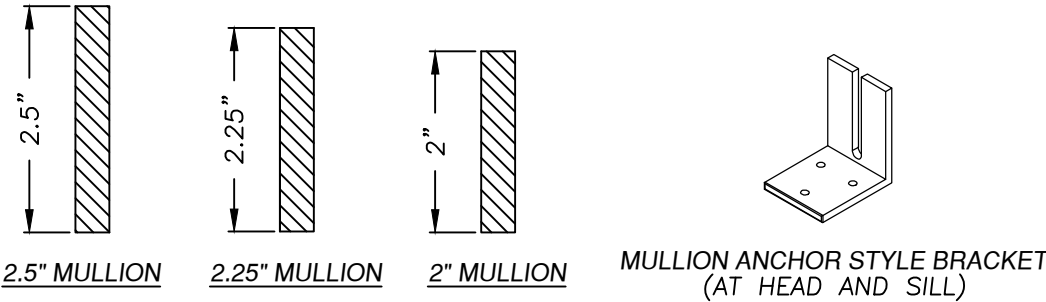


3773 STATE ROAD
CUYAHOGA FALLS, OH 44223

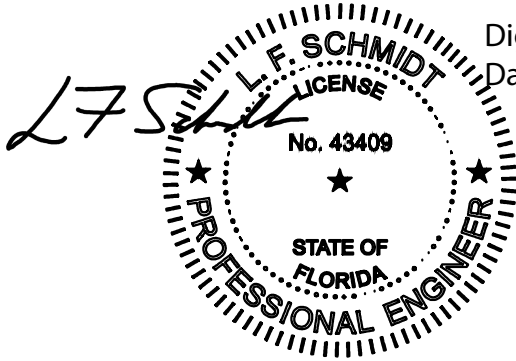
"C-Class" SERIES STRUCTURAL MULLION



GENERAL NOTES:

- 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.
- Wood bucks by others, must be anchored properly to transfer loads to the structure and be reviewed by the Building Official.
- Mullion anchor embedment to base material shall be beyond wall dressing or stucco.
- 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.
- Separate product approvals for each glazing product used with these mullions must be submitted along with this mullion product approval.
- Anchoring of each glazing product to the mullion shall be as shown in each individual glazing product approval.
- Any conditions not covered in this evaluation are subject to separate engineering evaluation.
- Mullion Design Pressure Rating, see Load Rating Table Sheets 2 through 7 of this drawing.
- 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.
- 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	2.0" MULLION LOAD TABLE FOR WOOD SCREW ANCHORS
3	2.0" MULLION LOAD TABLE FOR CONCRETE SCREW ANCHORS
4	2.25" MULLION LOAD TABLE FOR WOOD SCREW ANCHORS
5	2.25" MULLION LOAD TABLE FOR CONCRETE SCREW ANCHORS
6	2.5" MULLION LOAD TABLE FOR WOOD SCREW ANCHORS
7	2.5" MULLION LOAD TABLE FOR CONCRETE SCREW ANCHORS
8	MULLION SECTION & ANCHOR DETAILS



Digitally signed by Lyndon F Schmidt
Date: 2023.07.14 19:45:51 -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.

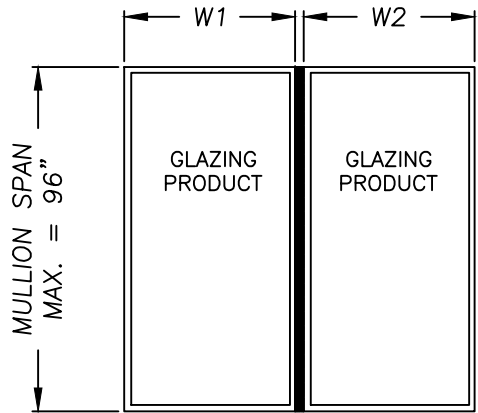
THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA



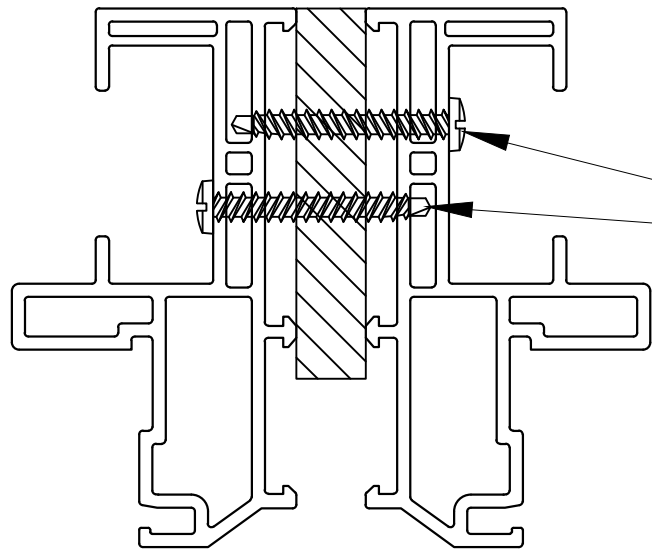
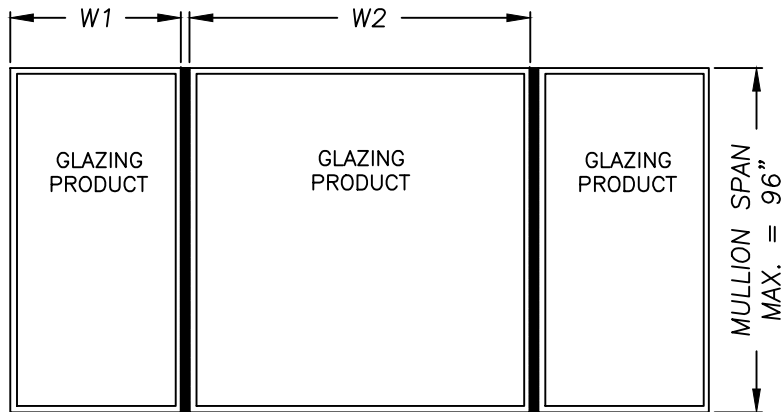
TYPICAL MULLION CONFIGURATIONS

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 MULLION		PART OR ASSEMBLY: TYPICAL ELEVATION AND GENERAL NOTES	
LFS	FBC	LFS	BY
6	9/30/20	UPDATE TO 7TH ED. (2020)	REVISIONS
5	7/14/23	UPDATE TO 8TH ED. (2023)	
4	3/03/15	UPDATE TO 5TH ED. (2014)	
3	9/03/13	ADDED 2.25" MULLION	
2	11/08/11	UPDATE TO 2010 FBC	
1	5/5/09	REV. LOAD TABLES	
NO.	DATE		
DATE: 2/17/09			
SCALE: NTS			
DWG. BY: DWS			
CHK. BY: LFS			
DRAWING NO.: FL-12078.7			
SHEET 1 OF 8			

