

250 Staunton Turnpike, Parkersburg, WV 26104

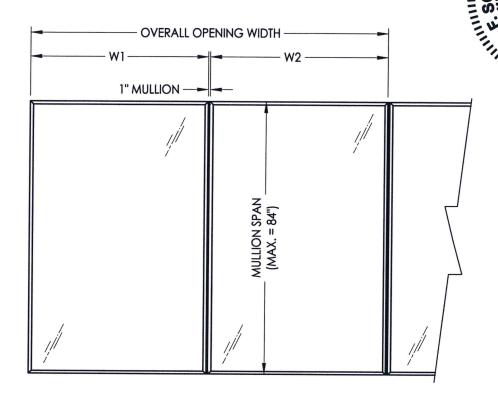
TMP-2603 EXTRUDED ALUMINUM VERTICAL CLIPPED MULLION



GENERAL NOTES

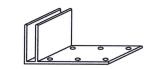
- This product has been evaluated and is in compliance with the 5th Edition (2014) Florida Building Code (FBC) structural requirements, including the "High Velocity Hurricane Zone".
- 2. When used in the "HVHZ", this product (if mulled together with "HVHZ" impact rated windows), complies with Section 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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2	Mullion design pressure table & cross sections
3	Wood/Steel Stud Anchor Bracket details
4	Masonry Anchor Bracket details
5	Masonry or Wood/Steel Stud Offset Anchor Bracket details

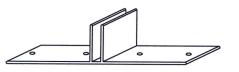


VERTICAL MULLED WINDOW UNITS

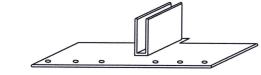
ADJOINING WINDOW UNITS CAN BE EQUAL OR UNEQUAL WIDTHS



Wood/Steel Stud Anchor Bracket



Masonry Anchor Bracket



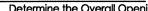
Masonry or Wood/Steel Stud Offset Anchor Bracket

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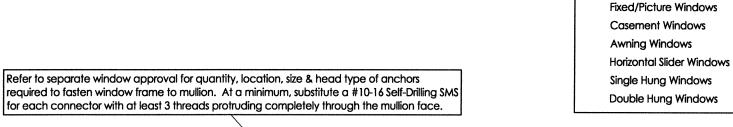
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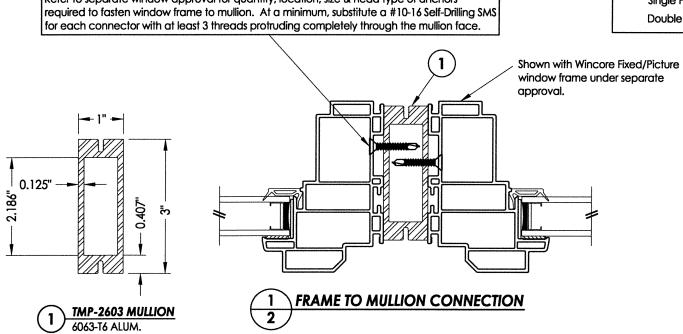
								Ţ A	AP-2603	EXTRUDI	ED ALUM	INUM VE	RTICAL	CURPED	MULLION	((O/A)D	ABLE (PS	(F)							
CLIPPED MULLION												OVERALI	. OPENIN	IG WIDTI	1										
	49"	58"	57'	61"	65"	69"	73"	77"	81"	85"	89"	93"	97"	101"	105"	109"	113"	117"	121"	125"	129"	133"	137"	141"	145"
84"	67.5	62.5	58.5	55.0	52.0	49.5	47.0	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
동 _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
78° 78°	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
<u> </u>	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
74" 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° XIW	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
₹ 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	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
64"	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	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
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	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
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	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
DESIGN PRESSI	URE TABLE	NOTES:																				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

APPROVED WINDOW UNIT TYPES

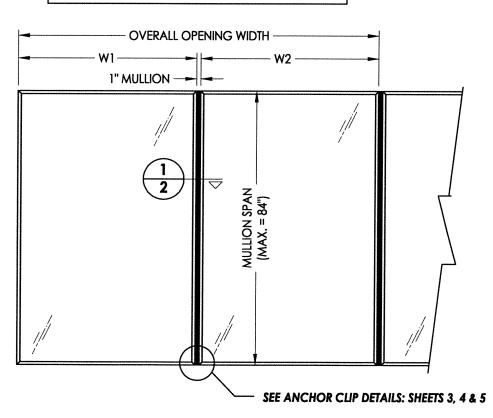


- 1. Determine the Overall Opening Width for the two windows to be mulled together. If multiple units are to be mulled together, use the maximum Overall Opening Width for the two widest adjacent windows.
- 2. Enter the table at the intersection of the Mullion Length and the Overall Opening Width to determine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



