



250 Staunton Turnpike, Parkersburg, WV 26104

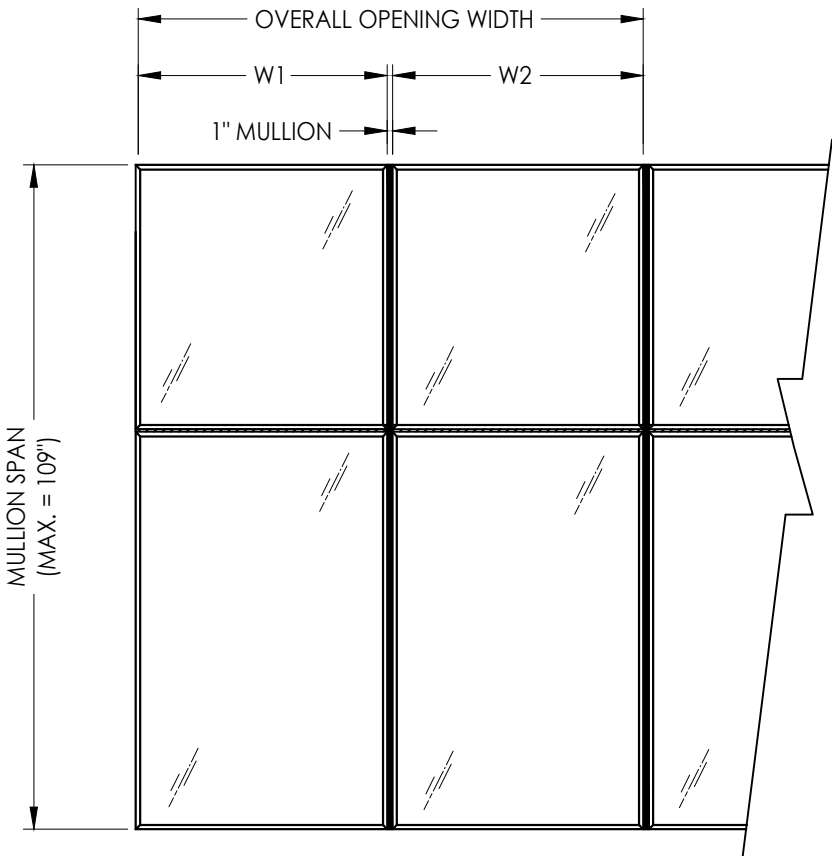
TMP-2603
EXTRUDED ALUMINUM
VERTICAL CLIPPED COMBINATION MULLION



GENERAL NOTES

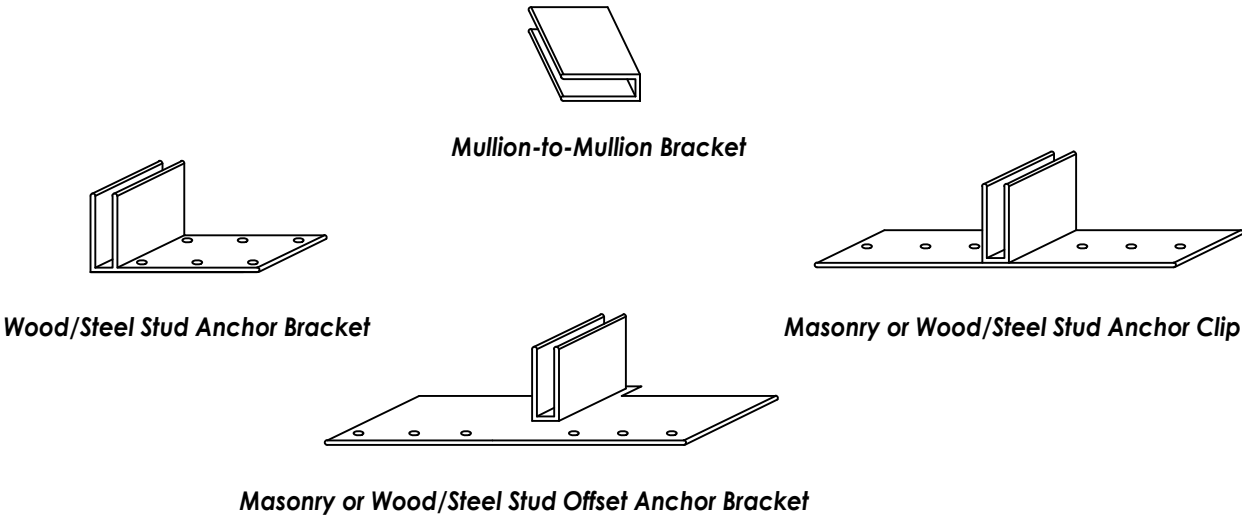
1. This product has been evaluated and is in compliance with the 9th Edition (2026) Florida Building Code (FBC) structural requirements, including the "High Velocity Hurricane Zone".
2. When used in the "HVHZ", this product (if mulled together with "HVHZ" impact rated windows), complies with Section 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.

