



1 COCHRANE AVE. PENNSBORO, WV 26415 PH.
800-426-2249

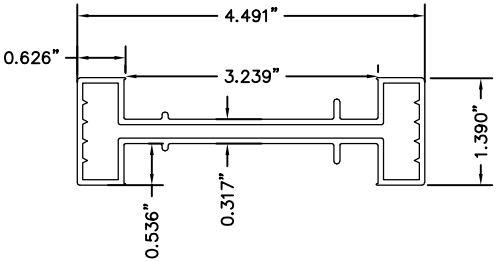
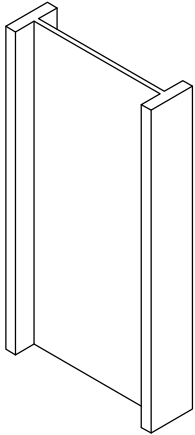
STORMBREAKER PLUS 300VL SERIES
EXTRUDED IMPACT RESISTANT VINYL
MULLIONS WITH LARGE ALUMINUM
REINFORCEMENT (HVHZ)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE REQUIREMENTS INCLUDING HVHZ.
2. THIS MULLION IS ONLY VALID WHEN USED IN CONJUNCTION WITH APPLICABLE WINDOW SYSTEMS.
3. ALL WINDOWS USED WITH THIS MULLION SHALL BE QUALIFIED UNDER SEPARATE APPROVAL. ALL GLAZING PRODUCTS USED WITH THESE MULLIONS MUST MEET THE APPLICABLE FLORIDA BUILDING CODE REQUIREMENTS.
4. ADEQUACY OF EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND STEEL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT INSTALLATION.
5. 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT INSTALLATION.
6. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
7. THIS PRODUCT DOES NOT REQUIRE AN EXTERNAL IMPACT PROTECTIVE SYSTEM IN WINDBORNE DEBRIS REGIONS, AND IS APPROVED FOR USE IN WIND ZONE 4.

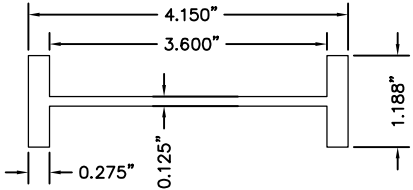
PARTS LIST			
NUMBER	DESCRIPTION	PART NO	MATERIAL
1	LARGE MULLION COVER	VPI-354 (MP0232)	PVC
2	LARGE MULLION REINFORCEMENT	16991	6063-T6
3	BASE PLATE		STAINLESS STEEL
4	MULLION L-BRACKET		STAINLESS STEEL

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PAGE NO.	DESCRIPTION
1	GENERAL NOTES, PARTS LIST AND CROSS SECTIONS
2	ELEVATION AND DESIGN PRESSURE CHARTS
3	MULLION DETAILS & SILL CROSS SECTIONS

