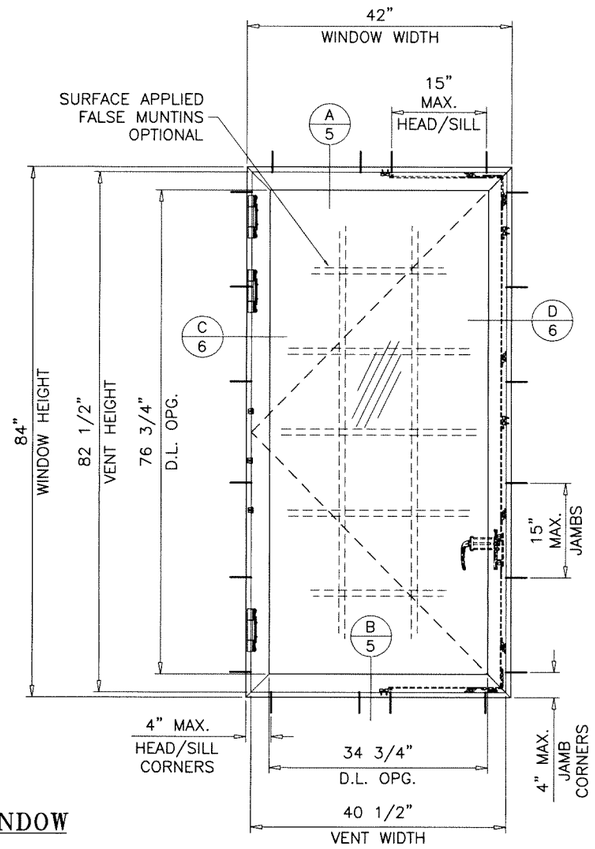
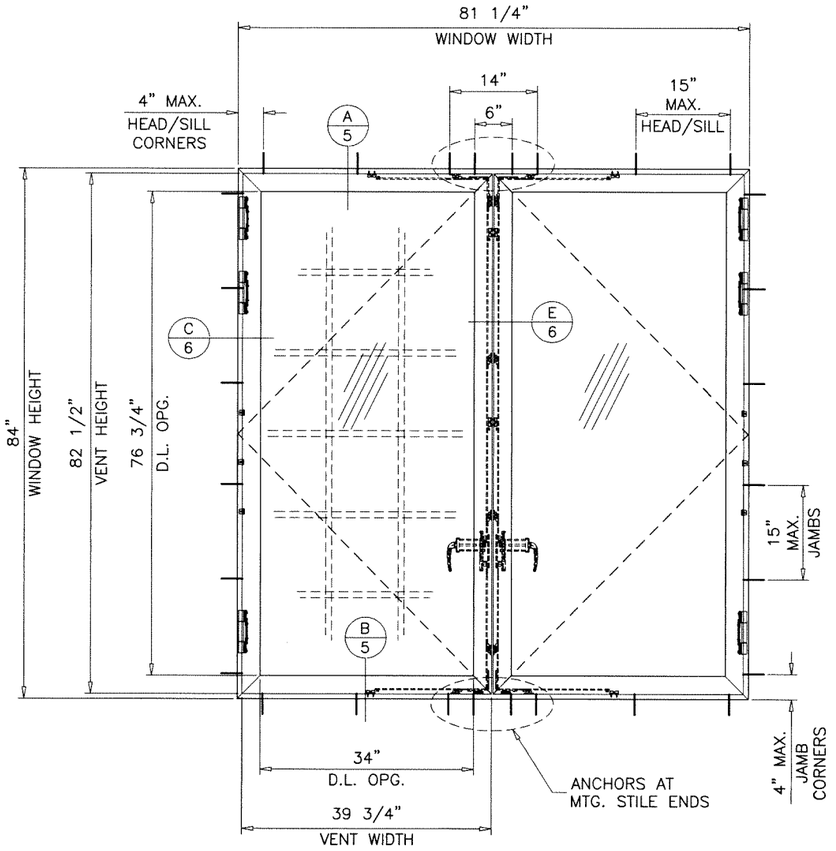


SINGLE VENT (X)



DUAL VENTS (XX)

TYPICAL ELEVATIONS

SERIES MILANO THERMAL ALUMINUM CASEMENT WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 3.

APPROVAL APPLIES TO SINGLE VENT(X) OR DUAL VENTS(XX) WINDOWS, ALSO SIDE BY SIDE COMBINATIONS OF CASMT./CASMT. OR CASEMENT/FIXED IN MODULES OF TWO OR MORE WINDOWS USING MULLIONS IN BETWEEN.

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.

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

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FL #47953

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.

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538

COMP-ANL\25-77F-KU

SERIES MILANO THERMAL ALUM CASEMENT WDW. (L.M.I.)

Korus USA
8615 N.W. 64th Street,
Miami, FL. 33166
Tel. (305) -

revisions:

no	date	by	description

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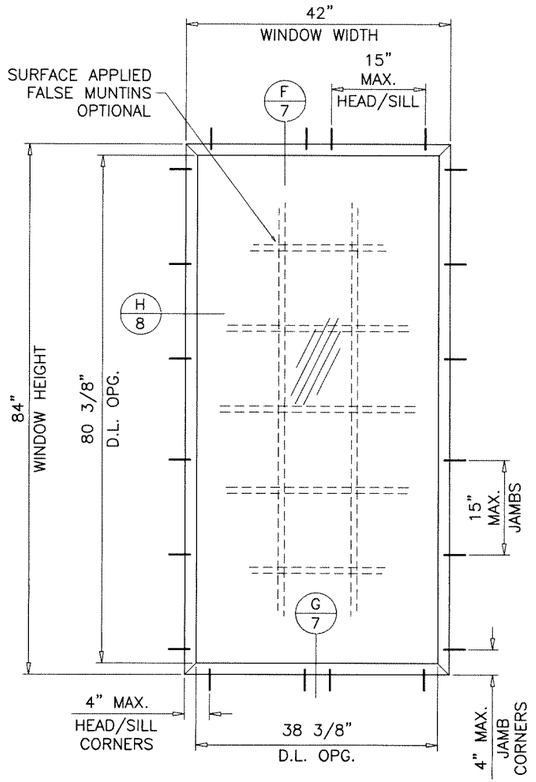
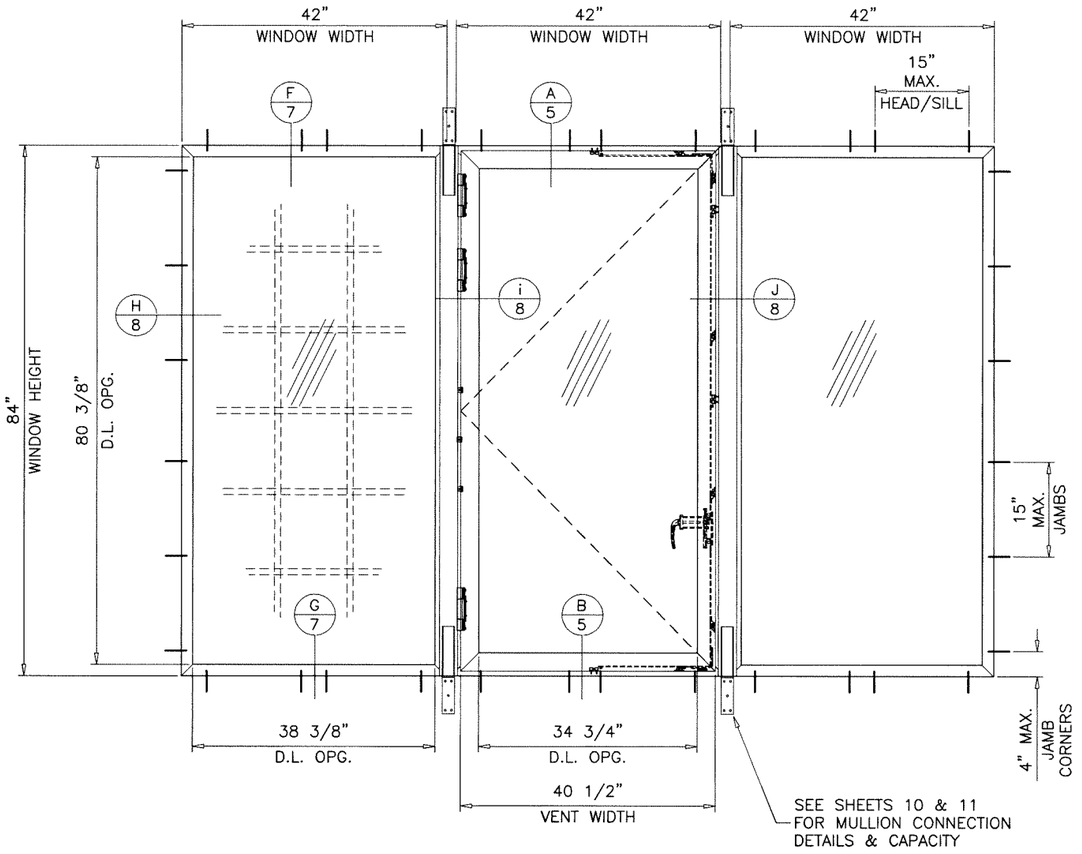
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no. 25-77F

