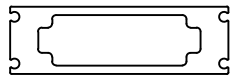


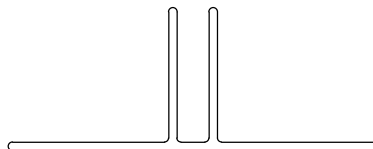


3773 STATE ROAD
CUYAHOGA FALLS, OH 44223

"I" SERIES STRUCTURAL TRANSOM MULLION

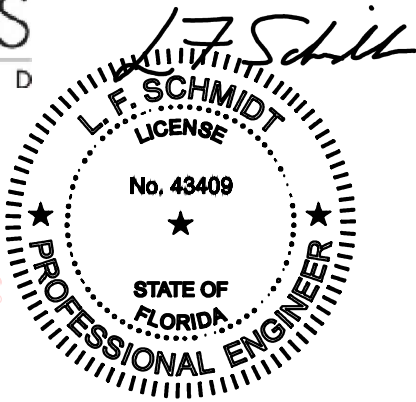


MULLION



GOAL POST STYLE BRACKET

Digitally
signed by
Lyndon F
Schmidt
Date:
2023.07.14
19:43:17 -04'00'



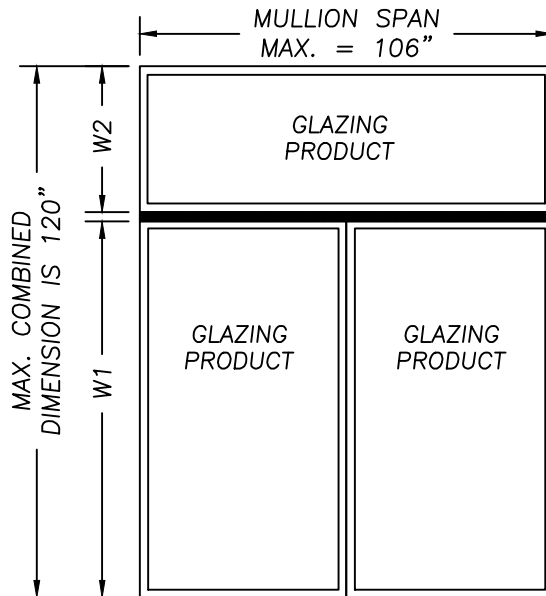
This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

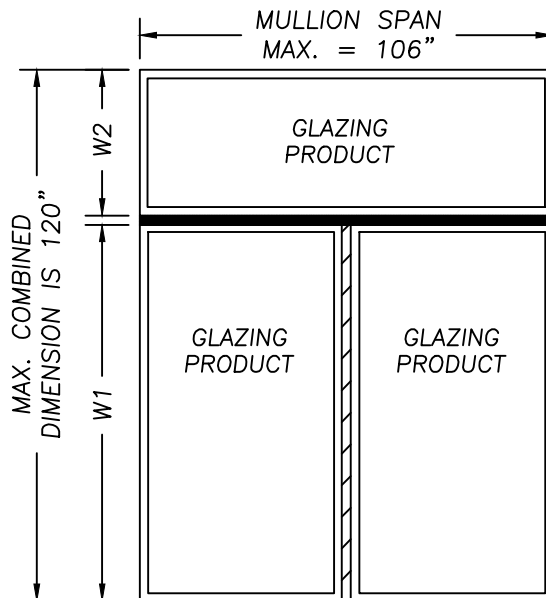
GENERAL NOTES:

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. 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 Sheets 2 and 3 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.

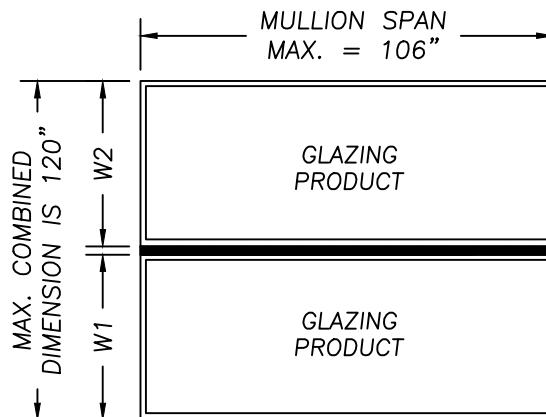
TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	TYPICAL ELEVATIONS & GENERAL NOTES
2	MULLION LOAD TABLE FOR WOOD SCREW ANCHORS
3	MULLION LOAD TABLE FOR CONCRETE SCREW ANCHORS
4	MULLION SECTION & ANCHOR DETAILS



