SMI-319	AS REQ'D	INTERMEDIATE HORIZONTAL	6063-T6	-
4	SMI-094	AS REQ'D	PLAIN SNAP	6063-T6	-
4A	SMI-004	AS REQ'D	PLAIN SNAP	6063-T6	-
5	SMI-317	AS REQ'D	FIN SNAP	6063-T6	-
6	SMI-MM004	AS REQ'D	MULLION	6005-T5	-
7	SMI-MM005	AS REQ'D	MULLION CLIP	6063-T6	-
8	SMI-G01	AS REQ'D	GASKET (AT INTERIOR)	EPDM	TREMCO
9	SMI-G13B	AS REQ'D	SPACER / RETAINER OUTER GASKET	SANTOPRENE	MELTPPOINT PLASTICS INTERNATIONAL.
10	SMI-SB03	2 PER GL.	SETTING BLOCKS (1/4" X 5/8" X 4" LG.)	EPDM	TREMCO, DUROMETER 80±5 SHORE A
11	#12 X 1 1/2"	4/CORNER	FRAME ASSEMBLY SCREWS	ST. STEEL	HEX. HEAD MACHINE SCREW
12	3/16" X 4"	AS REQD.	REINFORCING BAR (LENGTH = FRAME HT. - 6")	STEEL	A36, Fu MIN. = 58 KSI
13	-	AS REQD.	JAMB REINF. CHANNEL (LENGTH = FRAME HT. - 6")	STEEL	A36, Fu MIN. = 58 KSI

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