sheet 1 of 12



FIXED (0)



(0-X-0)

TYPICAL ELEVATIONS

Sealed: 12/15/2025

JALAL FAROOQ
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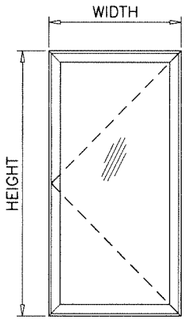
dr. by: TARIQ
chk. by:

drawing no. 25-77F

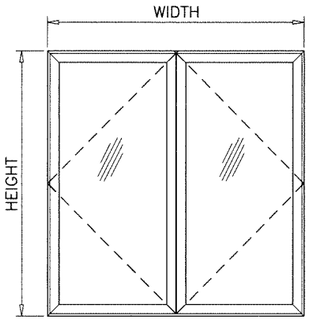
sheet 2 of 12

CASEMENT WDWS. (X SIZES) DESIGN LOAD CAPACITY – PSF			
FRAME DIMS.		GLASS TYPES 'A' & 'Ai'	
WIDTH	HEIGHT	EXT.(+)	INT.(–)
19–1/8"	38–3/8"	75.0	75.0
26–1/2"		75.0	75.0
37"		75.0	75.0
42"		75.0	75.0
19–1/8"	50–5/8"	75.0	75.0
26–1/2"		75.0	75.0
37"		75.0	75.0
42"		75.0	75.0
19–1/8"	63"	75.0	75.0
26–1/2"		75.0	75.0
37"		75.0	75.0
42"		75.0	75.0
19–1/8"	74"	75.0	75.0
26–1/2"		75.0	75.0
37"		75.0	75.0
42"		75.0	75.0
12"	60"	75.0	75.0
18"		75.0	75.0
24"		75.0	75.0
30"		75.0	75.0
38"		75.0	75.0
42"		75.0	75.0
12"	72"	75.0	75.0
18"		75.0	75.0
24"		75.0	75.0
30"		75.0	75.0
38"		75.0	75.0
42"		75.0	75.0
12"	84"	75.0	75.0
18"		75.0	75.0
24"		75.0	75.0
30"		75.0	75.0
38"		75.0	75.0
42"		75.0	75.0



SINGLE VENT (X)

CASEMENT WDWS. (XX SIZES) DESIGN LOAD CAPACITY – PSF			
FRAME DIMS.		GLASS TYPES 'A' & 'Ai'	
WIDTH	HEIGHT	EXT.(+)	INT.(–)
37"	26"	75.0	75.0
53–1/8"		75.0	75.0
74"		75.0	75.0
84"		75.0	75.0
37"	50–5/8"	75.0	75.0
53–1/8"		75.0	75.0
74"		75.0	75.0
84"		75.0	75.0
37"	63"	75.0	75.0
53–1/8"		75.0	75.0
74"		75.0	75.0
84"		75.0	75.0
37"	74"	75.0	75.0
53–1/8"		75.0	75.0
74"		75.0	75.0
84"		75.0	75.0
24"	60"	75.0	75.0
36"		75.0	75.0
48"		75.0	75.0
60"		75.0	75.0
76"		75.0	75.0
84"		75.0	75.0
24"	72"	75.0	75.0
36"		75.0	75.0
48"		75.0	75.0
60"		75.0	75.0
76"		75.0	75.0
84"		75.0	75.0
24"	84"	75.0	75.0
36"		75.0	75.0
48"		75.0	75.0
60"		75.0	75.0
76"		75.0	75.0
81–1/4"		75.0	75.0



DUAL VENTS (XX)

FIXED WDWS. (O) DESIGN LOAD CAPACITY – PSF			
FRAME DIMS.		GLASS TYPES 'A' & 'Ai'	
WIDTH	HEIGHT	EXT.(+)	INT.(–)
19–1/8"	38–3/8"	75.0	75.0
26–1/2"		75.0	75.0
37"		75.0	75.0
42"		75.0	75.0
19–1/8"	50–5/8"	75.0	75.0
26–1/2"		75.0	75.0
37"		75.0	75.0
42"		75.0	75.0
19–1/8"	63"	75.0	75.0
26–1/2"		75.0	75.0
37"		75.0	75.0
42"		75.0	75.0
19–1/8"	74"	75.0	75.0
26–1/2"		75.0	75.0
37"		75.0	75.0
42"		75.0	75.0
12"	60"	75.0	75.0
18"		75.0	75.0
24"		75.0	75.0
30"		75.0	75.0
38"		75.0	75.0
42"		75.0	75.0
12"	72"	75.0	75.0
18"		75.0	75.0
24"		75.0	75.0
30"		75.0	75.0
38"		75.0	75.0
42"		75.0	75.0
12"	84"	75.0	75.0
18"		75.0	75.0
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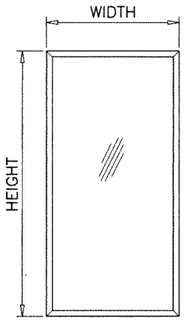
30"		75.0	75.0
38"		75.0	75.0
42"		75.0	75.0



FIXED (O)

