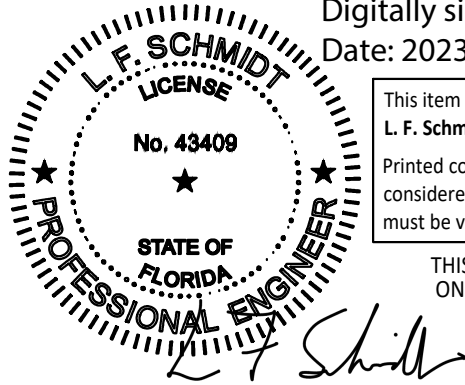




250 Staunton Turnpike, Parkersburg, WV 26104

TMP-2603 EXTRUDED ALUMINUM HORIZONTAL CLIPPED COMBINATION MULLION

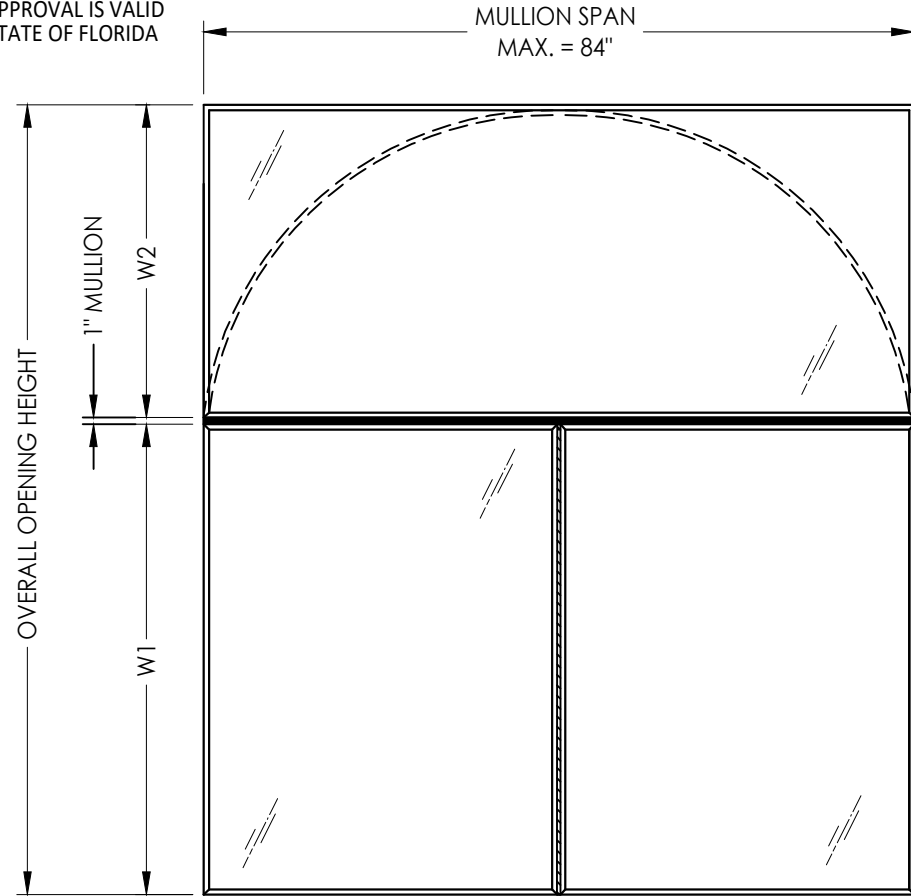


Digitally signed by Lyndon F Schmidt

Date: 2023.07.06 14:12:08 -04'00'

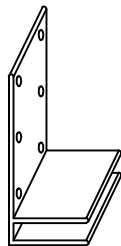
This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

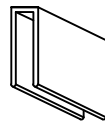


HORIZONTAL MULLED WINDOW UNITS

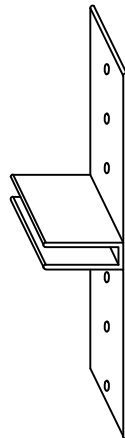
ADJOINING WINDOW UNITS CAN BE EQUAL OR UNEQUAL WIDTHS



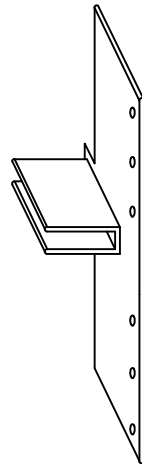
Wood/Steel Stud Anchor Bracket



Mullion-to-Mullion Bracket



Masonry or Wood/Steel Stud
Anchor Clip



Masonry or Wood/Steel Stud
Offset Anchor Bracket

GENERAL NOTES

- This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements, excluding the "High Velocity Hurricane Zone".
- When used in areas requiring wind borne debris protection, this product (if mulled together with impact rated windows), complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
- Wood bucks by others, must be anchored properly to transfer loads to the structure and be reviewed by the Building Official.
- Separate product approvals for each glazing product used with these mullions must be submitted along with this mullion product approval. The design pressure rating of the assembly shall be the lesser of the load capacity of the mullion as specified using this approval or the design pressure rating of the individual glazing products used.
- Anchoring of each glazing product to the mullion shall be as shown in this drawing or as shown in each individual glazing product approval, whichever is more stringent.
- Mullion anchor embedment to base material shall be beyond wall dressing or stucco.
- Any conditions not covered in this evaluation are subject to separate engineering evaluation.