TRANSOM MULLED OVER TWINS



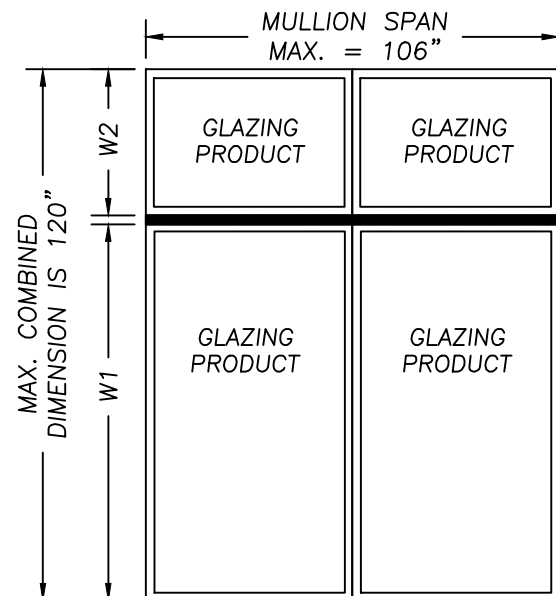
TRANSOM MULLED OVER
MULLED SINGLES



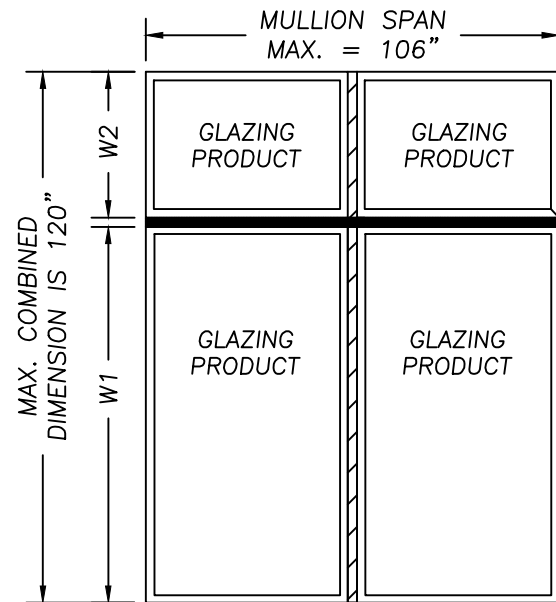
SINGLE MULLED OVER SINGLE

TYPICAL MULLION CONFIGURATIONS

NOTICE:
VERTICAL MULLIONS DEPICTED HERE ARE
COVERED UNDER SEPARATE APPROVAL



TWIN TRANSOMS MULLED OVER TWINS



MULLED TRANSOM SINGLES MULLED
OVER MULLED SINGLES

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

PRODUCT:
STRUCTURAL TRANSOM

LFS	FBC	DATE
LFS	FBC	7/14/23
LFS	FBC	9/30/20
LFS	FBC	7/27/17
LFS	FBC	5/09/16
JK	FBC	3/03/15
KV	FBC	11/08/11
BY		NO. DATE

DATE: 01/28/09

SCALE: NTS

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

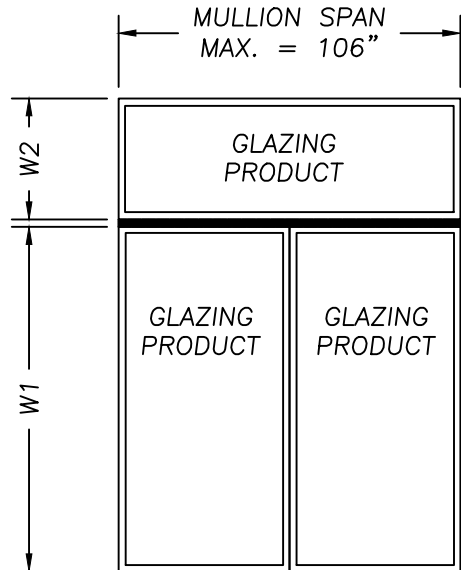
FL-12078.6

SHEET 1 OF 4

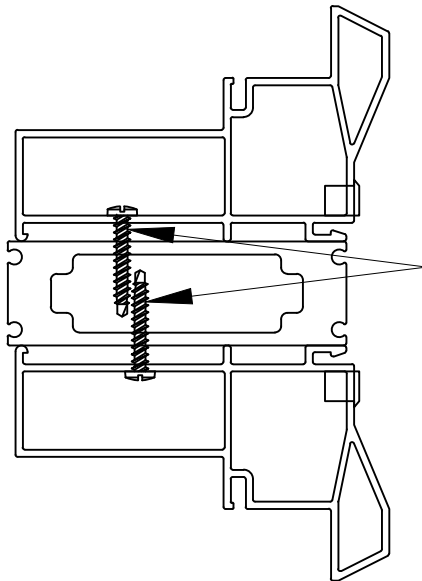
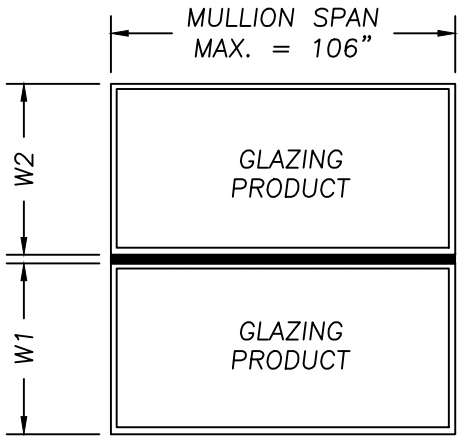
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PART OR ASSEMBLY:
TYPICAL ELEVATION AND
GENERAL NOTES

