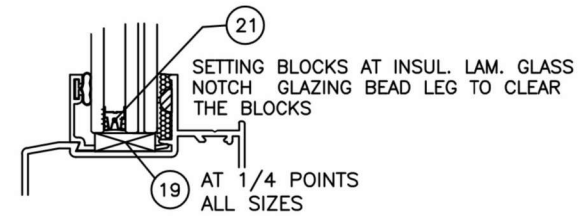


DESIGN LOAD CAPACITY - PSF FOR (X) SIZES					
WINDOW DIMS.		GLASS TYPES 'A'		GLASS TYPES 'B'	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
19-1/8"	50-5/8"	90.0	130.0	90.0	120.0
26-1/2"		90.0	130.0	90.0	120.0
32"		90.0	130.0	90.0	120.0
37"		90.0	130.0	90.0	120.0
19-1/8"	63"	90.0	130.0	90.0	120.0
26-1/2"		90.0	130.0	90.0	120.0
32"		90.0	130.0	90.0	120.0
37"		90.0	130.0	90.0	120.0
19-1/8"	76"	88.0	127.2	88.0	117.4
26-1/2"		65.0	94.0	65.0	86.7
18"	48"	90.0	130.0	90.0	120.0
24"		90.0	130.0	90.0	120.0
30"		90.0	130.0	90.0	120.0
36"		90.0	130.0	90.0	120.0
18"	54"	90.0	130.0	90.0	120.0
24"		90.0	130.0	90.0	120.0
30"		90.0	130.0	90.0	120.0
36"		90.0	130.0	90.0	120.0
18"	60"	90.0	130.0	90.0	120.0
24"		90.0	130.0	90.0	120.0
30"		90.0	130.0	90.0	120.0
36"		90.0	130.0	90.0	120.0
18"	66"	90.0	130.0	90.0	120.0
24"		90.0	130.0	90.0	120.0
30"		90.0	130.0	90.0	120.0
18"	72"	90.0	130.0	90.0	120.0
24"		84.1	121.5	84.1	112.1
30"		69.1	99.8	69.1	92.1

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300- 16 (3 SEC. GUSTS)



ECO-GUARD SERIES-500
ALUMINUM OUTSWING CASEMENT WINDOW

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

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF CASMT/CASMT OR CASEMENT WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING F.B.C. HVHZ APPROVED MULLIONS IN BETWEEN.

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

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 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.

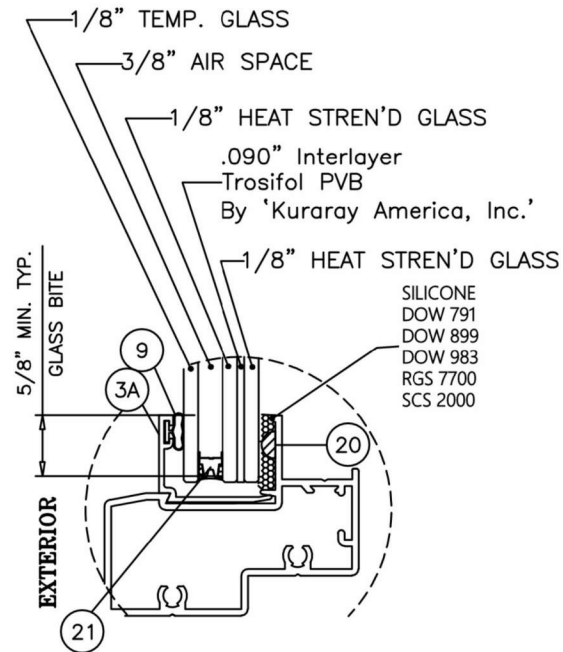
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

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 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

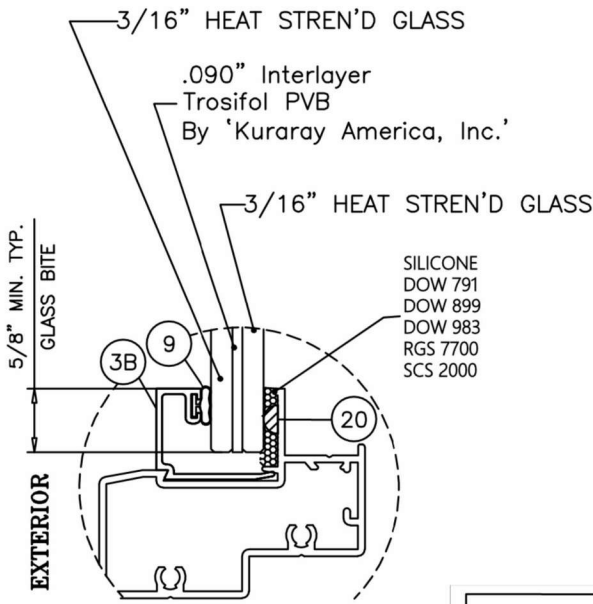
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,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

