

PLY GEM WINDOWS 1570 SERIES HORIZONTAL MULLION

(NON-IMPACT)

- NOTES:
- I. THIS APPROVAL APPLIES TO PLY GEM 6063-T5 ALUMINUM SERIES I570 MULLIONS AND GALVANIZED STEEL GUSSET PLATE AS SHOWN IN THESE DRAWINGS, MAY BE USED IN ASSEMBLIES OF I570 SERIES CASEMENT, AWNING AND FIXED WINDOWS.

2. WHEN USED IN AREAS REQUIRING IMPACT PROTECTION, THIS PRODUCT REQUIRES THE USE OF APPROVED IMPACT PROTECTIVE DEVICES (SHUTTERS).

3. THIS PRODUCT HAS BEEN ANALYZED IN ACCORDANCE WITH AAMA 450, AND PRODUCT MEETS THE REQUIREMENTS FOR THE FLORIDA BUILDING CODE, 7TH EDITION (2020), FOR USE OUTSIDE THE HIGH VELOCITY HURRICANE ZONE.

4. ALLOWABLE CONFIGURATIONS ARE AS SHOWN IN THESE DRAWINGS. MULLIONS ARE TO BE USED HORIZONTALLY ONLY.

5. DESIGN PRESSURES SHOWN IN THE CHARTS IN THESE DRAWINGS APPLY TO THE MULLION ONLY. GLAZED I570 PRODUCTS SHALL BE SEPARATELY APPROVED, SEE SEPARATE APPROVALS FOR APPLICABLE DESIGN PRESSURES FOR GLAZED PRODUCTS.

6. THE LEAST DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL GLAZED PRODUCTS SHALL BE THE APPLICABLE DESIGN PRESSURE OF THE ENTIRE MULLED ASSEMBLY.

7. THE 4/3 ALLOWABLE STRESS INCREASE FACTOR (SORT-TERM INCREASE FACTOR) HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM. THE 1.6 Cd FACTOR WAS USED IN THE ANALYSIS OF ANCHORAGE INTO THE WOOD SUBSTRATE.

8. INSTALLATION OF 2X WOOD BUCKS TO THE SUBSTRATE TO BE ENGINEERED BY OTHERS OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION (A.H.J.). BUCKING, OPENINGS, AND BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED BY OTHERS IN ACCORDANCE WITH THE FBC TO TRANSFER SUPERIMPOSED LOADS TO THE STRUCTURE. ADEQUACY OF THE STRUCTURE TO RECEIVE THESE LOADS SHALL BE VERIFIED BY THE CONTRACTOR OR A.H.J.

9. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE COATED OR OTHERWISE PROTECTED TO PREVENT GALVANIC REACTIONS. WOOD BUCKS, IF USED, SHALL BE PRESSURE TREATED WITH EITHER A TREATMENT OR COATING COMPATIBLE WITH ALUMINUM. ALL ANCHORS USED SHALL BE OF A MATERIAL OR HAVE A COATING COMPATIBLE WITH THE PRESSURE TREATED WOOD BUCKS AND ALL OTHER WINDOW MATERIALS.

10. ALL HARDWARE & FASTNERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, OR AS APPROVED, SIGNED, AND SEALED BY A FLORIDA-REGISTERED PROFESSIONAL ENGINEER ON A SITE-SPECIFIC BASIS.

II. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT SHALL BE THE RESPONSIBILITY OF OTHERS AND IS NOT ADDRESSED BY THIS DOCUMENT.

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7	MULLION PLATE COMPONENT DETAILS AND ASSEMBLY
8	HORIZONTAL MULLION DESIGN PRESSURE CHART & NOTES

TABLE 1: MULL CLIP INSTALLATION FASTENERS TABLE

ID	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED	MIN. EDGE DISTANCE
A	2X MIN. SOUTHERN PINE WOOD (G=0.55)	#8 WOOD SCREW	1-1/2"	7/8"
B	16 GAUGE (0.060") STEEL 36 KSI MIN. OR 1/8" ALUM. 6063-T5 MIN.	#10-16 SELF-DRILLING SCREW (TEKS/DRIL-FLEX/KWIK-FLEX)	FULL, PLUS 3 THREADS MIN.	1/2"