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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

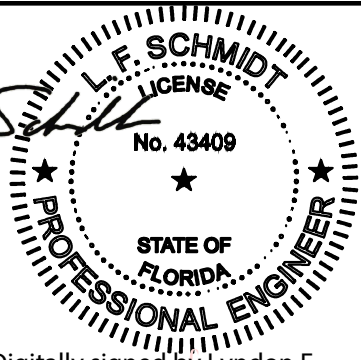


VERTICAL MULLED WINDOW UNITS

ADJOINING WINDOW UNITS CAN BE EQUAL OR UNEQUAL WIDTHS



Masonry or Wood/Steel Stud Anchor Clip



Digitally signed by Lyndon F Schmidt
Date: 2026.07.27 15:19:30 -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

Documents Prepared By:		BUILDING CONSULTANTS, INC.	
Lyndon F. Schmidt		P.O. Box 230, Valrico, FL 33595	
P.E. No. 43409		Phone No.: 813.659.9197	
		. FBPE Registry No. 9813	
PRODUCT:		PART OR ASSEMBLY: TYPICAL ELEVATIONS & GENERAL NOTES	
ALUMINUM CLIPPED MULLION			
		</	

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CLIPPED MULLION		TMP-2603 EXTRUDED ALUMINUM VERTICAL CLIPPED COMBINATION 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	109"	27.5	25.5	23.5	22.5	21.5	20.0	19.0	18.0	17.0	16.0	15.5	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-
	104"	32.0	29.5	27.0	25.0	23.5	22.5	21.5	20.5	19.5	18.5	18.0	17.5	16.5	16.0	15.5	-	-	-	-	-	-	-	-	-	-
	100"	34.0	31.5	29.0	27.5	26.0	24.5	23.5	22.0	21.0	20.5	19.5	19.0	18.0	17.5	17.0	16.5	16.0	15.5	15.0	-	-	-	-	-	-
	96"	42.0	39.0	36.5	34.0	32.0	30.0	28.0	26.5	25.0	24.0	23.0	22.0	21.0	20.5	20.0	19.5	18.0	17.5	17.0	16.5	16.0	15.5	15.0	-	-
	92"	47.5	44.0	40.5	37.5	35.5	33.0	31.5	30.0	28.5	27.5	26.0	25.0	24.0	23.0	22.0	21.0	20.5	20.0	19.5	19.0	18.0	17.5	17.0	16.5	16.0
	88"	54.0	50.0	45.5	43.0	40.5	38.0	36.0	34.0	32.0	31.5	30.0	28.5	27.5	26.5	25.5	24.5	23.5	23.0	22.5	21.5	21.0	20.0	19.5	19.0	18.5
	84"	63.0	58.0	54.0	50.0	47.0	44.0	41.5	39.5	37.5	35.5	33.5	32.0	31.0	29.5	28.0	27.0	26.0	25.0	24.0	23.5	22.5	22.0	21.0	20.5	20.0
	80"	73.0	67.5	63.0	58.5	55.0	51.5	48.5	46.0	43.5	41.5	39.5	37.5	36.0	34.5	33.0	31.5	30.5	29.5	28.5	27.5	26.5	25.5	25.0	24.0	23.5
	76"	75.0	75.0	73.0	68.5	64.0	60.5	57.0	54.0	51.0	48.5	46.0	44.0	42.5	40.5	39.0	37.5	36.0	34.5	33.5	32.5	31.0	30.0	29.5	28.5	27.5
	72"	75.0	75.0	75.0	75.0	73.0	71.5	67.5	63.5	60.5	57.5	55.0	52.5	50.0	48.0	46.0	44.0	42.5	41.0	39.5	38.5	37.0	36.0	35.0	34.0	33.0
	68"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	73.0	72.5	69.0	65.5	62.5	60.0	57.5	55.0	53.0	51.0	49.0	47.0	46.0	44.5	43.0	42.0	40.5	39.5
	64"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	73.0	72.0	69.5	67.0	64.0	62.0	59.5	57.5	55.5	54.0	52.5	50.5	49.5	47.5
	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	73.5	71.5	69.5	67.5	65.5	63.5	61.5	59.5	57.5	56.0	54.5	52.5

