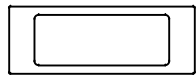


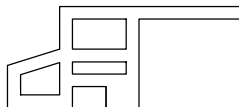


3773 STATE ROAD
CUYAHOGA FALLS, OH 44223

3100 STRUCTURAL TRANSOM MULLION

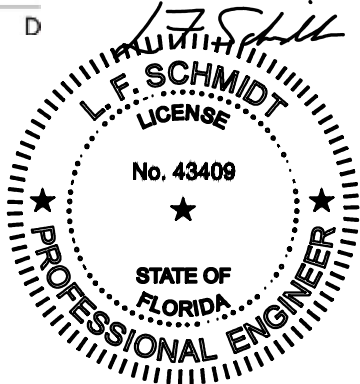


MULLION



BULL NOSE STYLE BRACKET

Digitally
signed by
Lyndon F
Schmidt
Date:
2023.07.14
19:49:31
-04'00'



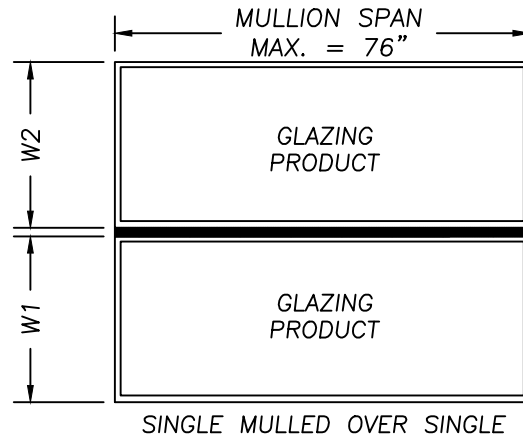
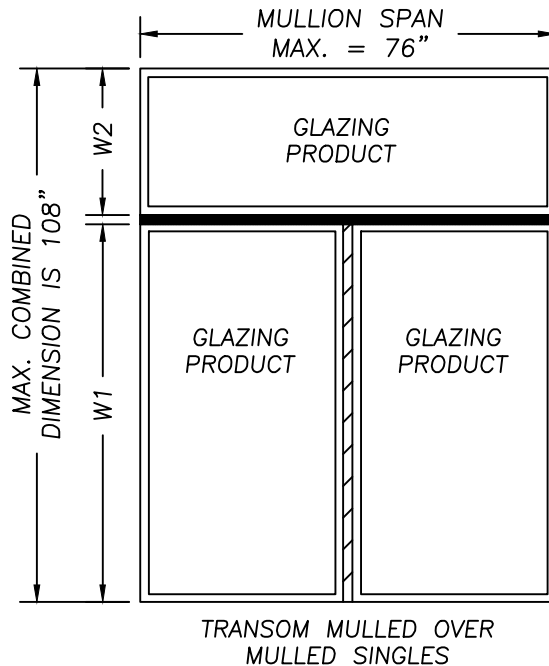
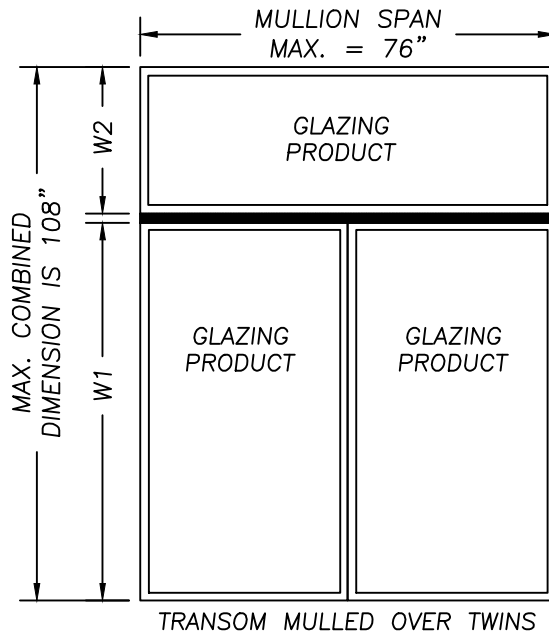
This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