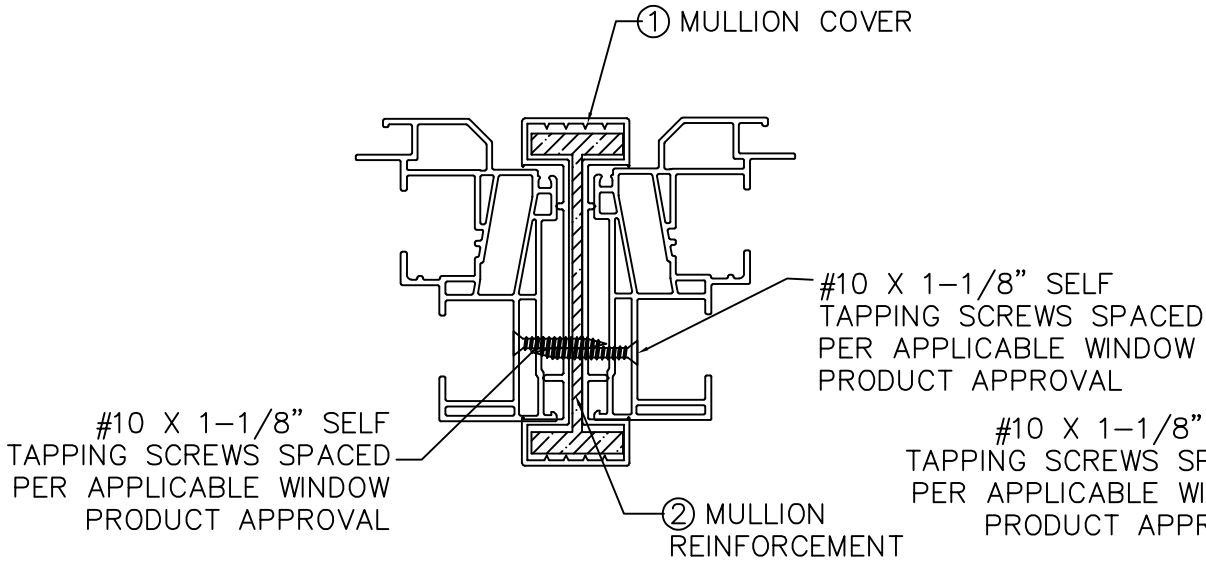


RETROFIT FRAME MULLION

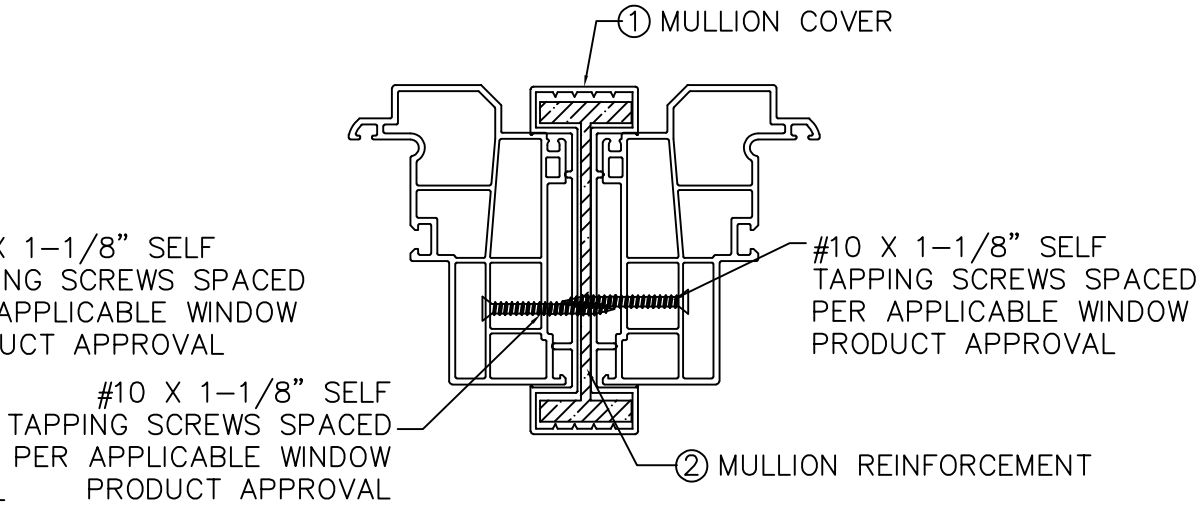
① LARGE VINYL MULLION COVER #VPI - 354 (MP0232)
EXTRUDED VINYL .070\" MIN.



