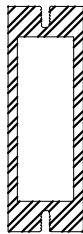


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250 Staunton Turnpike, Parkersburg, WV 26104

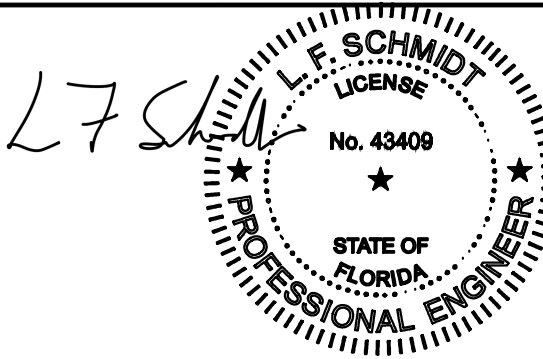
TMP-2603
EXTRUDED ALUMINUM
VERTICAL CLIPPED MULLION



GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements, including the "High Velocity Hurricane Zone".
2. When used in the "HVHZ", this product (if mulled together with "HVHZ" impact rated windows), complies with Section 1626 of the FBC and does not require an impact resistant covering.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure and be reviewed by the Building Official.
4. 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.
5. 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.
6. Mullion anchor embedment to base material shall be beyond wall dressing or stucco.
7. Any conditions not covered in this evaluation are subject to separate engineering evaluation.
8. Aluminum components, including fasteners, shall meet the requirements of FBC Section 2003.

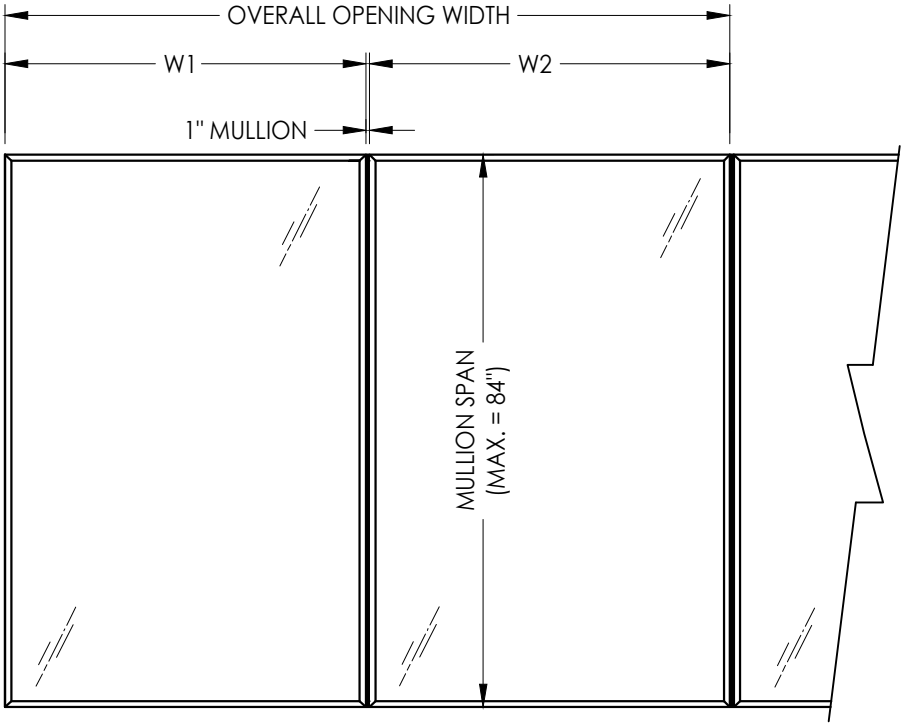
TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical Elevations & General Notes
2	Mullion Design PressureTable & Cross Sections
3	Wood/Steel Stud Anchor Clip Details
4	Masonry or Wood/Steel Stud Anchor Clip Details