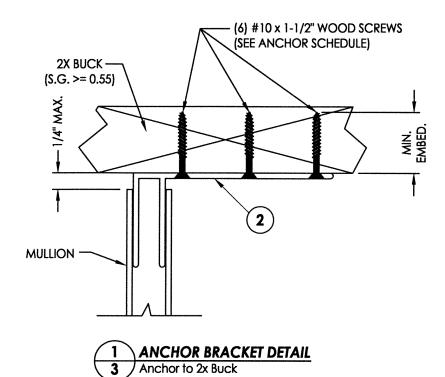


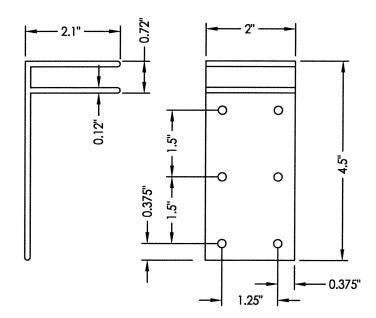




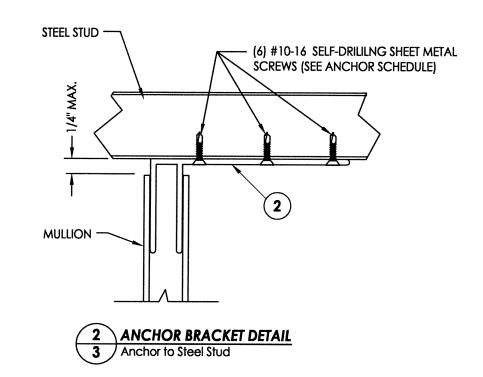
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MULLION





WOOD/STEEL STUD ANCHOR BRACKET 6063-T6 ALUM.



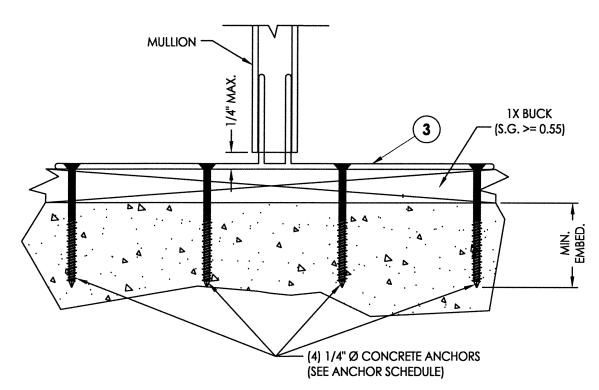
- Notes:
 Refer to individual window product approval for fabrication and installation requirements, including glazing details, frame reinforcement and anchor specifications.
- 2. Mullion bracket anchoring details shown may be used at either end of mullion.

MUL	UON ANCHO	R 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"

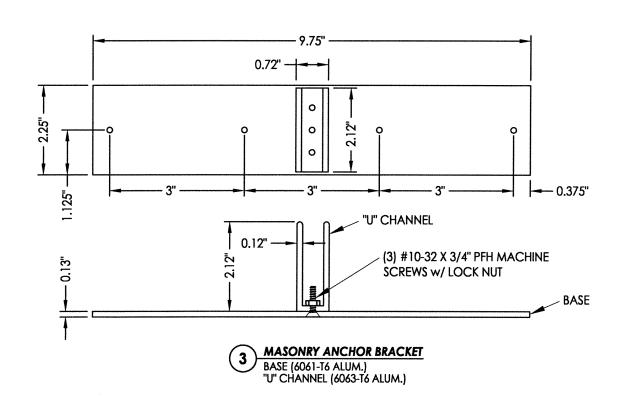
WOOD FRAMING (S.G. >= 0.55)
STEEL CONFORMING TO ASTM A653, 16 GA., 0.060" MIN. THICKNESS (Fy = 33,000 PSI, Fu = 45,000 PSI)
SHEET METAL SCREWS (SAE GRADE 5 MIN.): HILTI KWIK-FLEX or ELCO DRIL-FLEX