G:\2023 FBC DRAWINGS\Associated Materials, Inc\FL-12078 R8\FL-12078.7.dwg



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



SECTION THRU MULLION & FRAME

WOOD SCREW ANCHORS		"C-Class" STRUCTURAL MULLION LOAD TABLE (PSF) - 2.0"													
		TRIBUTARY WIDTH													
		24"	30"	36"	40"	46"	50"	54"	60"	66"	72"	78"	84"	96"	
MULLION SPAN	96"	21.0	17.0	14.0	13.0	11.0	10.0	10.0	NA	NA	NA	NA	NA	NA	
	94"	22.0	18.0	15.0	14.0	12.0	11.0	10.0	10.0	NA	NA	NA	NA	NA	
	92"	23.0	19.0	16.0	15.0	13.0	12.0	11.0	10.0	NA	NA	NA	NA	NA	
	90"	25.0	20.0	17.0	16.0	14.0	13.0	12.0	11.0	10.0	NA	NA	NA	NA	
	88"	27.0	22.0	19.0	17.0	15.0	14.0	13.0	12.0	11.0	10.0	NA	NA	NA	
	86"	29.0	24.0	20.0	18.0	16.0	15.0	14.0	12.0	11.0	10.0	NA	NA	NA	
	84"	31.0	25.0	22.0	20.0	17.0	16.0	15.0	13.0	12.0	11.0	10.0	NA	NA	
	82"	34.0	27.0	23.0	21.0	18.0	17.0	15.0	14.0	12.0	11.0	10.0	10.0	NA	
	80"	36.0	30.0	25.0	23.0	19.0	18.0	16.0	15.0	13.0	12.0	11.0	10.0	NA	
	78"	39.0	32.0	27.0	23.0	20.0	18.0	17.0	15.0	14.0	13.0	12.0	11.0	NA	
	76"	43.0	35.0	30.0	24.0	21.0	19.0	18.0	16.0	15.0	13.0	12.0	11.0	10.0	
	74"	46.0	38.0	32.0	26.0	22.0	21.0	19.0	17.0	15.0	14.0	13.0	12.0	10.0	
	72"	51.0	41.0	35.0	27.0	24.0	22.0	20.0	18.0	16.0	15.0	14.0	13.0	11.0	
	70"	55.0	45.0	32.0	29.0	25.0	23.0	21.0	19.0	17.0	16.0	15.0	13.0	12.0	
	68"	61.0	50.0	34.0	31.0	27.0	24.0	23.0	20.0	18.0	17.0	15.0	14.0	12.0	
	66"	67.0	55.0	36.0	33.0	28.0	26.0	24.0	22.0	20.0	18.0	16.0	15.0	13.0	
	64"	72.0	60.0	39.0	35.0	30.0	28.0	26.0	23.0	21.0	19.0	18.0	16.0	14.0	
	62"	75.0	65.0	41.0	37.0	32.0	29.0	27.0	24.0	22.0	20.0	19.0	17.0	15.0	
	60"	75.0	71.0	44.0	40.0	34.0	32.0	29.0	26.0	24.0	22.0	20.0	19.0	16.0	
	58"	75.0	57.0	47.0	42.0	37.0	34.0	31.0	28.0	25.0	23.0	21.0	20.0	17.0	
56"	75.0	61.0	51.0	45.0	39.0	36.0	34.0	30.0	27.0	25.0	23.0	21.0	19.0		
54"	75.0	65.0	54.0	49.0	42.0	39.0	36.0	32.0	29.0	27.0	25.0	23.0	20.0		
52"	75.0	71.0	59.0	53.0	46.0	42.0	39.0	35.0	32.0	29.0	27.0	25.0	22.0		
50"	75.0	75.0	64.0	57.0	50.0	46.0	42.0	38.0	34.0	32.0	29.0	27.0	24.0		
48"	75.0	75.0	69.0	62.0	54.0	50.0	46.0	41.0	37.0	34.0	32.0	29.0	26.0		
40"	75.0	75.0	75.0	75.0	75.0	72.0	66.0	60.0	54.0	50.0	46.0	42.0	37.0		

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

STRUCTURAL MULLION

DATE: 2/17/09

SCALE: NTS

DWG. BY: DWS

CHK. BY: LFS

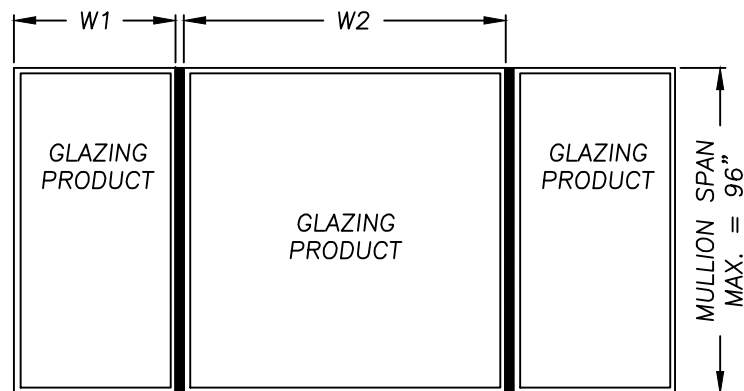
DRAWING NO.: FL-12078.7

SHEET 2 OF 8

Building Consultants, Inc.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

2.0" MULLION LOAD TABLE FOR WOOD SCREW ANCHORS

REVISES

0.5
OFF

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.