DESIGN PRESSURE TABLE NOTES:

- 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.
- Enter the table at the intersection of the Mullion Length and the Overall Opening Width to determine the maximum approved Design Pressure.

APPROVED WINDOW UNIT TYPES

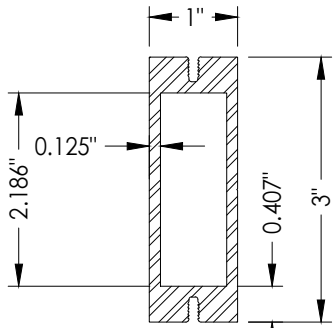
Fixed/Picture Windows
Casement Windows
Awning Windows
Horizontal Slider Windows
Single Hung Windows
Double Hung Windows

See Horizontal Clipped Mullion Approval (FL-16542.7), if applicable, for design pressure chart & connection details.

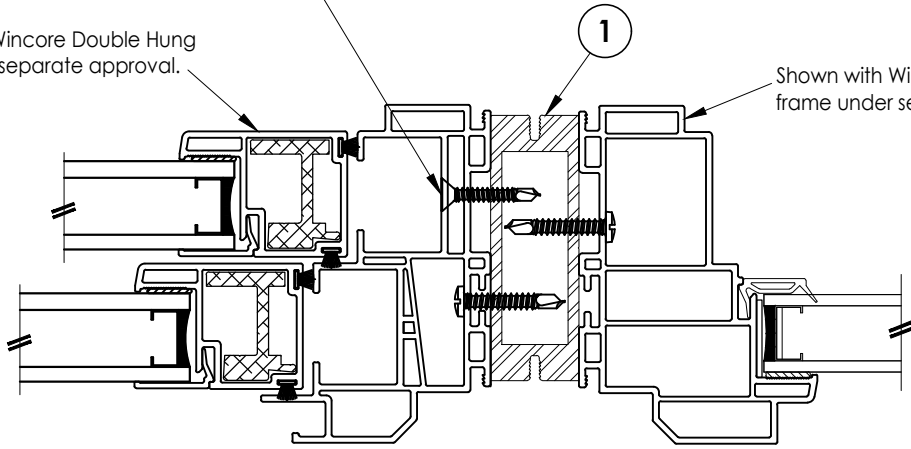
Refer to separate window approval for quantity, location, size & head type of anchors required to fasten window frame to mullion. At a minimum, substitute a #10-16 Self-Drilling SMS for each connector with at least 3 threads protruding completely through the mullion face.

