

# EURO-WALL, LLC

## EURO C3 TRANSOM WITH MULLION (HVHZ) (IMPACT)



EURO-WALL, LLC  
P.O. BOX 8007  
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PH: 888-989-3876

TITLE: EURO C3 TRANSOM WITH MULLION (HVHZ) (IMPACT) INSTALLATION & GENERAL NOTES

PREPARED BY: BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
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FAX: (954)744-4738  
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REMARKS	BY	DATE
NEW PROFILE	LL	07/22
MISC. UPDATE	OL	06/23
COMPANY NAME UPD.	SH	09/23

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HERMES F. NORERO, P.E.  
FLORIDA # 73778  
BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD. # 338  
DANIA BEACH, FL 33004  
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL17432**

DATE: **10.20.17**

DWG. BY: **EG**      CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **EWS005**

SHEET: **1**

OF 6

GENERAL NOTES:

- THIS PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **INCLUDING** HVHZ, AND HAS BEEN EVALUATED IN ACCORDANCE WITH THE FOLLOWING:
  - TAS 201-94
  - TAS 202-94
  - TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND STEEL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- GLASS MEETS THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 6 FOR GLAZING DETAILS.
- MULLIONS UNDER SEPARATE APPROVAL.
- WINDOW FRAME MATERIAL: ALUMINUM 6063-T5
- DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED IN ACCORDANCE WITH THE CURRENT FBC.
- DESIGNATION "O" STANDS FOR THE FOLLOWING:  
O: FIXED PANEL

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6	GLAZING DETAILS

DESIGN PRESSURE RATING			
WINDOW SIZE	DESIGN PRESSURE	WATER PRESSURE RATING	MISSILE IMPACT RATING
SEE NEXT SHEET	SEE NEXT SHEET	9.19 PSF	SMALL & LARGE MISSILE IMPACT RATED

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- SEE SHEET 3 FOR ANCHOR INFORMATION INCLUDING TYPES, DIAMETERS, MINIMUM EDGE DISTANCES AND MINIMUM EMBEDMENT REQUIREMENTS.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
  - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
  - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
  - GROUT-FILLED CMU- UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.
  - HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
  - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.
  - ALUMINUM - MINIMUM 6063-T5 ALLOY OR BETTER. MIN. 1/8" THICKNESS

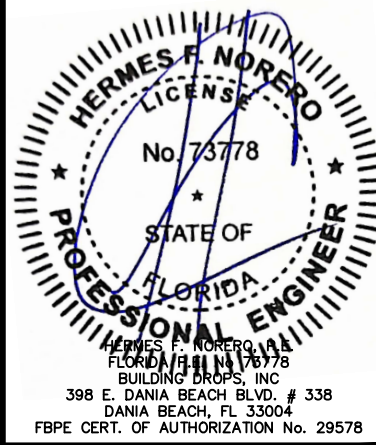
TITLE: EURO C3 TRANSOM WITH MULLION (HVHZ) (IMPACT)  
DESIGN PRESSURE TABLE, ELEVATIONS & ANCHOR LAYOUTS

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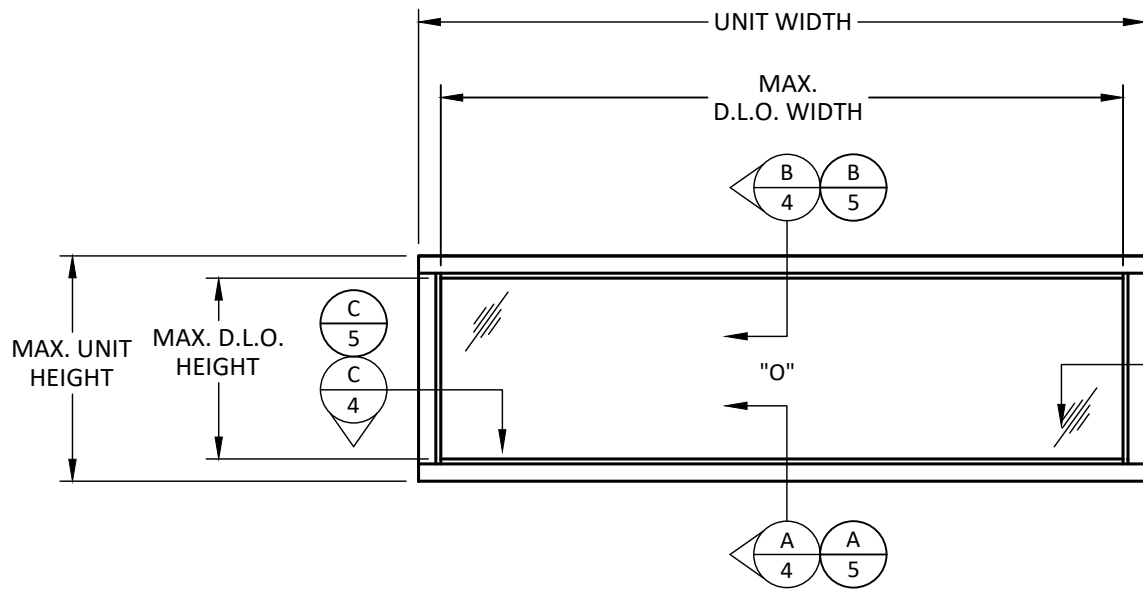


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DWG. #:	<b>EWS005</b>
SHEET:	<b>2</b>



**ELEVATION**  
SINGLE TRANSOM

D.L.O WIDTH = F.W. - 6.75"  
D.L.O HEIGHT = F.H. - 7.0625"