TRIBUTARY WIDTH

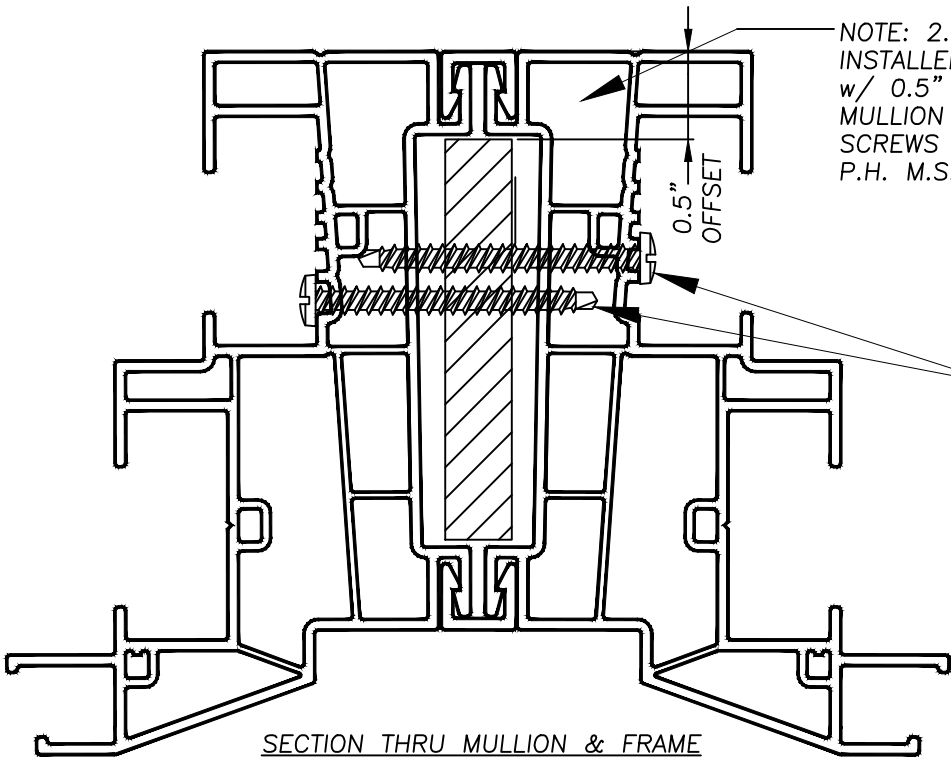
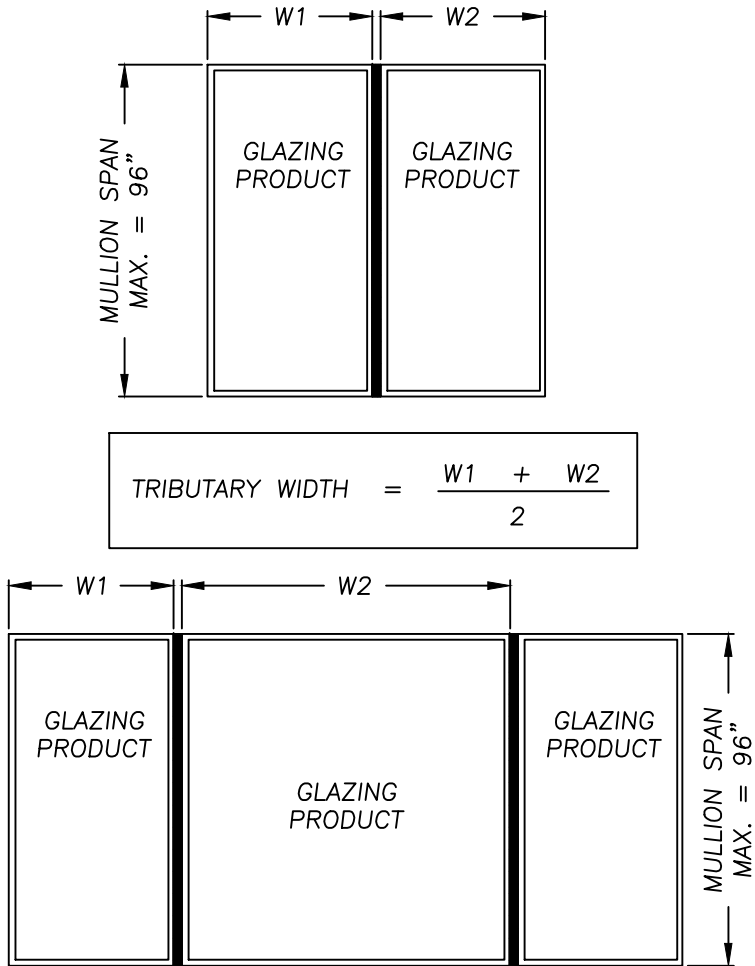
ANCHORS		24"	30"	36"	40"	46"	50"	54"	60"	66"	72"	78"	84"	96"
MULLION SPAN	96"	29.0	24.0	20.0	18.0	16.0	15.0	NA	NA	NA	NA	NA	NA	NA
	94"	31.0	26.0	22.0	20.0	17.0	16.0	15.0	NA	NA	NA	NA	NA	NA
	92"	34.0	27.0	23.0	21.0	19.0	17.0	15.0	NA	NA	NA	NA	NA	NA
	90"	36.0	29.0	25.0	23.0	19.0	18.0	16.0	15.0	NA	NA	NA	NA	NA
	88"	39.0	31.0	27.0	24.0	20.0	18.0	17.0	15.0	NA	NA	NA	NA	NA
	86"	42.0	34.0	29.0	26.0	21.0	19.0	18.0	16.0	NA	NA	NA	NA	NA
	84"	45.0	36.0	31.0	28.0	22.0	20.0	19.0	17.0	15.0	NA	NA	NA	NA
	82"	48.0	39.0	33.0	31.0	23.0	21.0	20.0	18.0	16.0	15.0	NA	NA	NA
	80"	52.0	43.0	36.0	33.0	24.0	22.0	21.0	18.0	17.0	15.0	NA	NA	NA
	78"	56.0	46.0	39.0	29.0	26.0	23.0	22.0	19.0	18.0	16.0	15.0	NA	NA
	76"	61.0	50.0	43.0	31.0	27.0	25.0	23.0	21.0	19.0	17.0	16.0	15.0	NA
	74"	66.0	54.0	46.0	33.0	28.0	26.0	24.0	22.0	20.0	18.0	17.0	15.0	NA
	72"	70.0	59.0	51.0	35.0	30.0	28.0	26.0	23.0	21.0	19.0	18.0	16.0	NA
	70"	74.0	63.0	41.0	37.0	32.0	29.0	27.0	24.0	22.0	20.0	19.0	17.0	15.0
	68"	75.0	67.0	43.0	39.0	34.0	31.0	29.0	26.0	23.0	21.0	20.0	18.0	16.0
	66"	75.0	70.0	46.0	41.0	36.0	33.0	30.0	27.0	25.0	23.0	21.0	19.0	17.0
	64"	75.0	72.0	49.0	44.0	38.0	35.0	32.0	29.0	26.0	24.0	22.0	21.0	18.0
	62"	75.0	75.0	52.0	47.0	41.0	37.0	35.0	31.0	28.0	26.0	24.0	22.0	19.0
	60"	75.0	75.0	56.0	50.0	44.0	40.0	37.0	33.0	30.0	28.0	25.0	24.0	21.0
	58"	75.0	72.0	60.0	54.0	47.0	43.0	40.0	36.0	32.0	30.0	27.0	25.0	22.0
56"	75.0	75.0	64.0	58.0	50.0	46.0	43.0	38.0	35.0	32.0	29.0	27.0	24.0	
54"	75.0	75.0	69.0	62.0	54.0	50.0	46.0	41.0	37.0	34.0	32.0	29.0	26.0	
52"	75.0	75.0	74.0	67.0	58.0	53.0	49.0	44.0	40.0	37.0	34.0	32.0	28.0	
50"	75.0	75.0	75.0	72.0	63.0	58.0	54.0	48.0	44.0	40.0	37.0	34.0	30.0	
48"	75.0	75.0	75.0	75.0	68.0	63.0	58.0	52.0	47.0	43.0	40.0	37.0	32.0	
40"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	69.0	63.0	58.0	54.0	47.0

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.