TABLE OF CONTENTS

SHEET #	DESCRIPTION
1	Typical Elevations & General Notes
2	Mullion Design PressureTable & Cross Sections
3	Wood/Steel Stud Anchor Clip Details
4	Masonry or Wood/Steel Stud Anchor Clip Details

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:
ALUMINUM CLIPPED MULLION

PART OR ASSEMBLY:
TYPICAL ELEVATIONS
& GENERAL NOTES

NO.	DATE	REVISIONS
6	7/06/23	UPDATE TO 8TH ED. (2023) FBC
5	7/09/20	UPDATE TO 7TH ED. (2020) FBC
4	6/01/17	UPDATE TO 6TH ED. (2017) FBC
3	5/05/16	MODIFY ANCHOR CLIP
2	1/28/15	UPDATE TO 5TH ED. (2014) FBC
1	4/8/14	REVISE ANCHOR CLIPS
NO.	DATE	BY

DATE: 10/01/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-16542.4

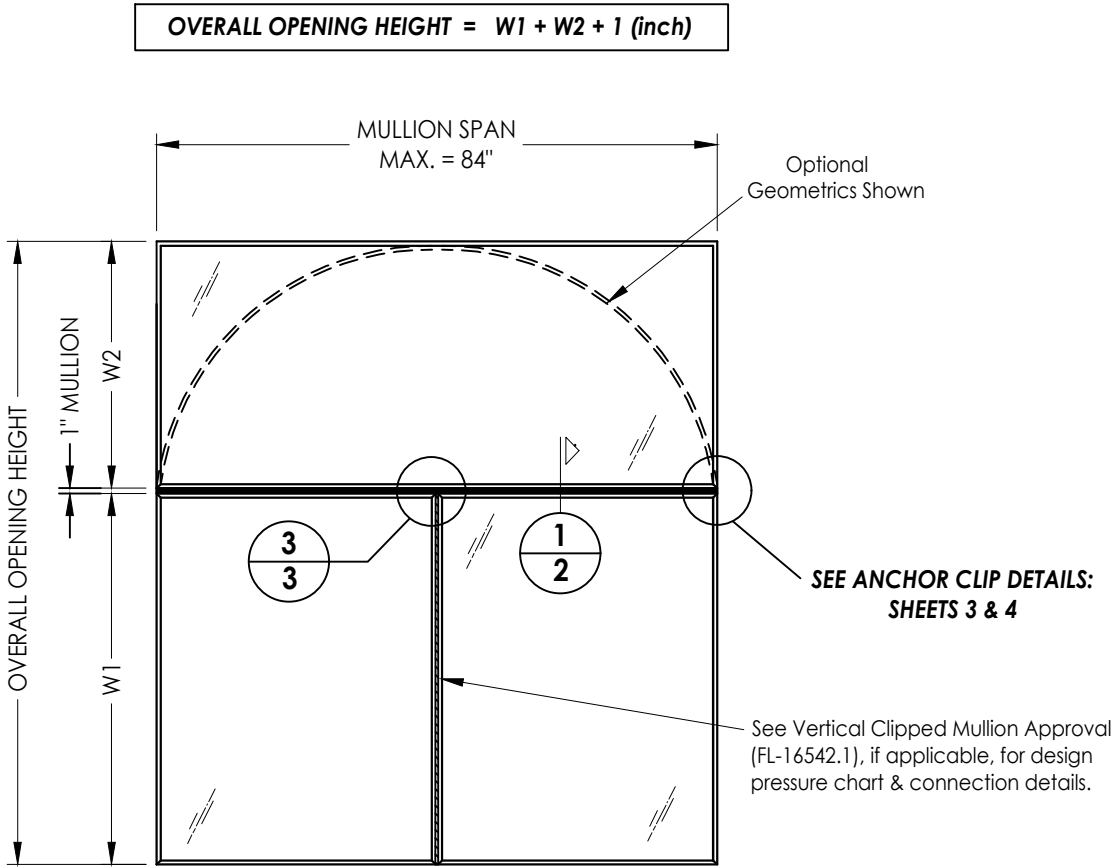
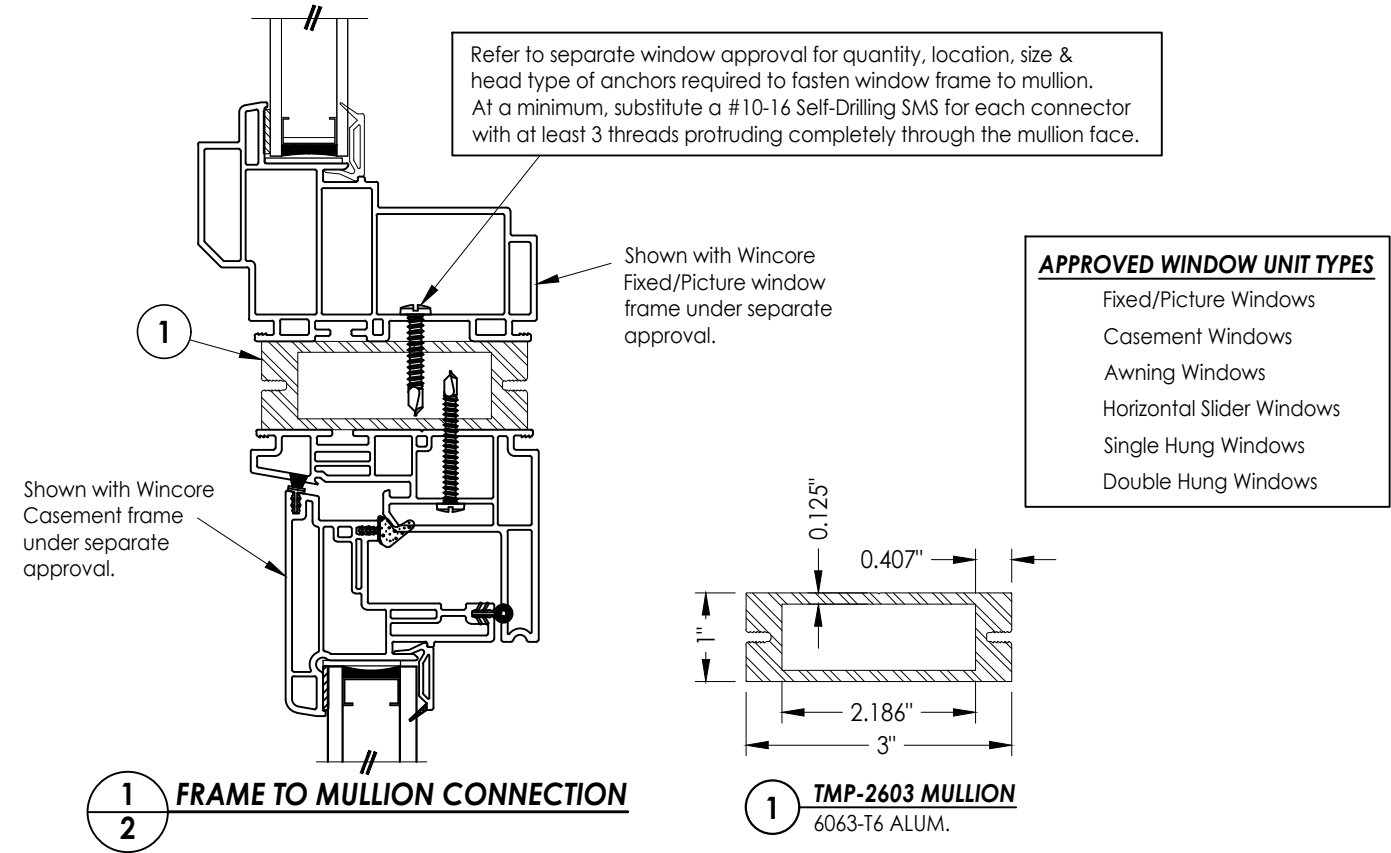
SHEET 1 OF 4