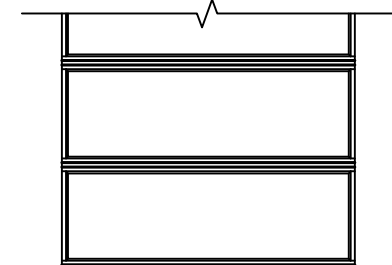


FIGURE A.1

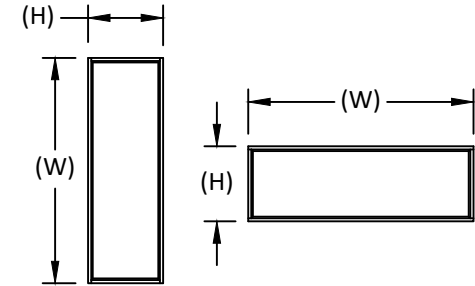
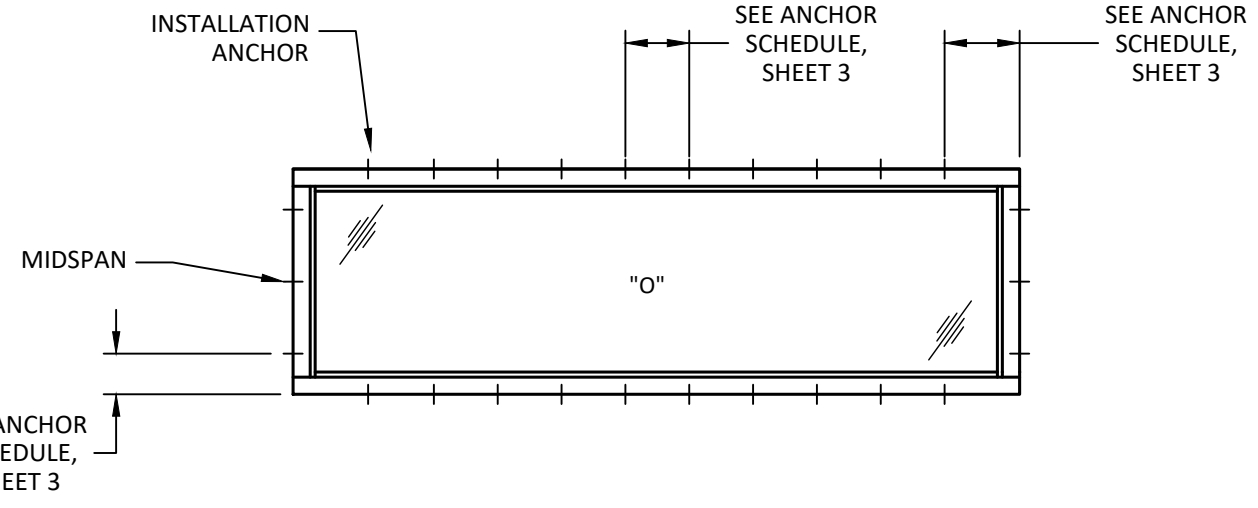


FIGURE A.2



**ANCHOR LAYOUT**  
SINGLE TRANSOM

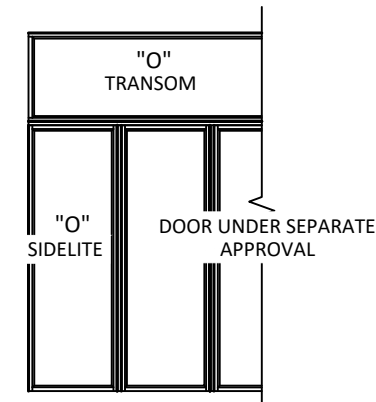


FIGURE A.3

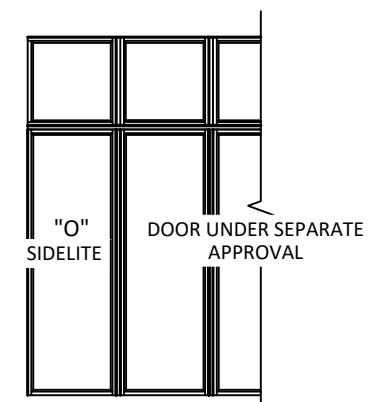


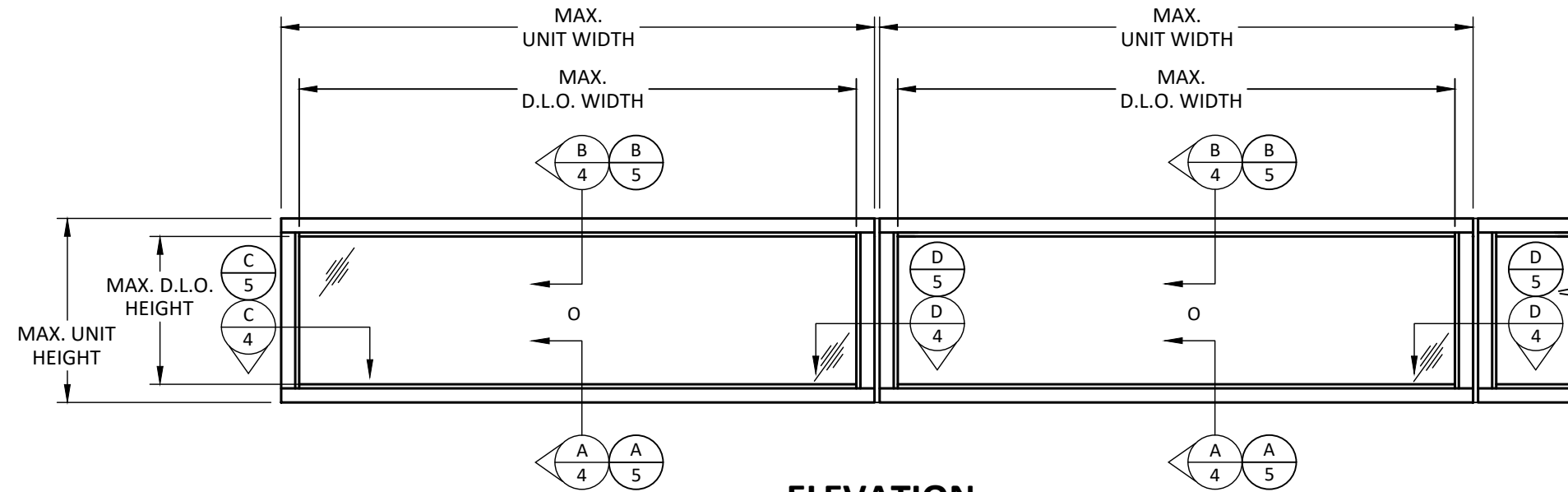
FIGURE A.4

- NOTE:
- MULLIONS & THEIR RESPECTIVE PERFORMANCE SHALL BE APPROVED UNDER SEPARATE APPROVAL. THE LESSER DESIGN PRESSURE OF INDIVIDUAL WINDOW OR MULLION OF INSTALLATION SHALL GOVERN.
  - THE NUMBER OF SIDELITES OR TRANSOMS WHICH MAY BE UTILIZED IS UNLIMITED SUCH THAT THE SUBSTRUCTURE AND/OR MULLIONS ARE CAPABLE OF RESISTING IMPOSED WIND AND DEAD LOADS TO THE HOST STRUCTURE.
  - WINDOW UNITS MAY BE STACKED VERTICALLY, REFER TO FIGURE A.1
  - WINDOW WIDTH (W) AND HEIGHT (H) ARE INTERCHANGEABLE FOR SALL SIZES SHOWN HEREIN. SIZE NOT TO EXCEED MAXIMUM DIMENSIONS SHOWN. REFER. TO FIGURE A.2.
  - WINDOW UNIT MAY BE USED AS A SIDELITE TO DOOR SYSTEM. DOOR SYSTEM AND MULLION UNDER SEPARATE APPROVAL. REFER TO FIGURE A.3.