SHEET 4 OF 8

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G:\2023 FBC DRAWINGS\Associated Materials, Inc\FL-12078 R8\FL-12078.7.dwg



CONCRETE SCREW ANCHORS		"C-Class" STRUCTURAL MULLION LOAD TABLE (PSF) - 2.25"												
		TRIBUTARY WIDTH												
		24"	30"	36"	40"	46"	50"	54"	60"	66"	72"	78"	84"	96"
MULLION SPAN	96"	29.0	24.0	20.0	18.0	16.0	15.0	14.0	13.0	11.0	10.0	10.0	NA	NA
	94"	31.0	26.0	22.0	20.0	17.0	16.0	15.0	13.0	12.0	11.0	10.0	NA	NA
	92"	34.0	27.0	23.0	21.0	19.0	17.0	15.0	14.0	13.0	11.0	11.0	10.0	NA
	90"	36.0	29.0	25.0	23.0	19.0	18.0	16.0	15.0	13.0	12.0	11.0	10.0	NA
	88"	39.0	31.0	27.0	24.0	20.0	18.0	17.0	15.0	14.0	13.0	12.0	11.0	NA
	86"	42.0	34.0	29.0	26.0	21.0	19.0	18.0	16.0	14.0	13.0	12.0	11.0	10.0
	84"	45.0	36.0	31.0	28.0	22.0	20.0	19.0	17.0	15.0	14.0	13.0	12.0	10.0
	82"	48.0	39.0	33.0	31.0	23.0	21.0	20.0	18.0	16.0	15.0	13.0	12.0	11.0
	80"	52.0	43.0	36.0	33.0	24.0	22.0	21.0	18.0	17.0	15.0	14.0	13.0	11.0
	78"	56.0	46.0	39.0	29.0	26.0	23.0	22.0	19.0	18.0	16.0	15.0	14.0	12.0
	76"	61.0	50.0	43.0	31.0	27.0	25.0	23.0	21.0	19.0	17.0	16.0	15.0	13.0
	74"	66.0	54.0	46.0	33.0	28.0	26.0	24.0	22.0	20.0	18.0	17.0	15.0	13.0
	72"	70.0	58.0	51.0	35.0	30.0	28.0	26.0	23.0	21.0	19.0	18.0	16.0	14.0
	70"	72.0	61.0	41.0	37.0	32.0	29.0	27.0	24.0	22.0	20.0	19.0	17.0	15.0
	68"	75.0	63.0	43.0	39.0	34.0	31.0	29.0	26.0	23.0	21.0	20.0	18.0	16.0
	66"	75.0	65.0	46.0	41.0	36.0	33.0	30.0	27.0	25.0	23.0	21.0	19.0	17.0
	64"	75.0	68.0	49.0	44.0	38.0	35.0	32.0	29.0	26.0	24.0	22.0	21.0	18.0
	62"	75.0	71.0	52.0	47.0	41.0	37.0	35.0	31.0	28.0	26.0	24.0	22.0	19.0
	60"	75.0	74.0	56.0	50.0	44.0	40.0	37.0	33.0	30.0	28.0	25.0	24.0	21.0
	58"	75.0	72.0	60.0	54.0	47.0	43.0	40.0	36.0	32.0	30.0	27.0	25.0	22.0
56"	75.0	75.0	64.0	58.0	50.0	46.0	43.0	38.0	35.0	32.0	29.0	27.0	24.0	
54"	75.0	75.0	69.0	62.0	54.0	50.0	46.0	41.0	37.0	34.0	32.0	29.0	26.0	
52"	75.0	75.0	74.0	67.0	58.0	53.0	49.0	44.0	40.0	37.0	34.0	32.0	28.0	
50"	75.0	75.0	75.0	72.0	63.0	58.0	54.0	48.0	44.0	40.0	37.0	34.0	30.0	
48"	75.0	75.0	75.0	75.0	68.0	63.0	58.0	52.0	47.0	43.0	40.0	37.0	32.0	
40"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	72.0	66.0	61.0	57.0	53.0	47.0	

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

STRUCTURAL MULLION

PART OR ASSEMBLY:
2.25" MULLION LOAD TABLE FOR
CONCRETE SCREW ANCHORS

LFS

LFS

JK

LFS

KV

AL

BY

UPDATE TO 7TH ED. (2020) FBC

UPDATE TO 8TH ED. (2023) FBC

UPDATE TO 5TH ED. (2014) FBC

ADDED 2.25" MULLION

UPDATE TO 2010 FBC

REV. LOAD TABLES

NO. DATE

REVISIONS

DATE: 2/17/09

SCALE: NTS

DWG. BY: DWS

CHK. BY: LFS

DRAWING NO.: FL-12078.7

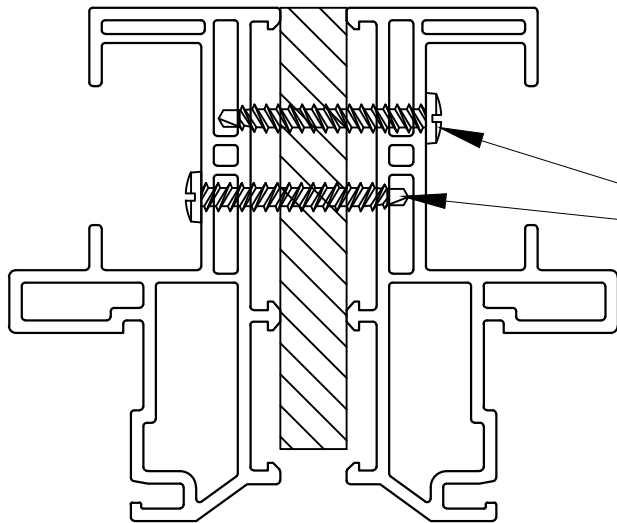
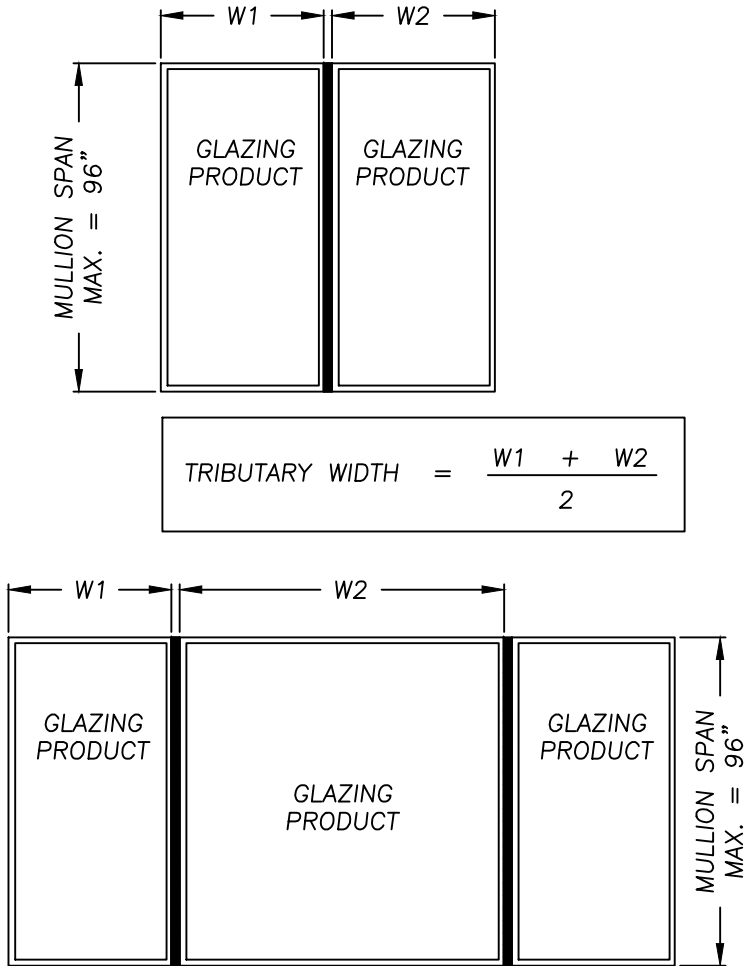
SHEET 5 OF 8