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



GLASS TYPE 'A'

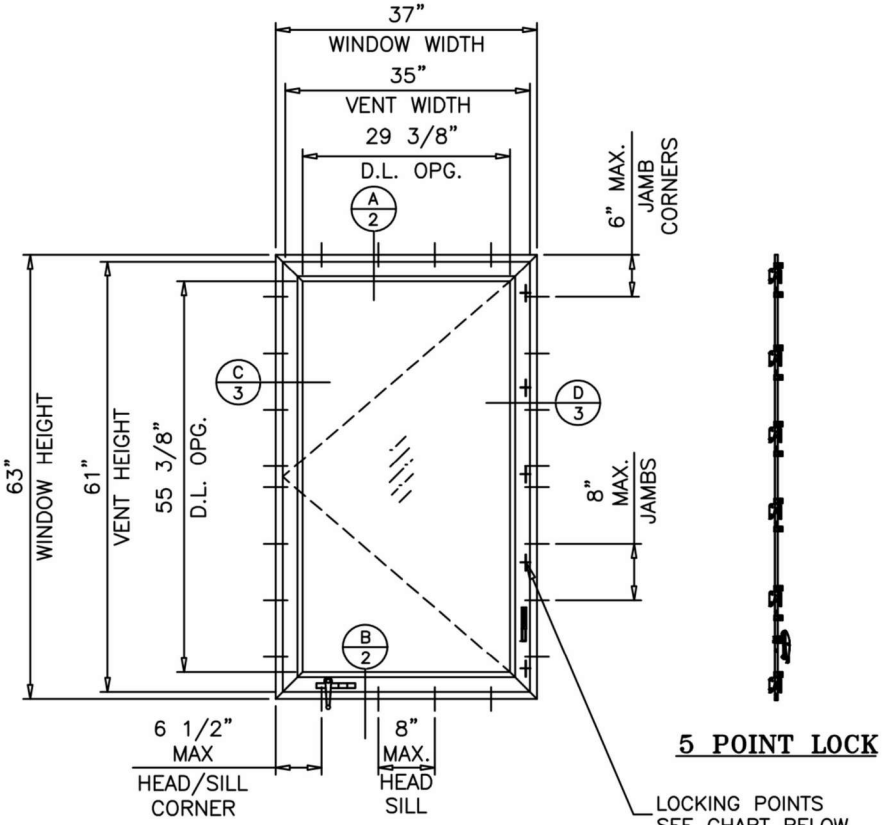
13/16" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'B'

7/16" OVERALL LAM. GLASS

GLAZING OPTIONS



TYPICAL ELEVATION

GLASS D.L.O. DIMS.

D.L.O. HEIGHT = WINDOW HEIGHT - 7.625"
D.L.O. WIDTH = WINDOW WIDTH - 7.625"

WDW. HEIGHT UP TO	NO. OF KEEPERS AT SASH
26"	2
38-3/8"	3
50-5/8"	4
76"	5

FL#41650.2



JAVAD AHMAD PE, inc
7875 NW 12th St., Suite 102 Doral,
FL 33126
Ph: (305) 424-8001
support@ja-pe.com