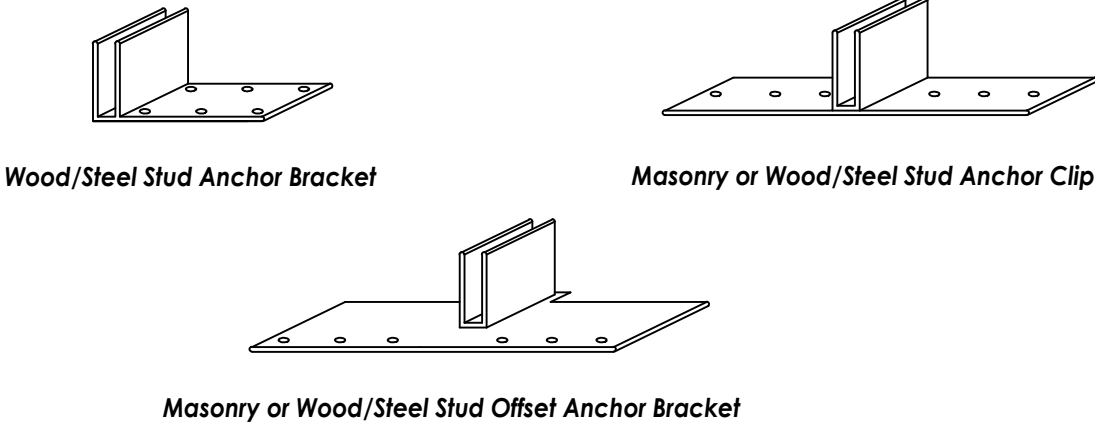
Digitally signed by Lyndon F Schmidt
Date: 2023.07.06 14:11:47 -04'00'

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



VERTICAL MULLED WINDOW UNITS
ADJOINING WINDOW UNITS CAN BE EQUAL OR UNEQUAL WIDTHS



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	
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-16542.5			
SHEET 1 OF 4			

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CLIPPED MULLION		TMP-2603 EXTRUDED ALUMINUM VERTICAL CLIPPED MULLION LOAD TABLE (PSF)																								
		OVERALL OPENING WIDTH																								
		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"	67.5	62.5	58.5	55.0	52.0	49.5	47.0	45.0	43.0	41.5	40.0	39.0	37.5	36.5	35.5	34.5	34.0	33.5	33.0	32.5	32.0	31.0	31.0	30.5	30.0
	82"	72.5	67.5	63.0	59.0	56.0	53.5	51.0	48.5	46.5	45.0	43.5	42.0	40.5	39.5	38.5	37.5	37.0	36.0	35.5	35.0	34.5	34.0	33.5	33.5	33.0
	80"	75.0	73.0	68.0	64.0	60.5	57.5	55.0	52.5	50.0	48.5	47.0	45.5	44.0	43.0	42.0	41.0	40.0	39.5	38.5	38.0	37.5	37.0	37.0	36.5	36.5
	78"	75.0	75.0	74.0	69.0	66.0	62.0	60.0	57.0	55.0	53.0	51.0	50.0	48.0	47.0	46.0	45.0	44.0	43.0	42.5	42.5	41.5	41.0	40.5	40.5	40.0
	76"	75.0	75.0	75.0	74.5	71.5	67.0	64.0	61.0	59.5	57.0	55.5	53.5	52.5	50.5	50.0	49.0	48.0	47.5	46.5	46.0	45.5	45.0	44.5	44.5	44.0
	74"	75.0	75.0	75.0	75.0	75.0	74.0	70.5	67.5	65.0	63.0	61.0	59.0	57.5	56.0	55.0	54.0	53.0	52.0	51.5	50.5	50.0	50.0	49.5	49.5	49.0
	72"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	74.0	71.0	69.0	66.5	65.0	63.0	61.5	60.5	59.0	58.5	57.5	56.5	56.0	55.5	55.5	55.0	55.0	55.0
	70"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	73.5	71.5	69.5	68.0	66.5	65.5	64.5	63.5	63.0	62.5	62.0	61.5	61.5	61.5	61.5
	68"	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	72.5	71.5	70.5	69.5	69.5	69.5	69.0	69.0	69.0	69.0
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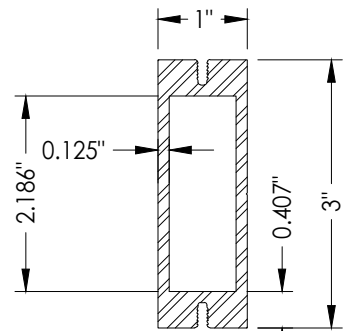
DESIGN PRESSURE TABLE NOTES:

1. Determine the Overall Opening Width for the two windows to be mullied together. If multiple units are to be mullied together, use the maximum Overall Opening Width for the two widest adjacent windows.
2. Enter the table at the intersection of the Mullion Length and the Overall Opening Width to determine the maximum approved Design Pressure.

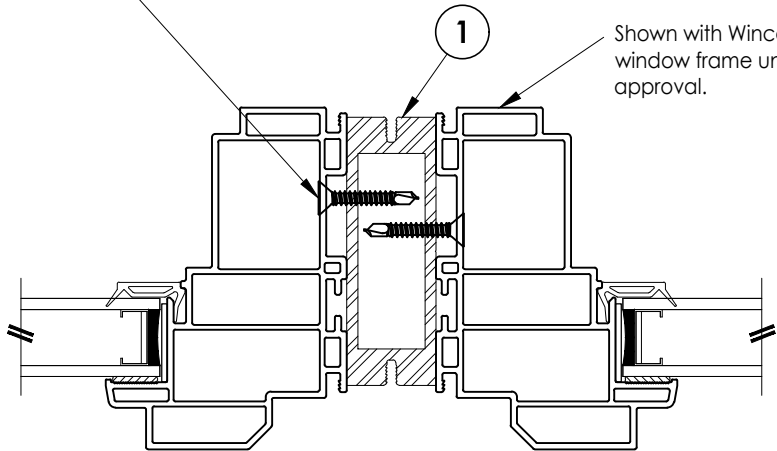
Refer to separate window approval for quantity, location, size & head type of anchors required to fasten window frame to mullion. At a minimum, substitute a #10-16 Self-Drilling SMS for each connector with at least 3 threads protruding completely through the mullion face.

APPROVED WINDOW UNIT TYPES

- Fixed/Picture Windows
- Casement Windows
- Awning Windows
- Horizontal Slider Windows
- Single Hung Windows
- Double Hung Windows



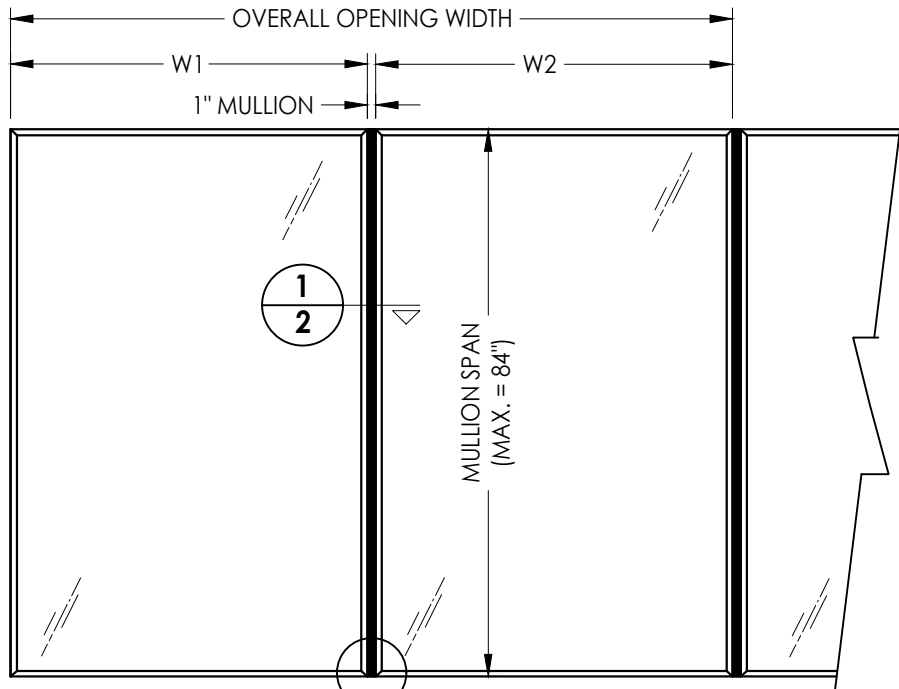
1 TMP-2603 MULLION
6063-T6 ALUM.