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

RW

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SECTION THRU MULLION & FRAME

WOOD SCREW ANCHORS		"C-Class" STRUCTURAL MULLION LOAD TABLE (PSF) - 2.5"												
		TRIBUTARY WIDTH												
		24"	30"	36"	40"	46"	50"	54"	60"	66"	72"	78"	84"	96"
MULLION SPAN	96"	41.0	33.0	28.0	25.0	22.0	19.0	18.0	16.0	14.0	13.0	12.0	11.0	10.0
	94"	43.0	35.0	30.0	27.0	24.0	20.0	18.0	16.0	15.0	14.0	13.0	12.0	10.0
	92"	46.0	38.0	32.0	29.0	26.0	21.0	19.0	17.0	16.0	14.0	13.0	12.0	11.0
	90"	50.0	40.0	34.0	31.0	24.0	22.0	20.0	18.0	16.0	15.0	14.0	13.0	11.0
	88"	53.0	43.0	37.0	34.0	25.0	23.0	21.0	19.0	17.0	16.0	14.0	13.0	12.0
	86"	57.0	47.0	40.0	36.0	26.0	24.0	22.0	20.0	18.0	16.0	15.0	14.0	12.0
	84"	61.0	50.0	43.0	39.0	27.0	25.0	23.0	21.0	19.0	17.0	16.0	15.0	13.0
	82"	63.0	53.0	46.0	42.0	29.0	26.0	24.0	22.0	20.0	18.0	17.0	15.0	13.0
	80"	65.0	54.0	48.0	44.0	30.0	28.0	26.0	23.0	21.0	19.0	18.0	16.0	14.0
	78"	67.0	56.0	49.0	36.0	32.0	29.0	27.0	24.0	22.0	20.0	18.0	17.0	15.0
	76"	69.0	58.0	51.0	38.0	33.0	31.0	28.0	25.0	23.0	21.0	19.0	18.0	16.0
	74"	72.0	60.0	53.0	41.0	35.0	32.0	30.0	27.0	24.0	22.0	21.0	19.0	17.0
	72"	74.0	62.0	55.0	43.0	37.0	34.0	32.0	28.0	26.0	24.0	22.0	20.0	18.0
	70"	75.0	64.0	50.0	45.0	39.0	36.0	33.0	30.0	27.0	25.0	23.0	21.0	19.0
	68"	75.0	67.0	54.0	48.0	42.0	38.0	36.0	32.0	29.0	27.0	24.0	23.0	20.0
	66"	75.0	70.0	57.0	51.0	44.0	41.0	38.0	34.0	31.0	28.0	26.0	24.0	21.0
	64"	75.0	72.0	61.0	54.0	47.0	43.0	40.0	36.0	33.0	30.0	28.0	26.0	22.0
	62"	75.0	75.0	64.0	58.0	50.0	46.0	43.0	38.0	35.0	32.0	29.0	27.0	24.0
	60"	75.0	75.0	69.0	62.0	54.0	49.0	46.0	41.0	37.0	34.0	32.0	29.0	26.0
	58"	75.0	75.0	73.0	66.0	58.0	53.0	49.0	44.0	40.0	37.0	34.0	31.0	27.0
	56"	75.0	75.0	75.0	70.0	62.0	57.0	53.0	47.0	43.0	39.0	36.0	34.0	29.0
	54"	75.0	75.0	75.0	74.0	66.0	61.0	57.0	51.0	46.0	42.0	39.0	36.0	32.0
	52"	75.0	75.0	75.0	75.0	69.0	65.0	61.0	55.0	50.0	46.0	42.0	39.0	34.0
	50"	75.0	75.0	75.0	75.0	73.0	68.0	64.0	59.0	54.0	49.0	46.0	42.0	37.0
	48"	75.0	75.0	75.0	75.0	75.0	72.0	67.0	62.0	57.0	53.0	49.0	46.0	40.0
	40"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	70.0	65.0	60.0	56.0	50.0

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.

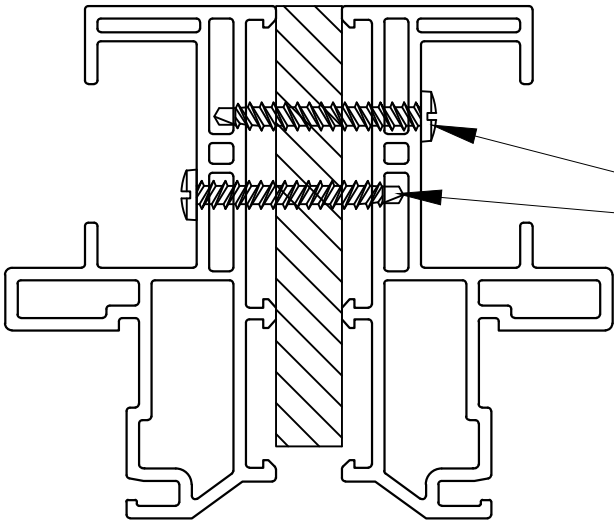
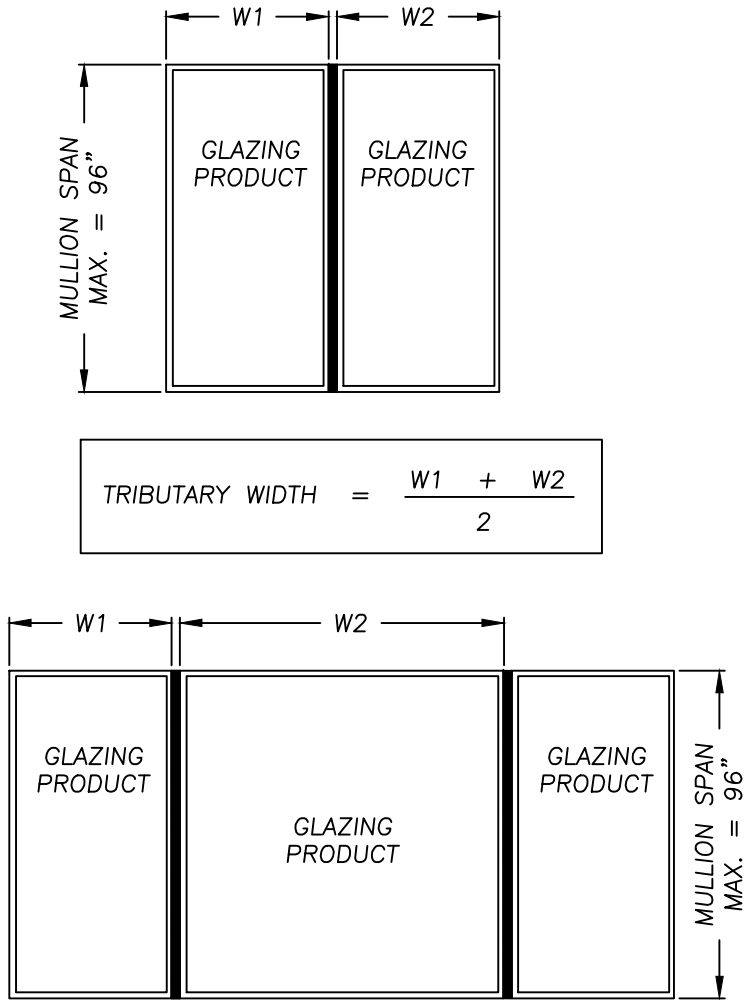
FOR ANCHORING GLAZING PRODUCTS TO THE MULLION, ANCHOR SIZE AND SPACING SHALL BE AS SPECIFIED IN ONE OF THE FOLLOWING:

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.