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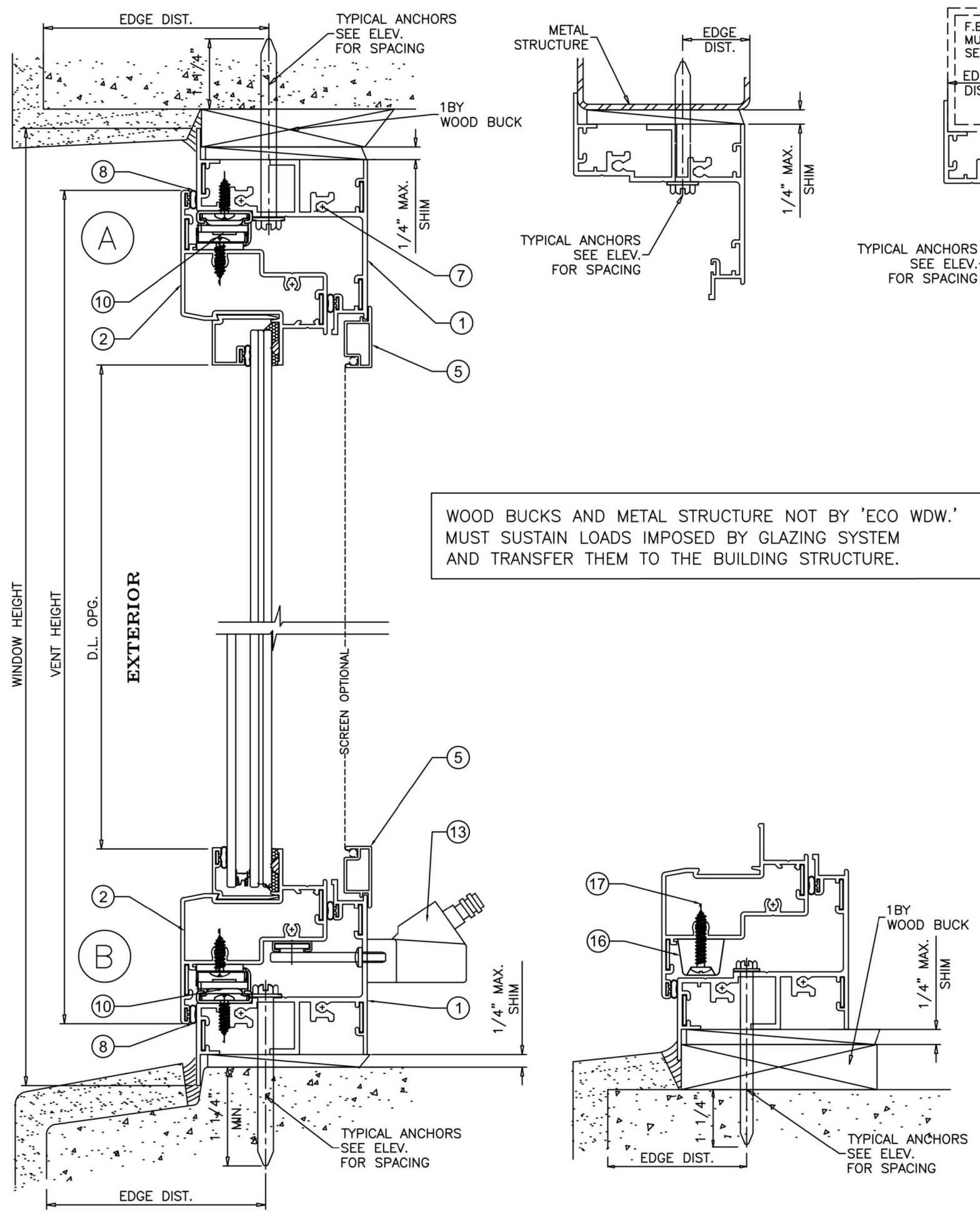
SERIES 500 : ECO-GUARD ALUMINUM CASEMENT WINDOW
(S.M.I.)
SMALL MISSILE IMPACT RATED



ECO WINDOW SYSTEMS, LLC.
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TEL. (305) 885-5299 FAX. (305) 885-5902



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TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 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/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 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)

#12 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO F.B.C HVHZ APPROVED MULLIONS
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE (NO SHIM SPACE)
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 MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" 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 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