DESIGN LOAD CAPACITY (PSF) FOR GLASS TYPE G1

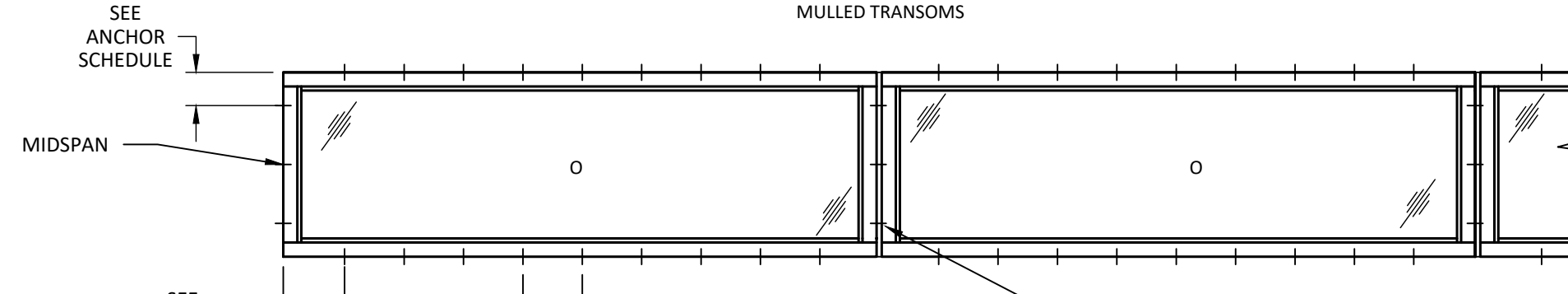
LONG LEG 'W' (INCHES)	SHORT LEG 'H' (INCHES)										
	12	18	24	30	36	42	48	54	60	66	72
48	60.00	60.00	60.00	60.00	60.00	51.43	45.00	45.00	45.00	45.00	45.00
54	60.00	60.00	60.00	60.00	60.00	51.43	45.00	40.00	40.00	40.00	40.00
60	60.00	60.00	60.00	60.00	60.00	51.43	45.00	40.00	36.00	36.00	
66	60.00	60.00	60.00	60.00	60.00	51.43	45.00	40.00	36.00		
72	60.00	60.00	60.00	60.00	60.00	51.43	45.00	40.00			
78	60.00	60.00	60.00	60.00	60.00	51.43	45.00				
84	60.00	60.00	60.00	60.00	60.00	51.43	45.00				
90	60.00	60.00	60.00	60.00	60.00	51.43					
96	60.00	60.00	60.00	60.00	60.00	51.43					
102	60.00	60.00	60.00	60.00	60.00						
108	60.00	60.00	60.00	60.00	60.00						
116.125	60.00	60.00	60.00	60.00	60.00						
120	60.00	60.00	60.00	60.00							
126	60.00	60.00	60.00	60.00							
132	60.00	60.00	60.00	60.00							
138	60.00	60.00	60.00	60.00							
144	60.00	60.00	60.00								
150	60.00	60.00	60.00								

Not approved - Exceeds maximum tested square footage



**ELEVATION**

MULLED TRANSOMS



**ANCHOR LAYOUT**

MULLED TRANSOMS

#10 TEK SCREWS FROM FRAMES TO MULLION:  
6.50" FROM CORNERS AND AT MIDSPAN. SCREWS MAY BE STAGGERED

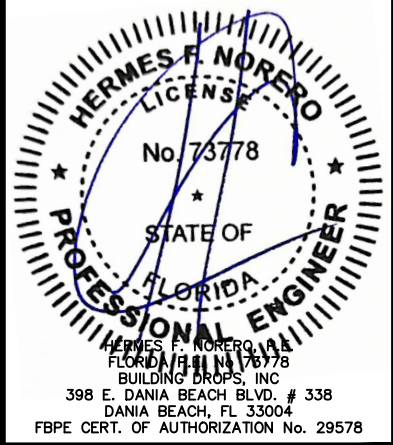
ANCHOR SCHEDULE					
SUBSTRATE	ANCHOR	MIN. EMBED	MIN. EDGE	CORNER SPACING	MAX. SPACING
CONCRETE MIN. F'C = 3000 PSI	TAPCON 3/16"	1 3/4"	2 1/2"	6"	12"
GROUT-FILLED CMU MIN. COMPRESSIVE STRENGTH = 2000 PSI	TAPCON 3/16"	1 3/4"	2 1/2"	6"	12"
WOOD MIN. S.G. = 0.55	#10 WOOD SCREW	1 1/2"	3/4"	6"	12"
ALUMINUM MIN. 1/8" 6063-T5	#10 SMS	3 THREADS	1 1/2"	6"	12"
STEEL MIN. 18 GA A36	#10 SMS	3 THREADS	1 1/2"	6"	12"

TITLE: EURO C3 TRANSOM WITH MULLION (HVHZ) (IMPACT) MULLED ELEVATIONS, ANCHOR LAYOUT, AND ANCHOR SCHEDULE

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DWG. #: **EWS005**

SHEET: **3**



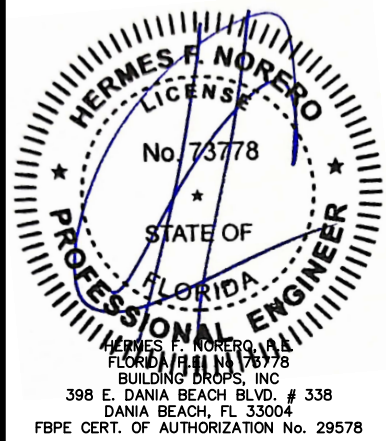
TITLE:  
EURO C3 TRANSOM WITH MULLION  
(HVHZ) (IMPACT)  
VERTICAL AND HORIZONTAL SECTIONS -  
THERMAL/NON-THERMAL RAIL