② LARGE MULLION REINFORCEMENT #16991
ALUMINUM 6063-T6



DOUBLE HUNG HORIZONTAL CROSS SECTION



PICTURE (FIXED) HORIZONTAL CROSS SECTION

Lucas Turner
2026.08.13
16:45:20
-05'00'

FL 15534



LUCAS A. TURNER, P.E. FL PE #58201
TURNER ENGINEERING & CONSULTING, INC.
FBPE C.O.A. #29779 Ph. 941-380-1574
2428 OLD NATCHEZ TRC. TRL, CAMDEN, TN



SIZE: B	DRAWING NO.: RM0051	REV.: 9
DRAWN BY: GLS	DATE: 12/18/08	
CHECKED BY: J.L.	DATE: 04-26-12	
APPR'D BY: J.L.	DATE:	

SCALE: FIT SHEET: 1 of 3
SERIES: STORMBREAKER PLUS 300VL MULLION
TITLE: GENERAL NOTES & CROSS SECTIONS

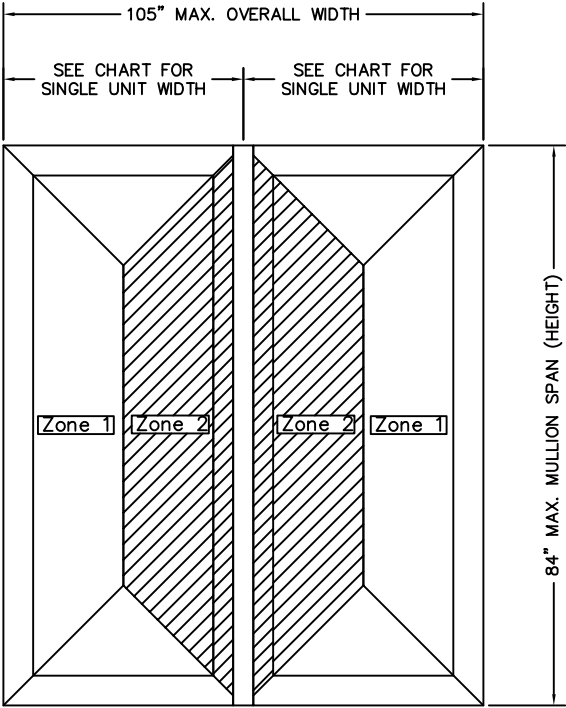


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STORMBREAKER PLUS 300VL SERIES
EXTRUDED IMPACT RESISTANT VINYL
MULLIONS WITH LARGE ALUMINUM
REINFORCEMENT (HVHZ)

REV. #:	REVISIONS:	REVISED BY:	DATE:
5	UPDATED DESIGN PRESSURE CHART PER NEW TESTING.	T.D.D.	06/20/12
6	UPDATED DRAWINGS TO 5TH ED. (2014) FBC	L.T.	01-24-12
7	UPDATED NOTE 1, SHEET 1 AND NOTE ON SHEET 2 FOR 6TH ED (2017) FBC.	LMH	10-03-17
8	UPDATED NOTE 1, SHEET 1 AND NOTE ON SHEET 2 FOR 7TH ED (2020) FBC.	L.T.	9-28-20
9	UPDATED TO CURRENT FBC	LMH	8-10-26

DESIGN PRESSURE CHART FOR MULLING
UNITS IN PSF, MULLION #16991



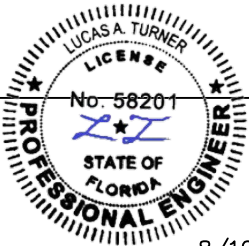
		Individual Unit Width															
		24	28	30	32	34	35	36	37	39	40	44	47	48	50	53	
Mullion Length	26	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	
	36	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	
	42	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	
	52	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	
	56	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	
	58	70	70	70	70	70	70	70	70	70	70	70	70	70	65	65	
	60	70	70	70	70	70	70	70	70	70	70	65	65	65	65	60	
	62	70	70	70	70	70	70	70	70	65	65	65	60	60	60	60	
	63	70	70	70	70	70	70	70	65	65	65	60	60	60	60	55	
	65	70	70	70	70	70	65	65	65	60	60	60	55	55	55	55	
	67	70	70	70	70	65	65	65	60	60	60	55	55	55	50	50	
	68	70	70	70	65	65	60	60	60	60	55	55	50	50	50	50	
	70	70	70	65	65	60	60	60	60	55	55	50	50	50	50	45	
	71	70	70	65	65	60	60	60	55	55	55	50	50	45	45	45	
	72	70	70	65	60	60	60	55	55	55	55	50	50	45	45	45	
	74	70	65	60	60	55	55	55	55	50	50	45	45	45	45	45	
	76	70	65	60	55	55	55	50	50	50	45	45	45	45	45	40	
	78	70	60	60	55	55	50	50	50	50	45	45	40	40	40	40	
	80	65	60	55	55	50	50	50	50	45	45	40	40	40	40	40	
	82	65	60	55	50	50	50	45	45	45	45	40	40	40	40	35	
	84	65	55	55	50	50	45	45	45	45	40	40	40	35	35	35	
note: for the HVHZ regions, a minimum of DP 50 is required; all DPs less than this are indicated in red																	