NOTE:
GLASS CAPACITIES ARE BASED ON
ASTM E1300–09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05–DEC–219

Sealed: 12/15/2025

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revisions:

no	date	by	description

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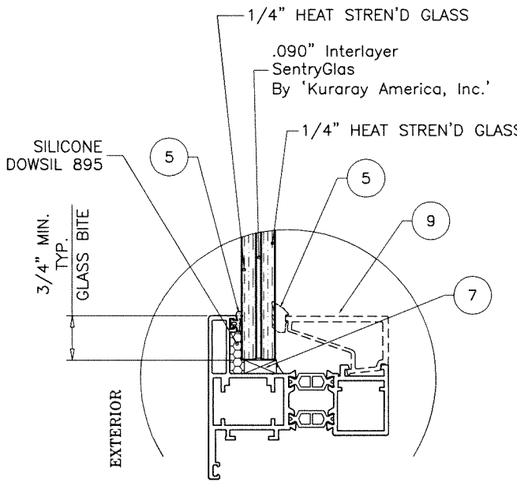
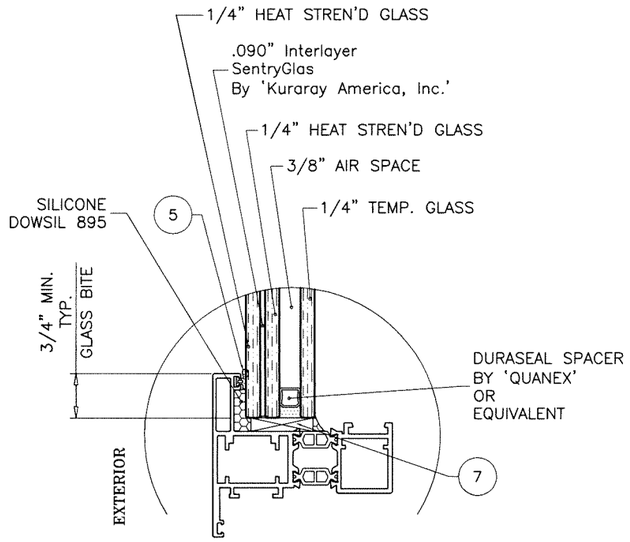
scale: –
dr. by: TARIQ
chk. by:

drawing no. 25–77F



GLASS TYPE 'A'

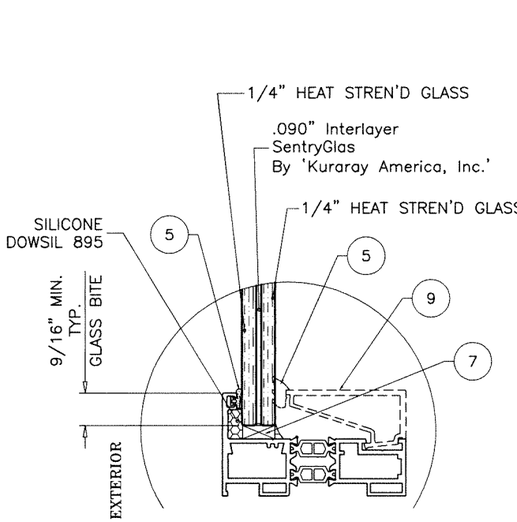
9/16" OVERALL LAM. GLASS



GLASS TYPE 'Ai'

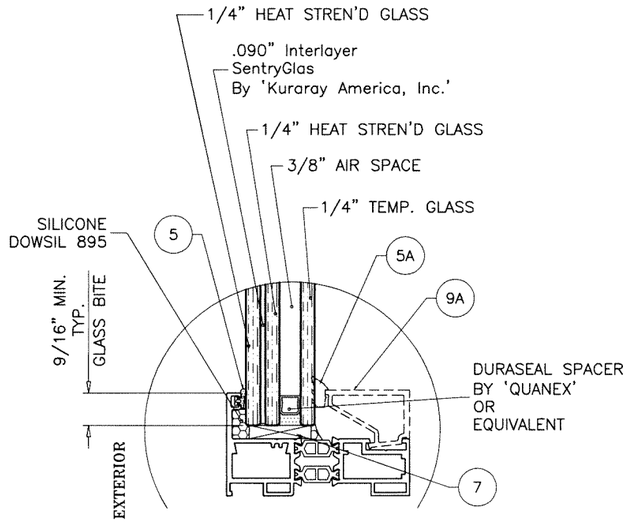
1-1/8" OVERALL LAM. INSUL. GLASS

GLAZING DETAILS (CASEMENT)



GLASS TYPE 'A'

9/16" OVERALL LAM. GLASS



GLASS TYPE 'Ai'

1-1/8" OVERALL LAM. INSUL. GLASS

GLAZING DETAILS (FIXED)

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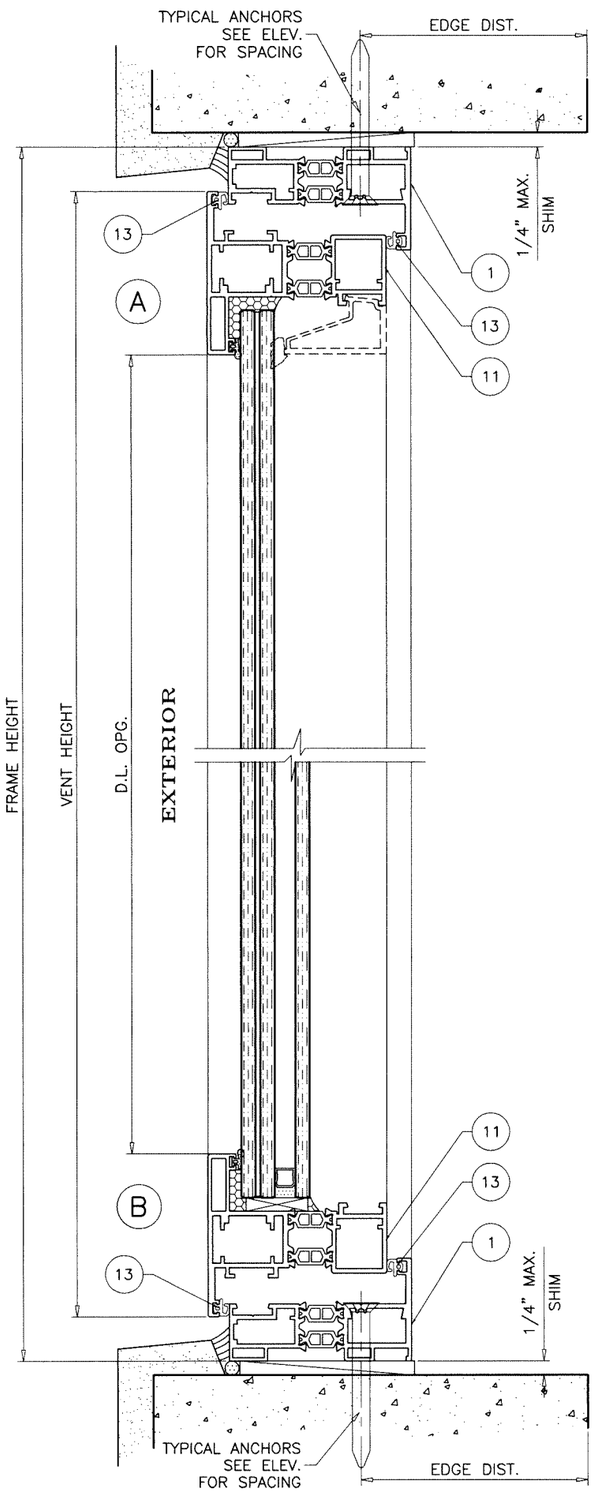

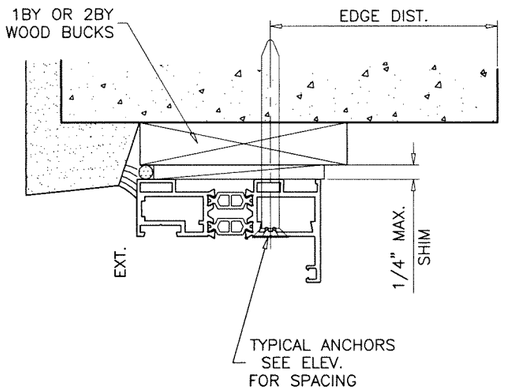

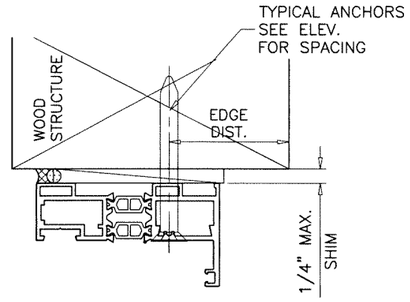

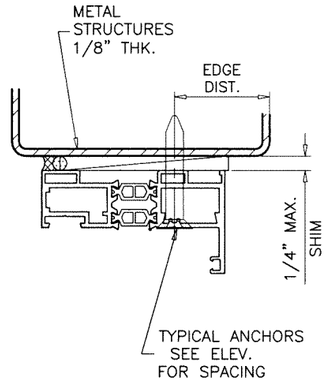

WOOD BUCKS AND METAL STRUCTURE NOT BY 'KORUS USA' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)