Shown with Wincore Double Hung frame under separate approval.

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

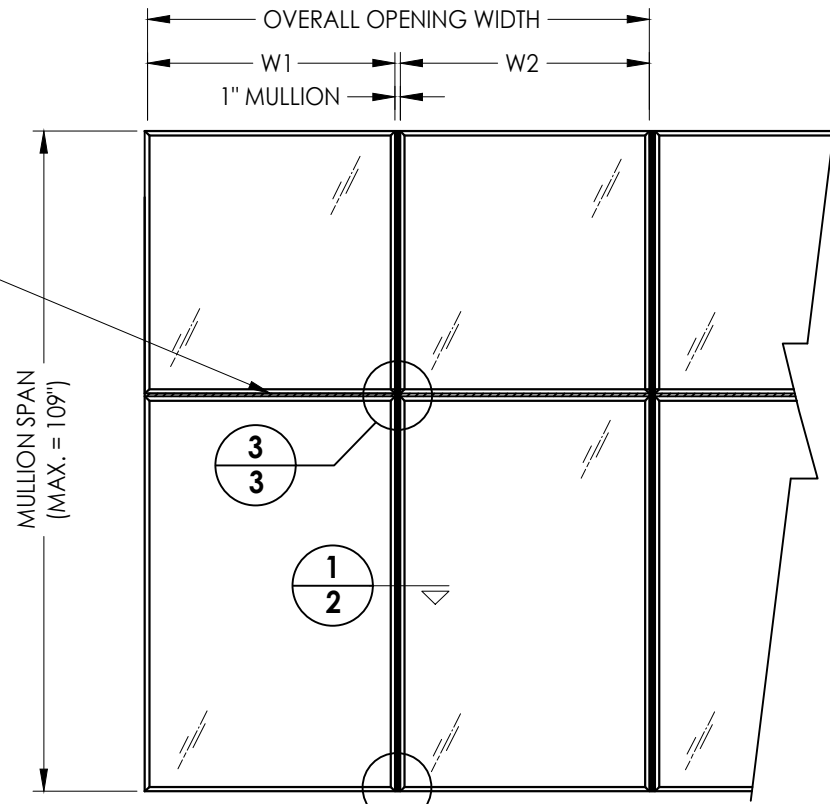


1 TMP-2603 MULLION
6063-T6 ALUM.



1 2 FRAME TO MULLION CONNECTION

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

PART OR ASSEMBLY:
MULLION DESIGN PRESSURE
TABLE & CROSS SECTIONS

DATE: 10/01/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

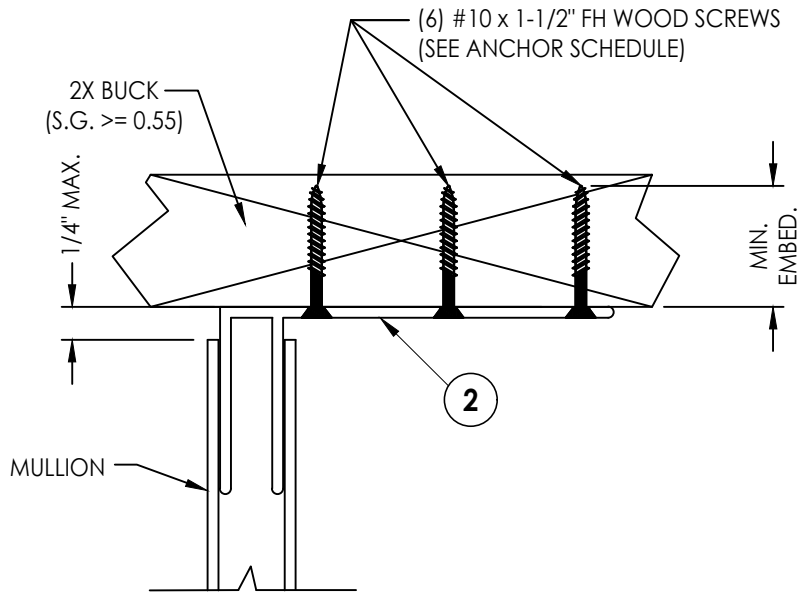
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FL-16542.6