PRODUCT:			STRUCTURAL MULLION			PART OR ASSEMBLY:			2.5" MULLION LOAD TABLE FOR WOOD SCREW ANCHORS																		
6	9/30/20	UPDATE TO 7TH ED. (2020) FBC	LFS	5	7/23/23	UPDATE TO 8TH ED. (2023) FBC	LFS	4	3/03/15	UPDATE TO 5TH ED. (2014) FBC	JK	3	9/03/13	ADDED 2.25" MULLION	LFS	2	11/08/11	UPDATE TO 2010 FBC	KV	1	5/5/09	REV. LOAD TABLES	AL	NO.	DATE	REVISIONS	
DATE: 2/17/09																											
SCALE: NTS																											
DWG. BY: DWS																											
CHK. BY: LFS																											
DRAWING NO.: FL-12078.7																											
SHEET 6 OF 8																											
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														

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SECTION THRU MULLION & FRAME

CONCRETE SCREW ANCHORS		"C-Class" STRUCTURAL MULLION LOAD TABLE (PSF) - 2.5"													
		TRIBUTARY WIDTH													
		24"	30"	36"	40"	46"	50"	54"	60"	66"	72"	78"	84"	96"	
MULLION SPAN	96"	41.0	33.0	28.0	25.0	22.0	19.0	18.0	16.0	14.0	13.0	12.0	11.0	10.0	
	94"	43.0	35.0	30.0	27.0	24.0	20.0	18.0	16.0	15.0	14.0	13.0	12.0	10.0	
	92"	46.0	38.0	32.0	29.0	26.0	21.0	19.0	17.0	16.0	14.0	13.0	12.0	11.0	
	90"	50.0	40.0	34.0	31.0	24.0	22.0	20.0	18.0	16.0	15.0	14.0	13.0	11.0	
	88"	53.0	43.0	37.0	34.0	25.0	23.0	21.0	19.0	17.0	16.0	14.0	13.0	12.0	
	86"	56.0	47.0	40.0	36.0	26.0	24.0	22.0	20.0	18.0	16.0	15.0	14.0	12.0	
	84"	58.0	48.0	42.0	39.0	27.0	25.0	23.0	21.0	19.0	17.0	16.0	15.0	13.0	
	82"	60.0	50.0	43.0	40.0	29.0	26.0	24.0	22.0	20.0	18.0	17.0	15.0	13.0	
	80"	61.0	51.0	45.0	42.0	30.0	28.0	26.0	23.0	21.0	19.0	18.0	16.0	14.0	
	78"	63.0	53.0	46.0	36.0	32.0	29.0	27.0	24.0	22.0	20.0	18.0	17.0	15.0	
	76"	65.0	55.0	48.0	38.0	33.0	31.0	28.0	25.0	23.0	21.0	19.0	18.0	16.0	
	74"	67.0	56.0	50.0	41.0	35.0	32.0	30.0	27.0	24.0	22.0	21.0	19.0	17.0	
	72"	70.0	58.0	51.0	43.0	37.0	34.0	32.0	28.0	26.0	24.0	22.0	20.0	18.0	
	70"	72.0	61.0	50.0	45.0	39.0	36.0	33.0	30.0	27.0	25.0	23.0	21.0	19.0	
	68"	75.0	63.0	54.0	48.0	42.0	38.0	36.0	32.0	29.0	27.0	24.0	23.0	20.0	
	66"	75.0	65.0	57.0	51.0	44.0	41.0	38.0	34.0	31.0	28.0	26.0	24.0	21.0	
	64"	75.0	68.0	60.0	54.0	47.0	43.0	40.0	36.0	33.0	30.0	28.0	26.0	22.0	
	62"	75.0	71.0	63.0	58.0	50.0	46.0	43.0	38.0	35.0	32.0	29.0	27.0	24.0	
	60"	75.0	74.0	65.0	61.0	54.0	49.0	46.0	41.0	37.0	34.0	32.0	29.0	26.0	
	58"	75.0	75.0	68.0	63.0	57.0	53.0	49.0	44.0	40.0	37.0	34.0	31.0	27.0	
	56"	75.0	75.0	72.0	66.0	60.0	56.0	52.0	47.0	43.0	39.0	36.0	34.0	29.0	
	54"	75.0	75.0	75.0	69.0	62.0	58.0	55.0	50.0	46.0	42.0	39.0	36.0	32.0	
	52"	75.0	75.0	75.0	73.0	65.0	61.0	57.0	53.0	49.0	45.0	42.0	39.0	34.0	
	50"	75.0	75.0	75.0	75.0	68.0	64.0	60.0	55.0	51.0	47.0	44.0	41.0	37.0	
	48"	75.0	75.0	75.0	75.0	72.0	67.0	63.0	58.0	53.0	50.0	46.0	43.0	38.0	
	40"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	72.0	66.0	61.0	57.0	53.0	47.0	

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

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

PRODUCT:
STRUCTURAL MULLION

PART OR ASSEMBLY:
2.5" MULLION LOAD TABLE FOR
CONCRETE SCREW ANCHORS

6	9/30/20	UPDATE TO 7TH ED. (2020) FBC	LFS
5	7/27/23	UPDATE TO 8TH ED. (2023) FBC	LFS
4	3/03/15	UPDATE TO 5TH ED. (2014) FBC	JK
3	9/03/13	ADDED 2.25" MULLION	LFS
2	11/08/11	UPDATE TO 2010 FBC	KV
1	5/5/09	REV. LOAD TABLES	AL
NO.	DATE		BY