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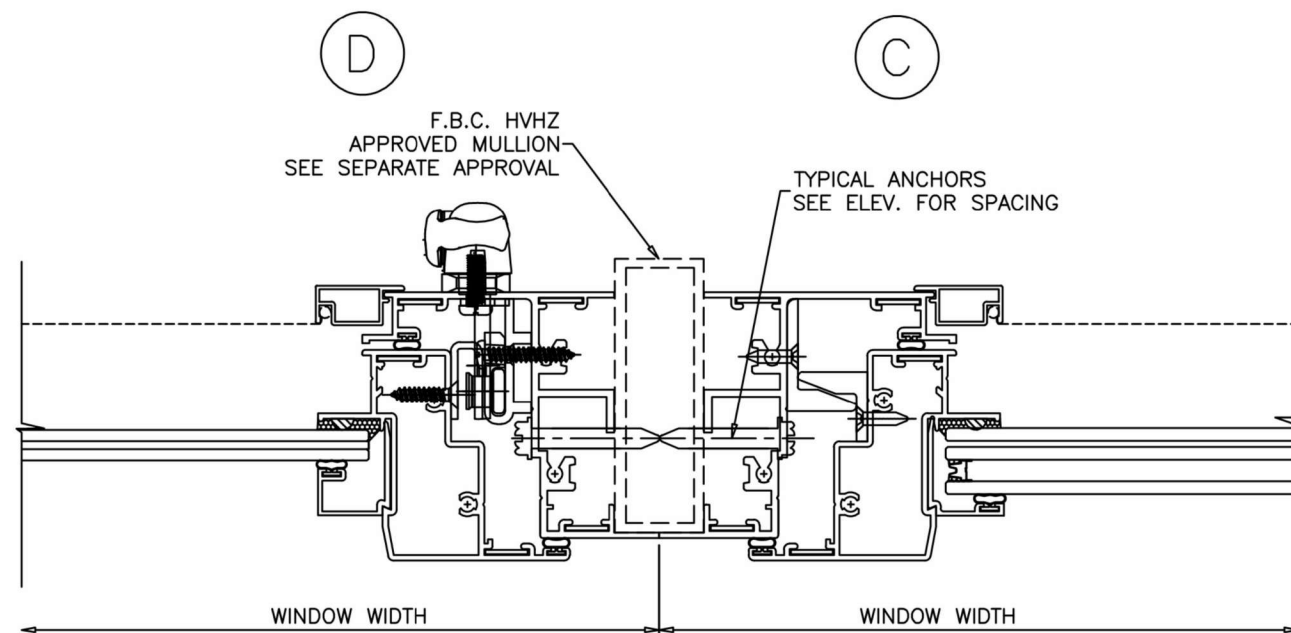
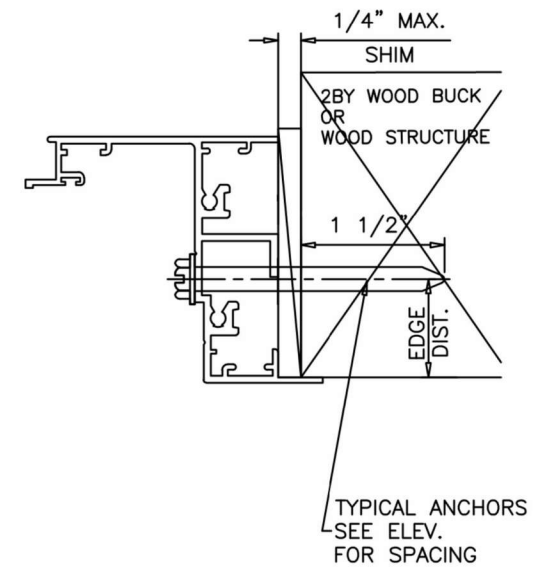
