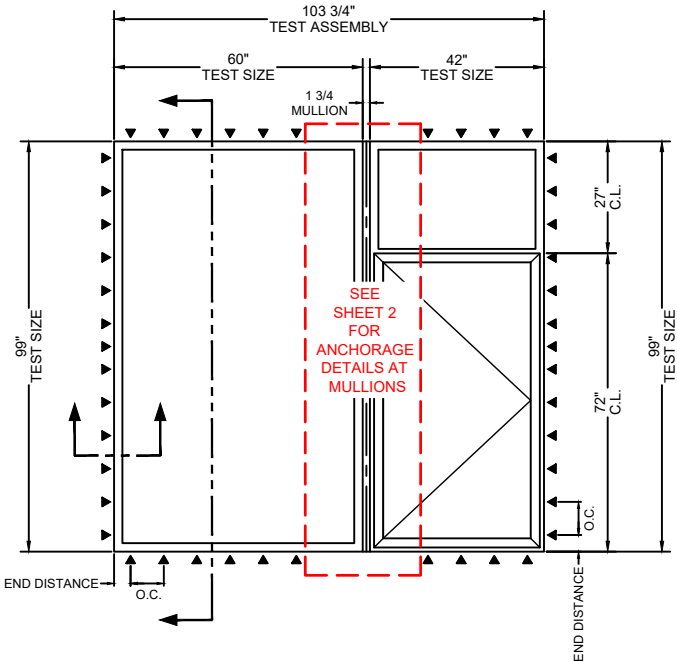


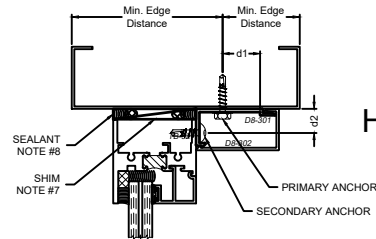
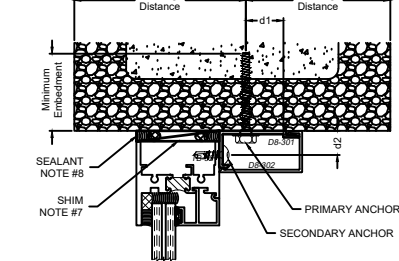
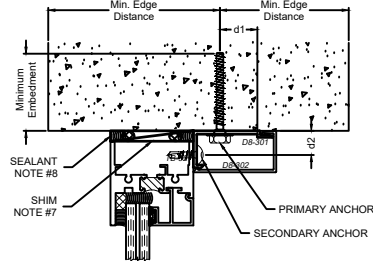
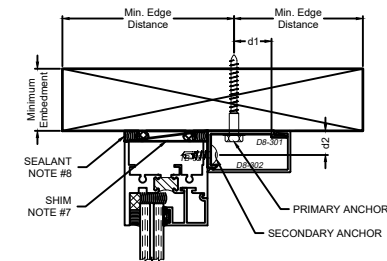
TABLE 1													
		PRIMARY ANCHOR (TO SUBSTRATE CONDITION)						"BACK" ANCHOR (TRIM TO FRAME)					
SUBSTRATE	LOCATION	HARDWARE (ACCEPTABLE TRADE NAME OR EQUIVALENT)	O.C. SPACING (MAX)	END DISTANCE (MAX)	EMBEDMENT (MIN)	SUBSTRATE EDGE DISTANCE (MIN)	d1 INSTALL DIMENSION	HARDWARE (ACCEPTABLE TRADE NAME OR EQUIVALENT)	O.C. SPACING (MAX)	END DISTANCE (MAX)	EMBEDMENT (MIN)	d2 INSTALL DIMENSION	
WOOD SG = 0.42	HEAD	1/4" Ø LAG SCREW, FULL BODY	12"	4"	1-1/2"	1"	13/16"	#10-16 OR #10-24 S.S. CONDITION CW OR SAE GR. 5 STEEL PAN OR HEX WASHER HEAD SCREW	12"	4"	3 THREADS	9/16"	
	SILL												
	JAMB												
CONCRETE 3,000 PSI	HEAD	1/4" Ø HILTI KWIK HUS-EZ (KH-EZ)	15"	4"	2-1/2"	1-3/4"	13/16"						
	SILL		15"										
	JAMB		16"										
CONCRETE 4,000 PSI	HEAD	1/4" Ø HILTI KWIK HUS-EZ (KH-EZ)	18"	4"	2-1/2"	1-3/4"	13/16"						
	SILL												
	JAMB												
CMU (GROUT FILLED) f'm = 1,500 PSI	HEAD	1/4" Ø HILTI KWIK HUS-EZ (KH-EZ)	12"	4"	2-1/2"	1-1/2"	13/16"						
	SILL		8"										
	JAMB		12"										
STEEL STUD (18 ga. 33ksi)	HEAD	1/4"-14 SAE GR. 5 HEX/HWH HILTI KWIK FLEX OR DEWALT DRIL-FLEX	12"	4"	3 THREADS	1"	13/16"						
	SILL												
	JAMB												



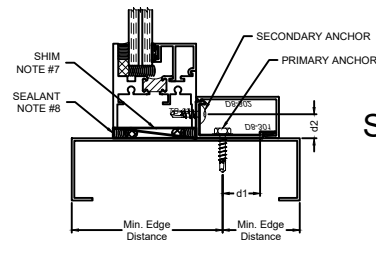
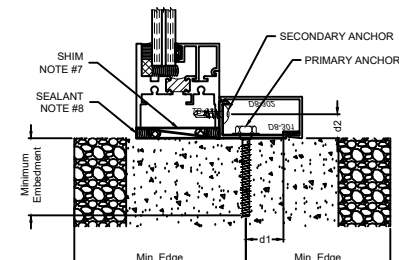
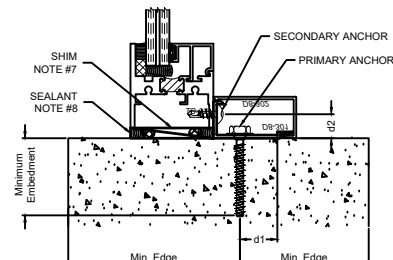
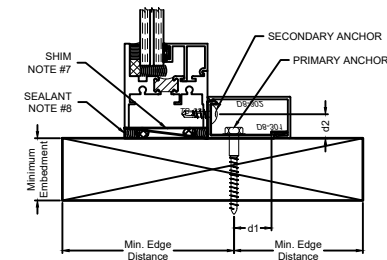
- Installations depicted comply with:
Florida Building Code - 8th Ed. (FBC 2023)
International Building Code (IBC 2021)
National Design Specifications (ANSI/AWC NDS 2018)
Aluminum Design Manual (ADM 2020)
Cold-Formed Steel Design Manual (AISI-S100 2020)

Test Assembly Size: **103-3/4" x 99"** Design pressure: **+/- 70 psf**

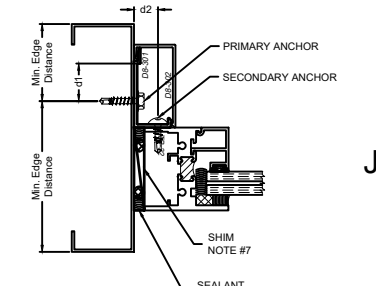
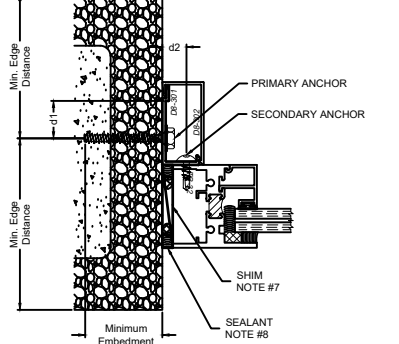
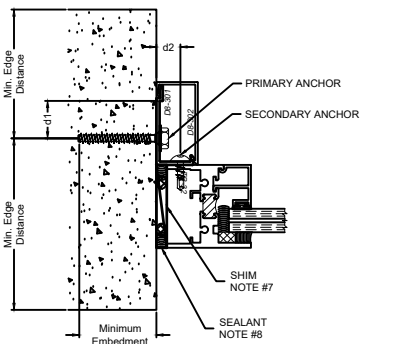
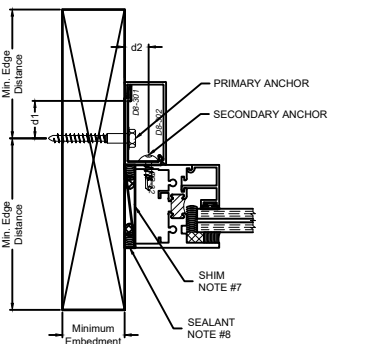
- The installation depicted in this drawing and all calculations are based on a maximum size and design wind pressure rating listed below. The products **have** been proven for resistance to Large Missile Impact per ASTM E1886 / E1996 Missile Level D.
- Test Assembly Size: **103-3/4" x 99"** Design pressure: **+/- 70 psf**
- Lag screws shall be used for a wood substrate. Screw materials and dimensions shall meet the requirements of ANSI / ASME Standard B18.2.1. All lag screw conditions must be pre-drilled with hole diameters of 40-70% of the fastener diameter. Wood buck installations are assumed to use 2 X S-P-F (G= 0.42) or denser. Tapered or partial bucks are not allowed.
- Approved screw anchors shall be used for concrete substrate. Anchor embedment shall be as indicated herein. Install per ESR-3027 requirements. Concrete installations are assumed to be at least f'c = 3,000 (or 4,000) psi, normal weight concrete.
- Approved screw anchors shall be used for CMU substrate. Anchor materials and dimensions shall meet the requirements of ICC-ES AC106 - Acceptance Criteria for Predrilled Fasteners (Screw Anchors) in masonry elements. Anchor embedment shall be as indicated herein. Install per ESR-3056 requirements. Concrete masonry installations are assumed at least ASTM C90, Type II, Grade N, with f'm = 1,500 psi, and type M or S mortar.
- Approved self-drilling screws shall be used for steel stud substrate. All fasteners installed in steel studs shall be SAE grade 5 or better. Steel stud installations assume 18 gauge, 33 ksi studs and follow AISI-S100 rules and procedures.
- Maximum shim thickness of 1/4" permitted at each fastener location. Shims shall be non-compressible and load-bearing type.
- Drawings depict details necessary to meet structural load requirements, but do not address air infiltration, water penetration, intrusion or thermal performance requirements of the installation. See manufacturer's Installation Instructions for sealing, flashing, drainage and other requirements.
- Minimum fastener on center spacing to be coordinated with fastener manufacturer's technical data for the expected substrate.
- All substrate types shall be secured to the building structure to resist all design loads, and shall have widths that exceed the window frame widths.



HEAD



SILL



JAMBS

Wayne K Helmila

RICE ENGINEERING

105 School Creek Trail
Luxemburg, WI 54217
Phone: (920) 617-1042
Fax: (920) 617-1100
www.rice-inc.com

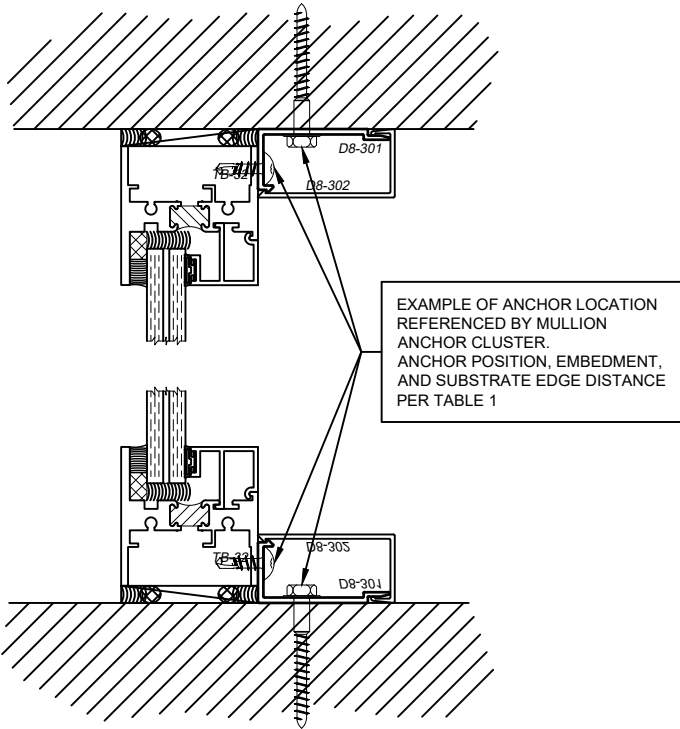
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092



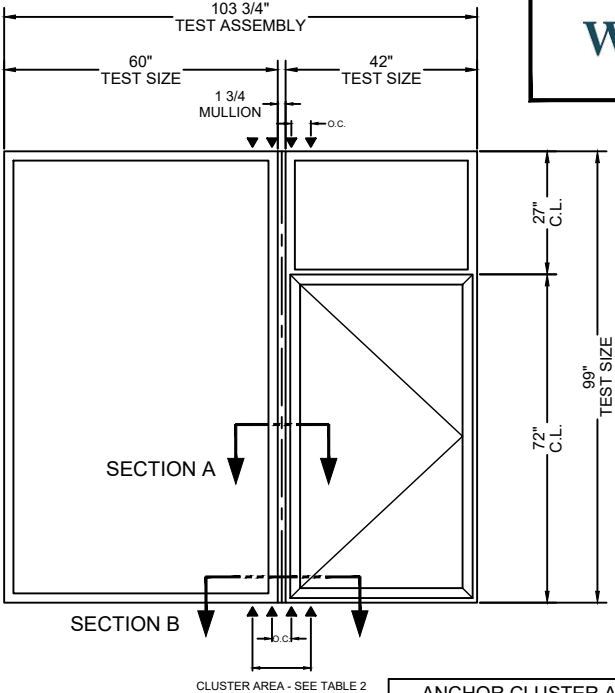
08/05/2024
COA: 9090

Rev.	Description	Date
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△		
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△		
Scale: NONE Drawn by: B. FOOTE		
Winco Window Co. 6200 Maple Ave. St. Louis, MO 63130 PHONE: 314-725-8088		
WINCO Product: 1150 FIXED & CASEMENT MONO		
Installation: ANCHORAGE: SNAP TRIM SHT. 1 OF 2		
Certification: LMI - 1150 MONO - D MISSILE		

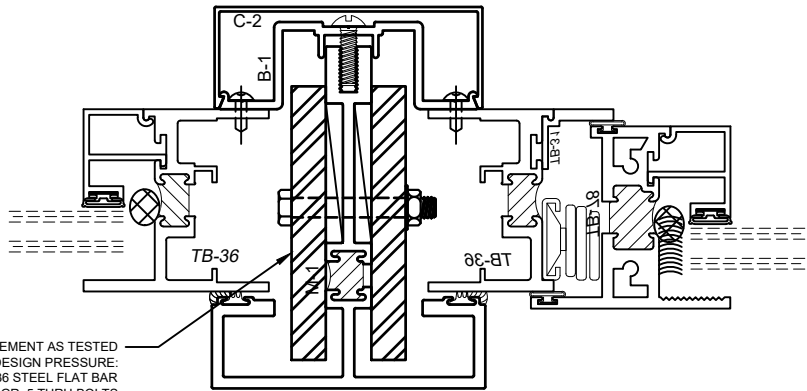
TABLE 2: ANCHOR CLUSTER CENTERED ON MULLION SUPERCEDES NORMAL O.C. SPACING WHERE CLUSTER OCCURS							
PRIMARY ANCHOR (TO SUBSTRATE CONDITION)					"BACK" ANCHOR (TRIM TO FRAME)		
SUBSTRATE	LOCATION	HARDWARE (ACCEPTABLE TRADENAME OR EQUIVALENT)	NUMBER OF ANCHORS IN CLUSTER	O.C. SPACING (MAX)	HARDWARE (ACCEPTABLE TRADE NAME OR EQUIVALENT)	NUMBER OF ANCHORS IN CLUSTER	O.C. SPACING (MAX)
WOOD SG = 0.42	HEAD	1/4" Ø LAG SCREW, FULL BODY	6	4"	#10-16 OR #10-24 S.S. CONDITION CW OR SAE GR. 5 STEEL PAN HEAD SCREW	5	4"
	SILL						
CONCRETE 3,000 PSI	HEAD	1/4" Ø HILTI KWIK HUS-EZ (KH-EZ)	4	5"			
	SILL						
CONCRETE 4,000 PSI	HEAD	1/4" Ø HILTI KWIK HUS-EZ (KH-EZ)	4	5"			
	SILL						
CMU (GROUT FILLED) f _m = 1,500 PSI	HEAD	1/4" Ø HILTI KWIK HUS-EZ (KH-EZ)	6	4"			
	SILL		8				
STEEL STUD (18 ga. 33ksi)	HEAD	1/4"-14 SAE GR. 5 HEX/HWH HILTI KWIK FLEX OR DEWALT DRIL-FLEX	7	4"			
	SILL						



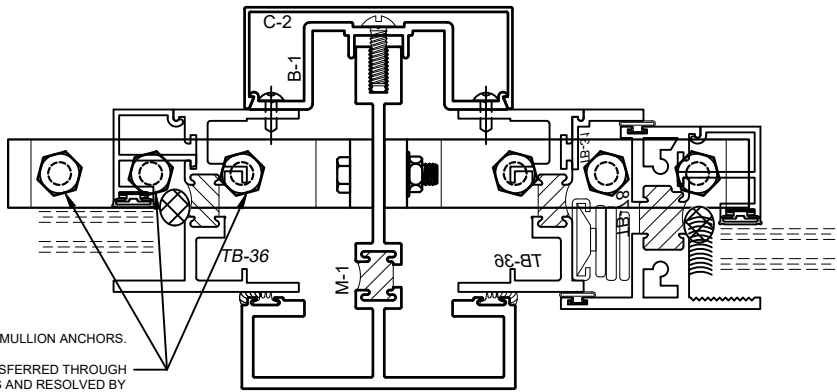
SEE SHEET 1 FOR GENERAL NOTES.



ANCHOR CLUSTER AT MULLIONS
(SEE SHEET 1 FOR ANCHORAGE
DETAILS AT ALL OTHER LOCATIONS)



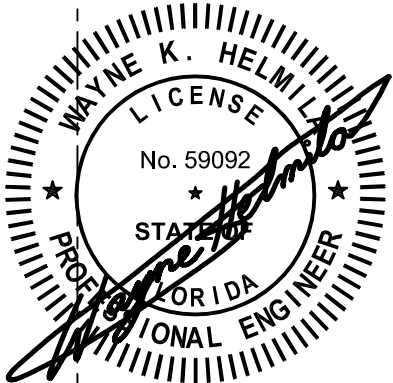
SECTION A: STEEL REINFORCEMENT



SECTION B: ANCH4 (HEAD SIMILAR)

ATTACHMENTS AT MULLION

MULLION CLAMP
ANCHORAGE
TO MULLION & FRAME



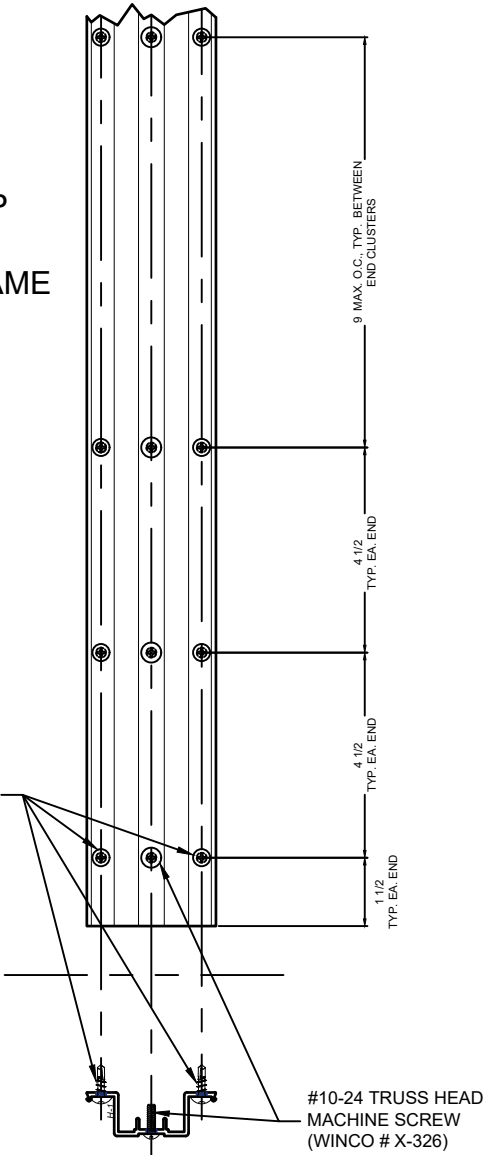
08/05/2024
COA: 9090

#10-16 PAN HEAD
TEK SCREW
(WINCO # X-135)

RICE
ENGINEERING

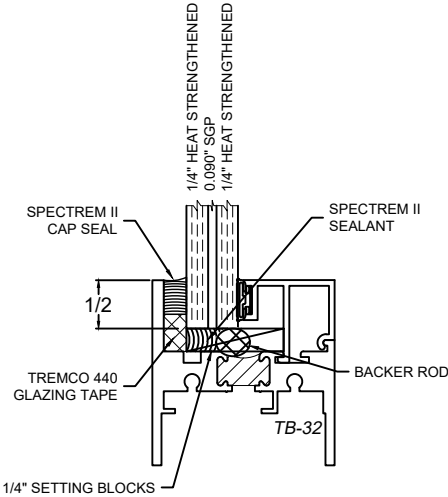
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Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092



#10-24 TRUSS HEAD
MACHINE SCREW
(WINCO # X-326)

GLAZING DETAIL



Reserved Space
for Seal
(Will not print)

Rev.	Description	Date
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▲		
▲		
▲		
▲		

Scale:	NONE	Drawn by:	B. FOOTE
Winco Window Co.			
6200 Maple Ave. St. Louis, MO 63130			
PHONE: 314-725-8088			
WINCO Product: 1150-1150S FIXED & CASEMENT MONO			
Installation: ANCHORAGE: SNAP TRIM SHT. 2 OF 2			
Certification: LMI - 1150-1150S - D MISSILE			