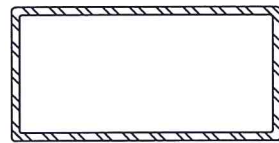


2045 Kerper Blvd., Dubuque, IA 52004-1072

STRUCTURAL STEEL MULLION



2" x 4" x .125" TUBE MULLION

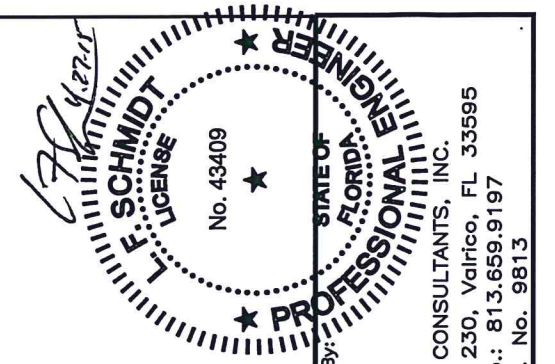
GENERAL NOTES:

1. This product has been evaluated and is in compliance with the 5th Edition (2014) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone".
2. When used in areas requiring wind borne debris protection this product complies with Section 1609.1.2 of the FBC and does not require an impact resistant covering. This product meets missile level "D" and excludes Wind Zone 4 as defined in ASTM E 1996 and Section 1609.1.2.2 of the FBC.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure and be reviewed by the Building Official.
4. Mullion anchor embedment to base material shall be beyond wall dressing or stucco.
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 - 5 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.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical Elevations & General Notes
2	Mullion Load Table: Anchor Clip F1 (Concrete Screws)
3	Mullion Load Table: Anchor Clip F1 (Wood Screws)
4	Mullion Load Table: Anchor Clip B1 (Concrete Screws)
5	Mullion Load Table: Anchor Clip B1 (Wood Screws)
6	Anchor Clip F1: Anchoring Details
7	Anchor Clip B1: Anchoring Details



TYPICAL MULLION CONFIGURATIONS

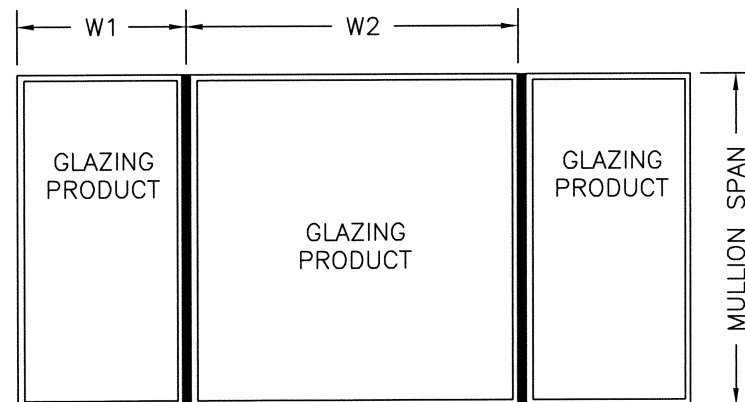


Documents Prepared By
Lyndon F. Schmidt
P.E. No. 43409

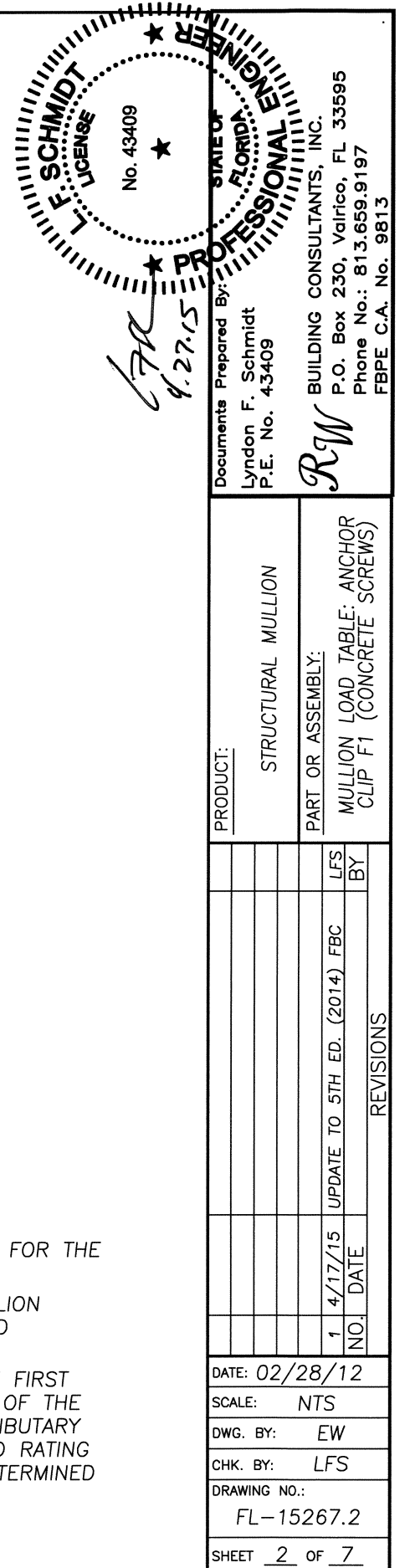
RW
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