1 FRAME TO MULLION CONNECTION
2

Shown with Wincore Fixed/Picture window frame under separate approval.

OVERALL OPENING WIDTH = W1 + W2 + 1 (inch)



SEE ANCHOR CLIP DETAILS: SHEETS 3 & 4

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

PRODUCT:
ALUMINUM CLIPPED MULLION

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	LFS
2	1/28/15	UPDATE TO 5TH ED. (2014)	FBC	JK
1	4/8/14	REVISE ANCHOR CLIPS	LFS	BY
NO.	DATE			

DATE: 10/01/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

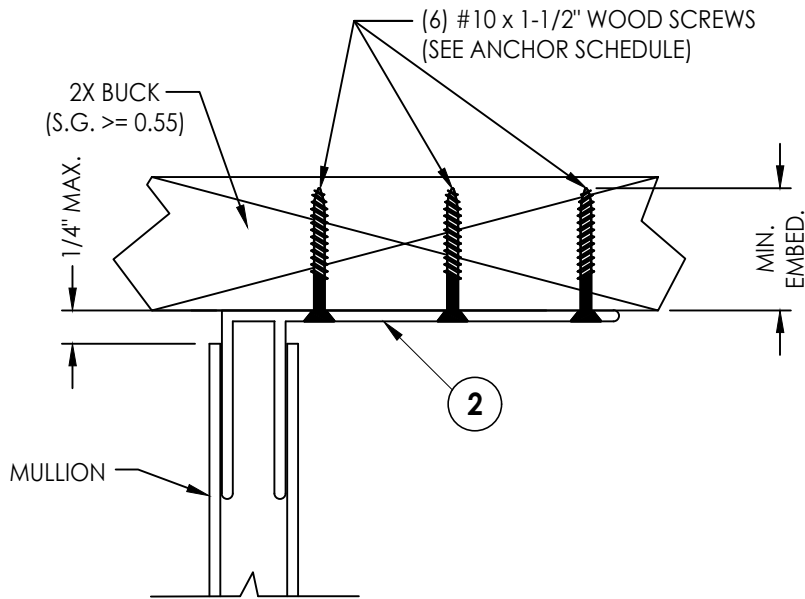
FL-16542.5

SHEET 2 OF 4

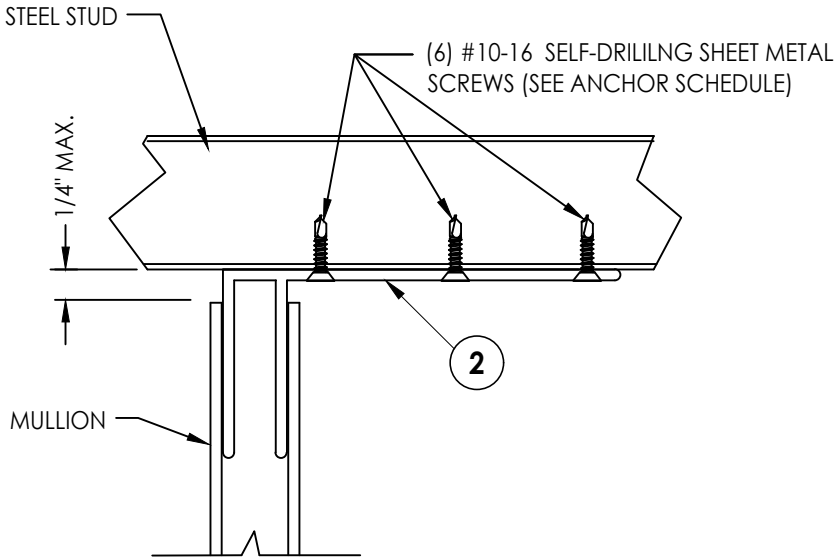
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PART OR ASSEMBLY:
MULLION DESIGN PRESSURE
TABLE & CROSS SECTIONS

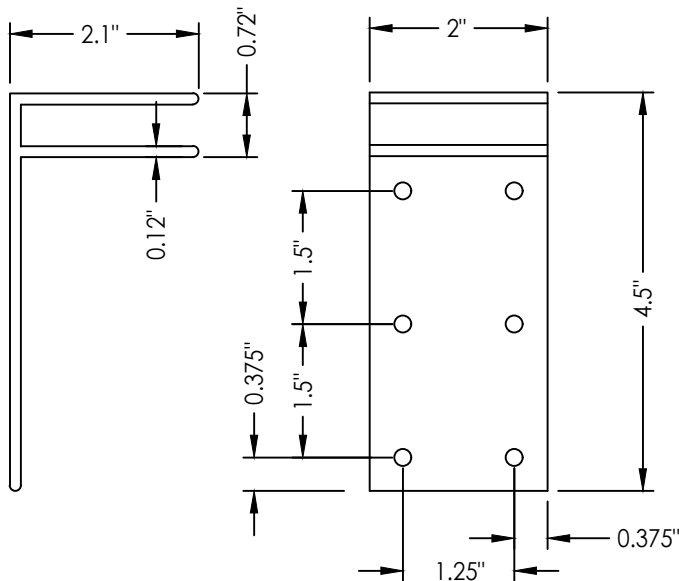
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1
3 ANCHOR BRACKET DETAIL
Anchor to 2x Buck



2
3 ANCHOR BRACKET DETAIL
Anchor to Steel Stud



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

- 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 DRIL-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

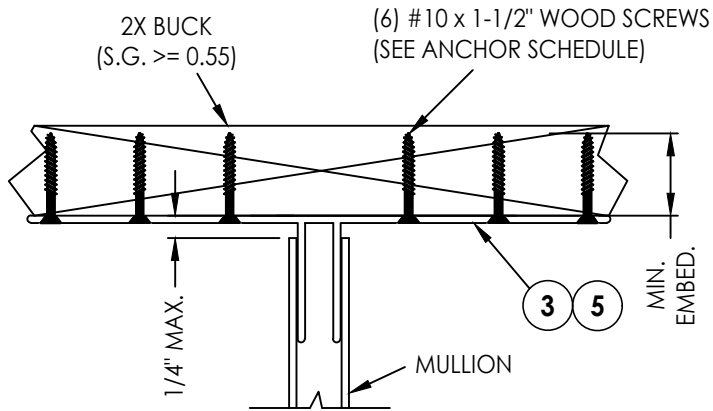
PRODUCT:
ALUMINUM CLIPPED MULLION

PART OR ASSEMBLY:
WOOD/STEEL STUD
ANCHOR BRACKET DETAILS

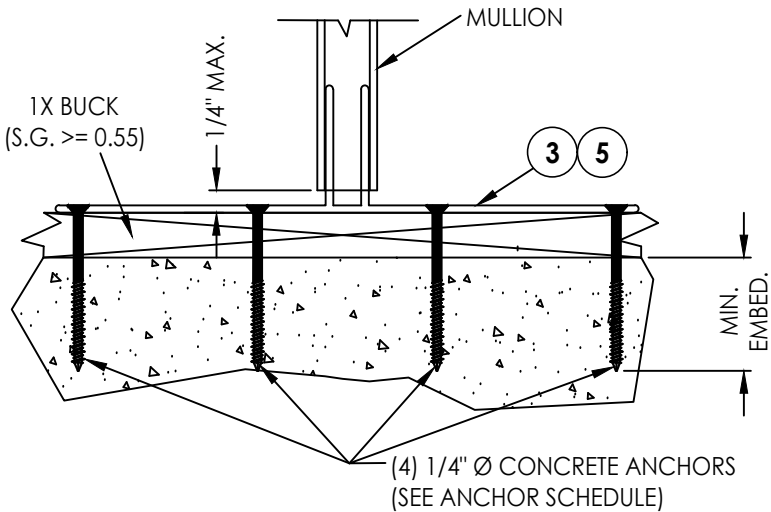
NO.	DATE	REVISIONS
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5	7/09/20	UPDATE TO 7TH ED. (2020)
4	6/01/17	UPDATE TO 6TH ED. (2017)
3	5/05/16	MODIFY ANCHOR CLIP
2	1/28/15	UPDATE TO 5TH ED. (2014)
1	4/8/14	REVISE ANCHOR CLIPS

DATE: 10/01/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-16542.5
SHEET 3 OF 4

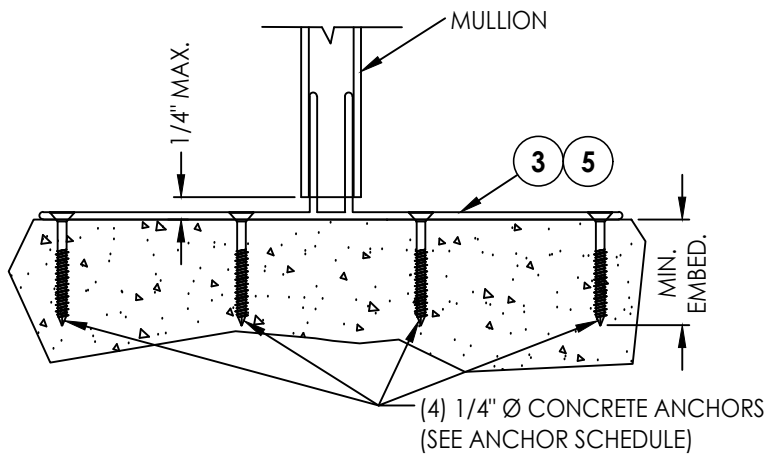
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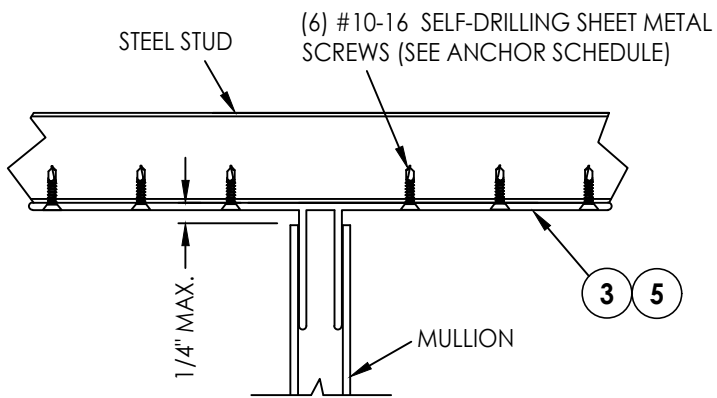
1 ANCHOR BRACKET DETAIL
5 Anchor to 2x Buck



3 ANCHOR BRACKET DETAIL
5 Anchor to Masonry thru 1x Buck



4 ANCHOR BRACKET DETAIL
5 Anchor Direct to Masonry



2 ANCHOR BRACKET DETAIL
5 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.

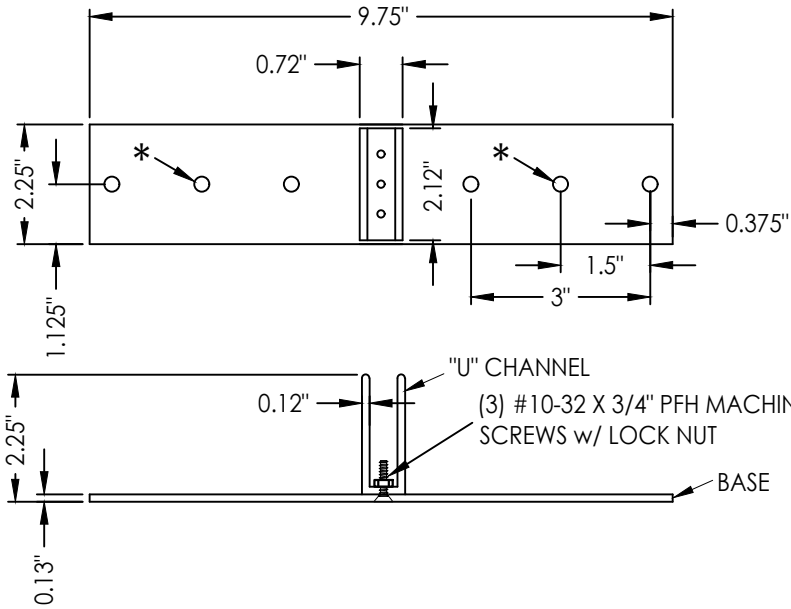
MULLION ANCHOR BRACKET ANCHOR SCHEDULE				
ANCHOR	SUBSTRATE	EMBEDMENT (MIN.)	EDGE DISTANCE (MIN.)	CENTER-TO-CENTER SPACING (MIN.)
#10 PFH WOOD SCREW	WOOD	1-3/8"	3/4"	1-1/4"
#10-16 SELF-DRILLING SHEET METAL SCREW	STEEL	A MIN. OF 3 THREADS SHALL PROTRUDE COMPLETELY THROUGH THE STEEL SUBSTRATE	3/4"	1-1/4"
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)

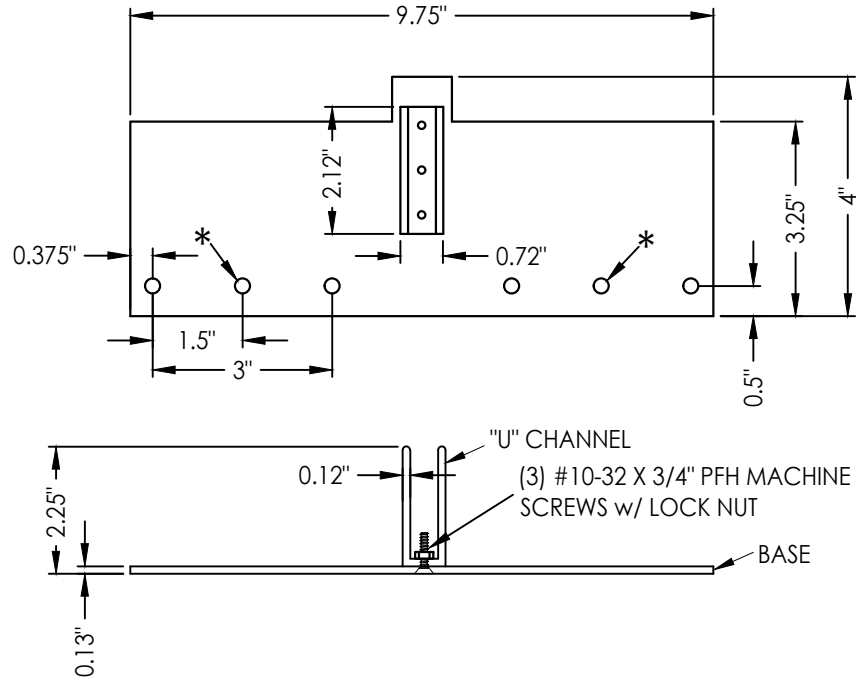
STEEL CONFORMING TO ASTM A653, 16 GA. , 0.060" MIN. THICKNESS (Fy = 33,000 PSI, Fu = 45,000 PSI)

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

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:
MASONRY OR WOOD/STEEL STUD ANCHOR BRACKET DETAILS

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

DATE: 10/01/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-16542.5

SHEET 4 OF 4