PREPARED BY:  
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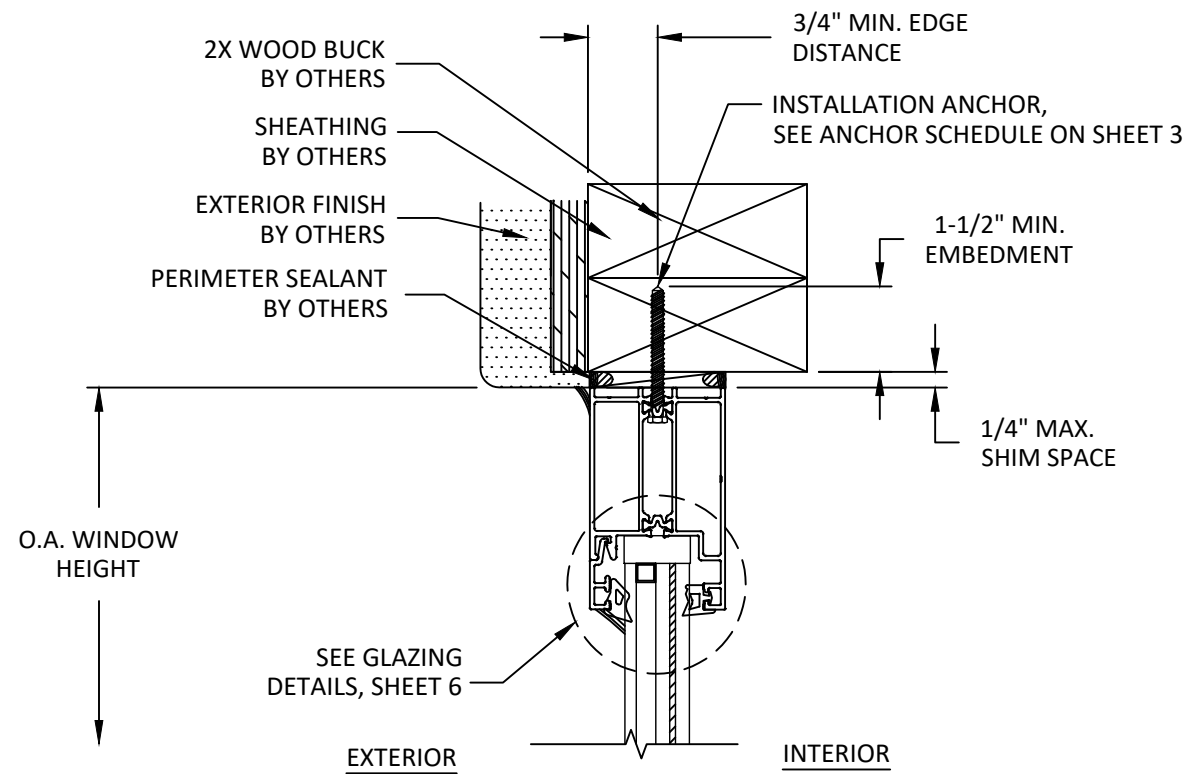
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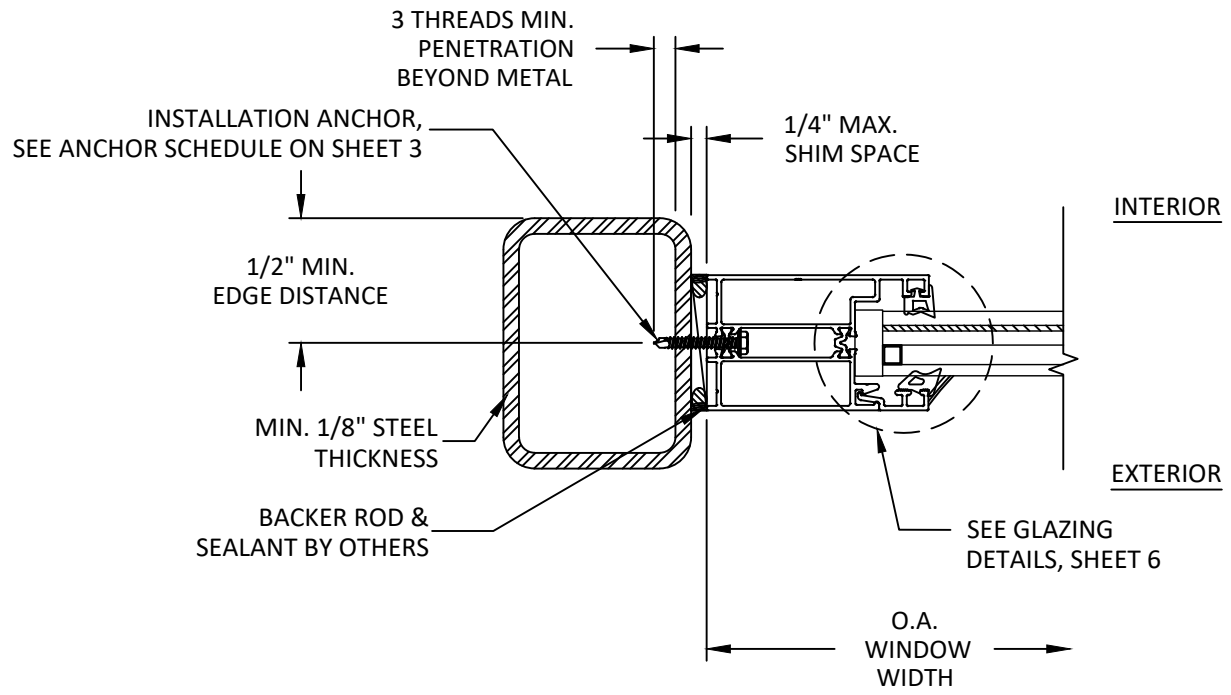
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DWG. #: **EWS005**