DATE: 02/28/12		PRODUCT: _____		STRUCTURAL MULLION	
SCALE: NTS		DWG. BY: EW		PART OR ASSEMBLY:	
CHK. BY: LFS		DRAWING NO.: FL-15267.2		TYPICAL ELEVATION & GENERAL NOTES	
SHEET 1 OF 7		NO.		BY	
DATE		UPDATE TO 5TH ED. (2014) FBC		LFS	
REVISIONS					

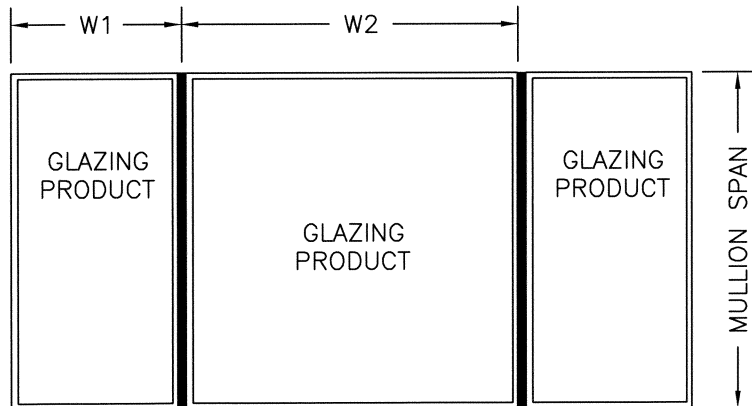
$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$

[illegible]

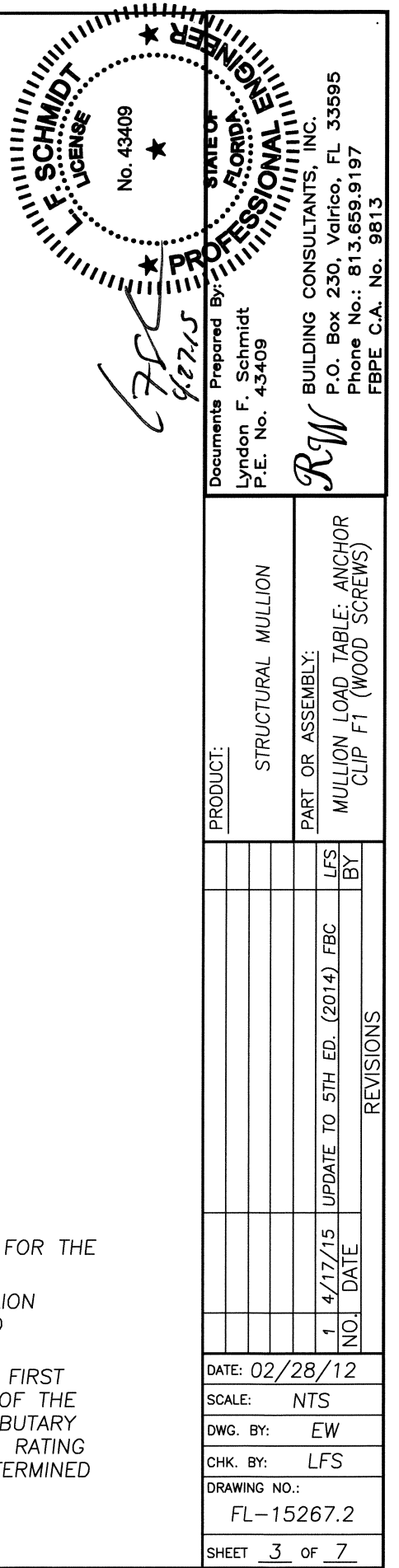
1. DETERMINE THE DESIGN LOAD REQUIREMENT PER CHAPTER 16 OF THE FBC FOR THE PARTICULAR OPENING.
2. FOR THE PARTICULAR OPENING, DETERMINE THE TRIBUTARY WIDTH AND MULLION SPAN. REFERENCE THE SKETCHES ON THIS SHEET FOR MULLION SPAN AND TRIBUTARY WIDTH DETERMINATION.
3. IN THE FIRST COLUMN OF THE TABLE, LOCATE 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.