G:\2023 FBC DRAWINGS\Associated Materials, Inc\FL-12078 R8\FL-12078.1-3.5.6.dwg



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



SECTION THRU MULLION & FRAME

WOOD SCREW ANCHORS		"I" SERIES STRUCTURAL TRANSOM MULLION LOAD TABLE (PSF)												
		TRIBUTARY WIDTH												
		24"	28"	32"	36"	40"	42"	44"	48"	50"	52"	54"	56"	60"
MULLION SPAN	106"	40.0	34.0	30.0	27.0	24.0	23.0	22.0	20.0	19.0	18.0	18.0	17.0	16.0
	100"	48.0	41.0	36.0	32.0	29.0	27.0	26.0	24.0	23.0	22.0	21.0	20.0	19.0
	96"	54.0	47.0	41.0	36.0	32.0	31.0	29.0	27.0	26.0	25.0	24.0	23.0	21.0
	92"	62.0	53.0	46.0	41.0	37.0	35.0	34.0	31.0	29.0	28.0	27.0	26.0	24.0
	88"	71.0	61.0	53.0	47.0	42.0	40.0	38.0	35.0	34.0	32.0	31.0	30.0	28.0
	86"	75.0	65.0	57.0	50.0	45.0	43.0	41.0	38.0	36.0	35.0	33.0	32.0	30.0
	84"	75.0	70.0	61.0	54.0	49.0	46.0	44.0	41.0	39.0	37.0	36.0	35.0	32.0
	82"	75.0	75.0	66.0	58.0	52.0	50.0	48.0	44.0	42.0	40.0	39.0	37.0	35.0
	80"	75.0	75.0	71.0	63.0	56.0	54.0	51.0	47.0	45.0	43.0	42.0	40.0	37.0
	78"	75.0	75.0	75.0	68.0	61.0	58.0	55.0	51.0	49.0	47.0	45.0	43.0	40.0
	76"	75.0	75.0	75.0	73.0	66.0	63.0	60.0	55.0	53.0	51.0	49.0	47.0	44.0
	74"	75.0	75.0	75.0	75.0	72.0	68.0	65.0	60.0	57.0	55.0	53.0	51.0	48.0
	72"	75.0	75.0	75.0	75.0	74.0	70.0	67.0	62.0	59.0	57.0	55.0	53.0	49.0
	70"	75.0	75.0	75.0	75.0	75.0	72.0	69.0	63.0	61.0	58.0	56.0	54.0	51.0
	68"	75.0	75.0	75.0	75.0	75.0	75.0	71.0	65.0	63.0	60.0	58.0	56.0	52.0
	66"	75.0	75.0	75.0	75.0	75.0	75.0	73.0	67.0	64.0	62.0	60.0	57.0	54.0
	64"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	69.0	66.0	64.0	62.0	59.0	55.0
	62"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	72.0	69.0	66.0	64.0	61.0	57.0
	60"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	74.0	71.0	68.0	66.0	63.0	59.0
	58"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	73.0	71.0	68.0	65.0	61.0
	56"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	73.0	70.0	68.0	63.0
	54"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	73.0	70.0	66.0
	52"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	73.0	68.0
	50"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	71.0
	48"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	74.0
	40"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0

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:

STRUCTURAL TRANSOM

PART OR ASSEMBLY:

MULLION LOAD TABLE FOR
WOOD SCREW ANCHORS

NO.	DATE	REVISIONS
6	7/14/23	UPDATE TO 8TH ED. (2023) FBC
5	9/30/20	UPDATE TO 7TH ED. (2020) FBC
4	7/27/17	UPDATE TO 6TH ED. (2017) FBC
3	5/09/16	REVISE ANCHOR BRACKET
2	3/03/15	UPDATE TO 5TH ED. (2014) FBC
1	11/08/11	UPDATE TO 2010 FBC
NO.	DATE	