NOTE:
The pressure charts show the design pressures for the selected mullion span and panel width for achieving bending capacity, deflection and concentrated load limits specified in the current Florida Building Code.

Adhere to fastening instructions provided in this document to achieve the tabulated design pressures.

DIRECTIONS:
Select the module width and mullion span from the chart to determine the allowable design pressure for the product. When panel sizes are not equal on both sizes of the mullion, use the larger of the panel widths from the chart.

THE LOWER OF THE WINDOW DESIGN PRESSURE (SEE SEPARATE APPROVAL)
OR MULLION DESIGN PRESSURE SHALL APPLY TO THE ENTIRE ASSEMBLY.

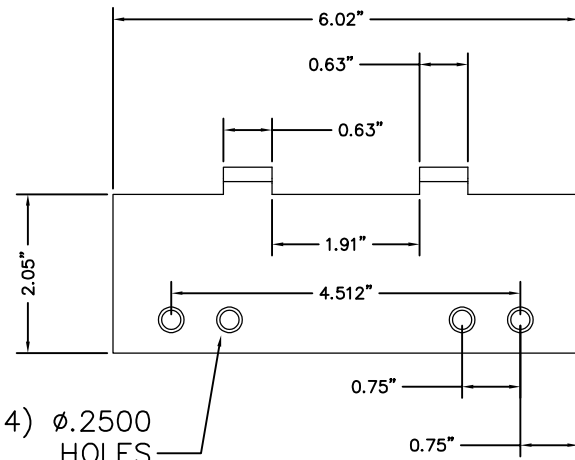


FL 15534		8/10/2026		LUCAS A. TURNER, P.E. FL PE #58201 TURNER ENGINEERING & CONSULTING, INC. FBPE C.O.A. #29779 Ph. 941-380-1574 2428 OLD NATCHEZ TRC. TRL, CAMDEN, TN		SIMONTON® 1 Cochrane Avenue Pennsboro, WV 26415		SIZE: B	DRAWING NO.: RM0051	REV.: 9
SCALE: FIT		SHEET: 2 of 3		SERIES: STORMBREAKER PLUS 300VL MULLION		TITLE: ELEVATION AND DESIGN PRESSURE CHARTS		DRAWN BY: GLS	DATE: 12/18/08	
								CHECKED BY:	DATE:	
								APPRVD BY: J.L.	DATE: 04-26-12	

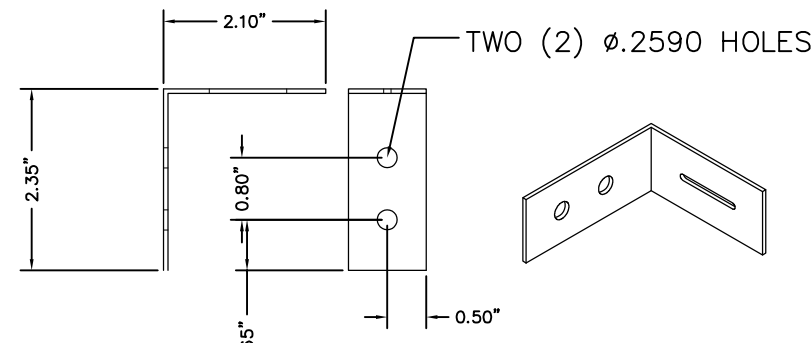


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STORMBREAKER PLUS 300VL SERIES EXTRUDED IMPACT RESISTANT VINYL MULLIONS WITH LARGE ALUMINUM REINFORCEMENT (HVHZ)