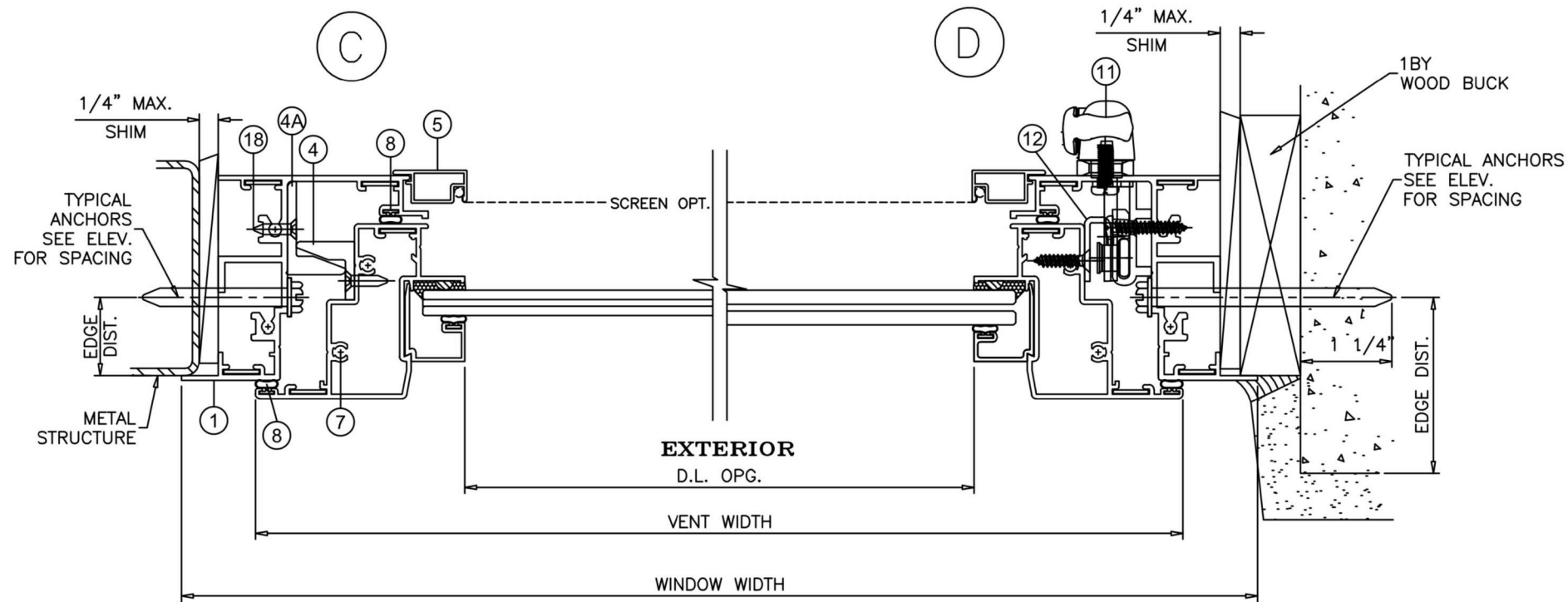
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date:	12/31/2024	drawn by: BS
		check by:
REVISION		
No.	DATE	DESCRIPTION