DATE: 01/28/09

SCALE: NTS

DWG. BY: JK

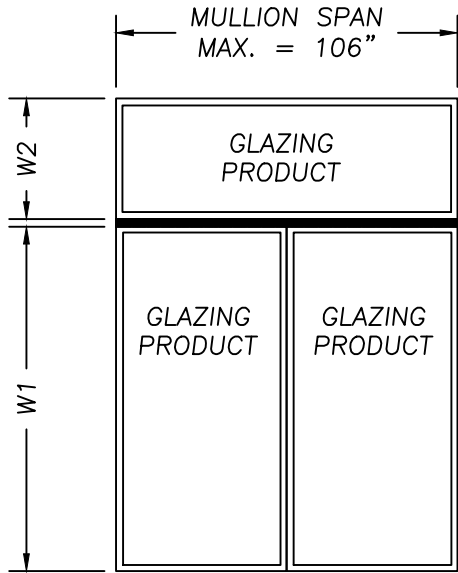
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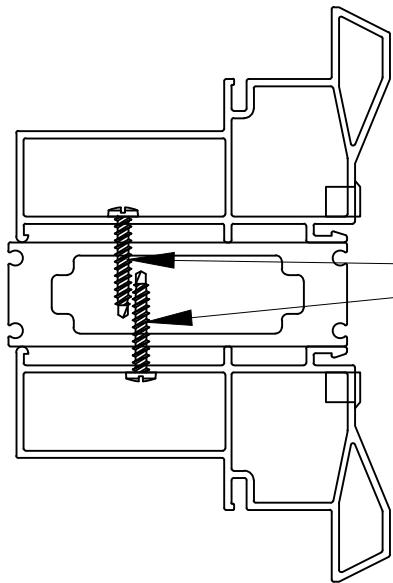
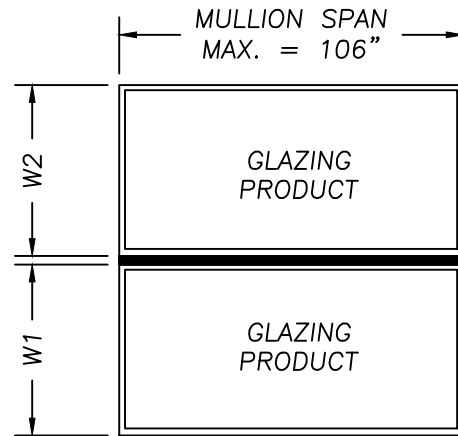
FL-12078.6

SHEET 2 OF 4

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



SECTION THRU MULLION & FRAME

CONCRETE SCREW ANCHORS		"I" SERIES STRUCTURAL TRANSOM MULLION LOAD TABLE (PSF)												
		TRIBUTARY WIDTH												
		24"	28"	32"	36"	40"	42"	44"	48"	50"	52"	54"	56"	60"
MULLION SPAN	106"	40.0	34.0	30.0	27.0	24.0	23.0	22.0	20.0	19.0	18.0	18.0	17.0	16.0
	100"	48.0	41.0	36.0	32.0	28.0	27.0	26.0	24.0	23.0	22.0	21.0	20.0	19.0
	96"	50.0	42.0	37.0	33.0	30.0	28.0	27.0	25.0	24.0	23.0	22.0	21.0	20.0
	92"	52.0	44.0	39.0	34.0	31.0	29.0	28.0	26.0	25.0	24.0	23.0	22.0	20.0
	88"	54.0	46.0	40.0	36.0	32.0	31.0	29.0	27.0	26.0	25.0	24.0	23.0	21.0
	86"	55.0	47.0	41.0	37.0	33.0	31.0	30.0	27.0	26.0	25.0	24.0	23.0	22.0
	84"	57.0	48.0	42.0	38.0	34.0	32.0	31.0	28.0	27.0	26.0	25.0	24.0	22.0
	82"	58.0	50.0	43.0	39.0	35.0	33.0	31.0	29.0	28.0	27.0	26.0	25.0	23.0
	80"	60.0	51.0	45.0	40.0	36.0	34.0	32.0	30.0	28.0	27.0	26.0	25.0	24.0
	78"	61.0	52.0	46.0	41.0	36.0	35.0	33.0	30.0	29.0	28.0	27.0	26.0	24.0
	76"	63.0	54.0	47.0	42.0	37.0	36.0	34.0	31.0	30.0	29.0	28.0	27.0	25.0
	74"	64.0	55.0	48.0	43.0	38.0	37.0	35.0	32.0	31.0	29.0	28.0	27.0	25.0
	72"	66.0	57.0	50.0	44.0	40.0	38.0	36.0	33.0	32.0	30.0	29.0	28.0	26.0
	70"	68.0	58.0	51.0	45.0	41.0	39.0	37.0	34.0	32.0	31.0	30.0	29.0	27.0
	68"	70.0	60.0	52.0	47.0	42.0	40.0	38.0	35.0	33.0	32.0	31.0	30.0	28.0
	66"	72.0	62.0	54.0	48.0	43.0	41.0	39.0	36.0	34.0	33.0	32.0	31.0	29.0
	64"	75.0	64.0	56.0	50.0	45.0	42.0	40.0	37.0	36.0	34.0	33.0	32.0	30.0
	62"	75.0	66.0	58.0	51.0	46.0	44.0	42.0	38.0	37.0	35.0	34.0	33.0	30.0
	60"	75.0	68.0	60.0	53.0	48.0	45.0	43.0	40.0	38.0	36.0	35.0	34.0	32.0
	58"	75.0	70.0	62.0	55.0	49.0	47.0	45.0	41.0	39.0	38.0	36.0	35.0	33.0
	56"	75.0	73.0	64.0	57.0	51.0	48.0	46.0	42.0	41.0	39.0	38.0	36.0	34.0
	54"	75.0	75.0	66.0	59.0	53.0	50.0	48.0	44.0	42.0	41.0	39.0	38.0	35.0
	52"	75.0	75.0	69.0	61.0	55.0	52.0	50.0	46.0	44.0	42.0	41.0	39.0	36.0
	50"	75.0	75.0	72.0	64.0	57.0	54.0	52.0	48.0	46.0	44.0	42.0	41.0	38.0
	48"	75.0	75.0	75.0	66.0	60.0	57.0	54.0	50.0	48.0	46.0	44.0	42.0	40.0
	40"	75.0	75.0	75.0	75.0	72.0	68.0	65.0	60.0	57.0	55.0	53.0	51.0	48.0