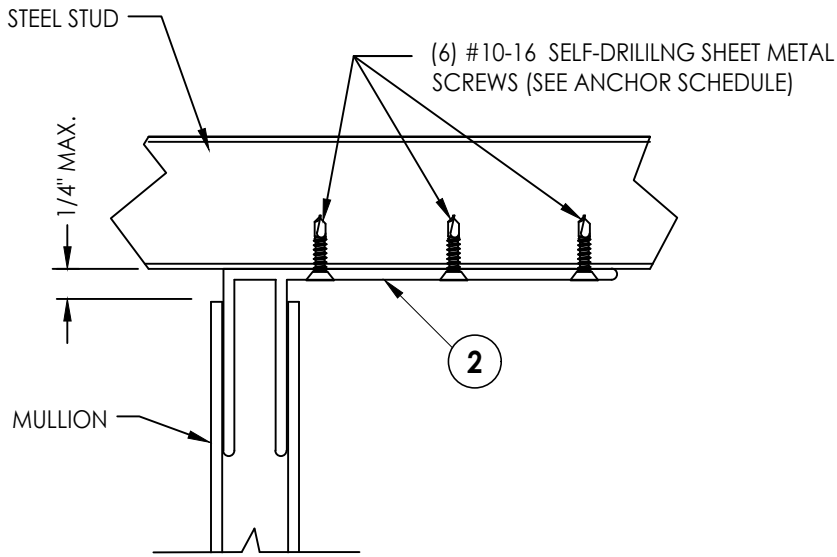
SHEET 2 OF 4

RW BUILDING CONSULTANTS, INC.
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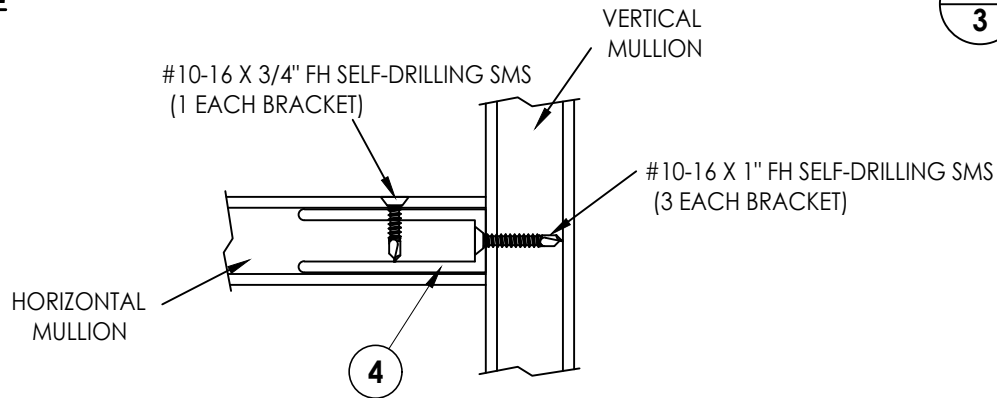
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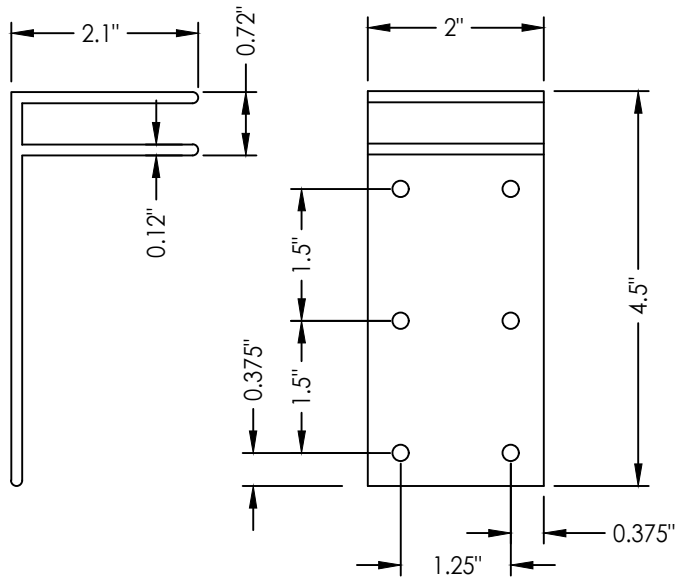
1 **ANCHOR BRACKET DETAIL**
3 Anchor to 2x Buck