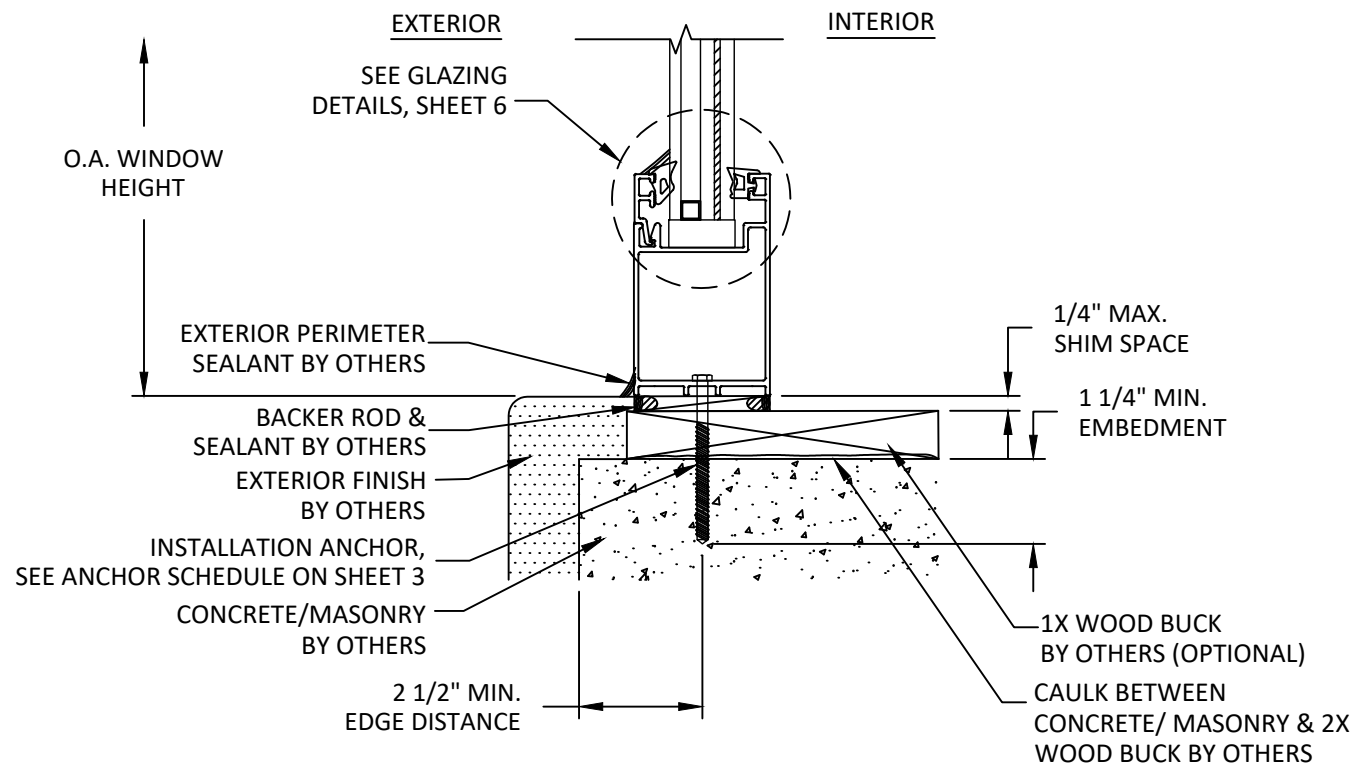
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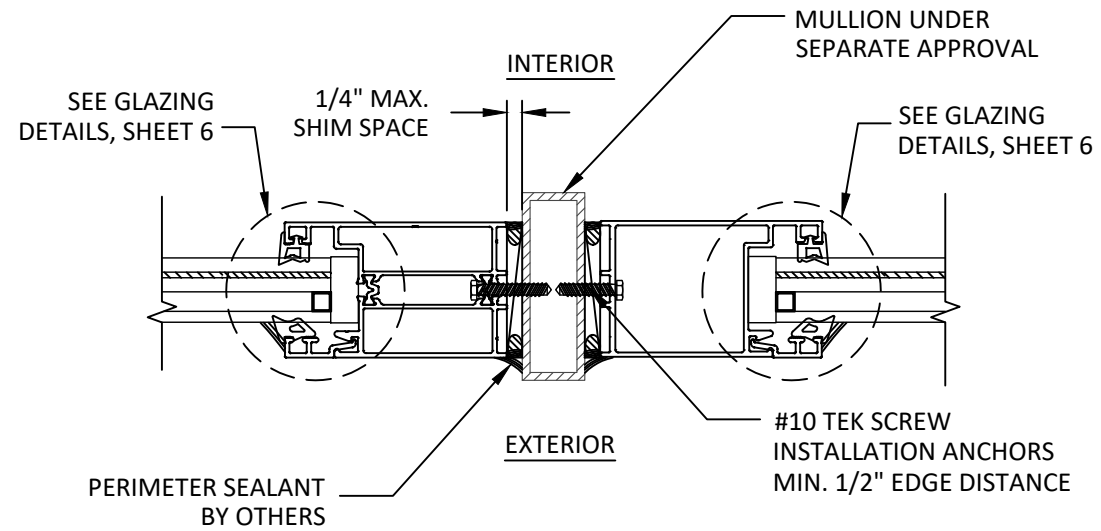
**B**  
**4** **VERTICAL SECTION**  
2X WOOD STUD SUBSTRATE - HEAD  
THERMALLY BROKEN RAIL



**C**  
**4** **HORIZONTAL SECTION**  
STEEL TUBE - JAMB  
THERMALLY BROKEN RAIL



**A**  
**4** **VERTICAL SECTION**  
CONCRETE W/ 1X BUCK (OPTIONAL) - SILL  
NON-THERMALLY BROKEN RAIL



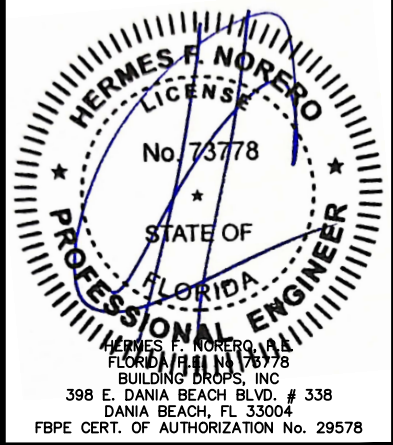
**D**  
**4** **HORIZONTAL SECTION**  
MULLED ASSEMBLIES - JAMB  
THERMALLY BROKEN/NON-THERMALLY BROKEN RAIL

TITLE: EURO C3 TRANSOM WITH MULLION (HVHZ) (IMPACT)  
VERTICAL AND HORIZONTAL SECTIONS - THERMAL/NON-THERMAL RAIL

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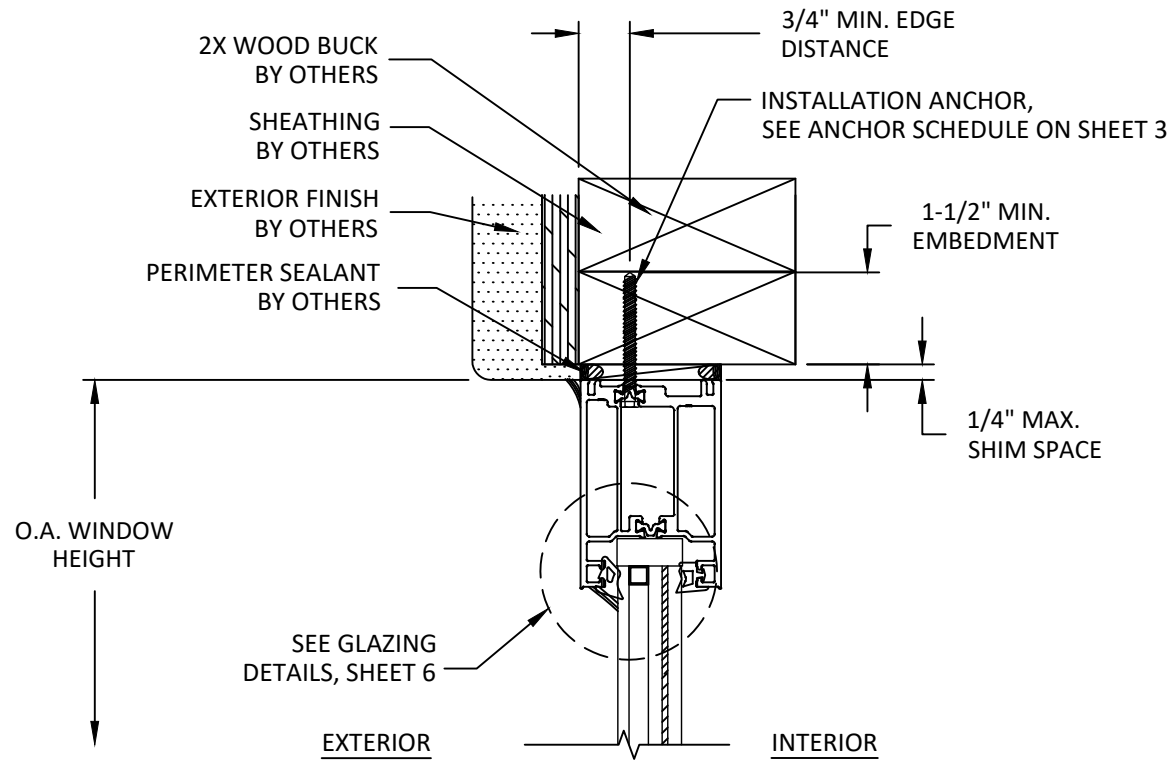
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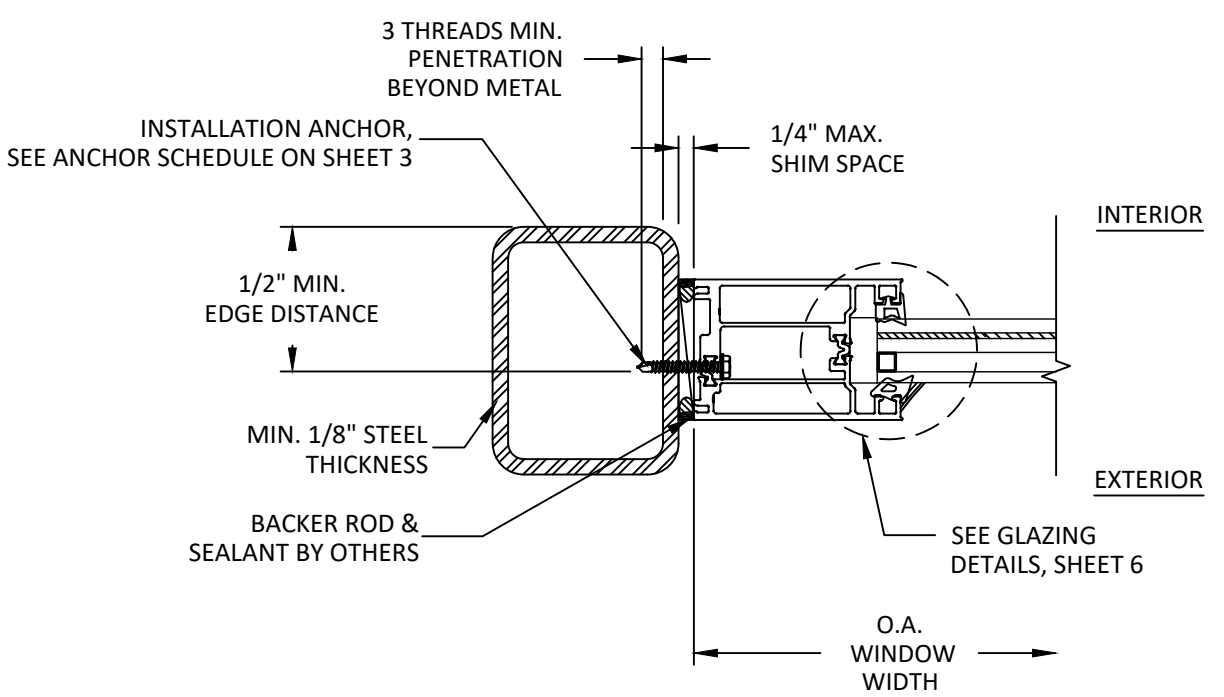
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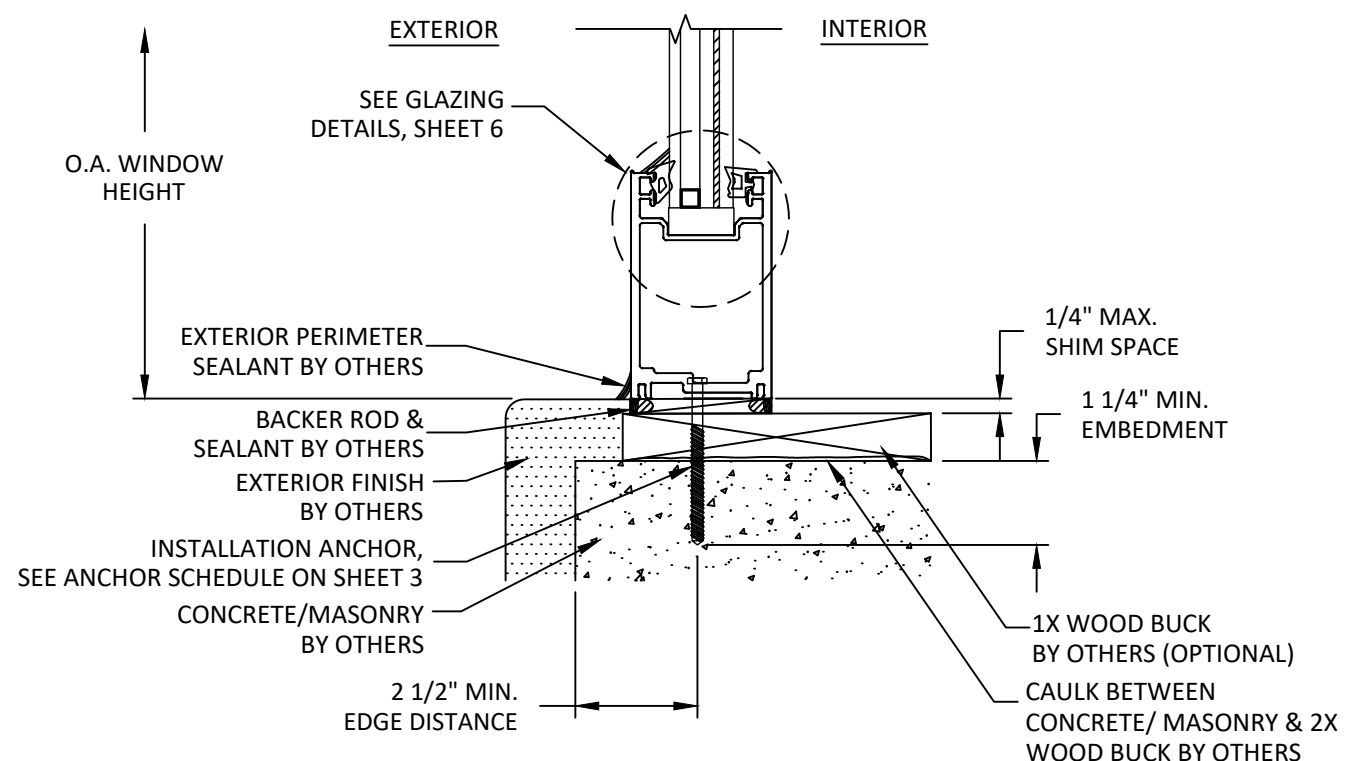
SHEET: **5**



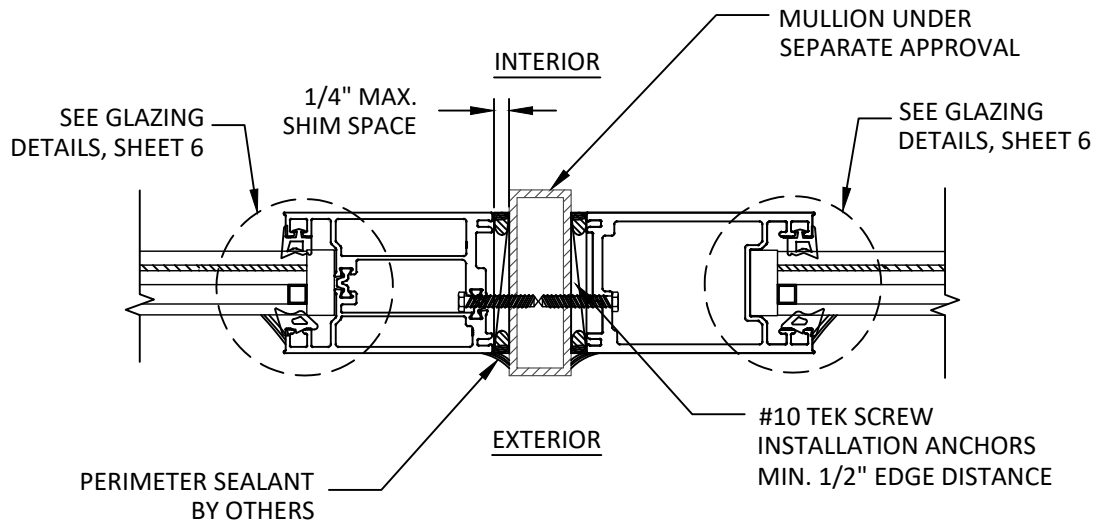
**B**  
**5** **VERTICAL SECTION**  
2X WOOD STUD SUBSTRATE - HEAD  
THERMALLY BROKEN STILE



**C**  
**5** **HORIZONTAL SECTION**  
STEEL TUBE - JAMB  
THERMALLY BROKEN STILE

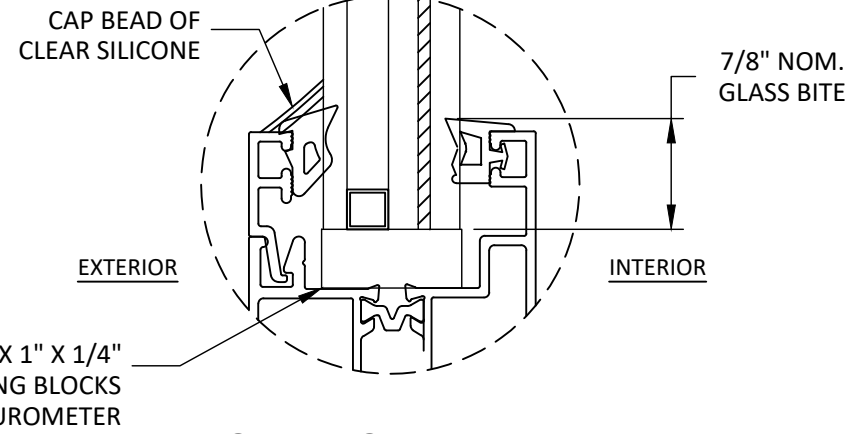


**A**  
**5** **VERTICAL SECTION**  
CONCRETE W/ 1X BUCK (OPTIONAL) - SILL  
NON-THERMALLY BROKEN STILE



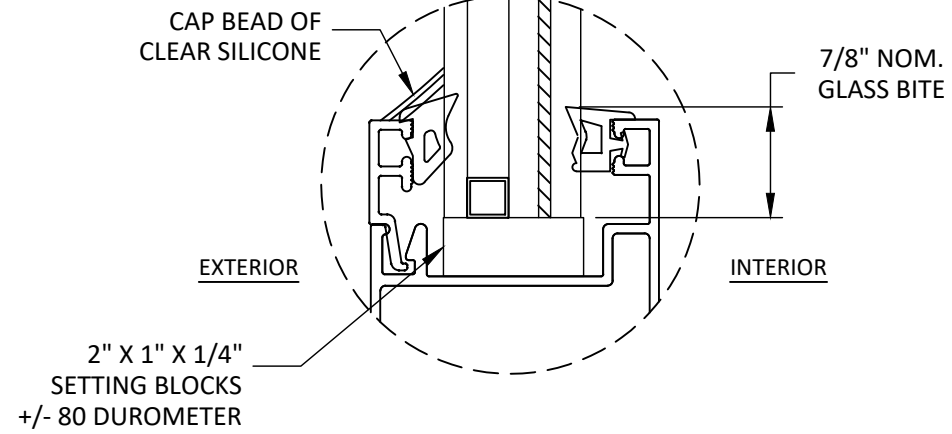
**D**  
**5** **HORIZONTAL SECTION**  
MULLED ASSEMBLIES - JAMB  
THERMALLY BROKEN/NON-THERMALLY BROKEN STILE

1" O.A. IG LAMINATED GLASS:  
1/8" TEMPERED GLASS  
ALUMINUM BOX SPACER  
3/16" ANNEALED GLASS  
0.090" SENTRYGLAS INTERLAYER  
BY KURARAY AMERICA  
3/16" ANNEALED GLASS



**GLAZING DETAIL 1**

1" O.A. IG LAMINATED GLASS:  
1/8" TEMPERED GLASS  
ALUMINUM BOX SPACER  
3/16" ANNEALED GLASS  
0.090" SENTRYGLAS INTERLAYER  
BY KURARAY AMERICA  
3/16" ANNEALED GLASS

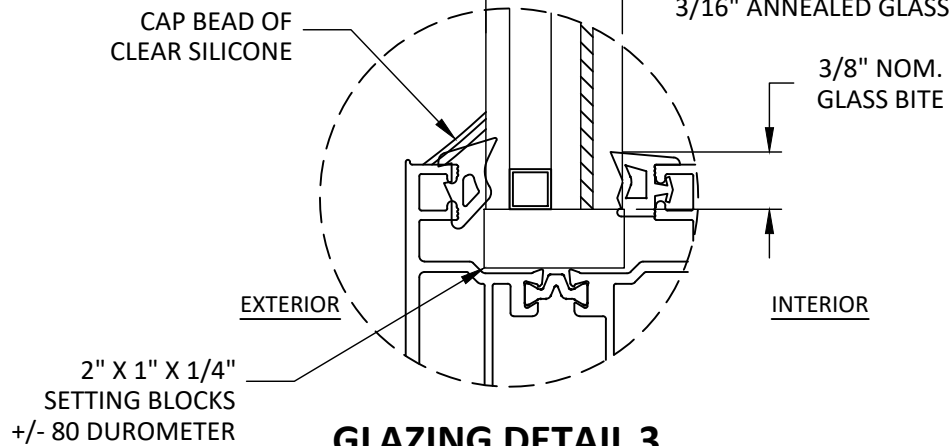


**GLAZING DETAIL 2**

**GLAZING NOTES:**

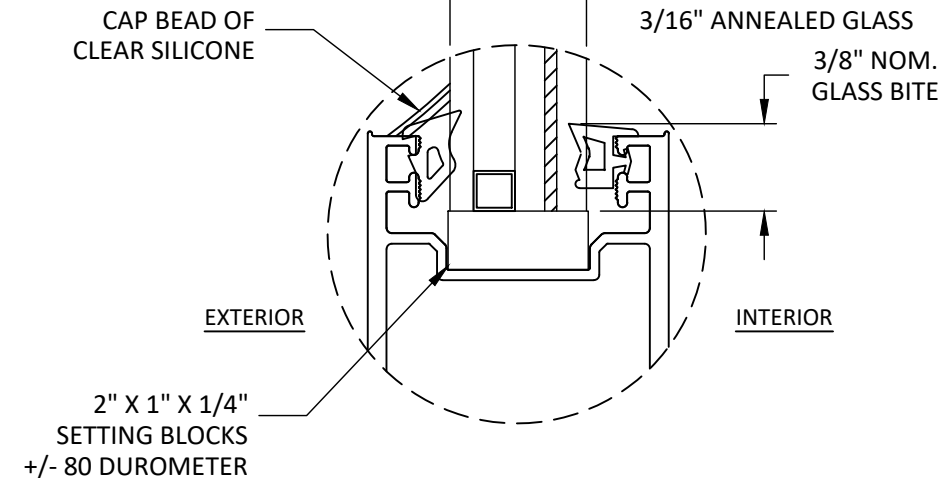
1. GLAZING COMPLIES WITH ASTM E1300 AND FBC SAFETY GLAZING REQUIREMENTS.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER CHAPTER 24.
4. D.L.O. MAY NOT EXCEED MAX DIMENSIONS SHOWN ON

1" O.A. IG LAMINATED GLASS:  
1/8" TEMPERED GLASS  
ALUMINUM BOX SPACER  
3/16" ANNEALED GLASS  
0.090" SENTRYGLAS INTERLAYER  
BY KURARAY AMERICA  
3/16" ANNEALED GLASS



**GLAZING DETAIL 3**

1" O.A. IG LAMINATED GLASS:  
1/8" TEMPERED GLASS  
ALUMINUM BOX SPACER  
3/16" ANNEALED GLASS  
0.090" SENTRYGLAS INTERLAYER  
BY KURARAY AMERICA  
3/16" ANNEALED GLASS



**GLAZING DETAIL 4**

TITLE: EURO C3 TRANSOM WITH MULLION (HVHZ) (IMPACT) GLAZING DETAILS

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DWG. BY:	<b>EG</b>
CHK. BY:	<b>HFN</b>
SCALE:	<b>NTS</b>
DWG. #:	<b>EWS005</b>
SHEET:	<b>6</b>