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CLIPPED MULLION		TMP-2603 EXTRUDED ALUMINUM HORIZONTAL CLIPPED COMBINATION MULLION LOAD TABLE (PSF)																									
		OVERALL OPENING HEIGHT																									
		49"	53"	57"	61"	65"	69"	73"	77"	81"	85"	89"	93"	97"	101"	105"	109"	113"	117"	121"	125"	129"	133"	137"	141"	145"	
MAXIMUM MULLION LENGTH	84"	58.0	53.5	49.5	46.5	43.5	41.0	38.5	36.5	35.0	33.0	31.5	30.5	29.0	28.0	27.0	26.0	25.0	24.0	23.5	22.5	22.0	21.0	20.5	20.0	19.5	
	82"	62.0	57.5	53.5	50.0	47.0	44.0	41.5	39.5	37.5	36.0	34.0	32.5	31.5	30.0	29.0	28.0	27.0	26.0	25.0	24.0	23.5	23.0	22.0	21.5	21.0	
	80"	67.0	62.0	57.5	54.0	50.5	47.5	45.0	42.5	40.5	38.5	37.0	35.0	33.5	32.5	31.0	30.0	29.0	28.0	27.0	26.0	25.5	24.5	24.0	23.0	22.5	
	78"	72.0	67.0	62.0	58.0	54.5	51.0	48.5	46.0	43.5	41.5	39.5	38.0	36.5	35.0	33.5	32.5	31.0	30.0	29.0	28.0	27.5	26.5	25.5	25.0	24.5	
	76"	75.0	72.0	67.0	62.5	59.0	55.5	52.5	49.5	47.0	45.0	43.0	41.0	39.5	38.0	36.5	35.0	34.0	32.5	31.5	30.5	29.5	28.5	28.0	27.0	26.5	
	74"	75.0	75.0	73.0	68.0	64.0	60.0	56.5	54.0	51.0	48.5	46.5	44.5	42.5	41.0	39.5	38.0	36.5	35.5	34.0	33.0	32.0	31.0	30.0	29.5	28.5	
	72"	75.0	75.0	75.0	74.0	75.0	65.0	61.5	58.5	55.5	53.0	50.5	48.5	46.5	44.5	43.0	41.0	39.5	38.5	37.0	36.0	35.0	33.0	32.5	32.0	31.0	
	70"	75.0	75.0	75.0	75.0	75.0	71.0	67.0	63.5	60.5	57.5	55.0	52.5	50.5	48.5	46.5	45.0	43.0	42.0	40.0	39.0	38.0	36.5	35.5	34.5	33.5	
	68"	75.0	75.0	75.0	75.0	75.0	75.0	73.0	69.5	66.0	63.5	60.0	57.5	55.0	53.0	51.0	49.0	47.0	45.5	44.0	42.5	41.5	40.0	39.0	38.0	37.0	
	66"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	72.0	69.0	65.5	63.0	60.0	58.0	55.5	53.5	51.5	50.0	48.0	46.5	45.0	44.0	42.5	41.5	40.0	
	64"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	72.0	69.0	66.0	63.5	61.0	59.0	56.5	54.5	53.0	51.0	49.5	48.0	46.5	45.5	44.0	
	62"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	72.5	70.0	67.0	64.5	62.5	60.0	58.0	56.5	54.5	53.0	51.5	50.5	48.5	
	60"	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	75.0	74.0	71.5	69.0	66.5	64.0	62.0	60.5	58.5	56.5	55.0	53.5	