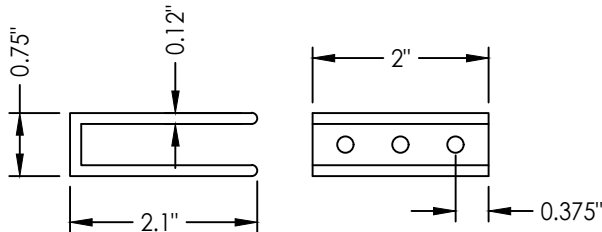
2 **ANCHOR BRACKET DETAIL**
3 Anchor to Steel Stud



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



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



4 **MULLION-TO-MULLION 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:
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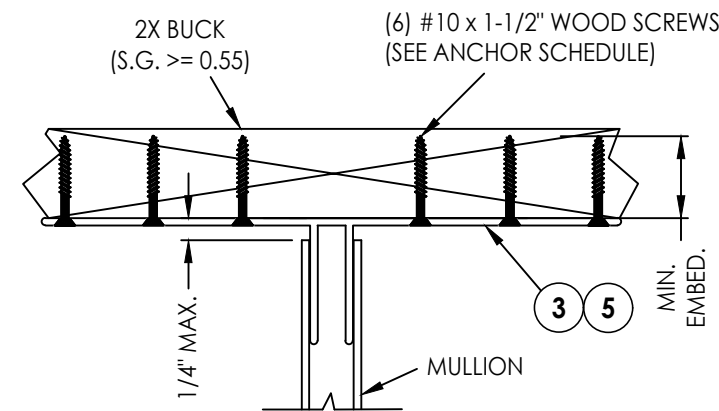
PRODUCT:
ALUMINUM CLIPPED MULLION

PART OR ASSEMBLY:
WOOD/STEEL STUD
ANCHOR BRACKET DETAILS

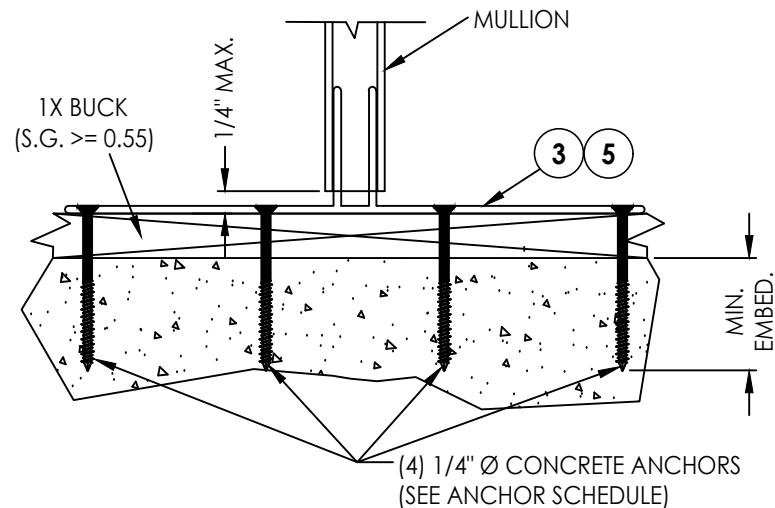
NO.	DATE	REVISIONS
7	7/01/26	UPDATE TO 9TH ED. (2026) FBC LFS
6	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
5	7/09/20	UPDATE TO 7TH ED. (2020) FBC LFS

DATE: 10/01/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-16542.6
SHEET 3 OF 4

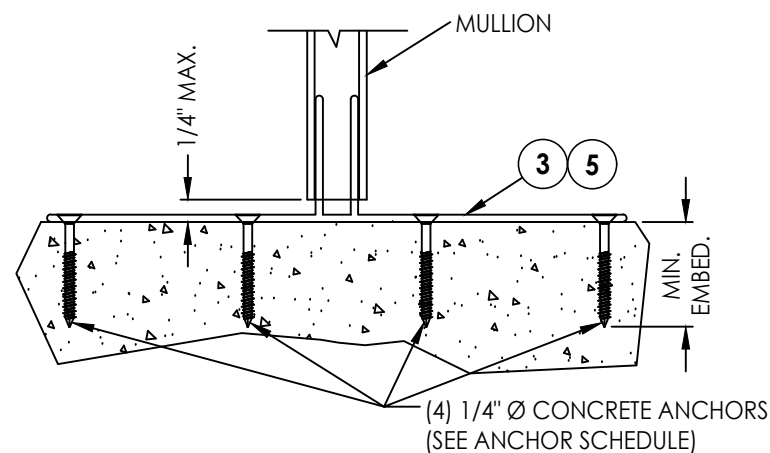
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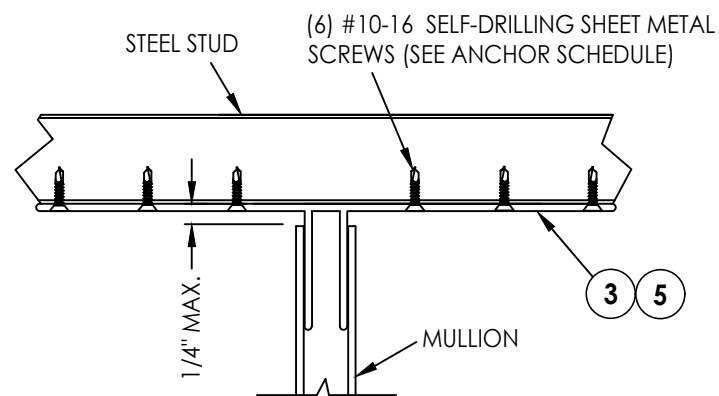
1
4 **ANCHOR BRACKET DETAIL**
Anchor to 2x Buck



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



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



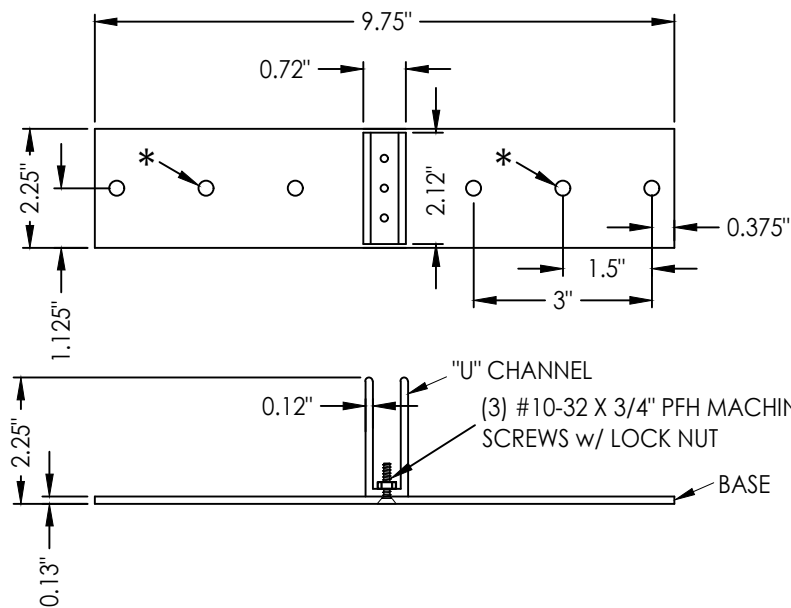
2
4 **ANCHOR BRACKET DETAIL**
Anchor to Steel Stud