INTO WOOD STRUCTURES
1-7/8" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY OR 2BY WOOD BUCKS INTO CONC. OR BLOCKS
1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-1/2" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-1/2" MIN. EMBED INTO BLOCKS (JAMBS)

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

INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
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)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 3-1/8" MIN.
INTO WOOD BUCKS OR WOOD STRUCTURE = 1-1/4" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

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

Sealed: 12/15/2025

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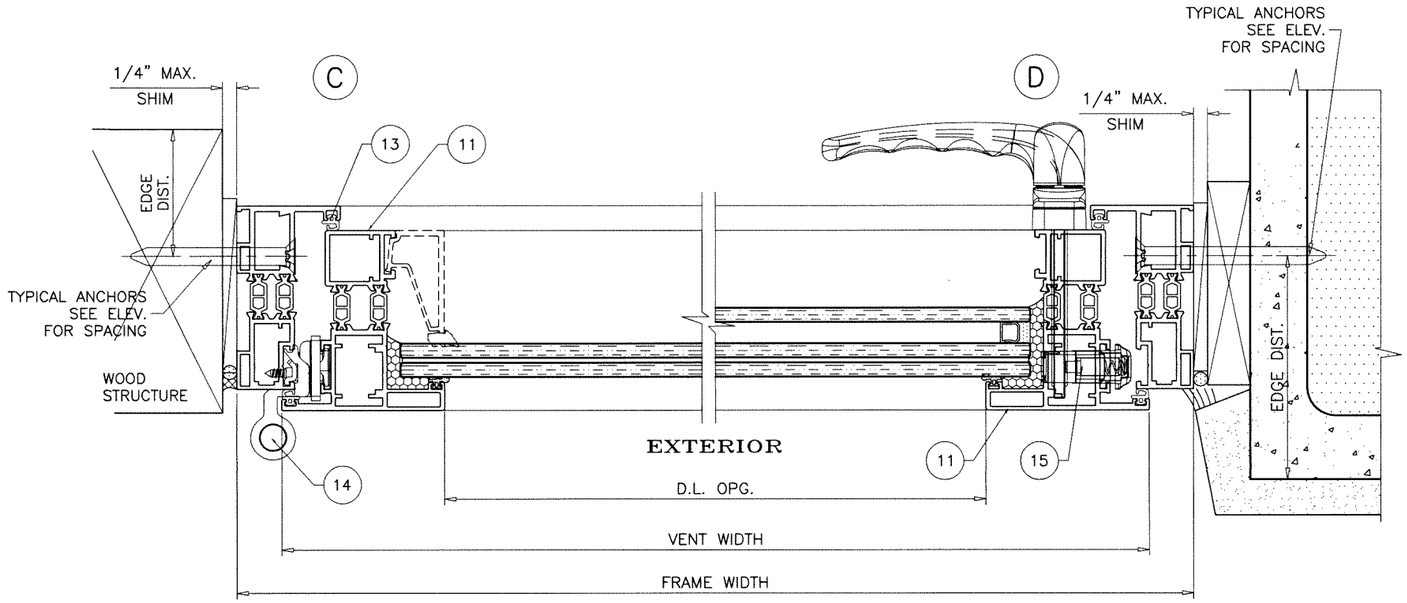
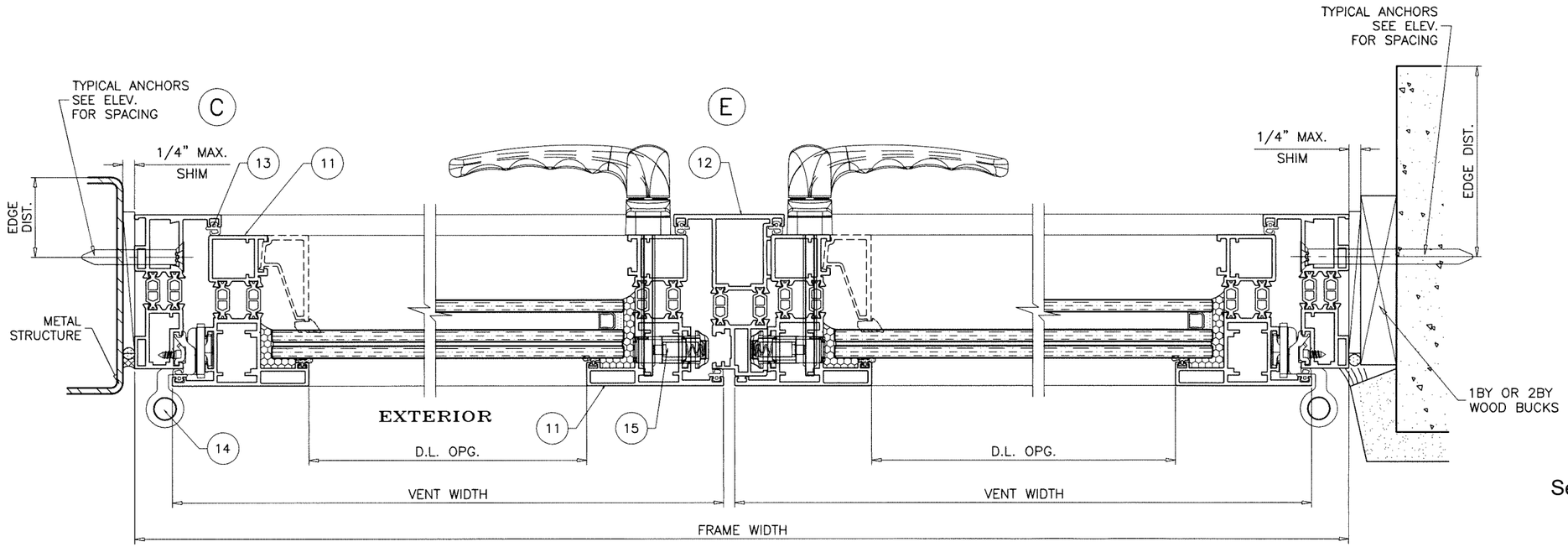