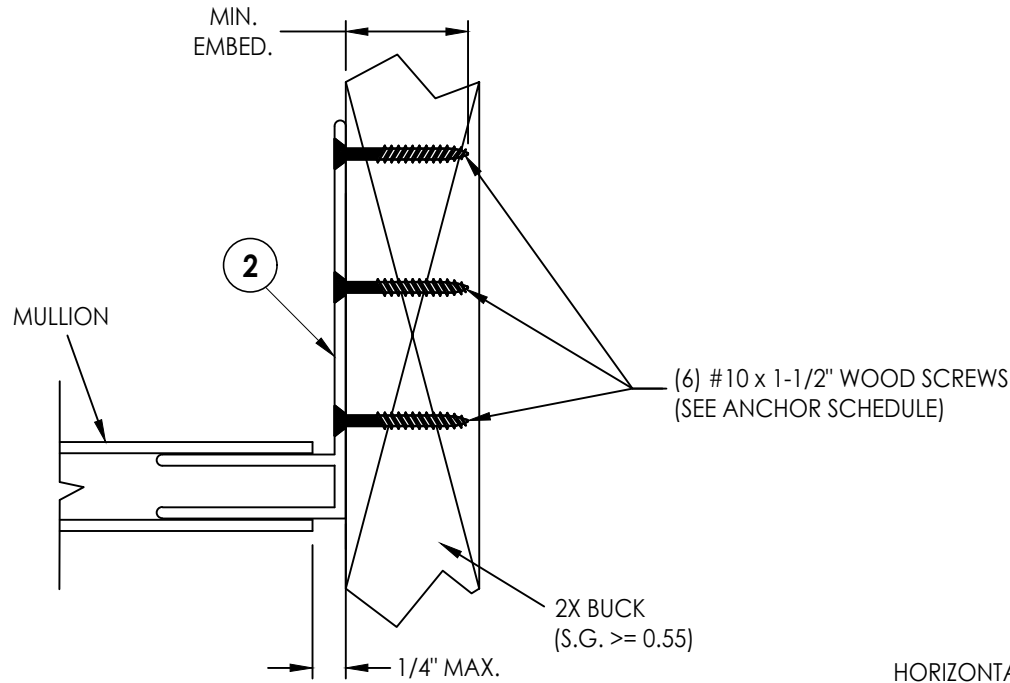
DESIGN PRESSURE TABLE NOTES:

- Determine the Overall Opening Height for the two windows to be mullied together.
- Enter the table at the intersection of the Mullion Length and the Overall Opening Height to determine the maximum approved Design Pressure.