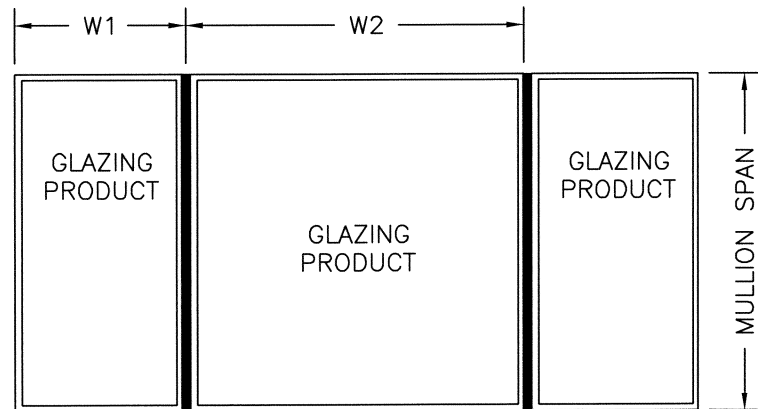
$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$

[illegible]

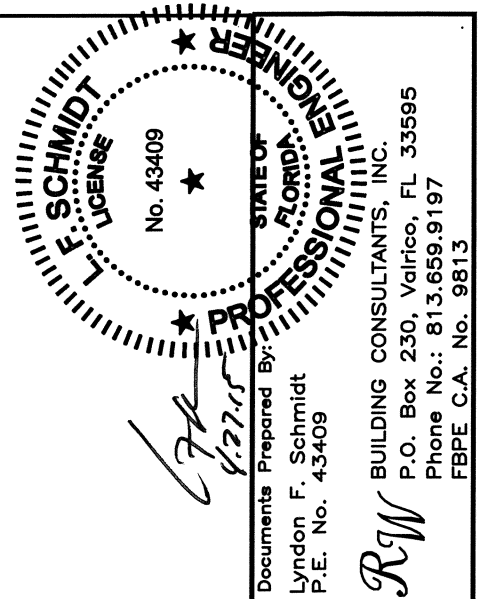
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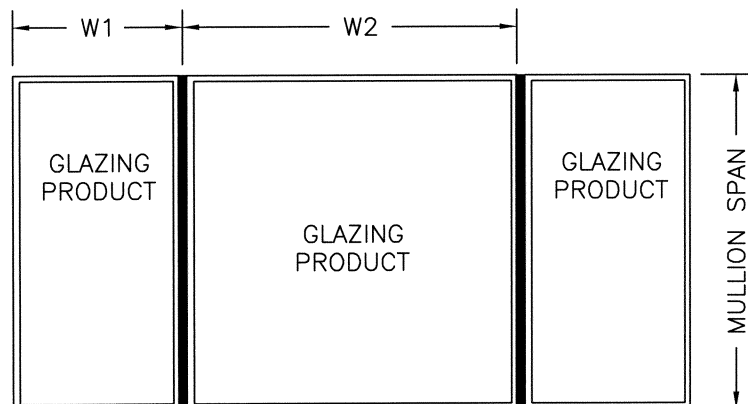
$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$

[illegible]