SINGLE VENT WINDOWS



DUAL VENT WINDOWS

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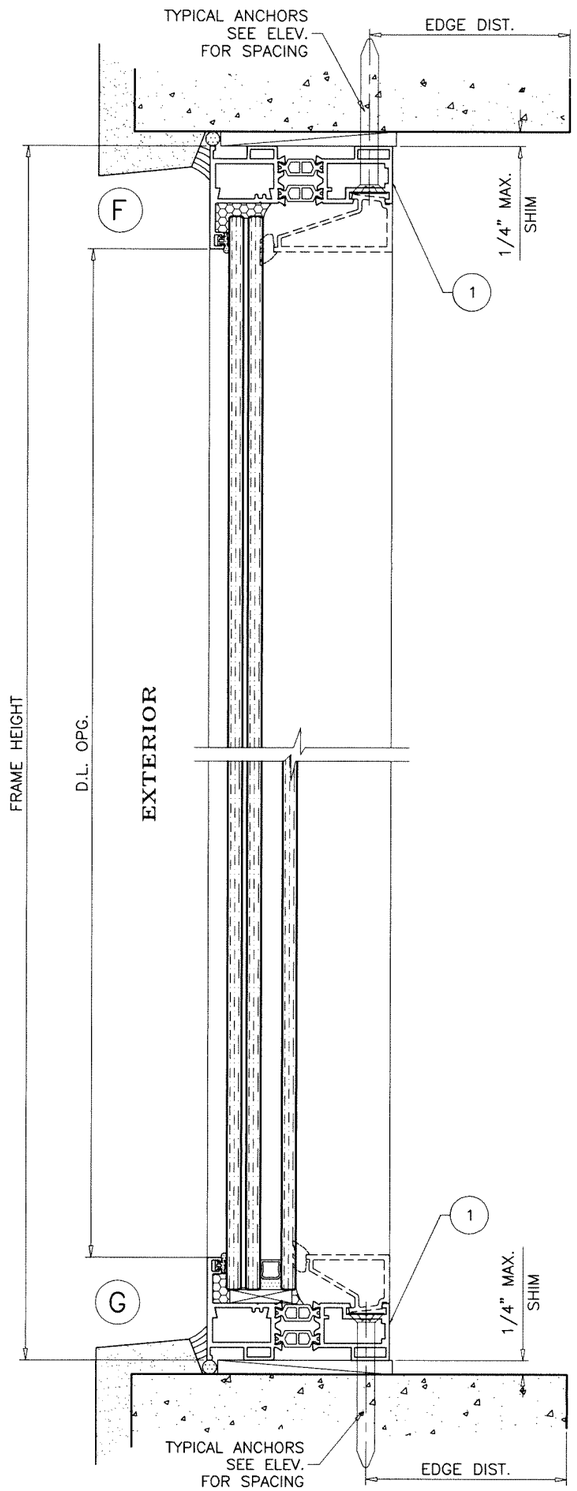

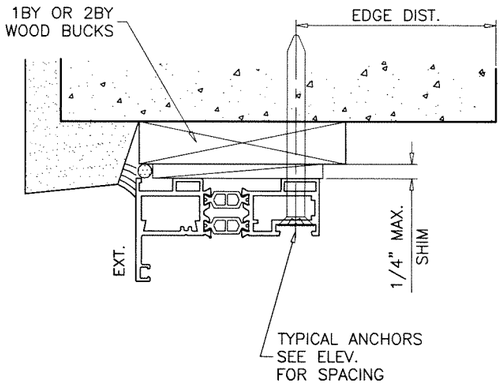

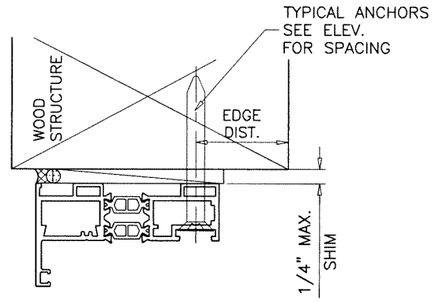

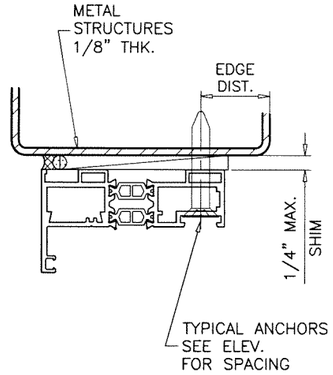

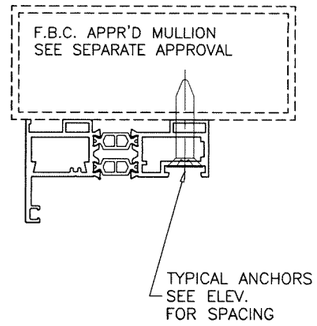

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SERIES MILANO THERMAL ALUM CASEMENT WDW. (L.M.I.)

Korus USA
8615 N.W. 64th Street, Bay #1
Miami, FL. 33166
Tel. (305) - www.-

revisions:			
no	date	by	description

date: 08-22-25
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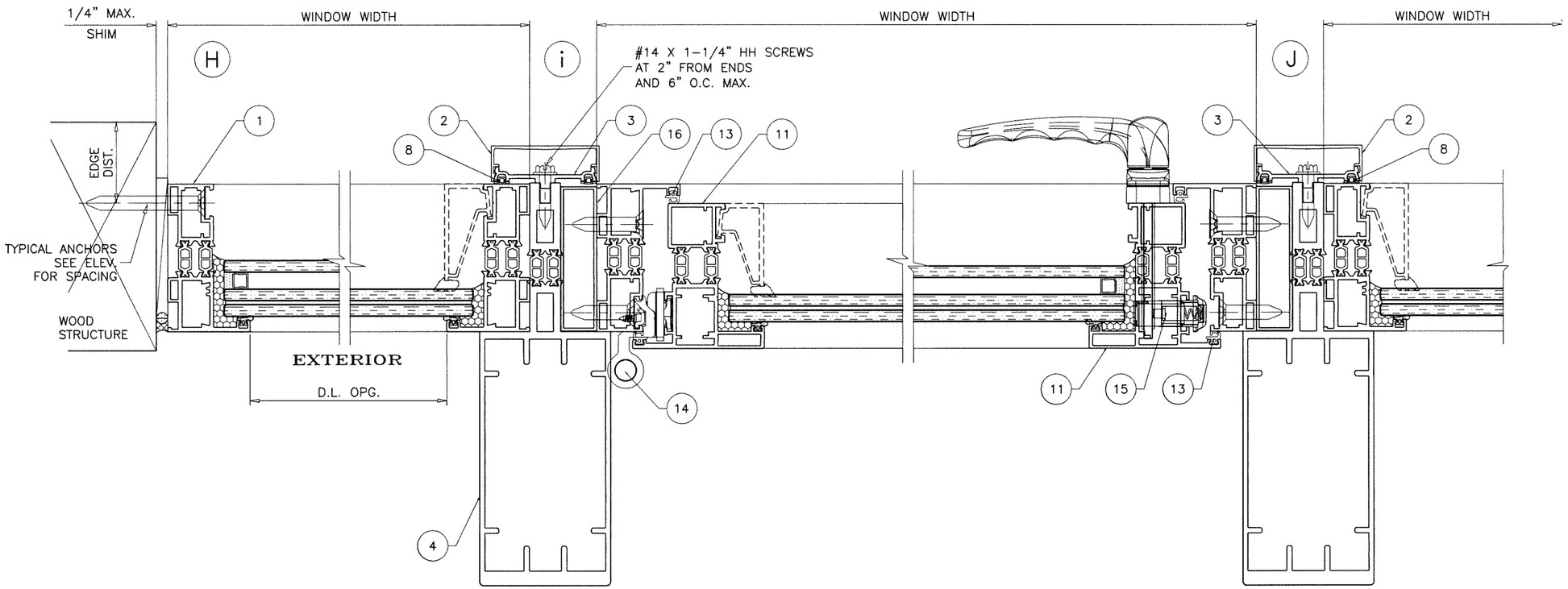
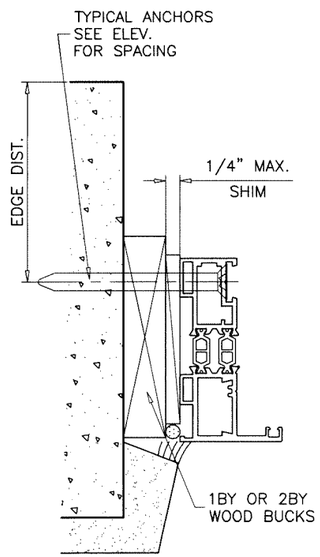
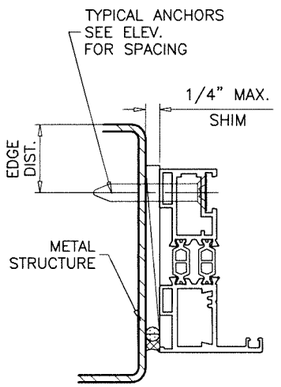
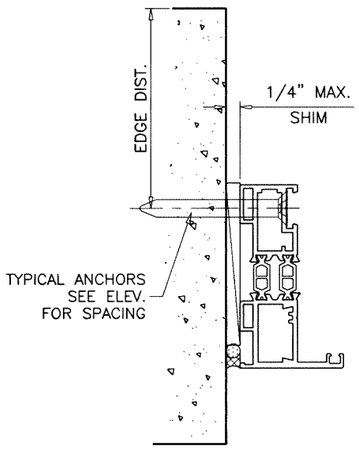
dr. by: TARIQ
chk. by:

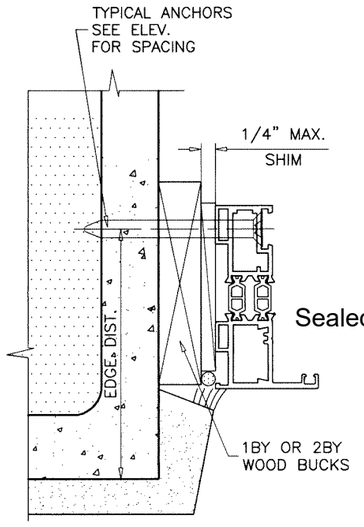
drawing no. 25-77F











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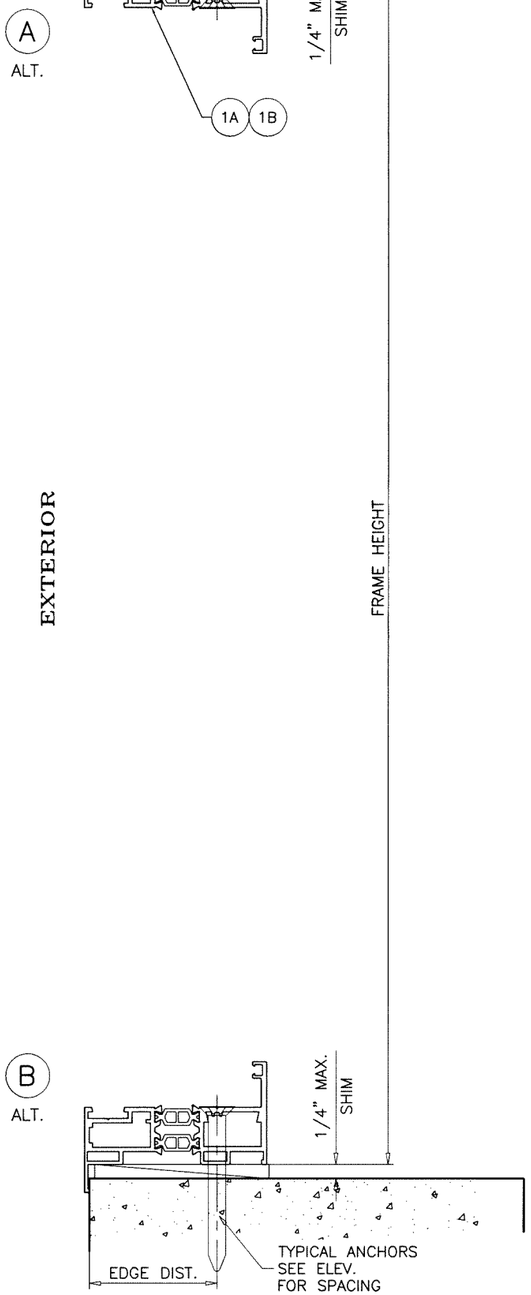
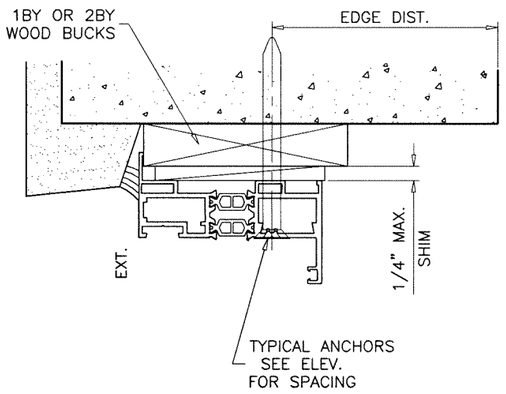
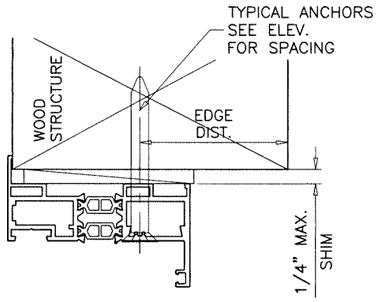
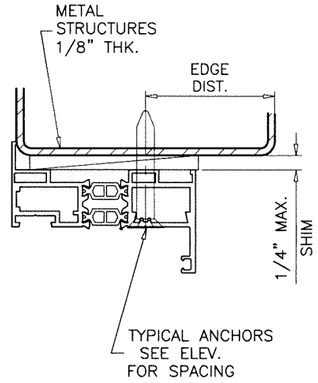
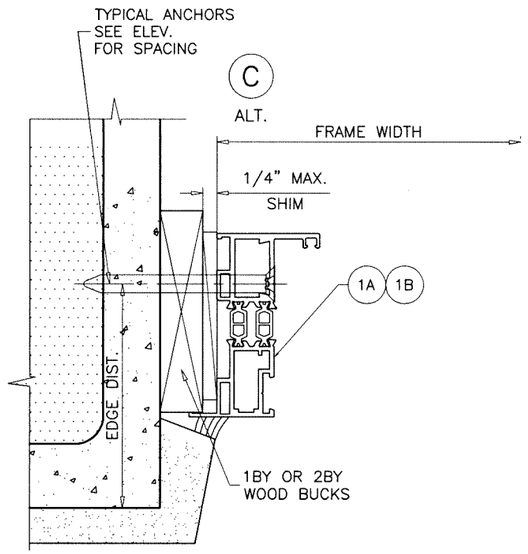
EXTERIOR











INSTALLATION DETAILS WITH FLANGE FRAMES

SEE SHEETS 5 THRU 8 FOR WINDOW DETAILS

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FL #47953

afc
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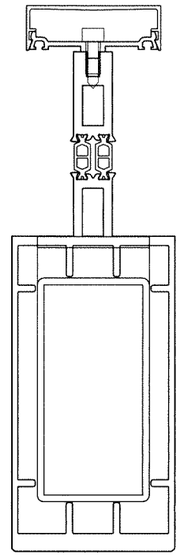