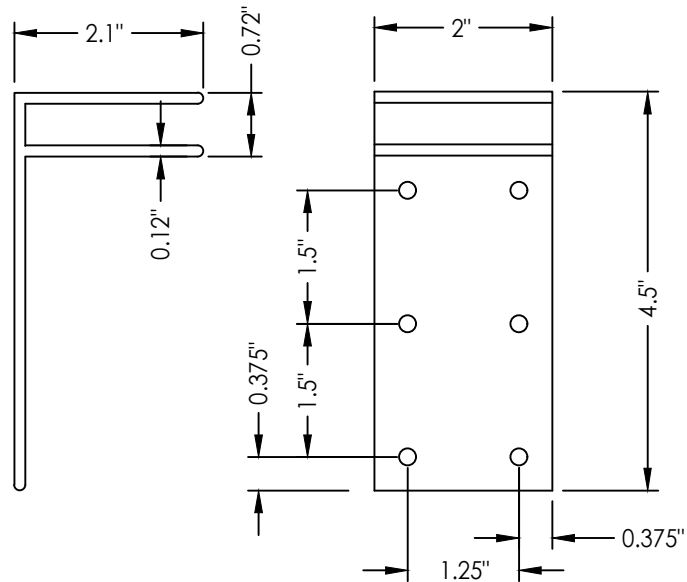


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT:		ALUMINUM CLIPPED MULLION	
PART OR ASSEMBLY:		MULLION DESIGN PRESSURE TABLE & CROSS SECTIONS	
6	7/06/23	UPDATE TO 8TH ED. (2023)	FBC
5	7/09/20	UPDATE TO 7TH ED. (2020)	FBC
4	6/01/17	UPDATE TO 6TH ED. (2017)	FBC
3	5/05/16	MODIFY ANCHOR CLIP	LFS
2	1/28/15	UPDATE TO 5TH ED. (2014)	FBC
1	4/8/14	REVISE ANCHOR CLIPS	LFS
NO.	DATE		BY
REVISIONS			
DATE: 10/01/13			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-16542.4			
SHEET 2 OF 4			

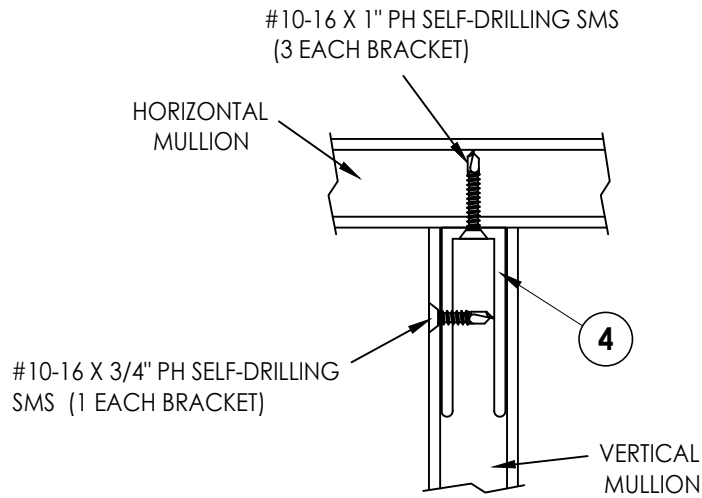
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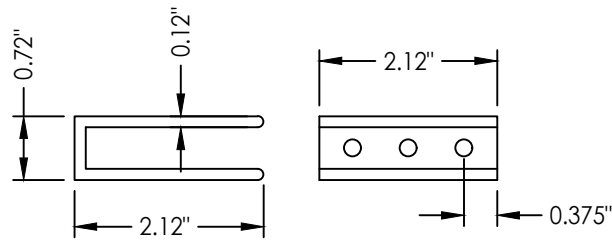
1 **ANCHOR BRACKET DETAIL**
3 Anchor to 2x Buck



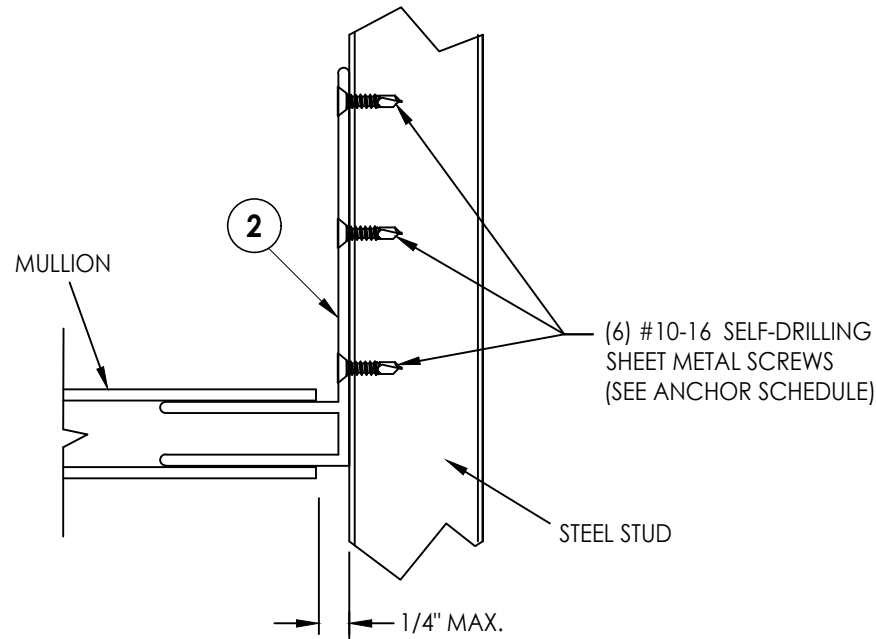
2 **WOOD/STEEL STUD ANCHOR BRACKET**
6063-T6 ALUM.