DATE: 2/17/09

SCALE: NTS

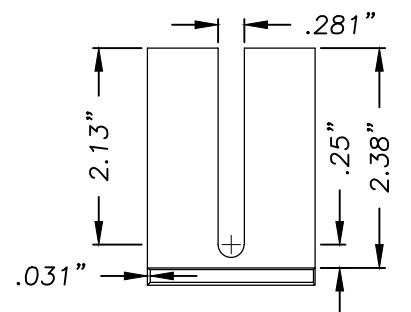
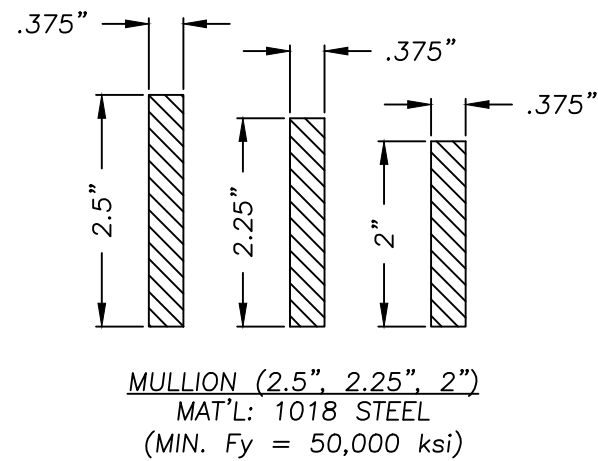
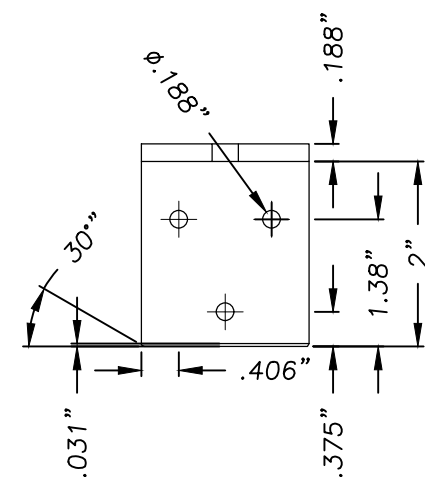
DWG. BY: DWS

CHK. BY: LFS

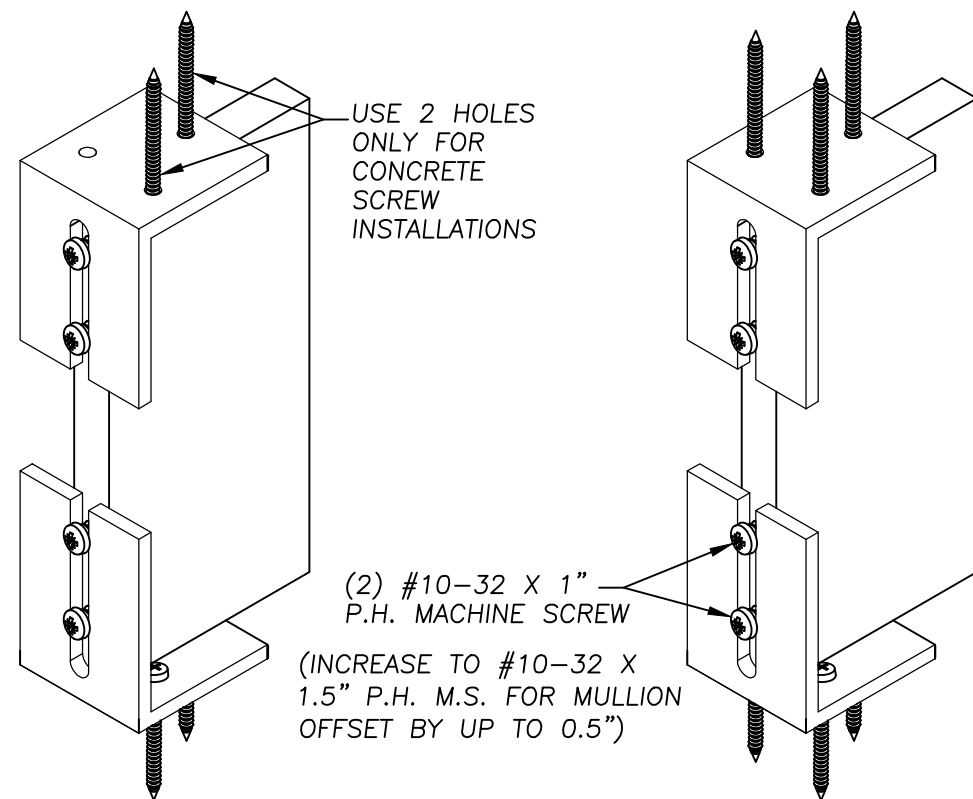
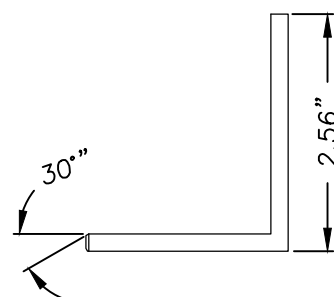
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FL-12078.7