*NOTE: ALL SCREWS SHALL HAVE MOD. TRUSS, PAN, OR HEX WASHER HEAD

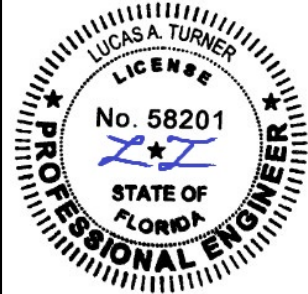
Ply Gem

RESIDENTIAL SOLUTIONS

A division of Cornerstone Building Brands

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PO BOX 559,
ROCKY MOUNT, VA 24151
PH: 540-484-6348
FX: 540-484-6683

TITLE: I570 SERIES HORIZONTAL MULLION NOTES & TABLE I	DATE				
	BY				
	REVISION DESCRIPTION				
	NO.				
DATE: 04.06.21	DWN BY: LMH	CHK BY:		SCALE: NTS	

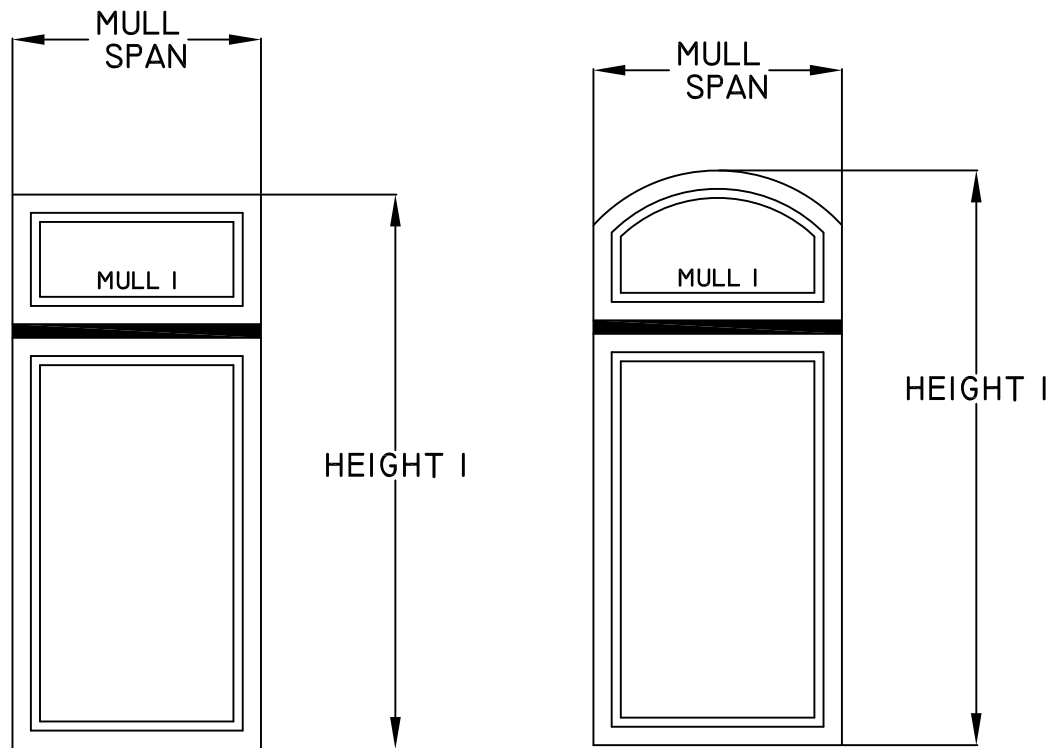


06/11/2021
LUCAS A. TURNER, P.E.
FL PE # 58201
TURNER ENGINEERING &
CONSULTING, INC.
(COA # 29779)
2428 OLD NATCHEZ TRACE
TRAIL, CAMDEN, TN 38320
PH. 941-380-1574

FL#:

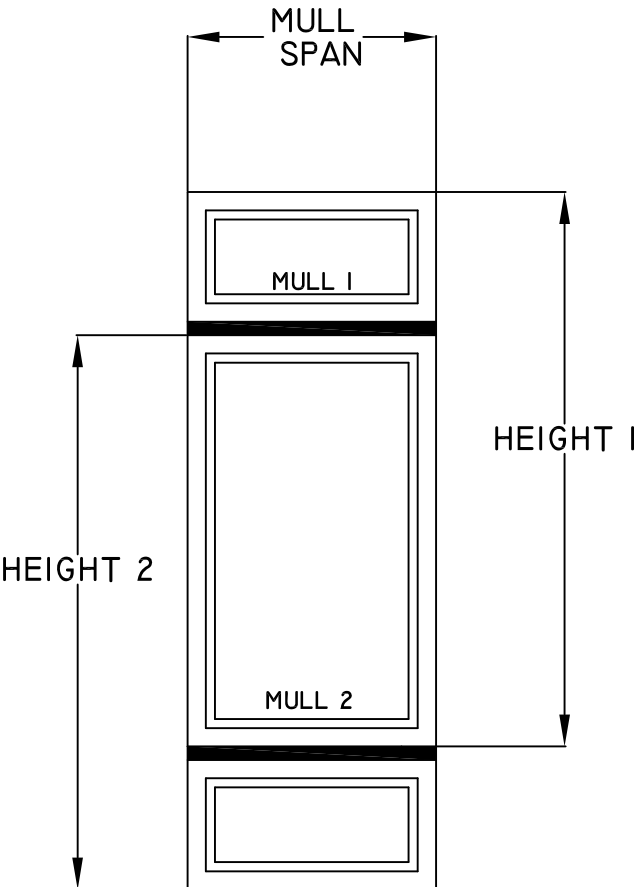
DWG #:
PGW328

SHEET: | OF 8



1-WIDE 2-HIGH ELEVATION

MULL I: MULL SPAN = WIDTH I
 LOAD WIDTH = HEIGHT I



1-WIDE 3-HIGH ELEVATION

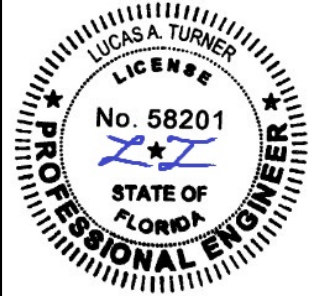
MULL I: MULL SPAN = WIDTH I
 LOAD WIDTH = HEIGHT I

MULL 2: MULL SPAN = WIDTH I
 LOAD WIDTH = HEIGHT 2

NOTES:

1. MULL STACK CAN BE A COMBINATION OF AWNING, CASEMENT OR PICTURE/FIXED SPECIALITY WINDOWS.
2. FOR WINDOW UNITS SEE SEPARATE PRODUCT APPROVALS.

TITLE: I570 SERIES HORIZONTAL MULLION MULL ELEVATIONS	DATE				
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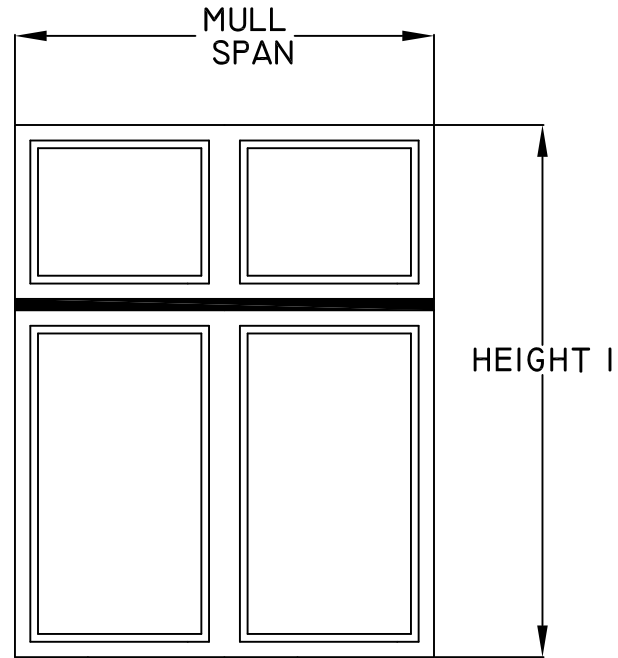
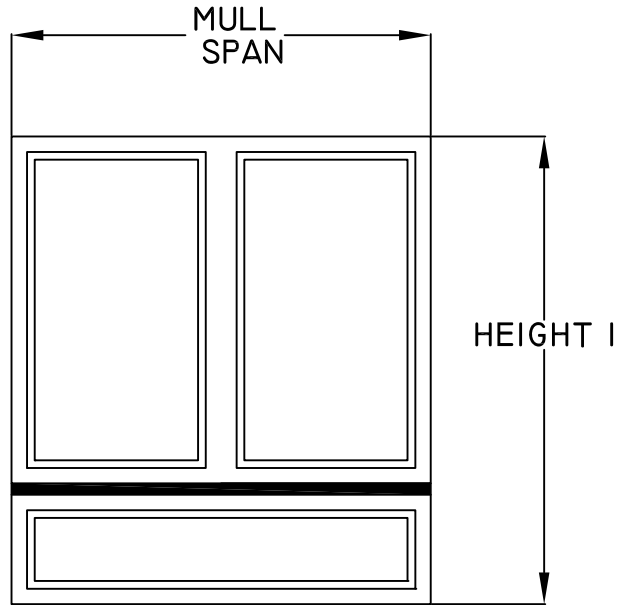
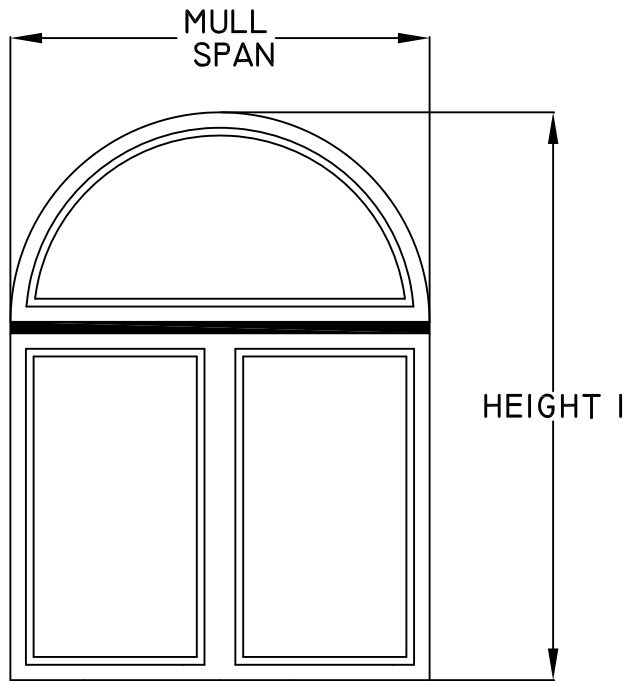


