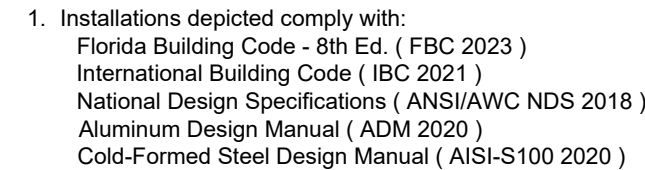


SUBSTRATE	LOCATION	HARDWARE (ACCEPTABLE TRADE NAME OR EQUIVALENT)	O.C. SPACING (MAX)	END DISTANCE (MAX)	EMBEDMENT (MIN)	SUBSTRATE EDGE DISTANCE (MIN)	d1 INSTALL DIMENSION
WOOD S.G. = 0.42	HEAD	1/4" Ø LAG SCREW, FULL BODY	12"	4"	1-1/2"	1"	2"
	SILL						
	JAMB						
CONCRETE 3,000 PSI	HEAD	1/4" Ø HILTI KWIK HUS-EZ (KH-EZ)	18"	4"	2-1/2"	1-3/4"	2"
	SILL		18"				
	JAMB		17"				
CONCRETE 4,000 PSI	HEAD	1/4" Ø HILTI KWIK HUS-EZ (KH-EZ)	20"	4"	2-1/2"	1-3/4"	2"
	SILL		20"				
	JAMB		19"				
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"	2"
	SILL		8"				
	JAMB		12"				
STEEL STUD (18 GA., 33 KSI)	HEAD	1/4"-14 SAE GR. 5 HEX/HWH (HILTI KWIK FLEX, DEWALT DRIL-FLEX)	11"	4"	3 THREADS	1"	2"
	SILL						
	JAMB						



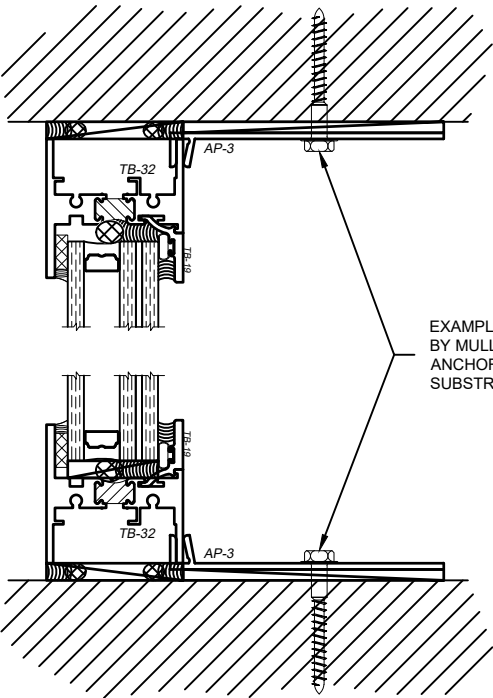
Test Assembly Size: **103-3/4" x 99"** Design pressure: **+/- 70 psf**

- SILL

07/01/2024
COA: 9090

Scale:	Drawn by:
NONE	A. KEARNEY
Winco Window Co. 6200 Maple Ave. St. Louis, MO 63130 PHONE: 314-725-8088	
WINCO Product: 1150-1150S FIXED & CASEMENT	
Installation: ANCHORAGE: F CLIPS SHT. 1 OF 2	
Certification: LMI - 1150-1150S - D MISSILE	

TABLE 2: ANCHOR CLUSTER CENTERED ON MULLION SUPERCEDES NORMAL O.C. SPACING WHERE CLUSTER OCCURS				
SUBSTRATE	LOCATION	HARDWARE (ACCEPTABLE TRADENAME 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"
	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)	3	6"
	SILL			
CMU (GROUT FILLED) f'm = 1,500 PSI	HEAD	1/4" Ø HILTI KWIK HUS-EZ (KH-EZ)	5	4"
	SILL		8	
STEEL STUD (18 ga. 33ksi)	HEAD	1/4"-14 SAE GR. 5 HEX/HWH HILTI KWIK FLEX OR DEWALT DRIL-FLEX	6	4"
	SILL			