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:

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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

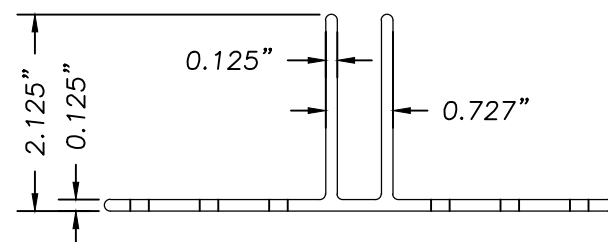
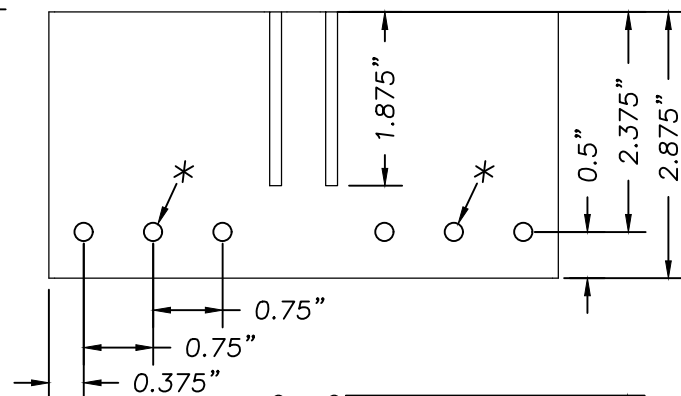
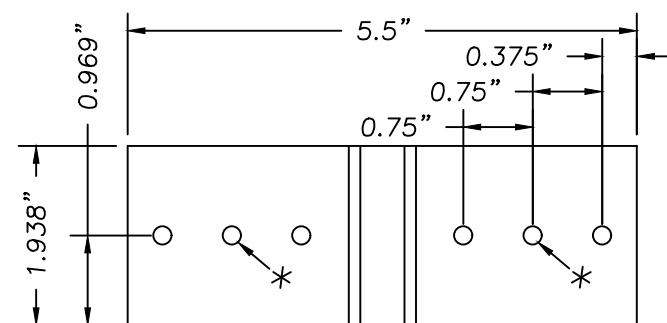
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
STRUCTURAL TRANSOM

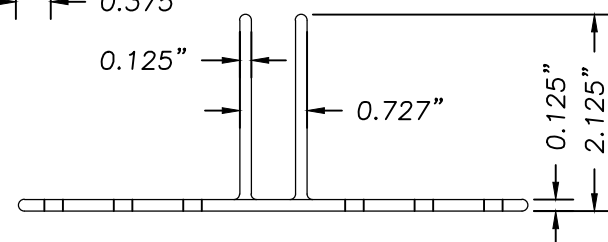
PART OR ASSEMBLY:
MULLION LOAD TABLE FOR
CONCRETE SCREW ANCHORS

NO.	DATE	REVISIONS					
		LFS	FBC	(2023)	8TH ED.	LFS	FBC
6	7/14/23	UPDATE TO	8TH ED.	(2023)	FBC	LFS	FBC
5	9/30/20	UPDATE TO	7TH ED.	(2020)	FBC	LFS	FBC
4	7/27/17	UPDATE TO	6TH ED.	(2017)	FBC	LFS	FBC
3	5/09/16	REVISE	ANCHOR BRACKET			LFS	FBC
2	3/03/15	UPDATE TO	5TH ED.	(2014)	FBC	JK	
1	11/08/11	UPDATE TO	2010 FBC			KV	