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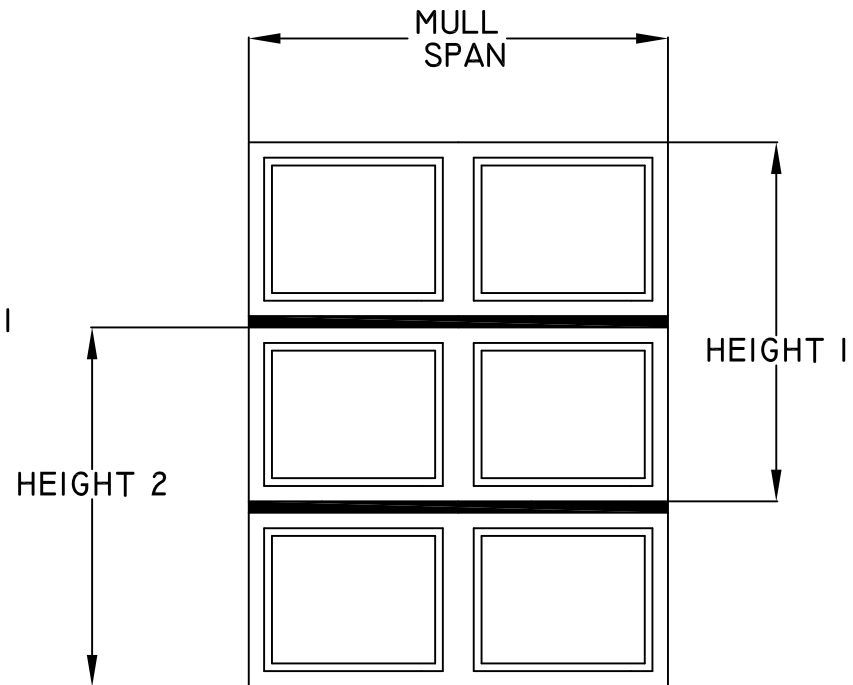
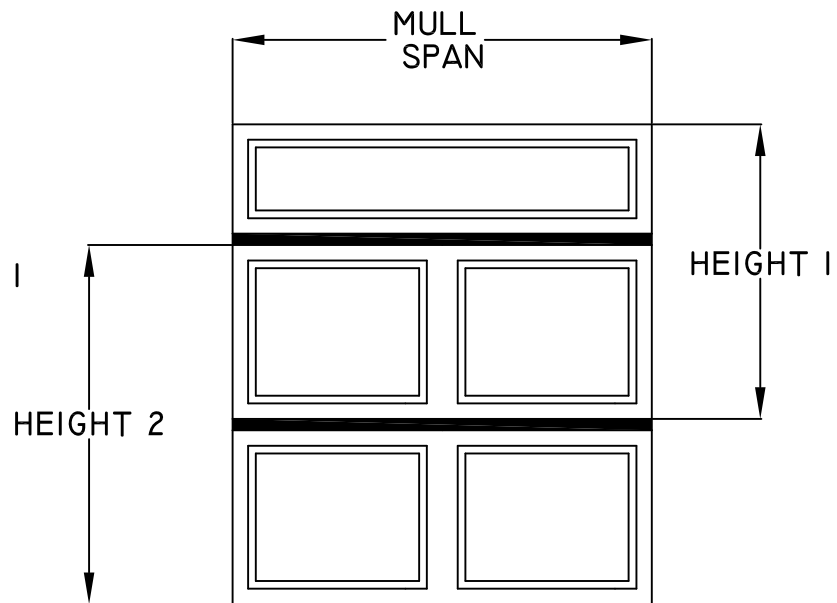
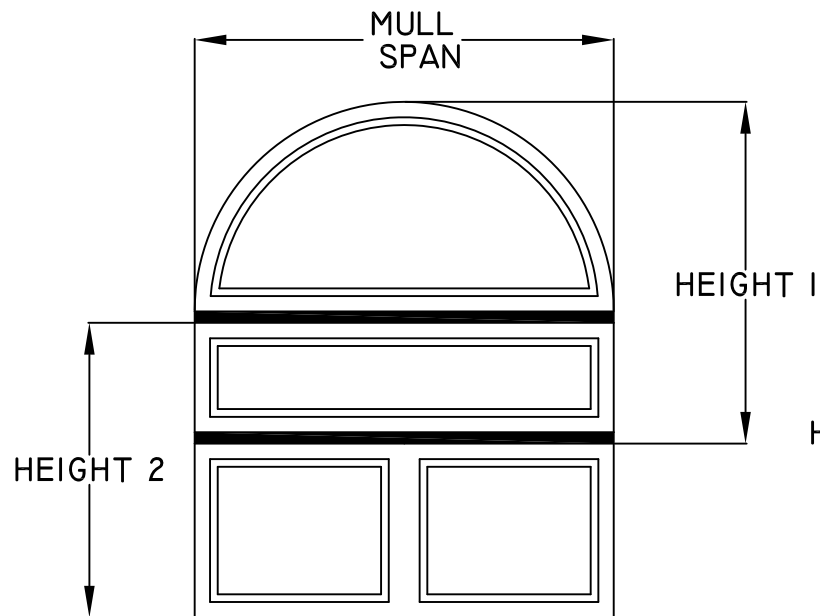
DWG #:
PGW328

SHEET: **2 OF 8**



2-WIDE 2-HIGH ELEVATION

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LOAD WIDTH = HEIGHT 1

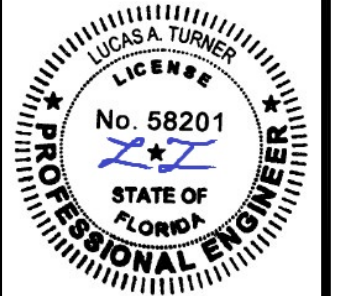


2-WIDE 3-HIGH ELEVATION

MULL 1: MULL SPAN = WIDTH 1
LOAD WIDTH = HEIGHT 1

MULL 2: MULL SPAN = WIDTH 1
LOAD WIDTH = HEIGHT 2

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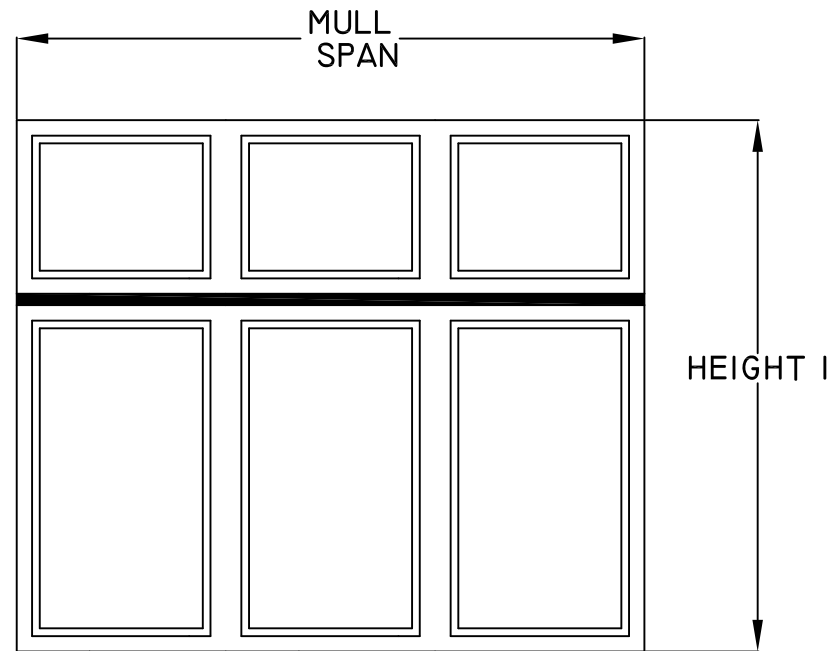
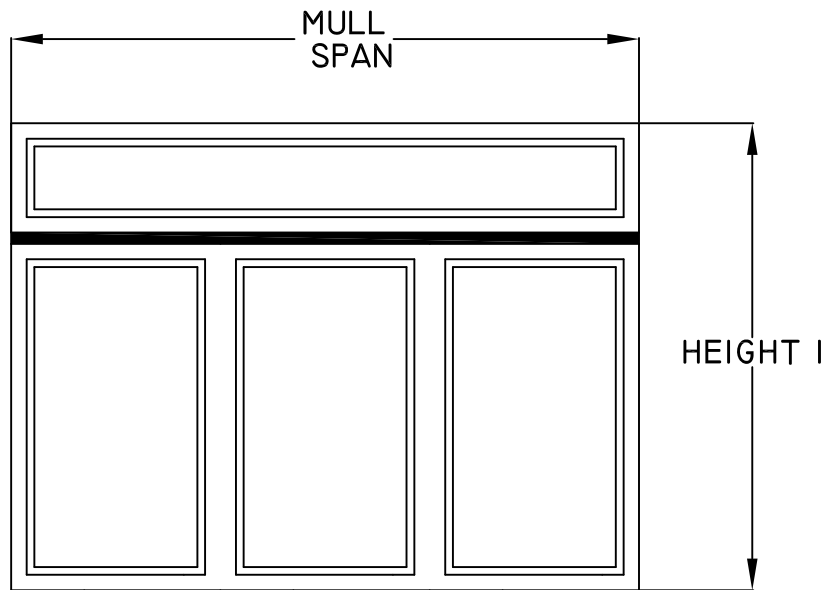


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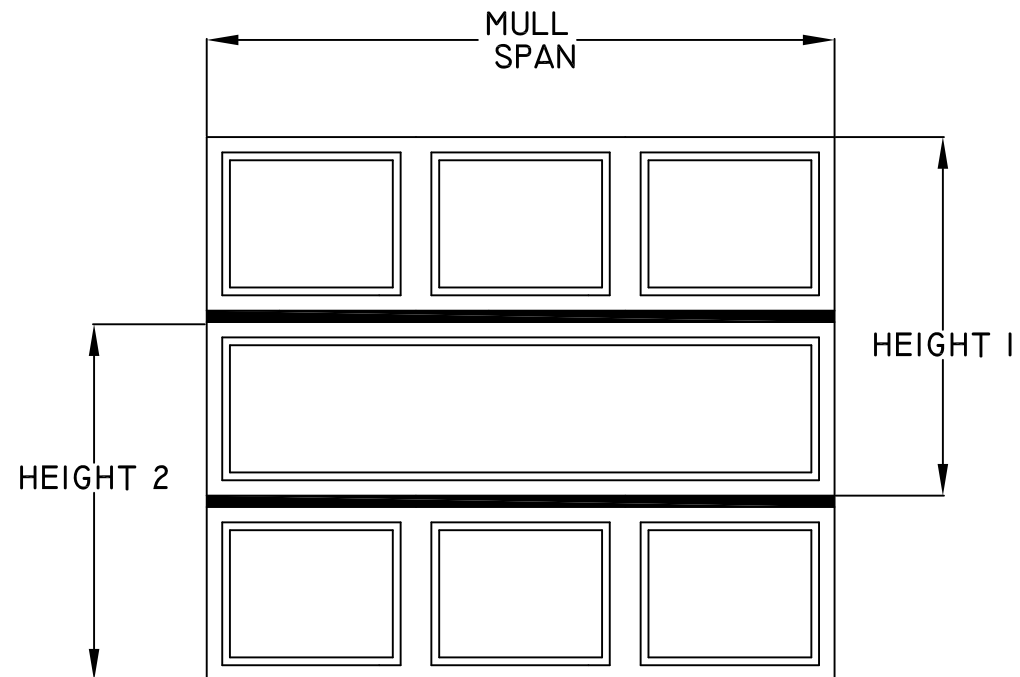
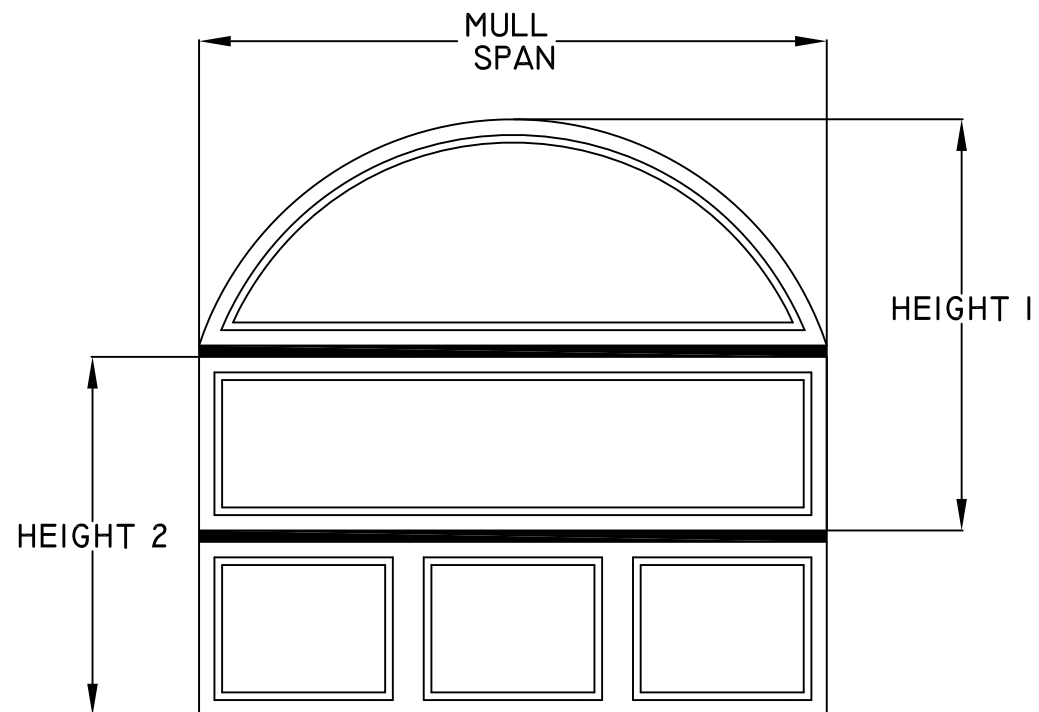
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SHEET: **3 OF 8**



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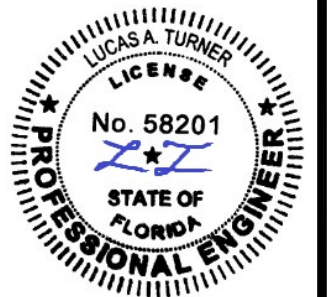


3-WIDE 3-HIGH ELEVATION

MULL 1: MULL SPAN = WIDTH 1
LOAD WIDTH = HEIGHT 1

MULL 2: MULL SPAN = WIDTH 1
LOAD WIDTH = HEIGHT 2

TITLE: 1570 SERIES HORIZONTAL MULLION MULL ELEVATIONS	DATE				
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SHEET: **4 OF 8**

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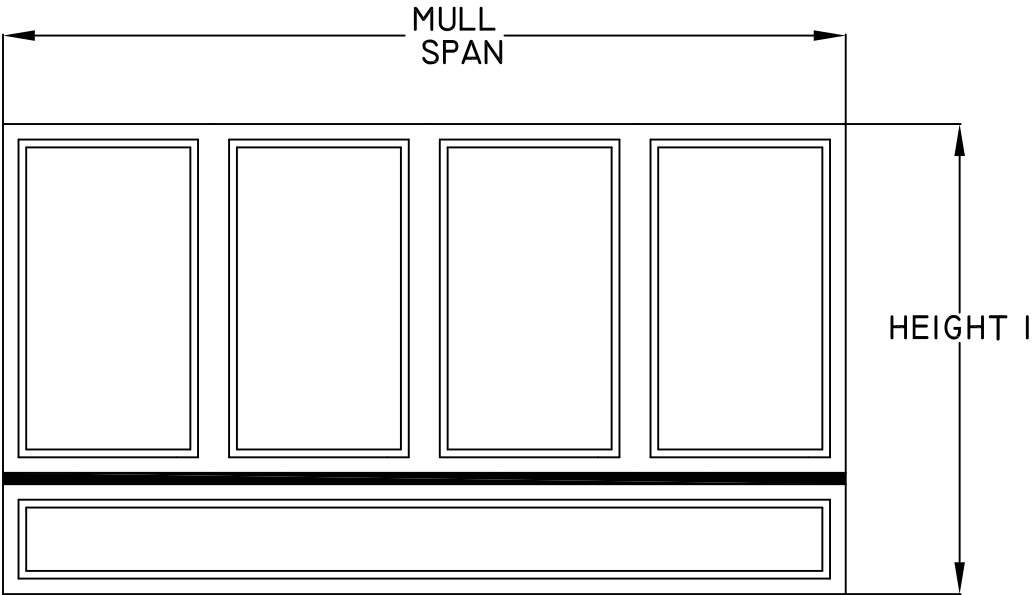