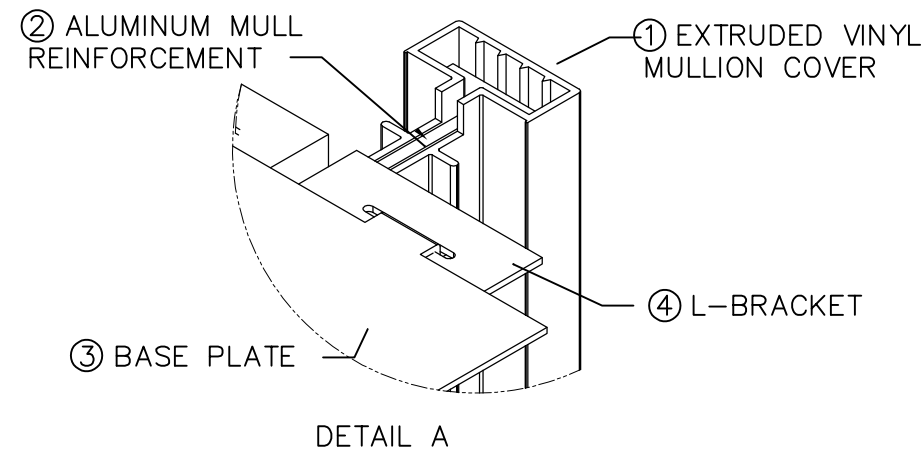
③ REINFORCEMENT BASE PLATE DETAIL
.060" MIN. STAINLESS STEEL



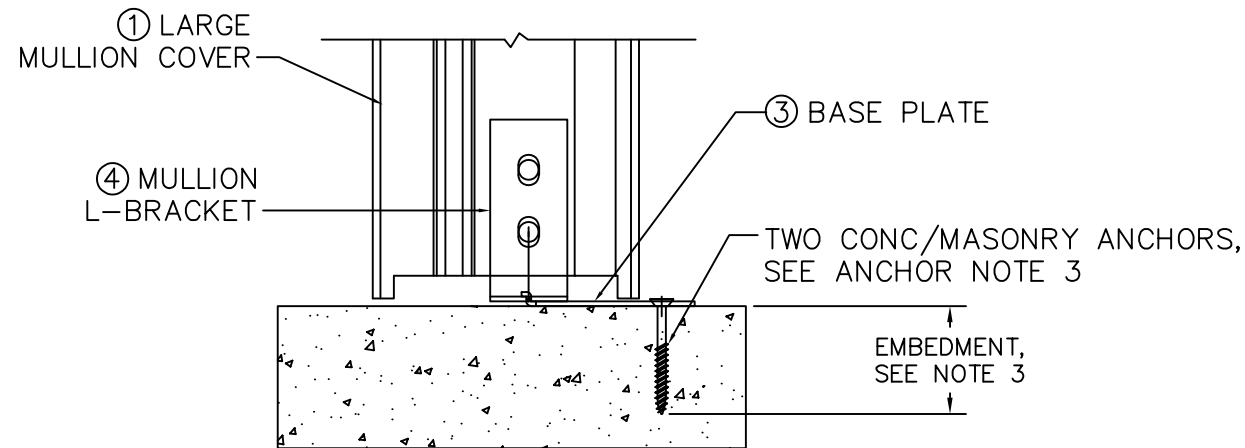
④ MULLION L-BRACKET
.076" MIN. STAINLESS STEEL

ANCHOR NOTES:

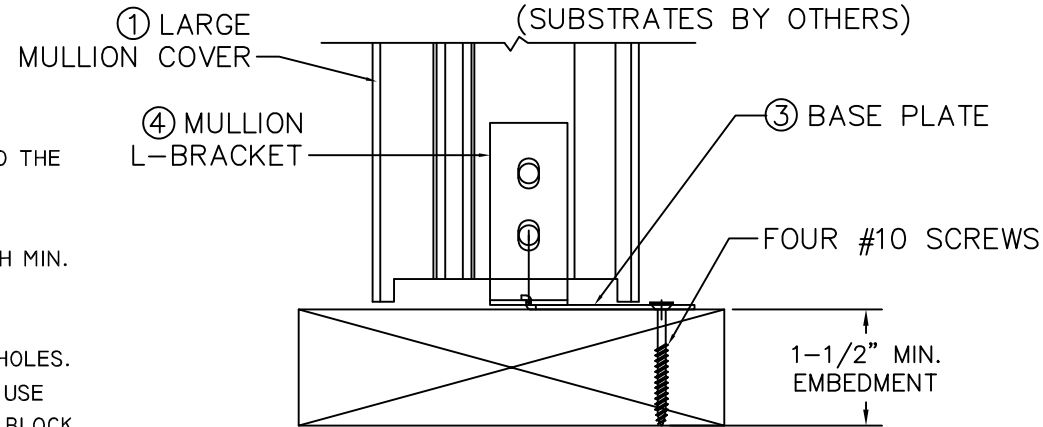
- 1) TO ACHIEVE THE REQUIRED DESIGN PRESSURES, ADHERE TO THE FASTENER REQUIREMENTS BELOW.
- 2) INSTALLATION TO WOOD (G=0.42 MIN):
FOUR (4) #10 WOOD SCREWS FOR EACH BASE PLATE WITH MIN. 1-1/2" EMBEDMENT AND MIN. 7/8" WOOD EDGE DISTANCE.
- 3) INSTALLATION TO CONCRETE/MASONRY:
TWO (2) SCREWS FOR EACH BASE PLATE IN OUTERMOST HOLES. IN GROUT-FILLED CMU BLOCK (ASTM C-90 COMPLIANT) USE 1/4" DEWALT ULTRACONS+ WITH 1-3/8" MIN. EMBED. TO BLOCK AND 1" MIN. EDGE DIST. WITH MIN. 1-1/4" EMBEDMENT. IN SOLID CONCRETE (2.85 KSI MIN.) USE 3/16" ITW TAPCONS OR 1/4" DEWALT ULTRACONS+ WITH 1-3/4" MIN. EMBED TO CONCRETE, AND 1-1/8" MIN. EDGE DIST.
- 4) IF PRODUCT IS INSTALLED WITHIN 3000 FEET OF A SALTWATER COASTLINE, THE ANCHORAGE MUST BE REVIEWED FOR COMPLIANCE WITH FBC SECT. 17II, SEE EVALUATION REPORT FOR THIS APPROVAL FOR DETAILS.



DETAIL A



VERTICAL SECTION @ SILL
MASONRY APPLICATION
(SUBSTRATES BY OTHERS)