GENERAL NOTES:

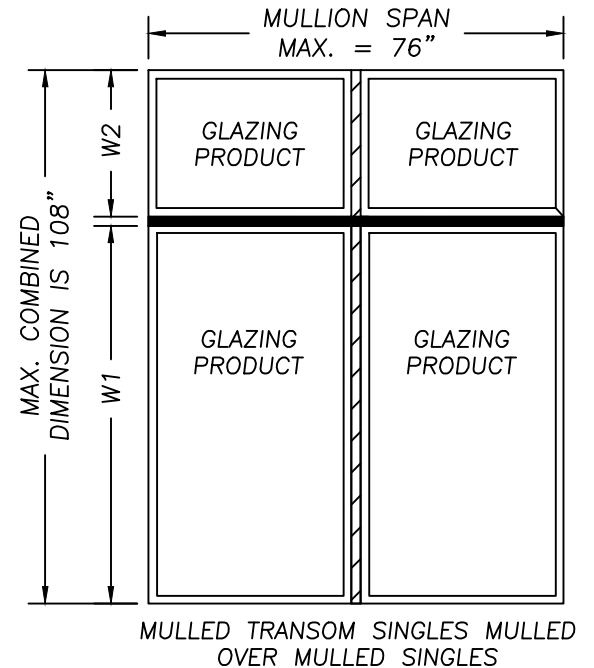
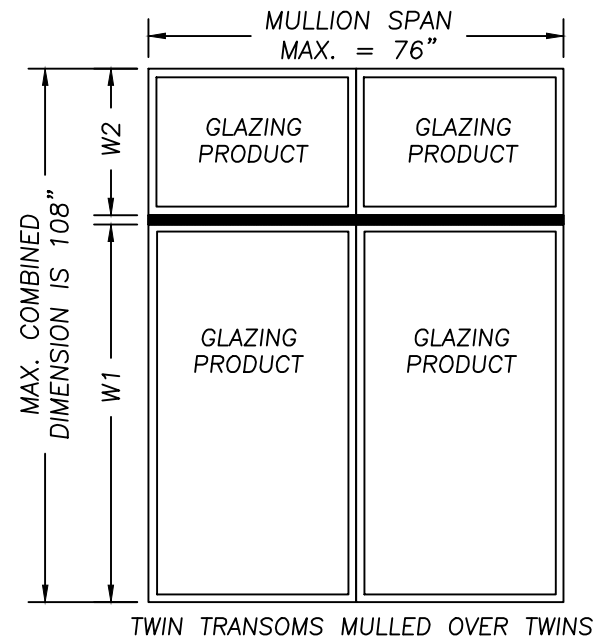
1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) excluding the "High Velocity Hurricane Zone" and conforms to the requirements of FBC Chapter 17.
2. Wood bucks by others, must be anchored properly to transfer loads to the structure and be reviewed by the Building Official.
3. For use on 2x buck or stud construction only. Mullion anchor embedment to base material shall be beyond wall dressing or stucco.
4. When used in areas requiring wind borne debris protection, this product does not require protection from an impact resistant covering when used in Wind Zones 1, 2 and 3 as defined by ASTM E 1996; in Wind Zone 4, as defined by ASTM E 1996, this product must be protected with an impact resistant covering complying with FBC Sections 1609.1.2 & R301.2.1.2.
5. Separate product approvals for each glazing product used with these mullions must be submitted along with this mullion product approval.
6. Anchoring of each glazing product to the mullion shall be as shown in each individual glazing product approval.
7. Any conditions not covered in this evaluation are subject to separate engineering evaluation.
8. Mullion Design Pressure Rating, see Load Rating Table Sheet 2 of this drawing.
9. The design pressure rating of the assembly shall be the lesser of the load capacity of the mullion as determined using this approval or the design pressure rating of the individual glazing products used.
10. Bounding box dimensions for geometric shapes must be equal to or less than the rectangular dimensions shown herein.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	TYPICAL ELEVATIONS AND GENERAL NOTES
2	MULLION LOAD TABLE FOR CONCRETE SCREW ANCHORS
3	MULLION SECTION AND ANCHORING DETAILS



TYPICAL MULLION CONFIGURATIONS

NOTICE:
VERTICAL MULLIONS DEPICTED HERE ARE
COVERED UNDER SEPARATE APPROVAL



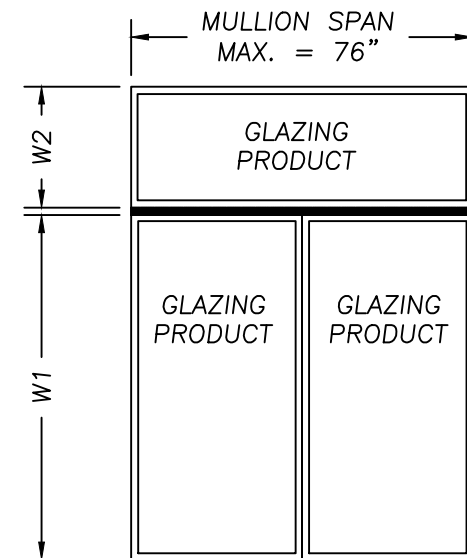
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

PRODUCT:
3100 STRUCTURAL TRANSOM
MULLION

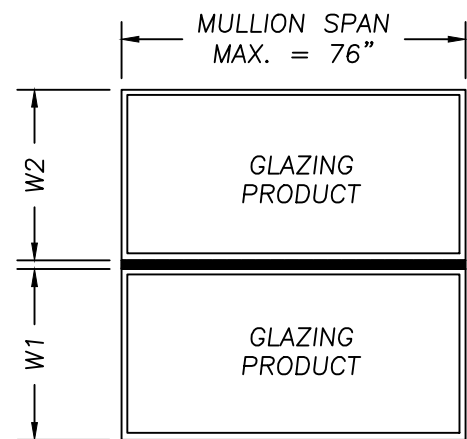
	LFS	LFS	LFS	JK	KV	BY
5	7/14/23	UPDATE TO 8TH ED. (2023) FBC				
4	9/30/20	UPDATE TO 7TH ED. (2020) FBC				
3	7/27/17	UPDATE TO 6TH ED. (2017) FBC				
2	3/03/15	UPDATE TO 5TH ED. (2014) FBC				
1	11/08/11	UPDATE TO 2010 FBC				
NO.	DATE					

DATE: 12/11/08
SCALE: NTS
DWG. BY: DWS
CHK. BY: LFS
DRAWING NO.: FL-12078.4
SHEET 1 OF 3

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



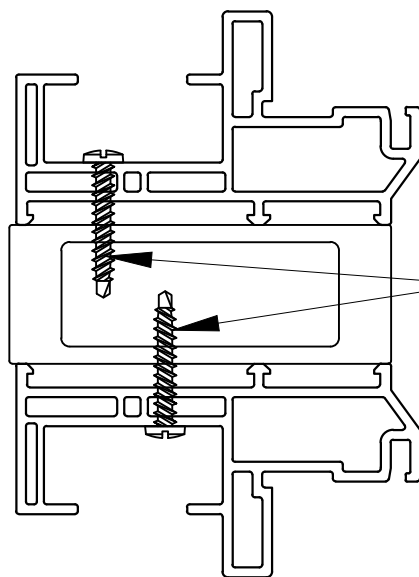
$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$



WOOD SCREW ANCHORS		3100 SERIES STRUCTURAL TRANSOM MULLION LOAD TABLE (PSF), BULL NOSE BRACKET												
		TRIBUTARY WIDTH												
		28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	48"	50"	54"
MULLION SPAN	76"	52.51	49.01	45.95	43.24	40.84	38.69	36.76	35.01	33.42	31.96	30.63	29.41	27.23
	72"	55.43	51.73	48.50	45.65	43.11	40.84	38.80	36.95	35.27	33.74	32.33	31.04	28.74
	70"	57.01	53.21	49.89	46.95	44.34	42.01	39.91	38.01	36.28	34.70	33.26	31.93	29.56
	68"	58.69	54.78	51.35	48.33	45.65	43.24	41.08	39.13	37.35	35.72	34.24	32.87	30.43
	66"	60.47	56.44	52.91	49.80	47.03	44.56	42.33	40.31	38.48	36.81	35.27	33.86	31.35
	64"	62.36	58.20	54.56	51.35	48.50	45.95	43.65	41.57	39.68	37.96	36.38	34.92	32.33
	62"	64.37	60.08	56.32	53.01	50.06	47.43	45.06	42.91	40.96	39.18	37.55	36.05	33.38
	60"	66.51	62.08	58.20	54.78	51.73	49.01	46.56	44.34	42.33	40.49	38.80	37.25	34.49
	58"	68.81	64.22	60.21	56.67	53.52	50.70	48.17	45.87	43.79	41.88	40.14	38.53	35.68
	56"	71.27	66.51	62.36	58.69	55.43	52.51	49.89	47.51	45.35	43.38	41.57	39.91	36.95
	54"	73.90	68.98	64.67	60.86	57.48	54.46	51.73	49.27	47.03	44.99	43.11	41.39	38.32
	52"	76.75	71.63	67.15	63.20	59.69	56.55	53.72	51.16	48.84	46.72	44.77	42.98	39.79
	50"	79.82	74.50	69.84	65.73	62.08	58.81	55.87	53.21	50.79	48.58	46.56	44.70	41.39
	48"	83.14	77.60	72.75	68.47	64.67	61.26	58.20	55.43	52.91	50.61	48.50	46.56	43.11
	46"	86.76	80.97	75.91	71.45	67.48	63.93	60.73	57.84	55.21	52.81	50.61	48.58	44.99
	44"	90.70	84.65	79.36	74.70	70.55	66.83	63.49	60.47	57.72	55.21	52.91	50.79	47.03
	42"	95.02	88.69	83.14	78.25	73.90	70.02	66.51	63.35	60.47	57.84	55.43	53.21	49.27
	40"	99.77	93.12	87.30	82.16	77.60	73.52	69.84	66.51	63.49	60.73	58.20	55.87	51.73
	38"	105.02	98.02	91.89	86.49	81.68	77.39	73.52	70.02	66.83	63.93	61.26	58.81	54.46
	36"	110.86	103.47	97.00	91.29	86.22	81.68	77.60	73.90	70.55	67.48	64.67	62.08	57.48
	34"	117.38	109.55	102.71	96.66	91.29	86.49	82.16	78.25	74.70	71.45	68.47	65.73	60.86
	32"	120.00	116.40	109.13	102.71	97.00	91.89	87.30	83.14	79.36	75.91	72.75	69.84	64.67
	30"	120.00	120.00	116.40	109.55	103.47	98.02	93.12	88.69	84.65	80.97	77.60	74.50	68.98
	28"	120.00	120.00	120.00	117.38	110.86	105.02	99.77	95.02	90.70	86.76	83.14	79.82	73.90
26"	120.00	120.00	120.00	120.00	119.38	113.10	107.45	102.33	97.68	93.43	89.54	85.96	79.59	
24"	120.00	120.00	120.00	120.00	120.00	120.00	120.00	116.40	110.86	105.82	101.22	97.00	93.12	86.22

INSTRUCTIONS FOR USE OF THE MULLION LOAD TABLE:

1. DETERMINE THE DESIGN LOAD REQUIREMENT FOR THE PARTICULAR OPENING AS SPECIFIED BY THE BUILDING DESIGNER (ARCHITECT OR ENGINEER OR RECORD).
2. FOR THE PARTICULAR OPENING, DETERMINE THE TRIBUTARY WIDTH AND MULLION SPAN. REFERENCE THE SKETCHES ON THIS SHEET FOR MULLION SPAN AND TRIBUTARY WIDTH DETERMINATION.
3. IN THE FIRST COLUMN OF THE TABLE, LOCATE THE MULLION SPAN. IN THE FIRST ROW OF THE TABLE, LOCATE THE TRIBUTARY WIDTH. AT THE INTERSECTION OF THE ROW CONTAINING THE MULLION SPAN AND THE COLUMN CONTAINING THE TRIBUTARY WIDTH, READ THE MULLION LOAD RATING GIVEN IN PSF. THE MULLION LOAD RATING MUST BE EQUAL TO OR GREATER THAN THE DESIGN LOAD REQUIREMENT DETERMINED IN STEP 1 ABOVE.



FOR ANCHORING GLAZING PRODUCTS TO THE MULLION, ANCHOR SIZE AND SPACING SHALL BE AS SPECIFIED IN ONE OF THE FOLLOWING:

1. SUBSTITUTE (1 FOR 1) 1/4"-14 SELF-DRILLING SCREWS FOR THE FASTENERS SHOWN IN THE INDIVIDUAL GLAZING PRODUCT APPROVAL.
2. SUBSTITUTE #8-18 PANHEAD SELF-DRILLING SCREWS FOR THE FASTENERS SHOWN IN THE INDIVIDUAL GLAZING PRODUCT APPROVAL. MAXIMUM FASTENER SPACING ALLOWED IS 6" FROM EACH END AND AT 15" O.C. MAX. SPACING.

NOTE: A MINIMUM OF 3 THREADS OF THE SELF-DRILLING SCREWS MUST PROTRUDE THROUGH THE WALL OF THE MULLION. THIS SECTION VIEW IS SHOWN FOR ILLUSTRATIVE PURPOSES; OTHER FRAME SECTIONS OF FLORIDA APPROVED WINDOWS BY ALSIDE WINDOWS CAN BE USED IN THIS FASHION.

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409					
 BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813					
PRODUCT:					
3100 STRUCTURAL TRANSOM MULLION					
PART OR ASSEMBLY:					
MULLION LOAD TABLE FOR CONCRETE SCREW ANCHORS					
		UPDATE TO 8TH ED. (2023)	FBC	LFS	
5	7/14/23	UPDATE TO 7TH ED. (2020)	FBC	LFS	
4	9/30/20	UPDATE TO 6TH ED. (2017)	FBC	LFS	
3	7/27/17	UPDATE TO 5TH ED. (2014)	FBC	JK	
2	3/03/15	UPDATE TO 2010 FBC		KV	
1	11/08/11			BY	
NO.	DATE				
				REVISIONS	
DATE: 12/11/08					
SCALE: NTS					
DWG. BY: DWS					
CHK. BY: LFS					
DRAWING NO.: FL-12078.4					
SHEET 2 OF 3					

1"

.75"

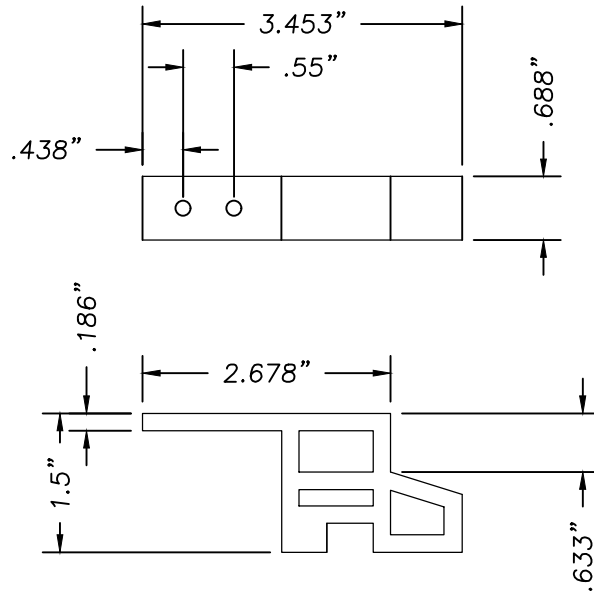
2"

.375"

2.75"

.375"

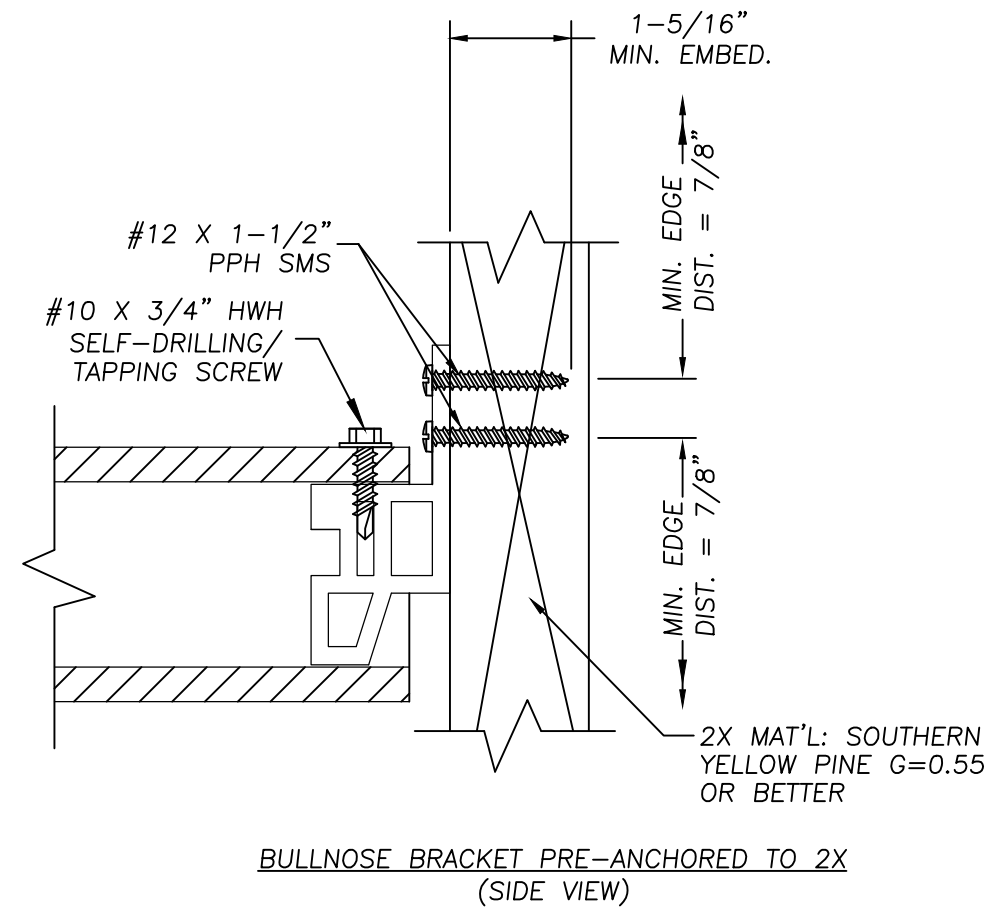
MULLION
MAT'L: 6063-T6



#10 X 3/4" HWH
SELF DRILLING/
TAPPING SCREW

.25"
MAX.

This technical drawing shows a side view of a self-drilling tapping screw assembly. A screw is shown passing through a horizontal plate into a vertical wall. A leader line points from the text "#10 X 3/4" HWH SELF DRILLING/TAPPING SCREW" to the screw. A dimension line indicates a maximum clearance of ".25" MAX." between the screw head and the plate. The drawing uses standard engineering conventions, including break lines to indicate that the assembly continues beyond the shown boundaries.



DATE:	12/11/08
SCALE:	NTS
DWG. BY:	DWS
CHK. BY:	LFS
DRAWING NO.:	FL-12078.4
SHEET	3 OF 3

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