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ECO window systems
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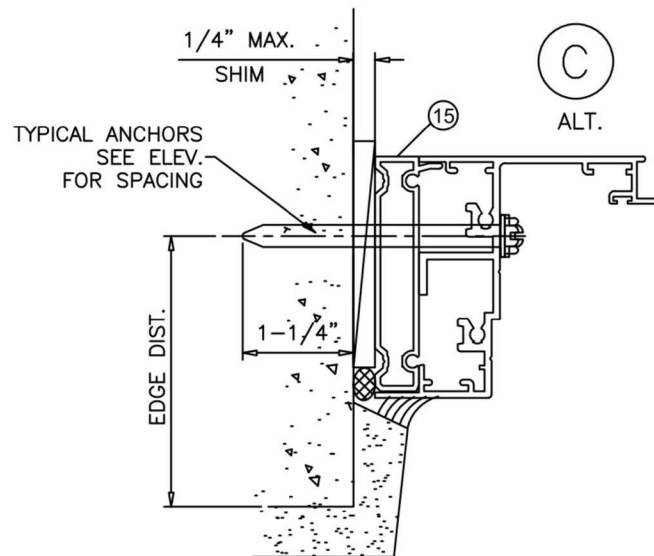
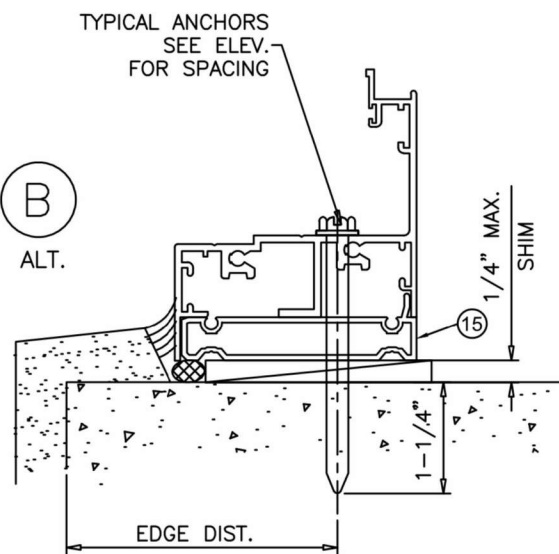
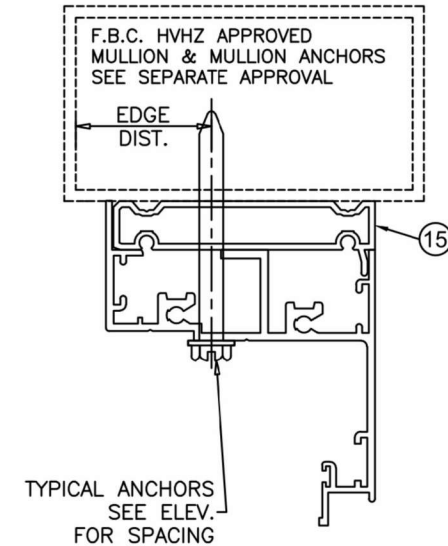
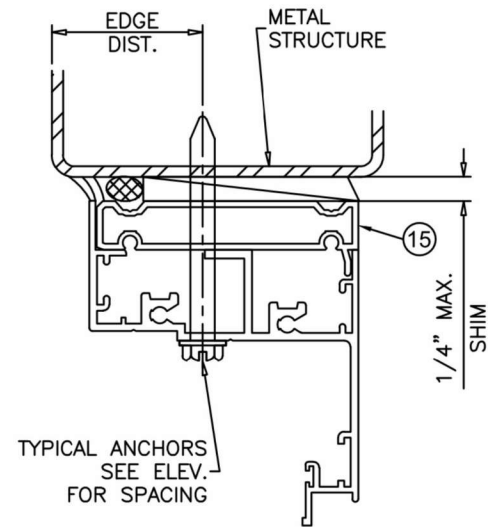
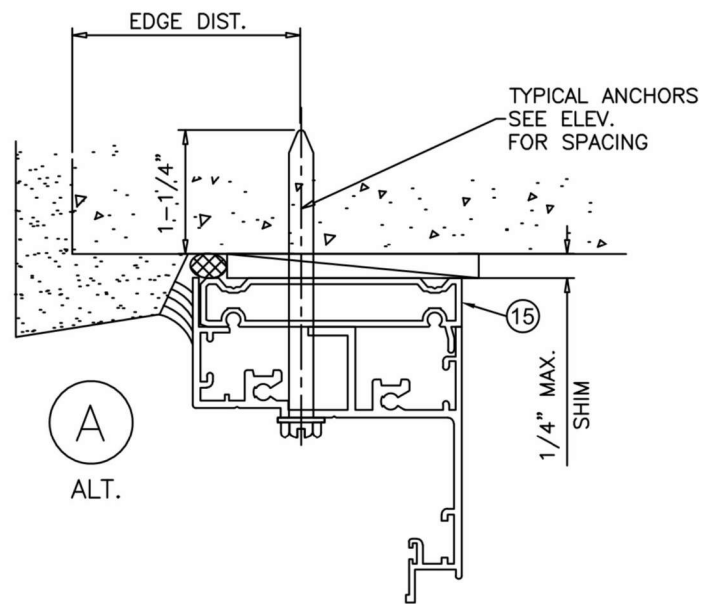