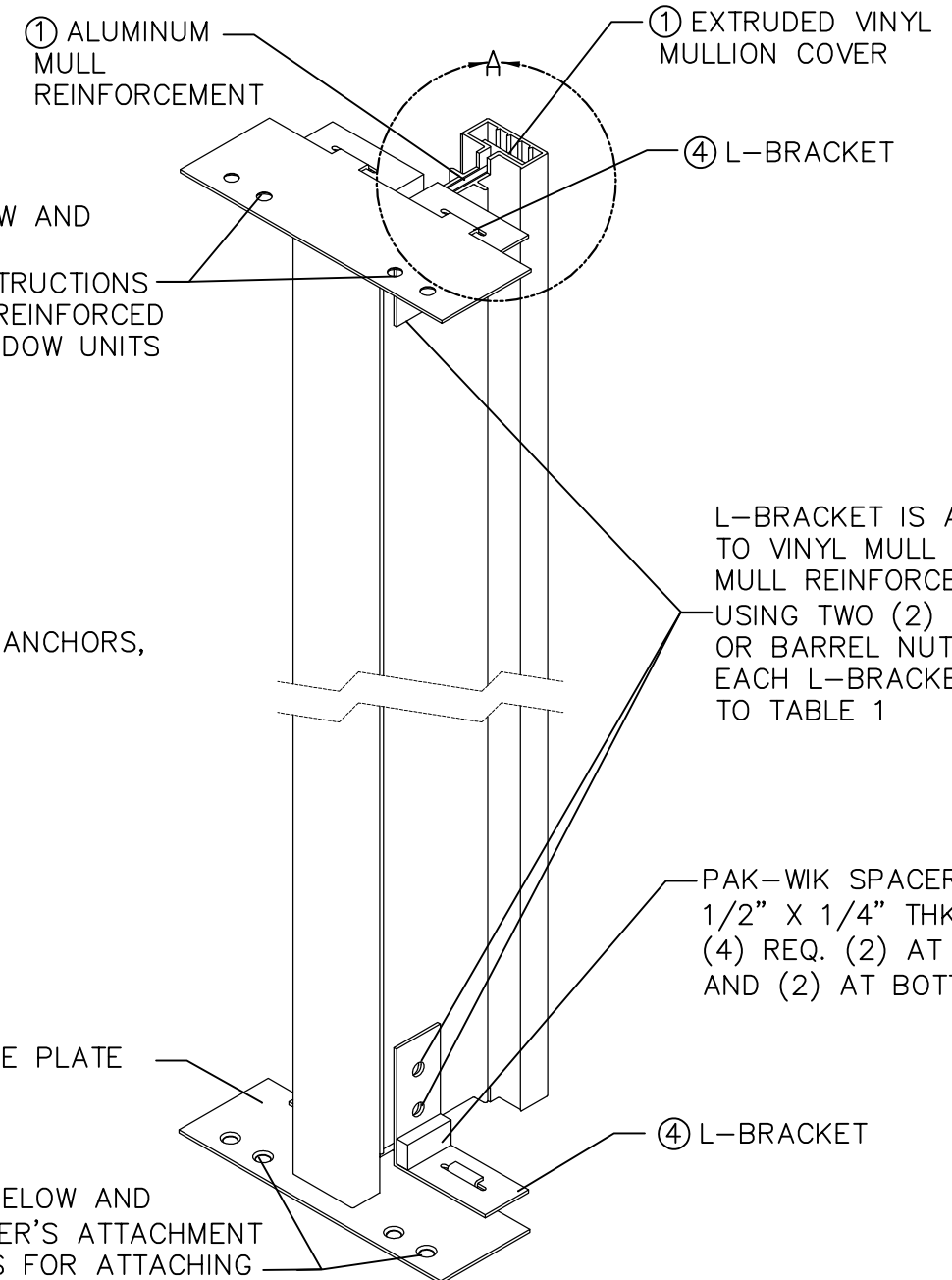
VERTICAL SECTION @ SILL
WOOD APPLICATION
(SUBSTRATES BY OTHERS)

TABLE 1 (MULLION ATTACHING HARDWARE)

RIVET	5/16" DIA. STEEL RIVET WITH A GRIP LENGTH OF .50 MAX.
BARREL NUT	#10-24 OR #10-32 STAINLESS STEEL BARREL NUT, 5/16" O.D. X .25" LG WITH .125 MIN ENGAGEMENT

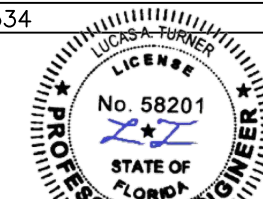
SEE NOTES BELOW AND
MANUFACTURER'S
ATTACHMENT INSTRUCTIONS
FOR ATTACHING REINFORCED
MULLIONS TO WINDOW UNITS

SEE NOTES BELOW AND
MANUFACTURER'S ATTACHMENT
INSTRUCTIONS FOR ATTACHING
REINFORCED MULLIONS TO
WINDOW UNITS



ASSEMBLED MULL AND ATTACHMENT VIEW

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