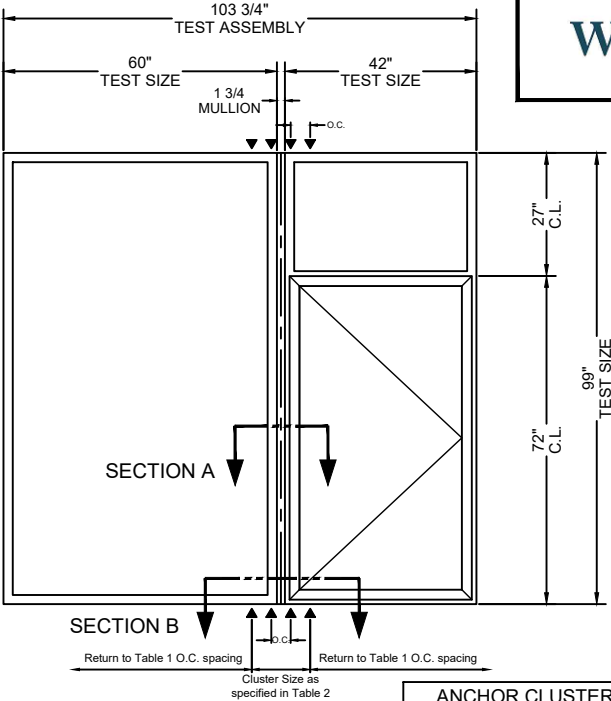
EXAMPLE OF ANCHOR LOCATION REFERENCED
BY MULLION ANCHOR CLUSTER.
ANCHOR POSITION, EMBEDMENT, AND
SUBSTRATE EDGE DISTANCE TO MATCH TABLE 1

RICE
ENGINEERING

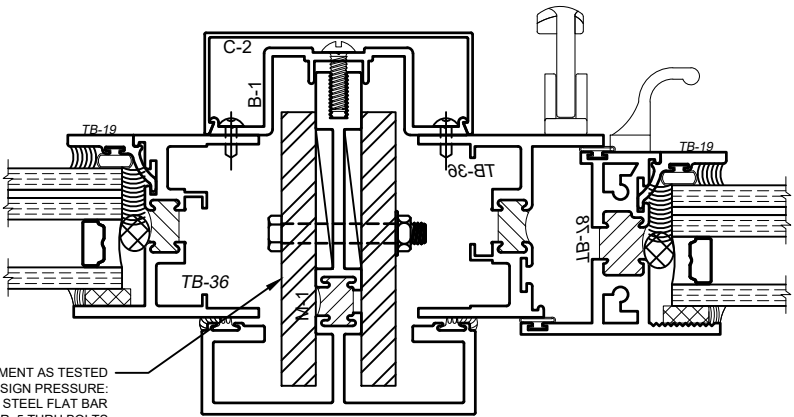
105 School Creek Trail
Luxemburg, WI 54217
Phone: (920) 617-1042
Fax: (920) 617-1100
www.rice-inc.com

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

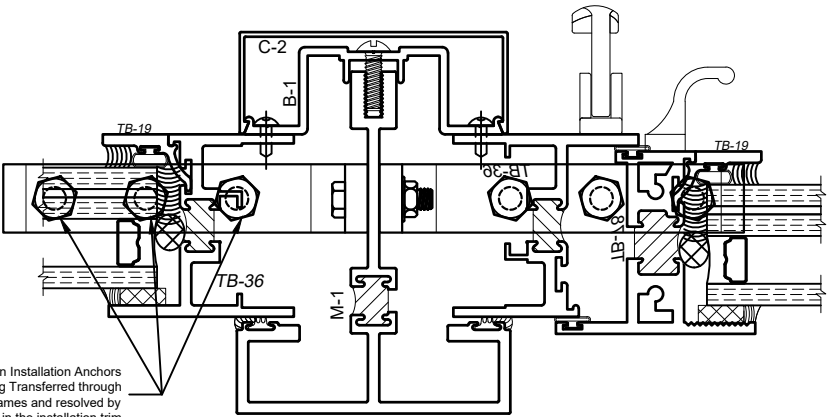
See Sheet 1 for general notes.