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INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER

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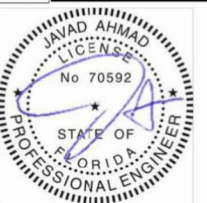
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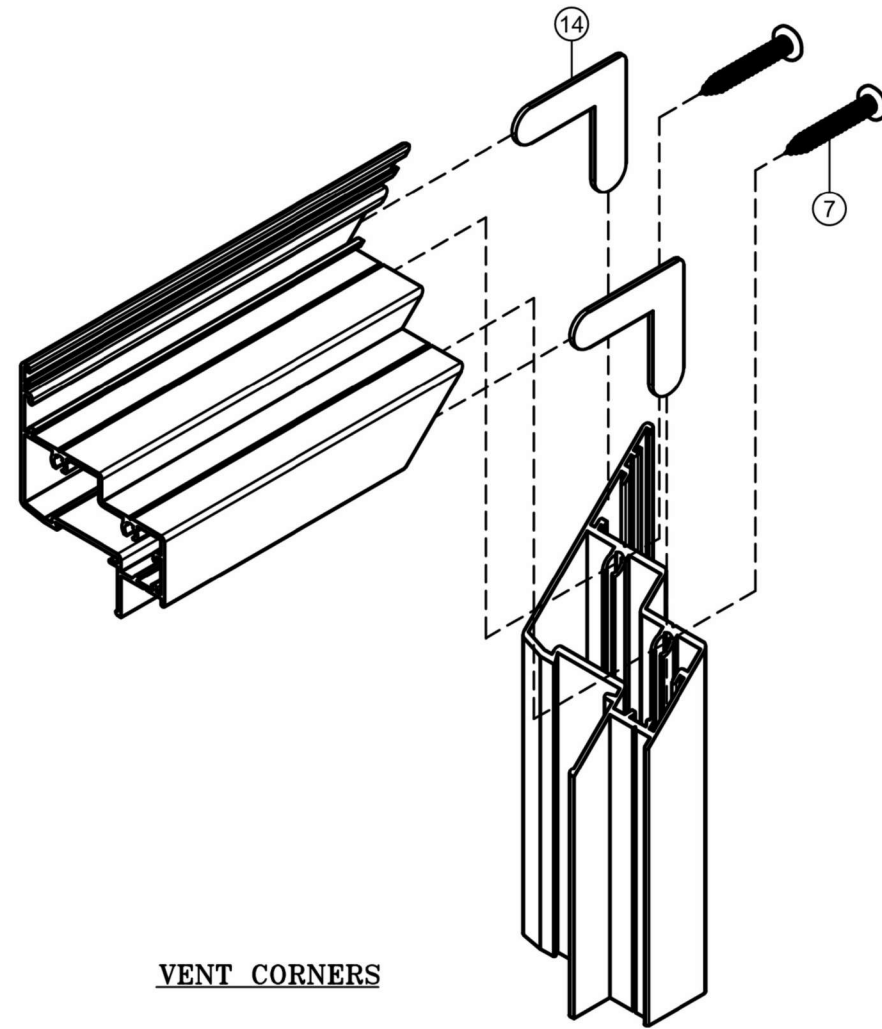
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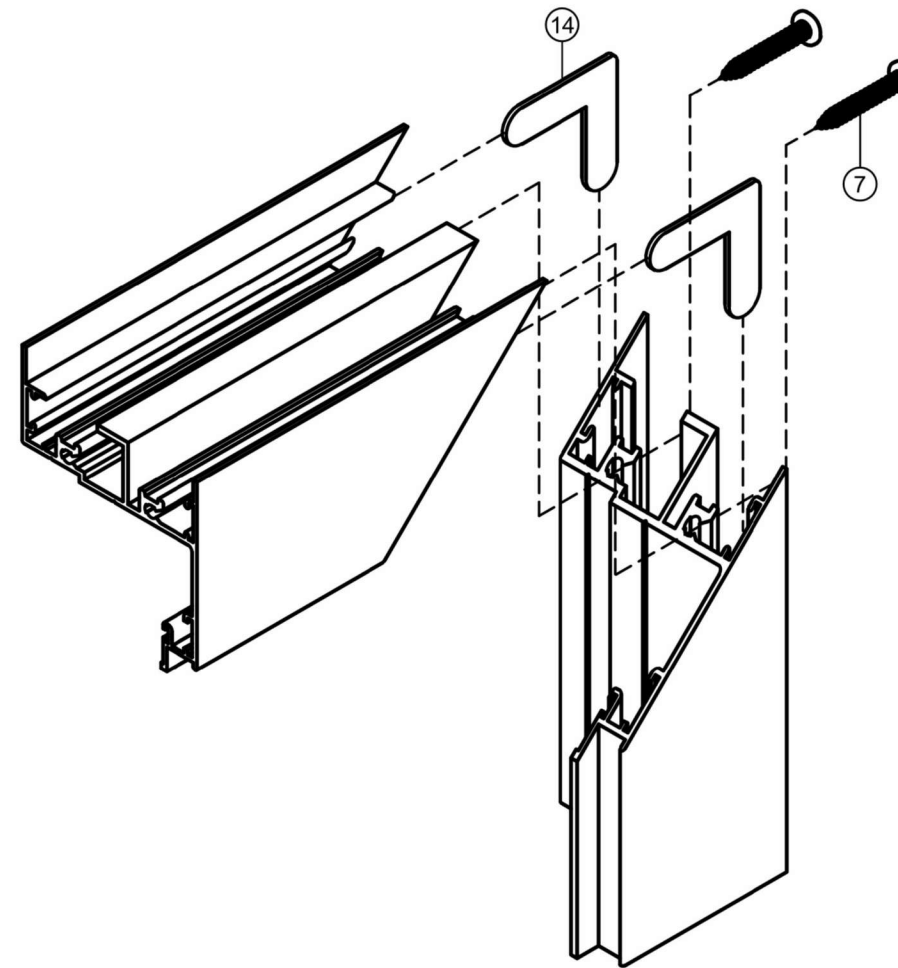
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FRAME CORNERS

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