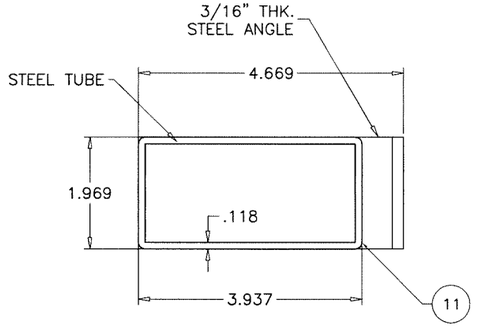

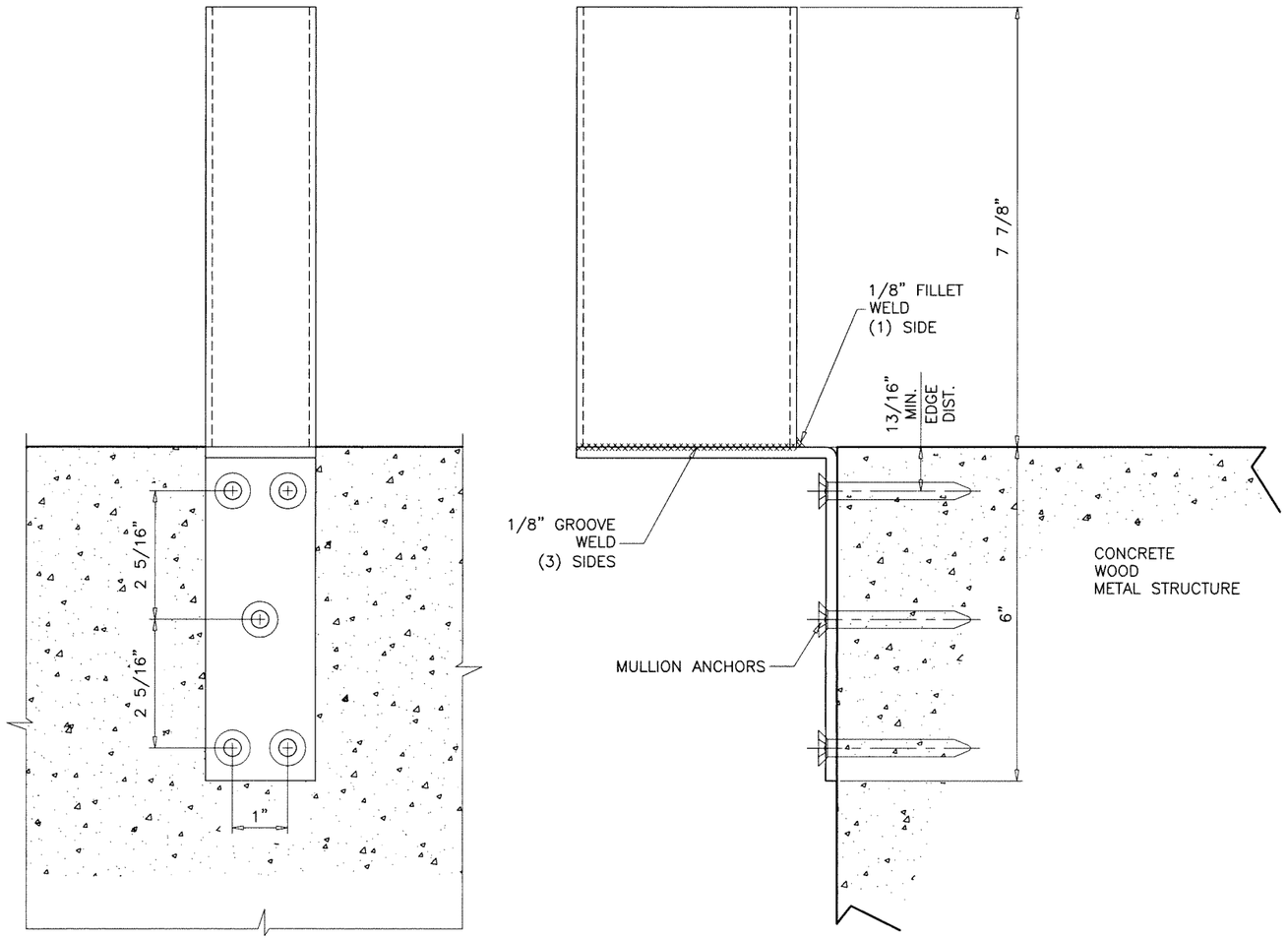

MULLION CONNECTION OPTION #1

MULLION ANCHORS:

ANCHOR TYPE 'A'– 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
INTO WOOD STRUCTURES
1–7/8" MIN. PENETRATION INTO WOOD (HEAD/SILL)

ANCHOR TYPE 'B'– 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
2" MIN. EMBED INTO CONCRETE (HEAD/SILL)

ANCHOR TYPE 'B1'– 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO GROUT–FILLED BLOCKS
2" MIN. EMBED INTO GROUT–FILLED BLOCKS (HEAD/SILL)

ANCHOR TYPE 'C'– 5/16" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO METAL STRUCTURES (HEAD/SILL)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
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)

WOOD AT HEAD OR SILL SG = 0.55 MIN.
CONCRETE AT HEAD OR SILL f'c = 3000 PSI MIN.
C–90 GROUT FILLED BLOCKS f'm = 2000 PSI MIN.

LIMIT MAX. LOADS AS FOLLOWS
FOR ANCHOR TYPE 'B1' ONLY
50–5/8" MULLION HT. = 55.4 PSF
63" MULLION HT. = 40.0 PSF
76" MULLION HT. = 30.9 PSF
84" MULLION HT. = 27.2 PSF

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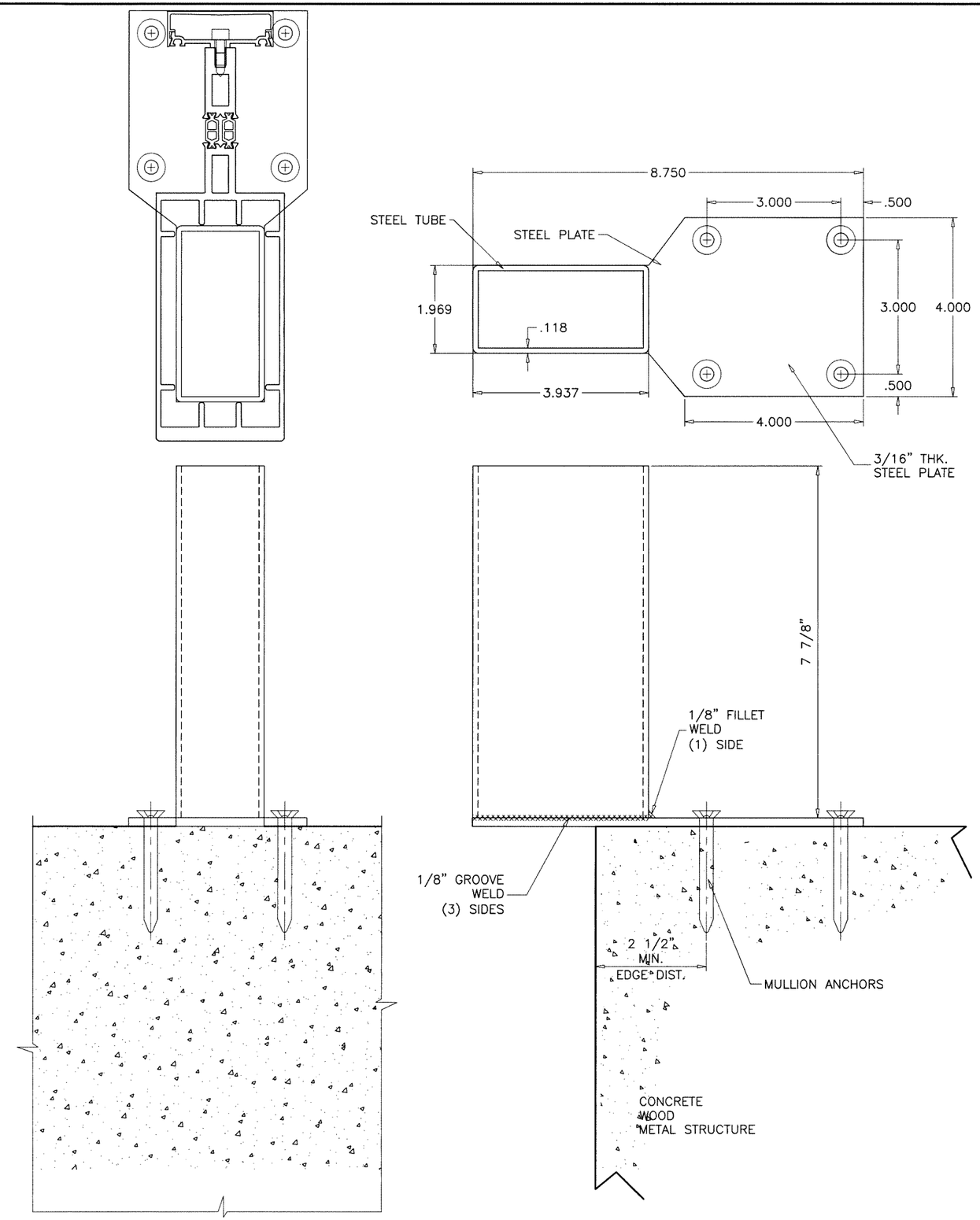