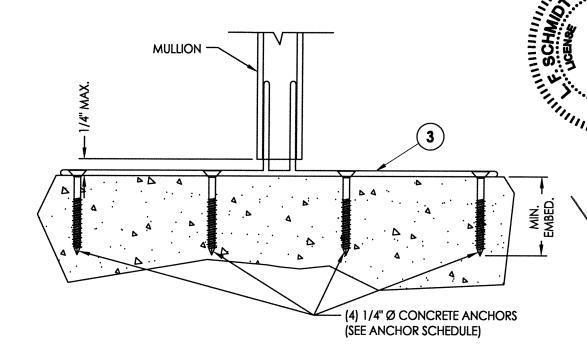
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ALUMINUM CLIPPED MULLION









ANCHOR BRACKET DETAIL
Anchor Direct to Masonry

Notes

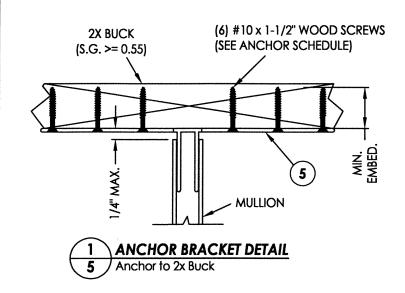
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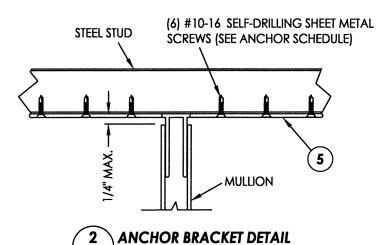
	MULLION ANCHOR	BRACKET ANCHO	R SCHEDULE	
ANCHOR	SUBSTRATE	EMBEDMENT (MIN.)	EDGE DISTANCE (MIN.)	CENTER-TO-CENTER SPACING (MIN.)
1/4" Ø PFH	HOLLOW BLOCK	1-1/4"	2-1/2"	3"
HILTI KWIK-CON II+	CONCRETE	1-1/4"	2-1/2"	3"

CONCRETE CONFORMING TO ACI 301 (3,000 PSI MIN.) OR HOLLOW BLOCK CONFORMING TO ASTM C90

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ALUMINUM CLIPPED MULLION





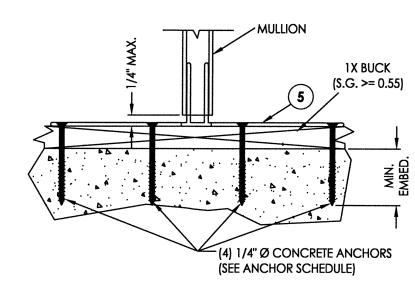
Anchor to Steel Stud



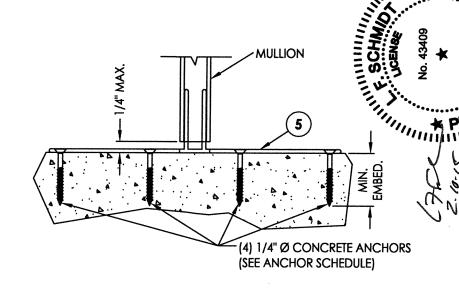
- Refer to individual window product approval for fabrication and installation requirements, including glazing details, frame reinforcement and anchor specifications.
- Mullion bracket anchoring details shown may be used at either end of mullion.

	MULLION ANCHO	R BRACKET ANCHOR	SCHEDULE	
ANCHOR	SUBSTRATE	EMBEDMENT (MIN.)	EDGE DISTANCE (MIN.)	CENTER-TO-CENTER SPACING (MIN.)
#10 PFH WOOD SCREW	WOOD	1-3/8"]"	1-1/4"
#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	HOLLOW BLOCK	1-1/4"	2-1/2"	3"
HILTI KWIK-CON II+	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 OF ELCO DRIL-FLEX CONCRETE CONFORMING TO ACI 301 (3,000 PSI MIN.) OR HOLLOW BLOCK CONFORMING TO ASTM C90









DATE: 10/01/13

FL-16542.5 SHEET 5 OF 5

N.T.S.

JK

LFS

SCALE:

DWG. BY:

CHK. BY:

DRAWING NO.:

