

FALSE MUNTINS  
(SURFACE APPLIED)  
MAY BE USED

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.  
SHUTTERS ARE NOT REQUIRED.

**SERIES 200 ALUMINUM FIXED WINDOW**

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF FIXED/FIXED OR FIXED WITH OTHER F.B.C. APPR'D WINDOWS USING F.B.C. APPROVED MULLIONS IN BETWEEN.

LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

DESIGN LOAD RATING FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION)/2020 (7TH 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.

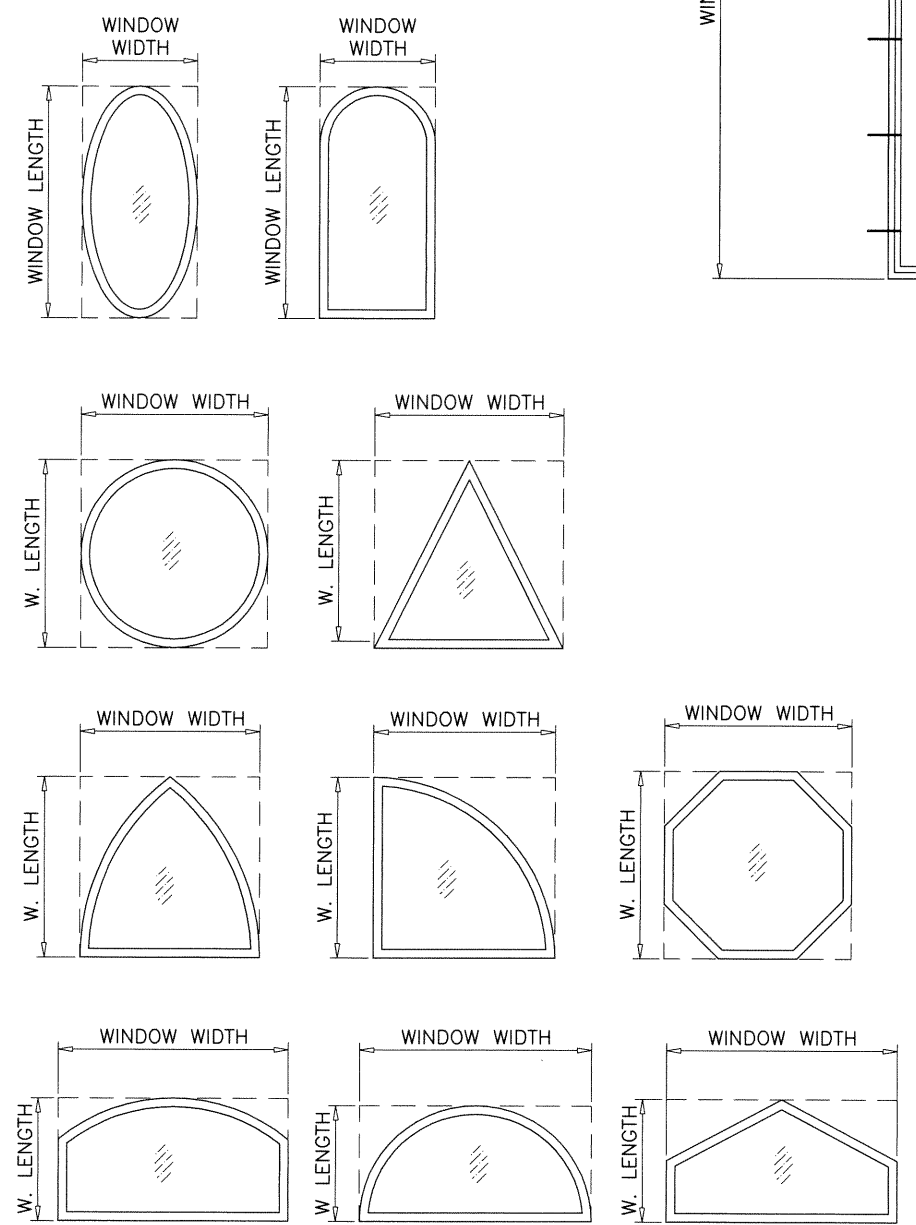
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017/2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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.

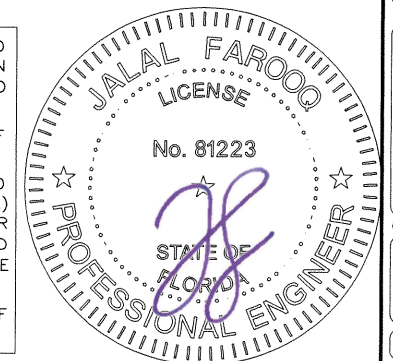
**TYPICAL ELEVATION**



ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.

Sealed: 10/19/2020 FL #21878

- 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.



**af c**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173 (C.A.N. 3538)  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL\W15-54YO

SERIES 200 ALUMINUM FIXED WINDOW (L.M.I.)  
**Assura Windows & Doors, LLC.**  
 1543 N. Powerline Road  
 Pompano Beach, Fl. 33069  
 Tel. (305) 887-2646 Fax. (-)

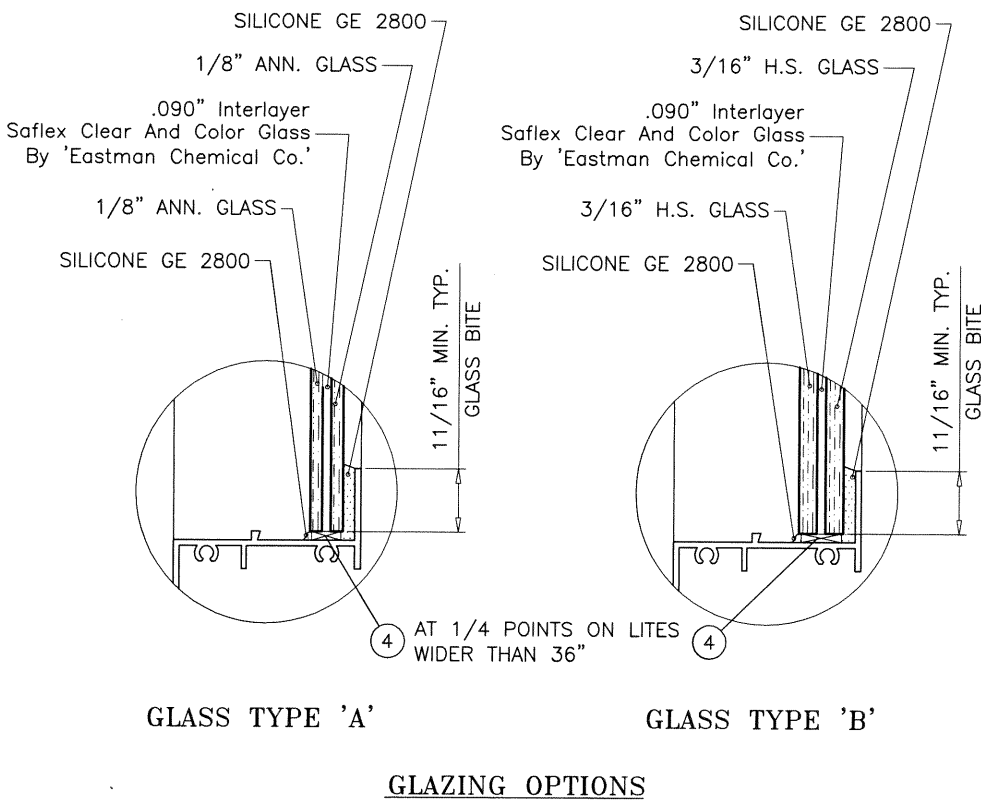
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A	02.08.17	MANUF. NAME	REV.
B	10.09.17		UPDATED TO 2017 FBC
C	09.23.20		UPDATED TO 2020 FBC

date:	08-22-15
scale:	1/2"=1'-0"
dr. by:	TARIQ
chk. by:	

drawing no.  
**W15-54**  
 sheet 1 of 5

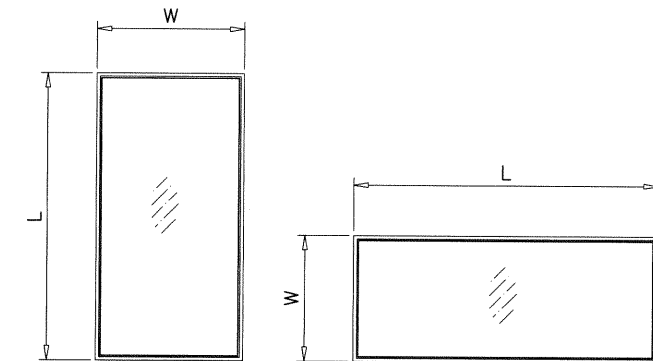
DESIGN LOAD CAPACITY - PSF							
WINDOW DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'			
		ANCHORS TYPE 'A'		ANCHORS TYPE 'A'		ANCHORS TYPE 'B'	
WIDTH	LENGTH	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
19-1/8"	26"	70.0	70.0	65.0	65.0	65.0	65.0
26-1/2"		70.0	70.0	65.0	65.0	65.0	65.0
37"		70.0	70.0	65.0	65.0	65.0	65.0
53-1/8"		70.0	70.0	65.0	65.0	65.0	65.0
19-1/8"	38-3/8"	70.0	70.0	65.0	65.0	65.0	65.0
26-1/2"		70.0	70.0	65.0	65.0	65.0	65.0
37"		63.7	63.7	65.0	65.0	65.0	65.0
53-1/8"		61.5	61.5	65.0	65.0	65.0	65.0
19-1/8"	59"	70.0	70.0	65.0	65.0	65.0	65.0
26-1/2"		70.0	70.0	65.0	65.0	65.0	65.0
37"		63.7	63.7	65.0	65.0	65.0	65.0
53-1/8"		-	-	60.2	60.2	65.0	65.0
19-1/8"	63"	70.0	70.0	65.0	65.0	65.0	65.0
26-1/2"		70.0	70.0	65.0	65.0	65.0	65.0
37"		60.7	60.7	65.0	65.0	65.0	65.0
53-1/8"		-	-	64.3	64.3	65.0	65.0
19-1/8"	74-1/4"	70.0	70.0	65.0	65.0	65.0	65.0
26-1/2"		69.8	69.8	65.0	65.0	65.0	65.0
37"		47.5	47.5	65.0	65.0	65.0	65.0
53-1/8"		-	-	57.3	57.3	65.0	65.0

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



DESIGN LOAD CAPACITY - PSF								
WINDOW DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'				
		ANCHORS TYPE 'A'		ANCHORS TYPE 'A'		ANCHORS TYPE 'B'		
WIDTH	LENGTH	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	
18"	24"	70.0	70.0	65.0	65.0	65.0	65.0	
24"		70.0	70.0	65.0	65.0	65.0	65.0	
30"		70.0	70.0	65.0	65.0	65.0	65.0	
36"		70.0	70.0	65.0	65.0	65.0	65.0	
42"		70.0	70.0	65.0	65.0	65.0	65.0	
48"		70.0	70.0	65.0	65.0	65.0	65.0	
54"		70.0	70.0	65.0	65.0	65.0	65.0	
60"		70.0	70.0	65.0	65.0	65.0	65.0	
66"		70.0	70.0	65.0	65.0	65.0	65.0	
72"		70.0	70.0	65.0	65.0	65.0	65.0	
18"		36"	70.0	70.0	65.0	65.0	65.0	65.0
24"			70.0	70.0	65.0	65.0	65.0	65.0
30"	70.0		70.0	65.0	65.0	65.0	65.0	
36"	65.5		65.5	65.0	65.0	65.0	65.0	
42"	65.5		65.5	65.0	65.0	65.0	65.0	
48"	65.5		65.5	65.0	65.0	65.0	65.0	
54"	65.5		65.5	65.0	65.0	65.0	65.0	
60"	65.5		65.5	65.0	65.0	65.0	65.0	
66"	58.4		58.4	65.0	65.0	65.0	65.0	
72"	49.7		49.7	64.0	64.0	65.0	65.0	
18"	48"		70.0	70.0	65.0	65.0	65.0	65.0
24"			70.0	70.0	65.0	65.0	65.0	65.0
30"		70.0	70.0	65.0	65.0	65.0	65.0	
36"		65.5	65.5	65.0	65.0	65.0	65.0	
42"		56.2	56.2	65.0	65.0	65.0	65.0	
48"		49.1	49.1	65.0	65.0	65.0	65.0	
54"		49.1	49.1	65.0	65.0	65.0	65.0	
60"		49.1	49.1	60.0	60.0	65.0	65.0	
66"		-	-	61.7	61.7	65.0	65.0	
72"		-	-	54.0	54.0	65.0	65.0	
18"		60"	70.0	70.0	65.0	65.0	65.0	65.0
24"			70.0	70.0	65.0	65.0	65.0	65.0
30"	70.0		70.0	65.0	65.0	65.0	65.0	
36"	65.5		65.5	65.0	65.0	65.0	65.0	
42"	56.2		56.2	63.3	63.3	65.0	65.0	
48"	49.1		49.1	60.0	60.0	65.0	65.0	
54"	-		-	58.2	58.2	65.0	65.0	
60"	-		-	57.6	57.6	60.4	60.4	
66"	-		-	57.6	57.6	60.4	60.4	
72"	-		-	49.4	49.4	60.4	60.4	
18"	72"		70.0	70.0	65.0	65.0	65.0	65.0
24"			70.0	70.0	65.0	65.0	65.0	65.0
30"		62.0	62.0	65.0	65.0	65.0	65.0	
36"		49.7	49.7	64.0	64.0	65.0	65.0	
42"		-	-	58.1	58.1	65.0	65.0	
48"		-	-	54.0	54.0	65.0	65.0	
54"		-	-	51.2	51.2	65.0	65.0	
60"		-	-	49.4	49.4	60.4	60.4	
18"		84"	70.0	70.0	65.0	65.0	65.0	65.0
24"			70.0	70.0	65.0	65.0	65.0	65.0
30"			50.9	50.9	65.0	65.0	65.0	65.0
36"			-	-	61.1	61.1	65.0	65.0
42"	-		-	54.9	54.9	65.0	65.0	
48"	-		-	50.4	50.4	65.0	65.0	
54"	-		-	47.2	47.2	65.0	65.0	

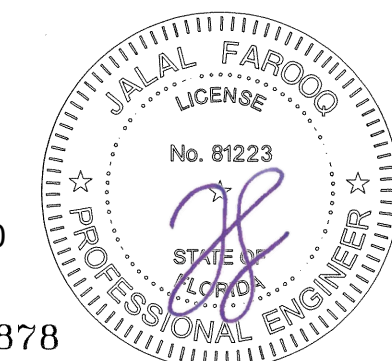
DESIGN LOAD CAPACITY - PSF							
WINDOW DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'			
		ANCHORS TYPE 'A'		ANCHORS TYPE 'A'		ANCHORS TYPE 'B'	
WIDTH	LENGTH	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
18"	96"	70.0	70.0	65.0	65.0	65.0	65.0
24"		66.8	66.8	65.0	65.0	65.0	65.0
30"		47.2	47.2	65.0	65.0	65.0	65.0
36"		-	-	59.1	59.1	65.0	65.0
42"		-	-	52.7	52.7	65.0	65.0
48"		-	-	48.0	48.0	65.0	65.0
18"	108"	70.0	70.0	65.0	65.0	65.0	65.0
24"		70.0	70.0	65.0	65.0	65.0	65.0
30"		-	-	65.0	65.0	65.0	65.0
36"		-	-	57.6	57.6	65.0	65.0
42"	-	-	51.1	51.1	65.0	65.0	
18"	114"	62.2	62.2	65.0	65.0	65.0	65.0
24"		62.2	62.2	65.0	65.0	65.0	65.0
30"		-	-	65.0	65.0	65.0	65.0
36"		-	-	60.0	60.0	65.0	65.0
18"	120"	55.6	55.6	65.0	65.0	65.0	65.0
24"		55.6	55.6	65.0	65.0	65.0	65.0
30"		-	-	65.0	65.0	65.0	65.0
36"		-	-	56.5	56.5	65.0	65.0
18"	132"	44.6	44.6	65.0	65.0	65.0	65.0
24"		-	-	65.0	65.0	65.0	65.0
30"		-	-	65.0	65.0	65.0	65.0
18"	144"	39.2	39.2	65.0	65.0	65.0	65.0
24"		-	-	65.0	65.0	65.0	65.0
30"		-	-	64.3	64.3	65.0	65.0



NOTE:  
WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED  
VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.

Sealed: 10/19/2020

FL #21878



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COMP - ANL \ W15-54YO

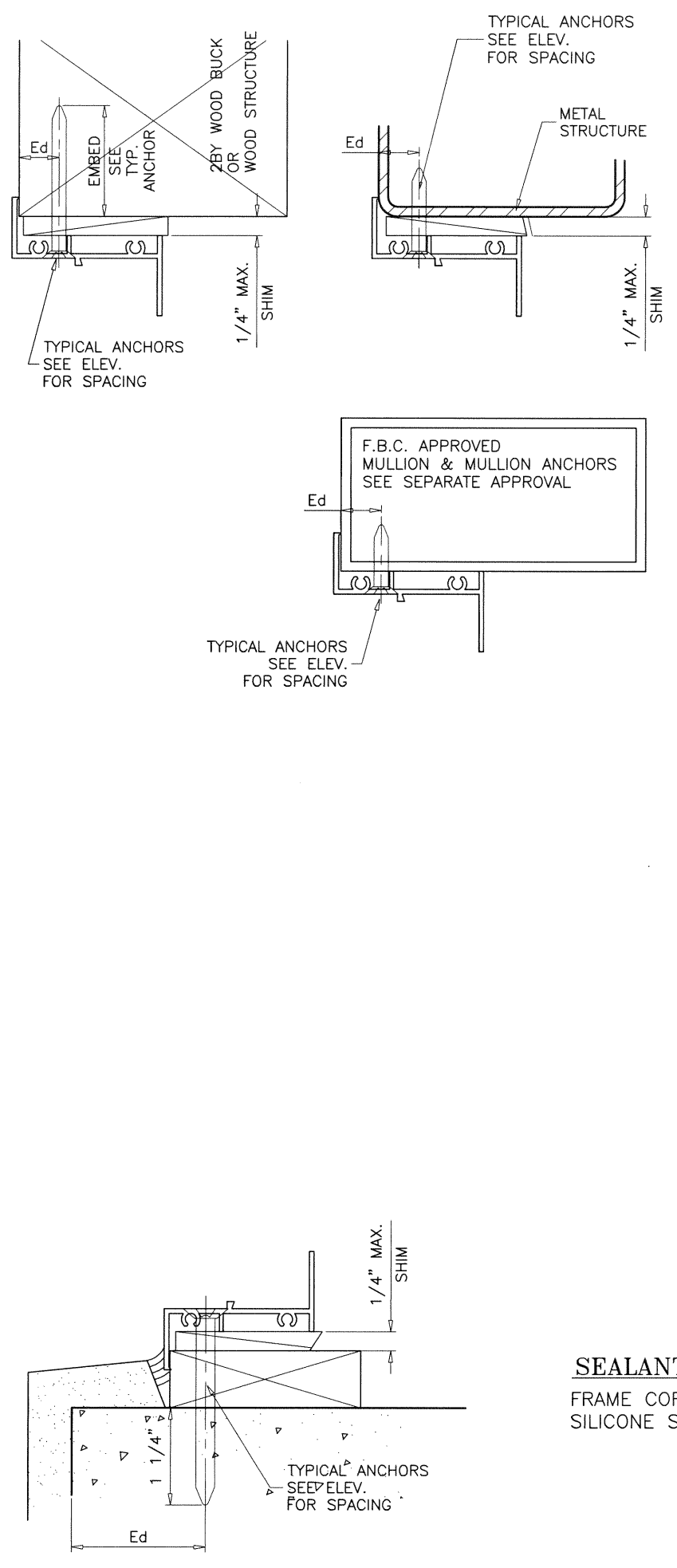
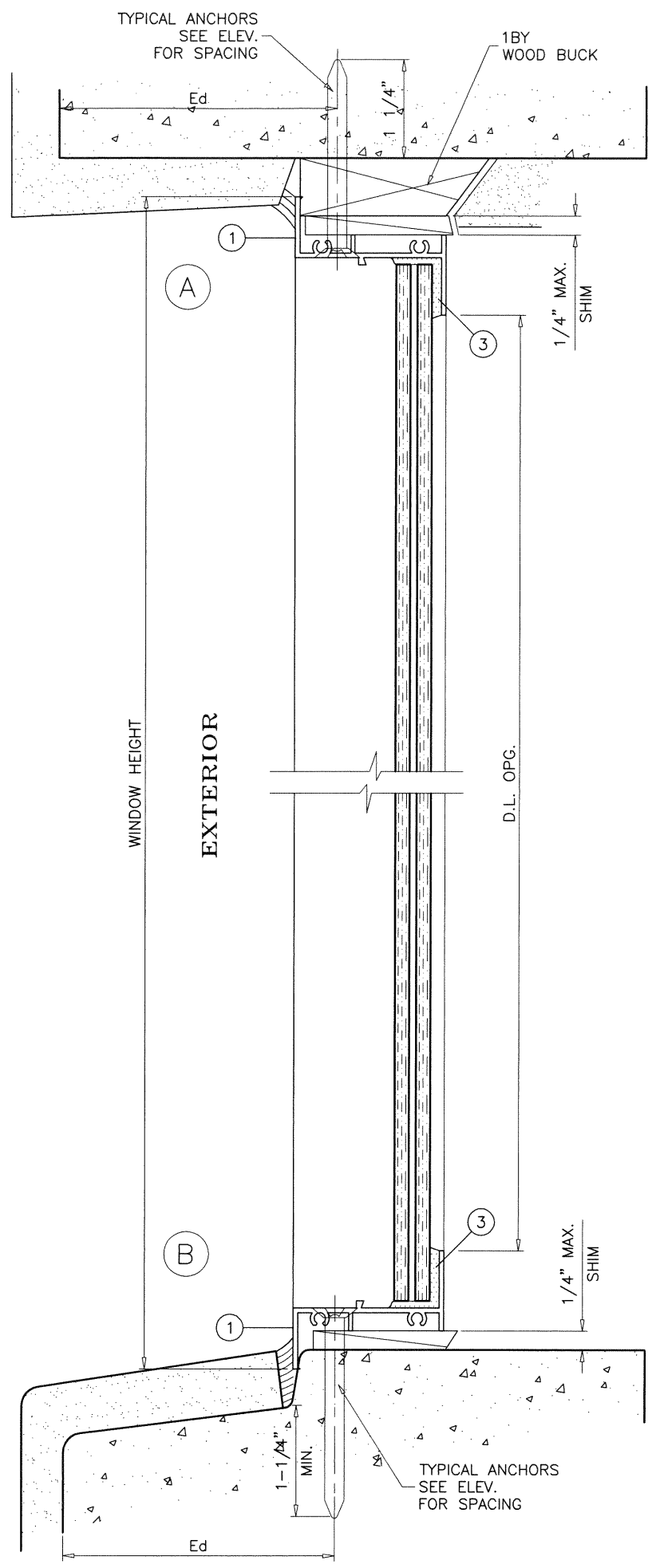
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Pompano Beach, Fl. 33069  
Tel. (305) 887-2646 Fax. (-)

SERIES 200 ALUMINUM FIXED WINDOW (L.M.I.)

no	date	by	description

date: 08-22-15  
scale: -  
dr. by: TARIQ  
chk. by: -

drawing no.  
**W15-54**  
sheet 2 of 5



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

**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

**TYPE 'A' - 3/16" DIA. ULTRACON+ BY 'DEWALT'** (Fu=164 KSI, Fy=117 KSI)  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
 1-1/8" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)  
 THRU 1BY BUCKS INTO CONC. OR BLOCKS  
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)  
 1-1/4" MIN. EMBED INTO CONC. OR BLOCKS (JAMBS)  
 DIRECTLY INTO CONC. OR BLOCKS  
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)  
 1-1/4" MIN. EMBED INTO CONC. OR BLOCKS (JAMBS)

**TYPE 'B' - 1/4" DIA. ULTRACON+ BY 'DEWALT'** (Fu=164 KSI, Fy=148 KSI)  
**1/4" DIA. TAPCON BY 'ITW'** (Fu=125 KSI, Fy=100 KSI)  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)  
 THRU 1BY BUCKS INTO CONC. OR BLOCKS  
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)  
 1-1/4" MIN. EMBED INTO CONC. OR BLOCKS (JAMBS)  
 DIRECTLY INTO CONC. OR BLOCKS  
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)  
 1-1/4" MIN. EMBED INTO CONC. OR BLOCKS (JAMBS)

**3/16" DIA. TEKS OR SELF DRILLING SCREWS** (GRADE 5 CRS)  
 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)

**#10 SMS OR SELF DRILLING SCREWS** (GRADE 2 CRS)  
 INTO F.B.C. APPROVED MULLIONS  
 (NO SHIM SPACE)  
 (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)

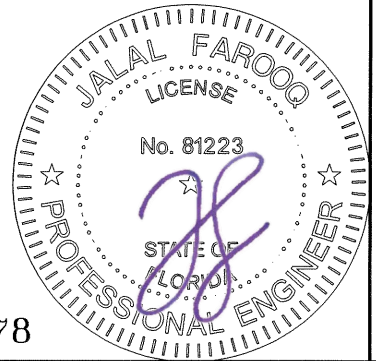
**Ed = ANCHOR EDGE DISTANCE**  
 INTO CONCRETE AND BLOCKS = 1-1/4" MIN.  
 INTO WOOD STRUCTURE = 9/16" MIN.  
 INTO METAL STRUCTURE = 1/2" MIN.

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.

**SEALANTS:**  
 FRAME CORNERS AND INSTALLATION SCREWS SEALED WITH SILICONE SEALANT.

Sealed: 10/19/2020

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**af c**  
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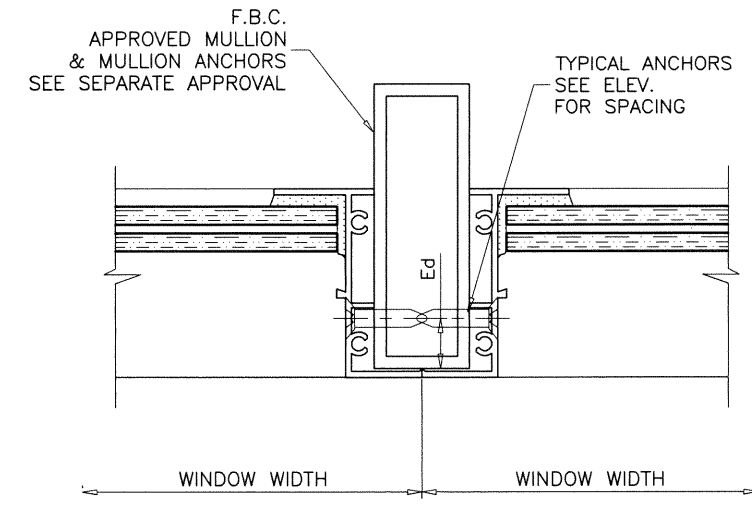
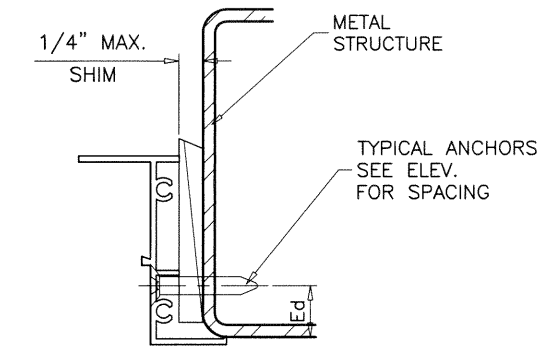
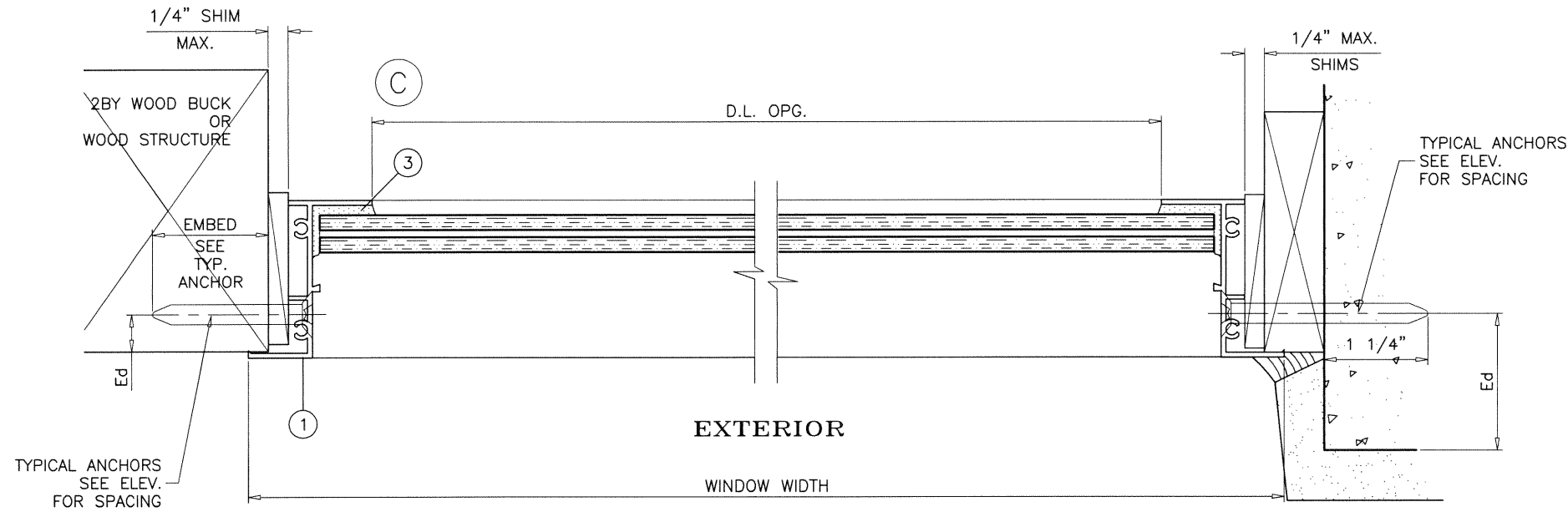
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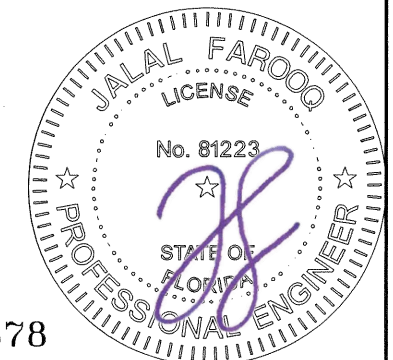
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 scale: 1/2" = 1"  
 dr. by: TARIQ  
 chk. by:  

drawing no.  
**W15-54**  
 sheet 3 of 5



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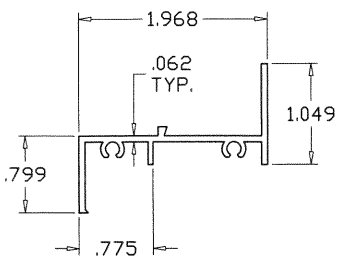
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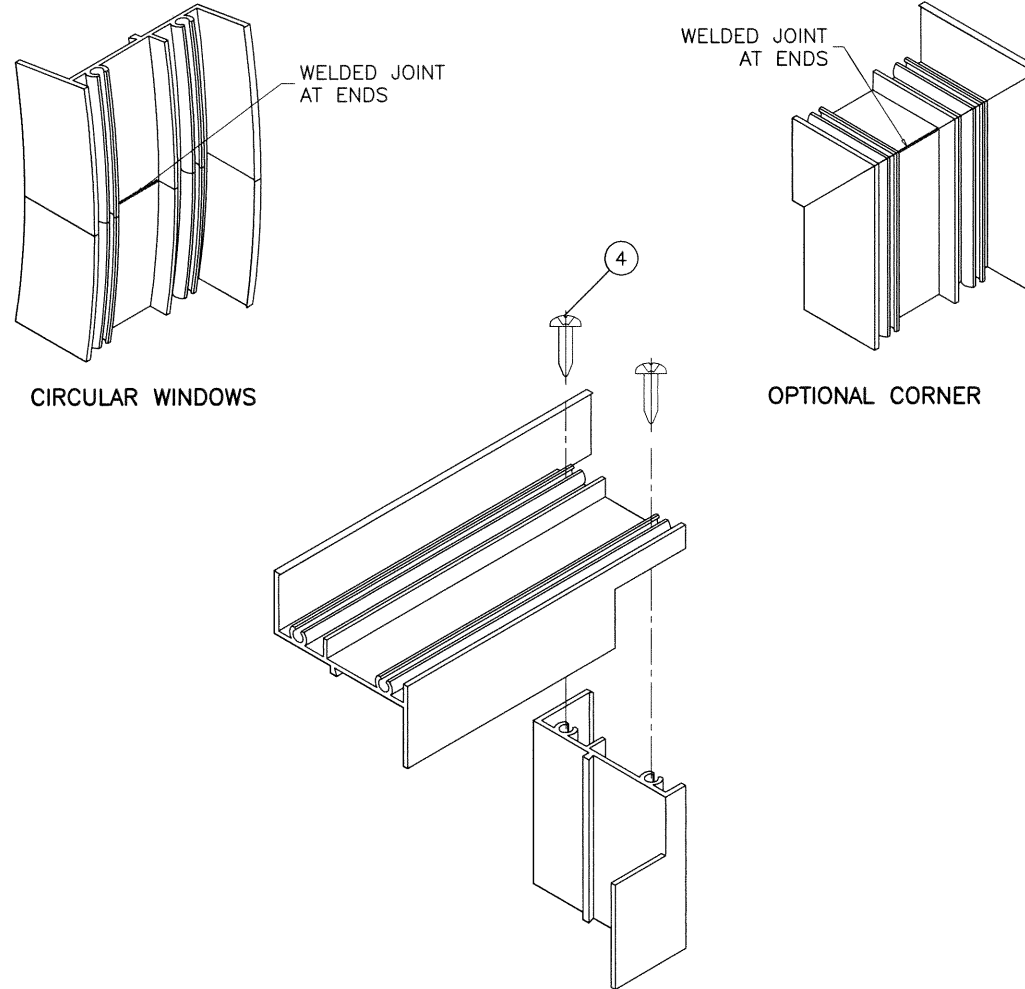
date: 08-22-15  
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 chk. by:

drawing no.  
**W15-54**  
 sheet 4 of 5



WINDOW FRAME

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPLIER/REMARKS
1	YE-60	4	WINDOW FRAME	ALUMINUM	6063-T6
3	-	AS REQD.	GLAZING COMPOUND	SILICONE	GE-2800
4	#8 X 1"	2/ CORNER	FRAME ASSEMBLY SCREWS	-	-
5	-	AS REQD.	SETTING BLOCKS	EPDM	DUROMETER 80±5 SHORE A



CIRCULAR WINDOWS

OPTIONAL CORNER

RECT. OR SQUARE WINDOWS

TYP. CORNER DETAILS

**af c**  
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