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.

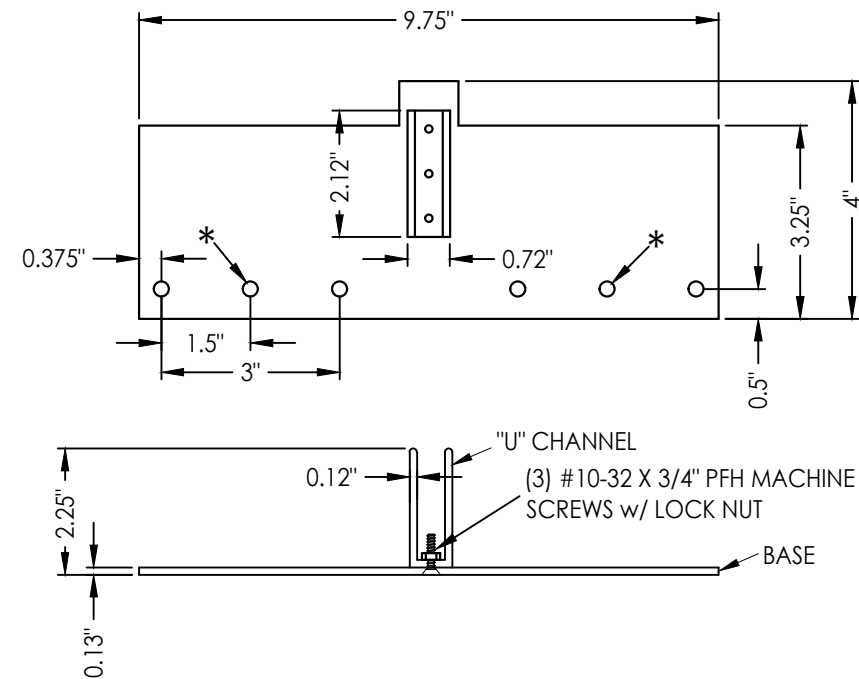
MULLION ANCHOR BRACKET ANCHOR SCHEDULE				
ANCHOR	SUBSTRATE	EMBEDMENT (MIN.)	EDGE DISTANCE (MIN.)	CENTER-TO-CENTER SPACING (MIN.)
#10 PFH WOOD SCREW	WOOD	1-3/8"	3/4"	1-1/4"
#10-16 SELF-DRILLING SHEET METAL SCREW	STEEL	A MIN. OF 3 THREADS SHALL PROTRUDE COMPLETELY THROUGH THE STEEL SUBSTRATE	3/4"	1-1/4"
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 ($F_y = 33,000$ PSI, $F_u = 45,000$ 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.)

CORROSION RESISTANCE - SALTWATER ENVIRONMENTS
Fasteners & connectors in areas within 3000 ft (914 m) of a saltwater coastline shall comply with FBC Sections 1711.1 or R332.1.



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

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P.O. Box 230, Vairico, 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

		REVISIONS	
NO.	DATE	BY	
7	7/01/26	UPDATE TO 9TH ED. (2026) FBC	LFS
6	7/06/23	UPDATE TO 8TH ED. (2023) FBC	LFS
5	7/09/20	UPDATE TO 7TH ED. (2020) FBC	LFS

DATE: 10/01/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-16542.6

SHEET 4 OF 4