SHEET 7 OF 8

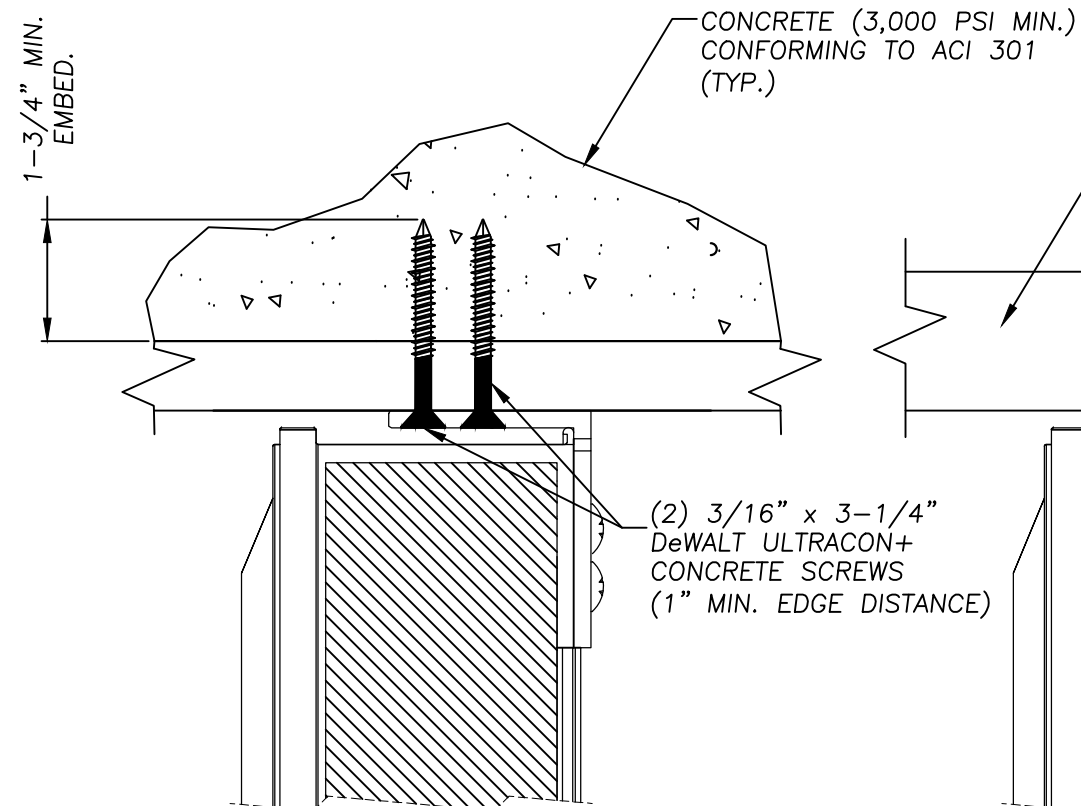


MULLION ANCHOR BRACKET
MAT'L: 6063-T6

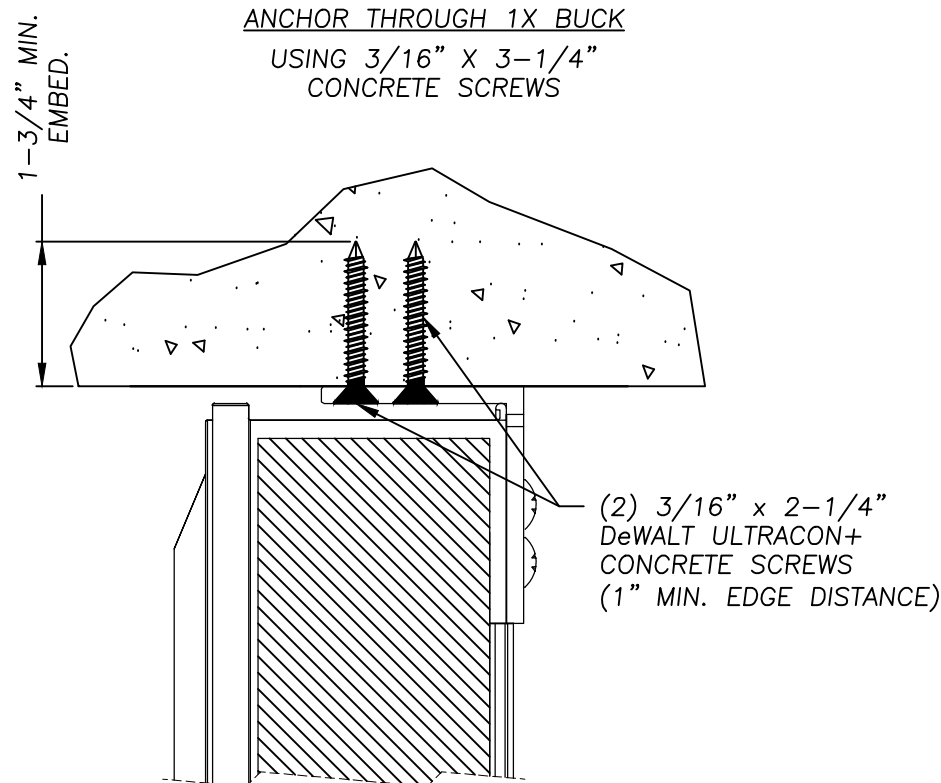


BASIC MULLION BRACKET ANCHORING FOR CONCRETE SCREW CONNECTIONS

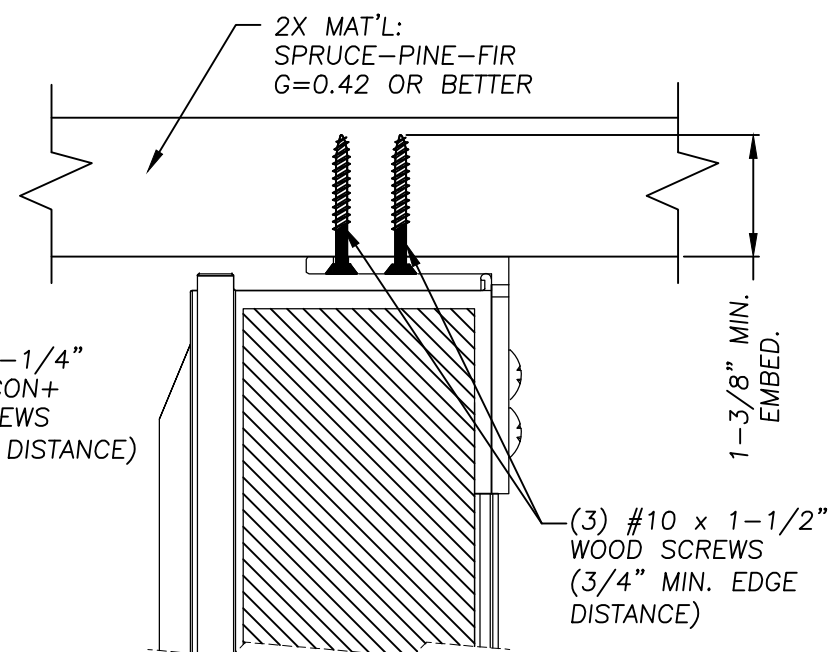
BASIC MULLION
BRACKET ANCHORING
FOR WOOD SCREW CONNECTIONS
AND MACHINE SCREW (MULL TO
MULL) CONNECTIONS



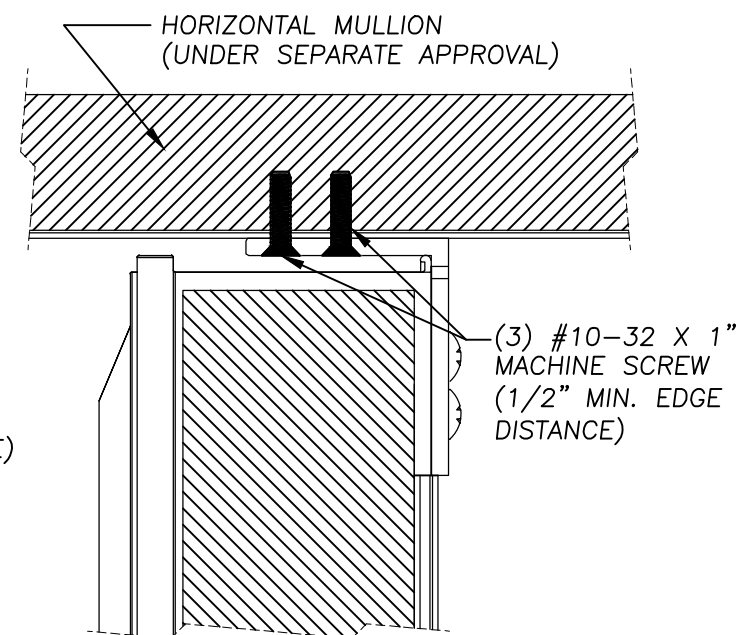
ANCHOR THROUGH 1X BUCK
USING 3/16" X 3-1/4"
CONCRETE SCREWS



ANCHOR TO MASONRY
USING 3/16" X 2-1/4"
CONCRETE SCREWS



ANCHOR TO 2X STUD OR TO 2X BUCK
USING #10 X 1-1/2"
WOOD SCREWS



MULLION TO MULLION ANCHORING

6	9/30/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
5	7/27/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
4	3/03/15	UPDATE TO 5TH ED. (2014)	FBC	JK
3	9/03/13	ADDED 2.25" MULLION		LFS
2	11/08/11	UPDATE TO 2010 FBC		KV
1	5/5/09	REV. LOAD TABLES		AL
NO.	DATE			BY
REVISIONS				

DATE: 2/17/09

SCALE: *NTS*

DWG. BY: DWS

CHK. BY: LFS

DRAWING NO.:

FL-12078.7

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

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