MULLION CONNECTION OPTION #2

MULLION ANCHORS:

ANCHOR TYPE 'A'– 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
INTO WOOD STRUCTURES
1–7/8" MIN. PENETRATION INTO WOOD (HEAD/SILL)

ANCHOR TYPE 'B'– 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
2" MIN. EMBED INTO CONCRETE (HEAD/SILL)

ANCHOR TYPE 'C'– 5/16" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO METAL STRUCTURES (HEAD/SILL)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
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)

WOOD AT HEAD OR SILL SG = 0.55 MIN.
CONCRETE AT HEAD OR SILL f'c = 3000 PSI MIN.

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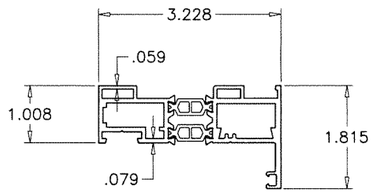
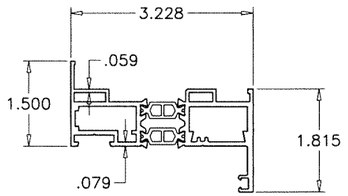
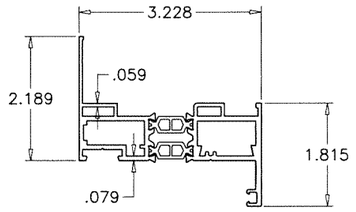


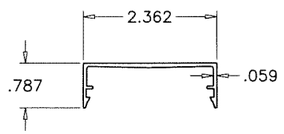
1 FRAME HEAD/SILL/JAMB



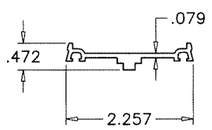
1A FRAME HEAD/SILL/JAMB



1B FRAME HEAD/SILL/JAMB



2 SNAP COVER



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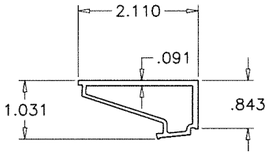
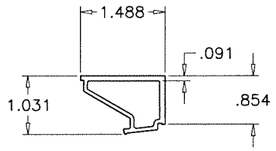
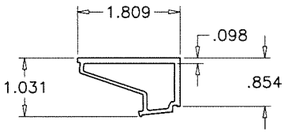


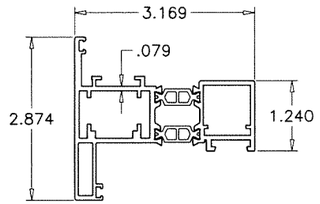
9 FIX. GLAZING BEAD (LAM. GLASS)



9A FIX. GLAZING BEAD (LAM. INSUL. GLASS)



9B CASMT. GLAZING BEAD (LAM. GLASS)



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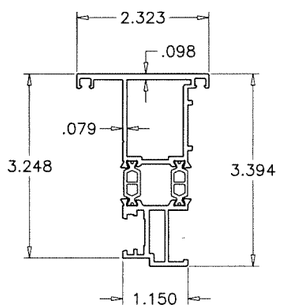
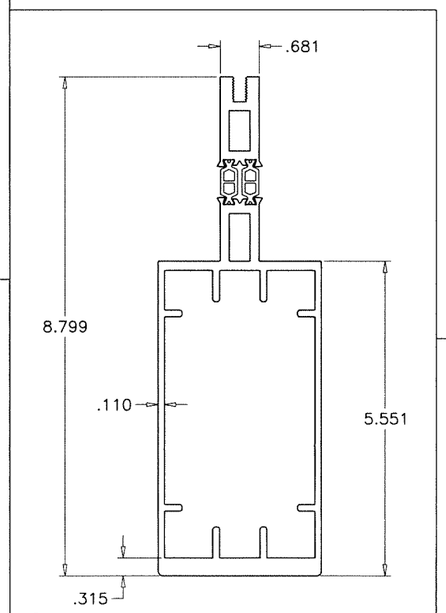
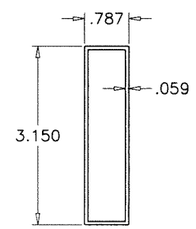


12 IMPOST



4 MULLION



16 SPACER TUBE

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	–	AS REQD.	FRAME HEAD/SILL/JAMB	6060–T5	–
1A	–	AS REQD.	FRAME HEAD/SILL/JAMB	6060–T5	–
1B	–	AS REQD.	FRAME HEAD/SILL/JAMB	6060–T5	–
2	–	AS REQD.	SNAP COVER	6060–T5	–
3	–	AS REQD.	SHEAR PLATE	6060–T5	–
4	–	AS REQD.	MULLION	6060–T5	–
5	–	AS REQD.	EXTERIOR GLAZING GASKET	EPDM	DUROMETER 55±5 SHORE A
5A	–	AS REQD.	INTERIOR GLAZING GASKET (OPTIONAL)	EPDM	DUROMETER 55±5 SHORE A
6	–	4/ CORNER	FRAME ASSEMBLY FASTENERS	ST. STEEL	PH SMS
7	–	2/ LITE	SETTING BLOCKS AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
8	–	AS REQD.	MULLION GASKET	EPDM	DUROMETER 55±5 SHORE A
9	–	AS REQD.	FIX. GLAZING BEAD (LAM. GLASS) OPTIONAL	6060–T5	–
9A	–	AS REQD.	FIX. GLAZING BEAD (LAM. INSUL. GLASS) OPTIONAL	6060–T5	–
9B	–	AS REQD.	CASMT. GLAZING BEAD (LAM. GLASS) OPTIONAL	6060–T5	–
10	–	–	–	–	–
11	–	4/ VENT	VENT FRAME	6060–T5	–
12	–	AS REQD.	IMPOST	6060–T5	–
13	–	AS REQD.	FRAME W'STRIPPING	EPDM	DUROMETER 60±5 SHORE A
14	–	3/ VENT	HINGES	–	–
15	–	1	MULTI POINT LOCK	–	–
16	–	–	SPACER TUBE	6060–T5	–
17	–	–	–	–	–
18	–	–	–	–	–

SEALANTS:

ALL FRAME JOINTS AND SEAMS SEALED WITH GENERAL PURPOSE SILICONE SEALANT.

INSULBARS

MATERIAL = POLYAMIDE
TENSILE STRENGTH = 13031 PSI
RATE OF BURN = .752 IN./MIN.
SELF IGNITION TEMP. = 793° F
FLASH IGNITION TEMP. – 781°C
SMOKE DENSITY = 1.63

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