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



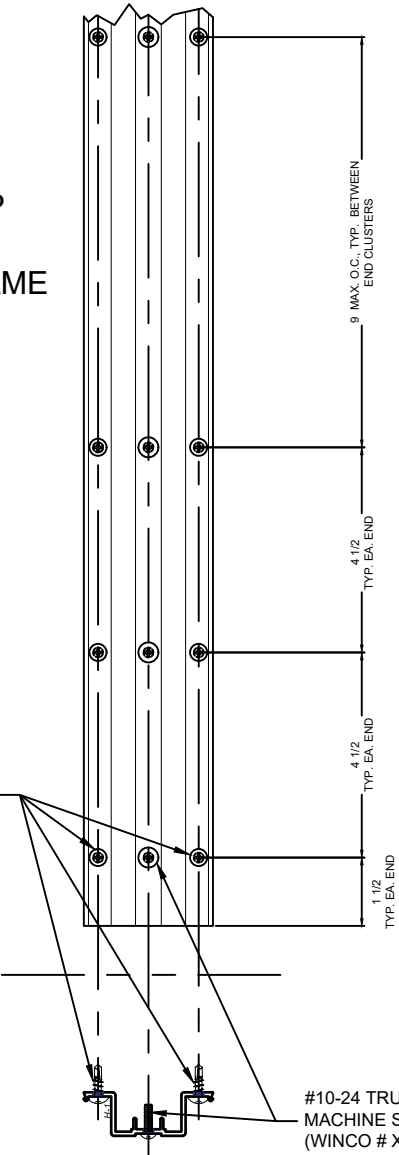
SECTION A: STEEL REINFORCEMENT



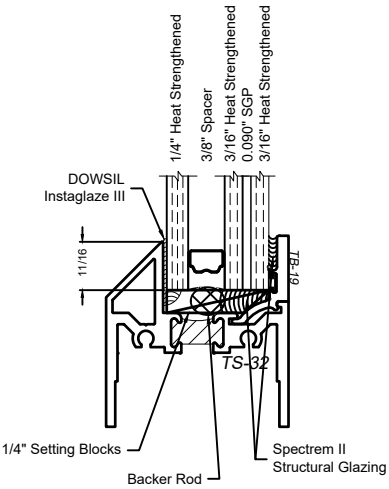
SECTION B: ANCH4 (HEAD SIMILAR)

ATTACHMENTS AT MULLION

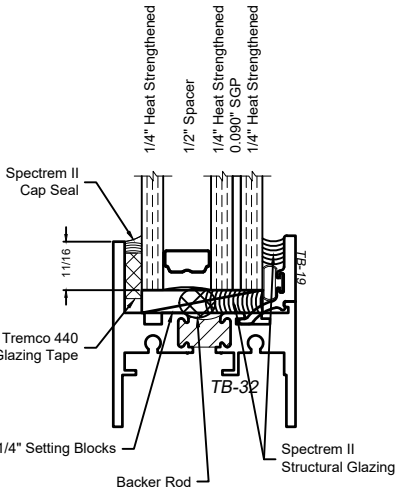
**MULLION CLAMP
ANCHORAGE
TO MULLION & FRAME**



**GLAZING MAKE-UP
AND SERIES VARIATION**



1150S



1150



07/01/2024
COA: 9090

Rev.	Description	Date
△		
△		
△		
△		
△		
Scale: NONE		Drawn by: A. KEARNEY
Winco Window Co. 6200 Maple Ave. St. Louis, MO 63130 PHONE: 314-725-8088		
WINCO Product: 1150-1150S FIXED & CASEMENT		
Installation: ANCHORAGE: F CLIPS SHT. 2 OF 2		
Certification: LMI - 1150-1150S - D MISSILE		