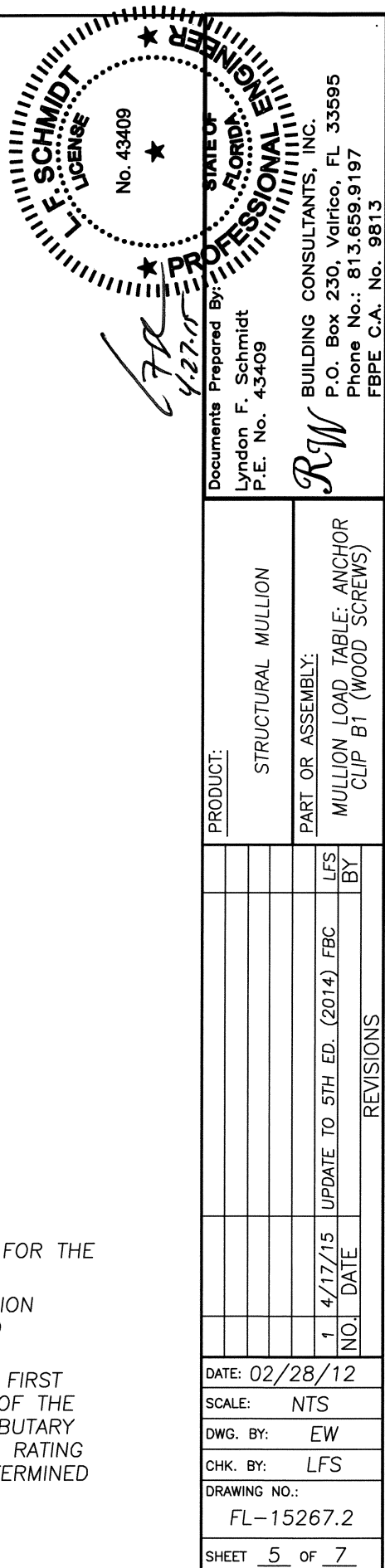
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[illegible]

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[illegible]

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DATE: 02/28/12		PRODUCT: STRUCTURAL MULLION	
SCALE: NTS	PART OR ASSEMBLY: ANCHOR CLIP F1: ANCHORING DETAILS		
DWG. BY: EW			
CHK. BY: LFS			
DRAWING NO.: FL-15267.2			
SHEET 6 OF 7	1 4/17/15 UPDATE TO 5TH ED. (2014) FBC NO. DATE		LFS BY
		REVISIONS	

Technical drawing of a mechanical part with the following dimensions and tolerances:

- Overall width: 7.5"
- Overall height: 8"
- Top horizontal section width: 2.594"
- Left vertical section height: 1.75"
- Left vertical section width: 2.66"
- Bottom horizontal section width: 0.375" TYP.
- Bottom horizontal section height: 0.875" TYP.
- Right vertical section width: 1.75"
- Right vertical section height: 0.938" TYP.
- Right vertical section width: 2.25" REF.
- Right vertical section height: 3.125" TYP.
- Right vertical section width: 0.438" TYP.
- Right vertical section height: 0.844" TYP.
- Radius: R0.125"

MULLION CLIP B1

2" x 4" x 1/8" STEEL MULLION

(4) 14-20 x 1-1/2" PFH SMS

2X FRAMING

ANCHOR TO 2X

125"

MULLION ANCHOR BRACKET ANCHOR SCHEDULE				
ANCHOR	SUBSTRATE	EMBEDMENT (MIN.)	EDGE DISTANCE (MIN.)	CENTER-TO-CENTER SPACING (MIN.)
#10 PFH WOOD SCREW 	WOOD	1-3/8"	1"	1"
SELF-DRILLING SHEET METAL SCREW 	STEEL	A MIN. OF 3 THREADS SHALL PROTRUDE COMPLETELY THROUGH THE STEEL SUBSTRATE	1"	1-1/8"
1/4" Ø PFH HILTI KWIK-CON II+ 	HOLLOW BLOCK	1-1/4"	2-1/2"	3"
	CONCRETE	1-1/4"	2-1/2"	3"

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Phone No.: 813.659.9197
FBPE C.A. No. 9813

PART OR ASSEMBLY:

REVISIONS

SHEET 7 OF 7