DATE: 01/28/09
SCALE: NTS
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-12078.6
SHEET 3 OF 4

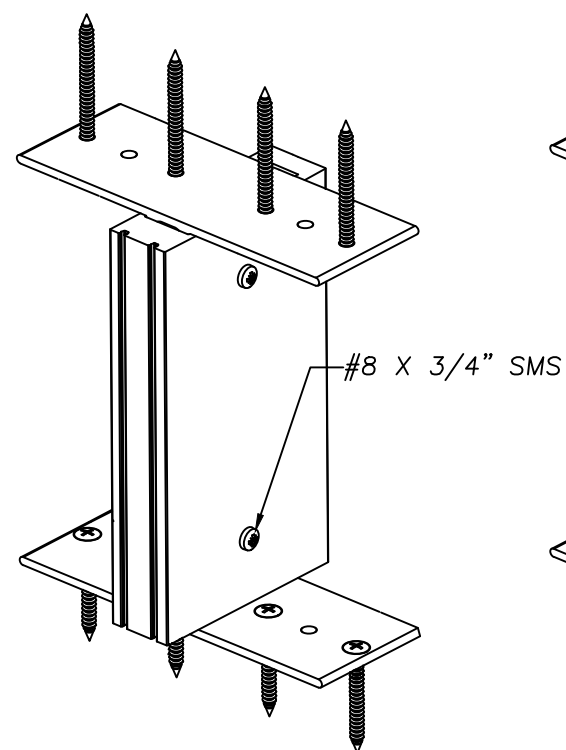


MULLION ANCHOR BRACKET
MAT'L: 6063-T6

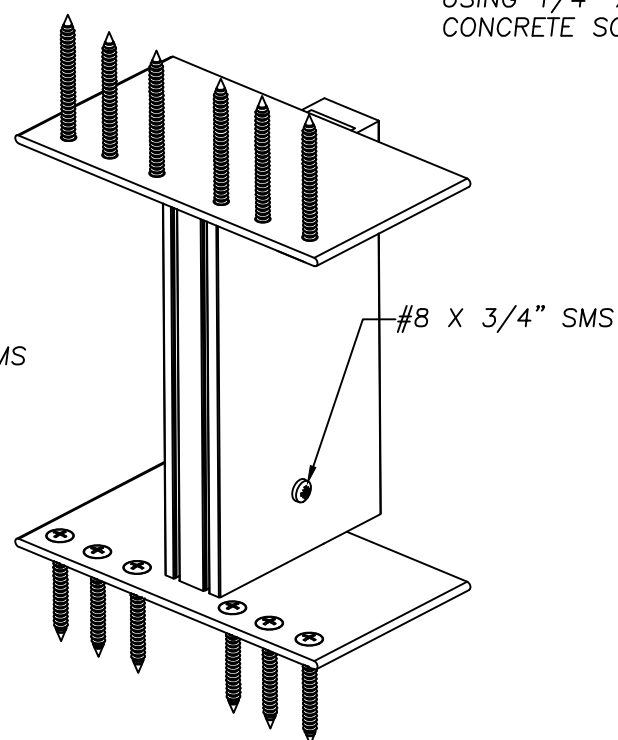


MULLION ANCHOR OFFSET BRACKET
MAT'L: 6063-T6

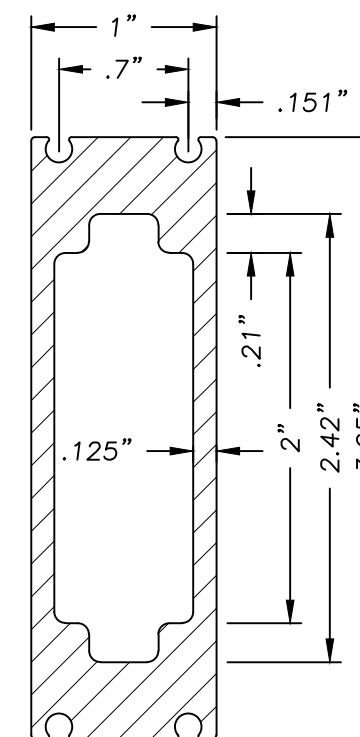
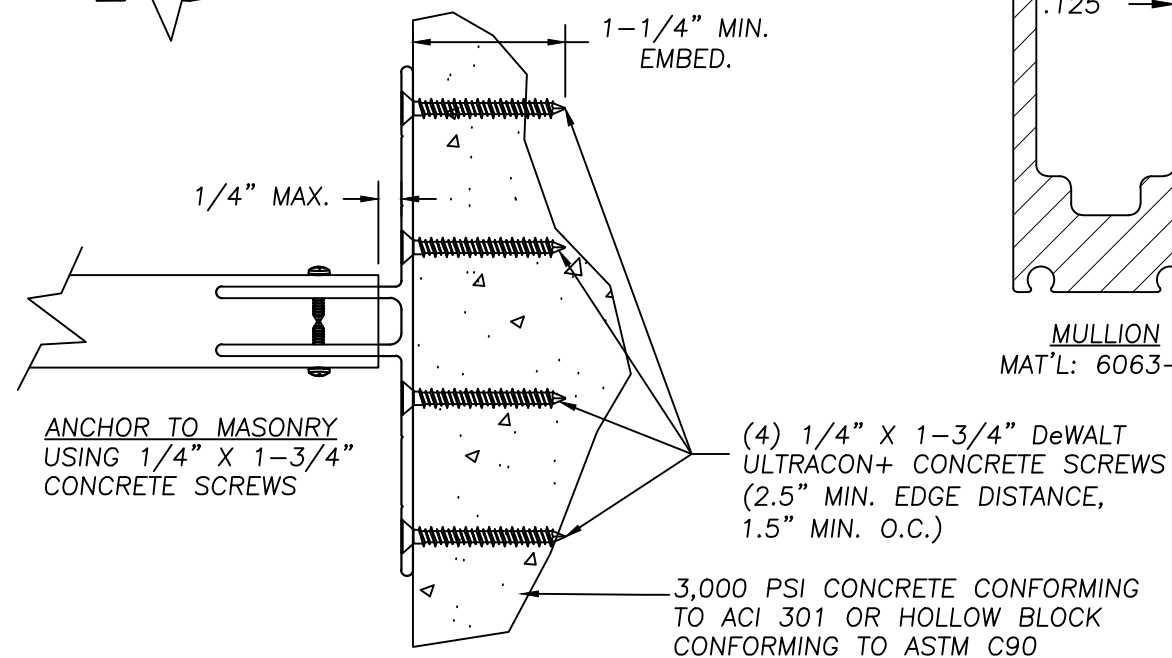