3 **VERTICAL CROSS SECTION**
3 Mullion-to-Mullion connection



4 **MULLION-TO-MULLION ANCHOR BRACKET**
6063-T6 ALUM.



2 **ANCHOR BRACKET DETAIL**
3 Anchor to Steel Stud

- Notes:
- Refer to individual window product approval for fabrication and installation requirements, including glazing details, frame reinforcement and anchor specifications.
 - Mullion bracket anchoring details shown may be used at either end of mullion.

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"	1-1/4"
#10-16 SELF-DRILLING SHEET METAL SCREW	STEEL	A MIN. OF 3 THREADS SHALL PROTRUDE COMPLETELY THROUGH THE STEEL SUBSTRATE	1"	1-1/4"

WOOD FRAMING (S.G. >= 0.55)
STEEL CONFORMING TO ASTM A653, 16 GA. , 0.060" MIN. THICKNESS (Fy = 33,000 PSI, Fu = 45,000 PSI)
SHEET METAL SCREWS (SAE GRADE 5 MIN.): HILTI KWIK-FLEX or ELCO DRILL-FLEX

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:
ALUMINUM CLIPPED MULLION

PART OR ASSEMBLY:
WOOD/STEEL STUD
ANCHOR BRACKET DETAILS

6	7/06/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
5	7/09/20	UPDATE TO 7TH ED.	(2020)	FBC	LFS
4	6/01/17	UPDATE TO 6TH ED.	(2017)	FBC	LFS
3	5/05/16	MODIFY ANCHOR CLIP			LFS
2	1/28/15	UPDATE TO 5TH ED.	(2014)	FBC	JK
1	4/8/14	REVISE ANCHOR CLIPS			LFS
NO.	DATE				BY
					REVISIONS

DATE: 10/01/13

SCALE: N.T.S.

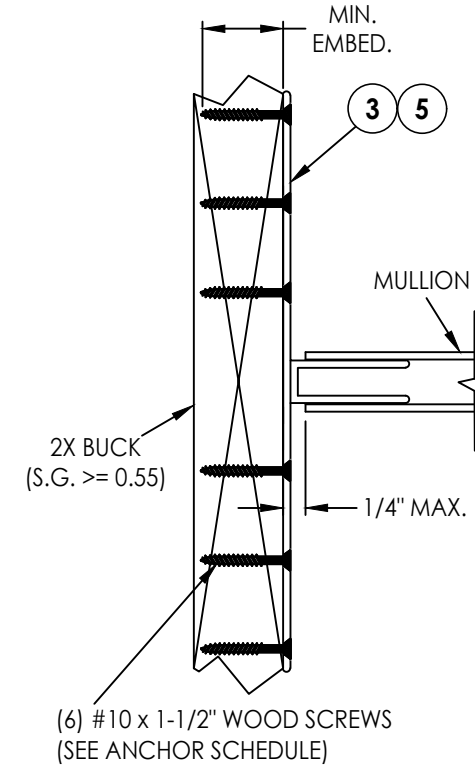
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CHK. BY: LFS

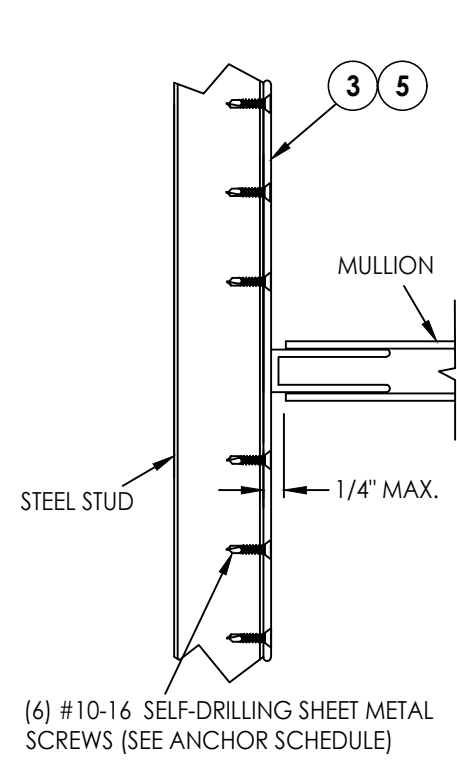
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SHEET 3 OF 4