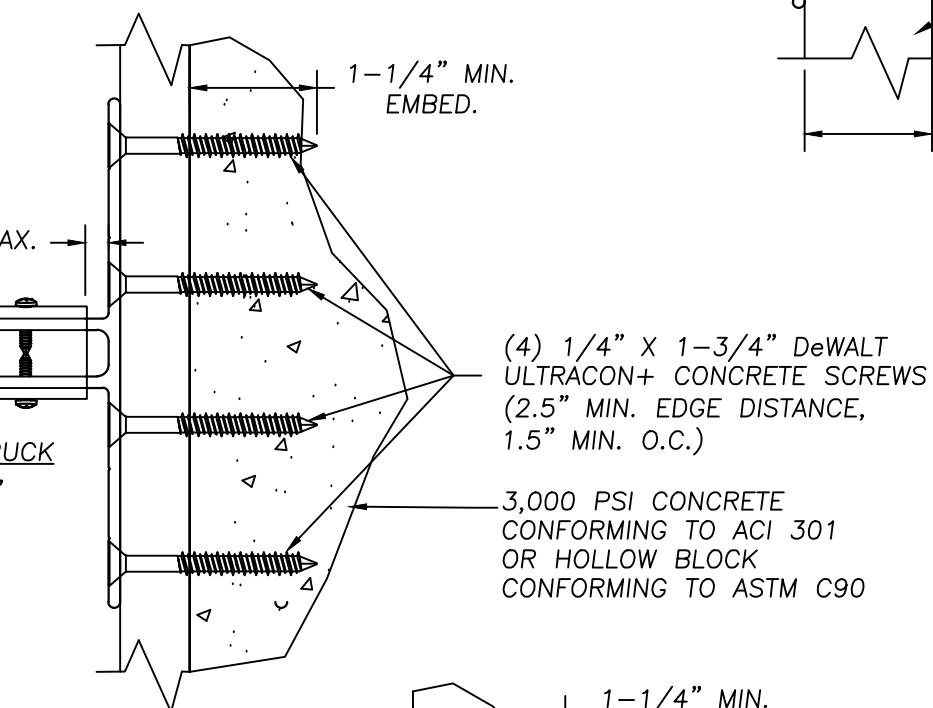
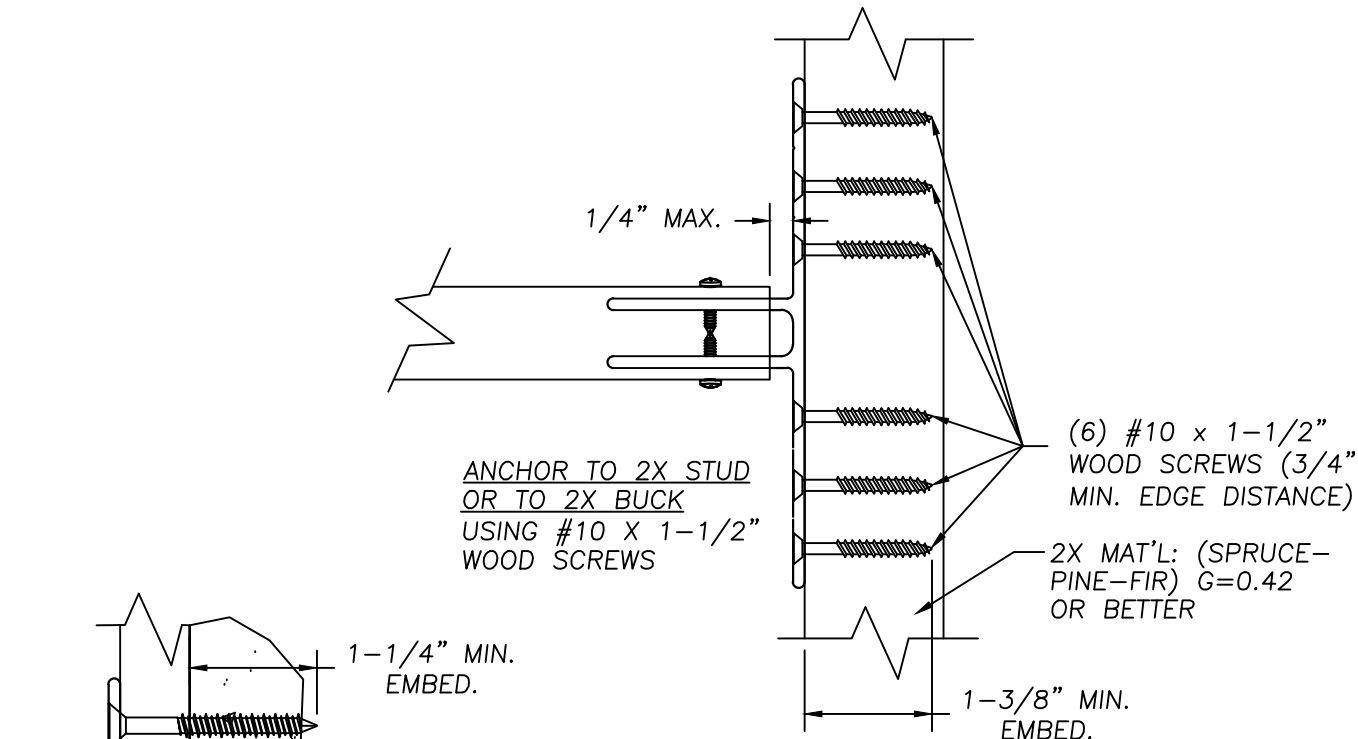
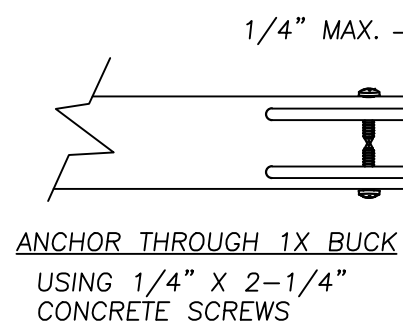
* DO NOT USE CENTER HOLE FOR
CONCRETE SCREW INSTALLATION



BASIC MULLION BRACKET ANCHORING FOR CONCRETE SCREW CONNECTIONS & SMS SCREW (MULL TO MULL) CONNECTIONS



BASIC MULLION BRACKET ANCHORING
FOR WOOD SCREW APPLICATIONS
(OFFSET BRACKET SHOWN)



MULLION
MAT'L: 6063-T6

DATE: 01/28/09									
SCALE: NTS									
DWG. BY: JK									
CHK. BY: LFS									
DRAWING NO.: FL-12078.6									
SHEET 4 OF 4									
BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813									
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409									
PRODUCT: STRUCTURAL TRANSOM									
PART OR ASSEMBLY: MULLION SECTION & ANCHOR DETAILS									