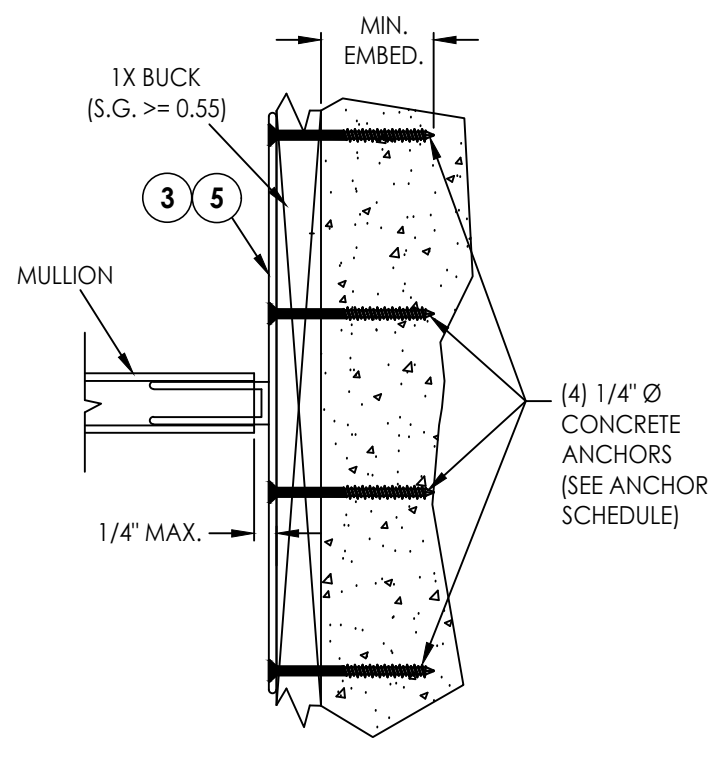
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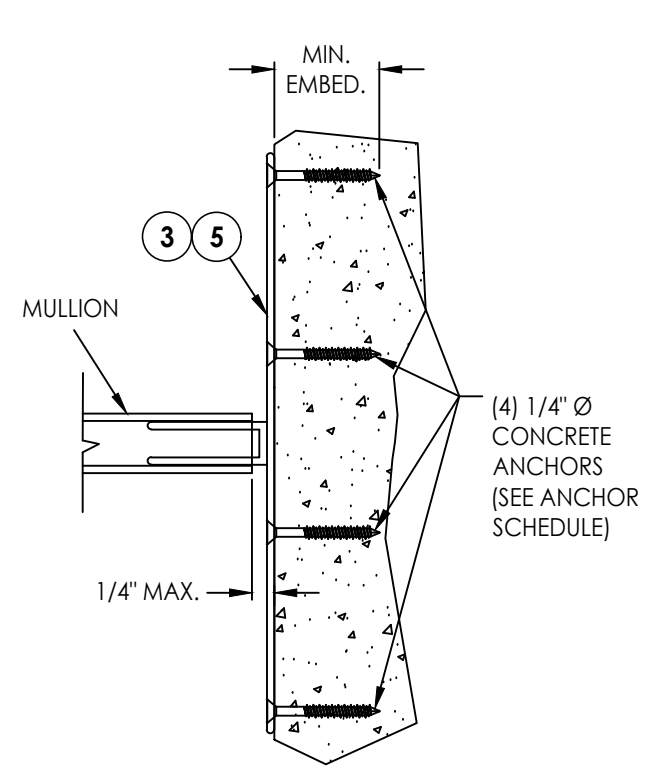
1 **ANCHOR BRACKET DETAIL**
4 Anchor to 2x Buck



2 **ANCHOR BRACKET DETAIL**
4 Anchor to Steel Stud



3 **ANCHOR BRACKET DETAIL**
4 Anchor to Masonry thru 1x Buck

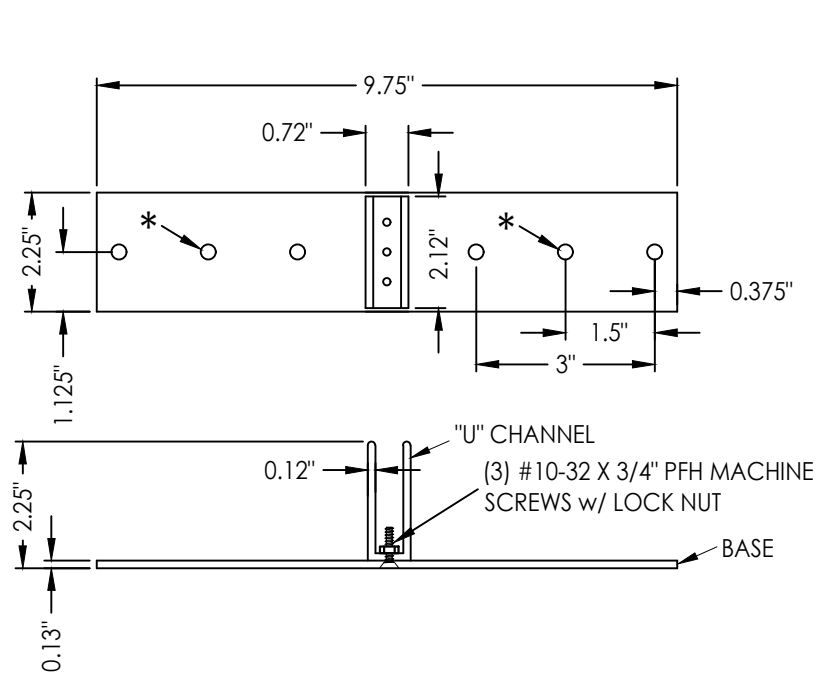


4 **ANCHOR BRACKET DETAIL**
4 Anchor Direct to Masonry

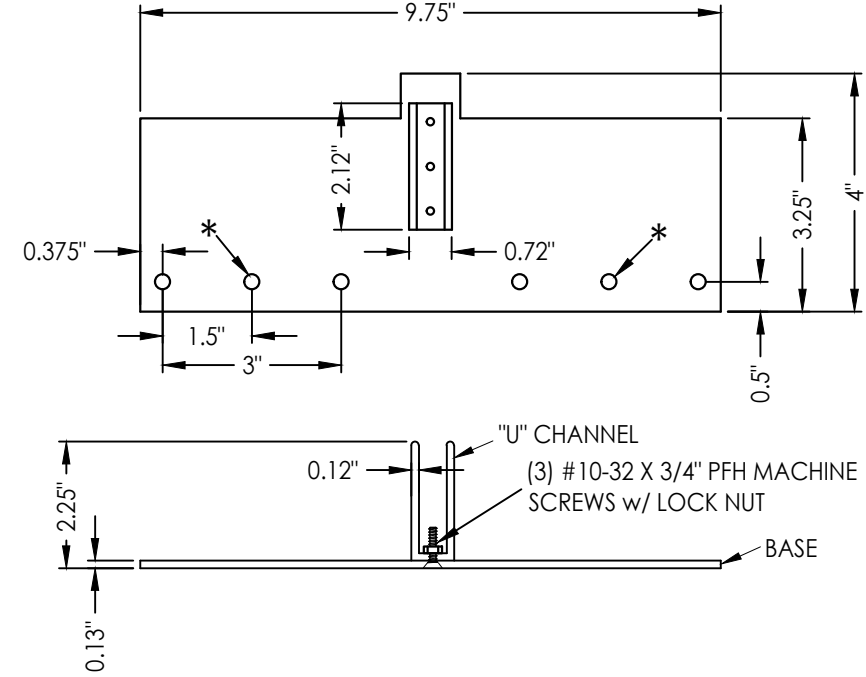
- Notes:**
- Refer to individual window product approval for fabrication and installation requirements, including glazing details, frame reinforcement and anchor specifications.
 - Mullion bracket anchoring details shown may be used at either end of mullion.

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"	1-1/4"
#10-16 SELF-DRILLING SHEET METAL SCREW	STEEL	A MIN. OF 3 THREADS SHALL PROTRUDE COMPLETELY THROUGH THE STEEL SUBSTRATE	1"	1-1/4"
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"

WOOD FRAMING (S.G. >= 0.55)
STEEL CONFORMING TO ASTM A653, 16 GA., 0.060" MIN. THICKNESS (Fy = 33,000 PSI, Fu = 45,000 PSI)
SHEET METAL SCREWS (SAE GRADE 5 MIN.): HILTI KWIK-FLEX or ELCO DRIL-FLEX
CONCRETE CONFORMING TO ACI 301 (3,000 PSI MIN.) OR HOLLOW BLOCK CONFORMING TO ASTM C90



3 **MASONRY OR WOOD/STEEL STUD ANCHOR BRACKET**
BASE (6061-T6 ALUM.)
"U" CHANNEL (6063-T6 ALUM.)



5 **MASONRY OR WOOD/STEEL STUD OFFSET ANCHOR BRACKET**
BASE (6061-T6 ALUM.)
"U" CHANNEL (6063-T6 ALUM.)

* Holes indicated to be used for wood/steel stud installations only. Do not use for concrete screws.

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

PRODUCT:
ALUMINUM CLIPPED MULLION

PART OR ASSEMBLY:
MASONRY OR WOOD/STEEL STUD ANCHOR BRACKET DETAILS

7/06/23 UPDATE TO 8TH ED. (2023) FBC

6

LFS

7/09/20 UPDATE TO 7TH ED. (2020) FBC

5

LFS

6/01/17 UPDATE TO 6TH ED. (2017) FBC

4

LFS

5/05/16 MODIFY ANCHOR CLIP

3

LFS

1/28/15 UPDATE TO 5TH ED. (2014) FBC

2

JK

4/8/14 REVISE ANCHOR CLIPS

1

LFS

NO.

DATE

BY

REVISIONS

DATE: 10/01/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-16542.4

SHEET 4 OF 4

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

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