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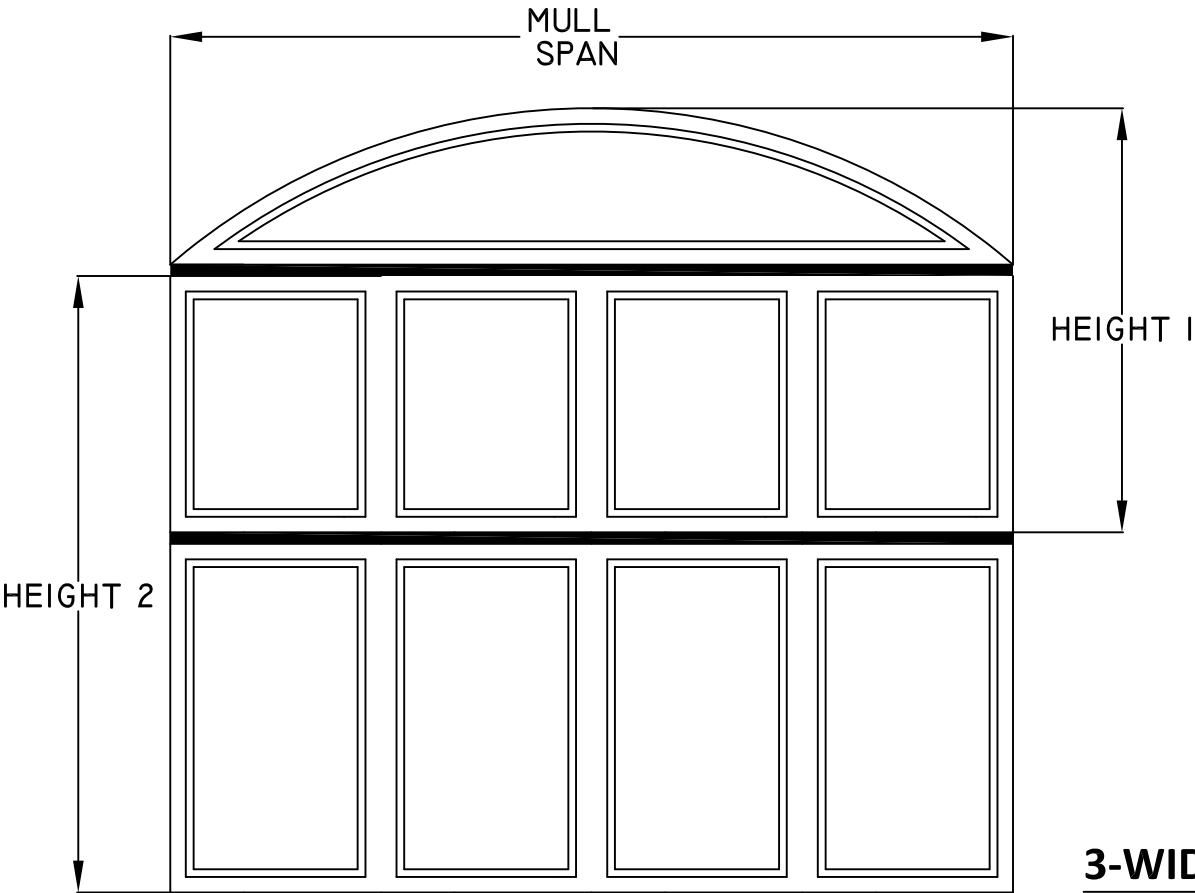
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PGW328

SHEET: 5 OF 8



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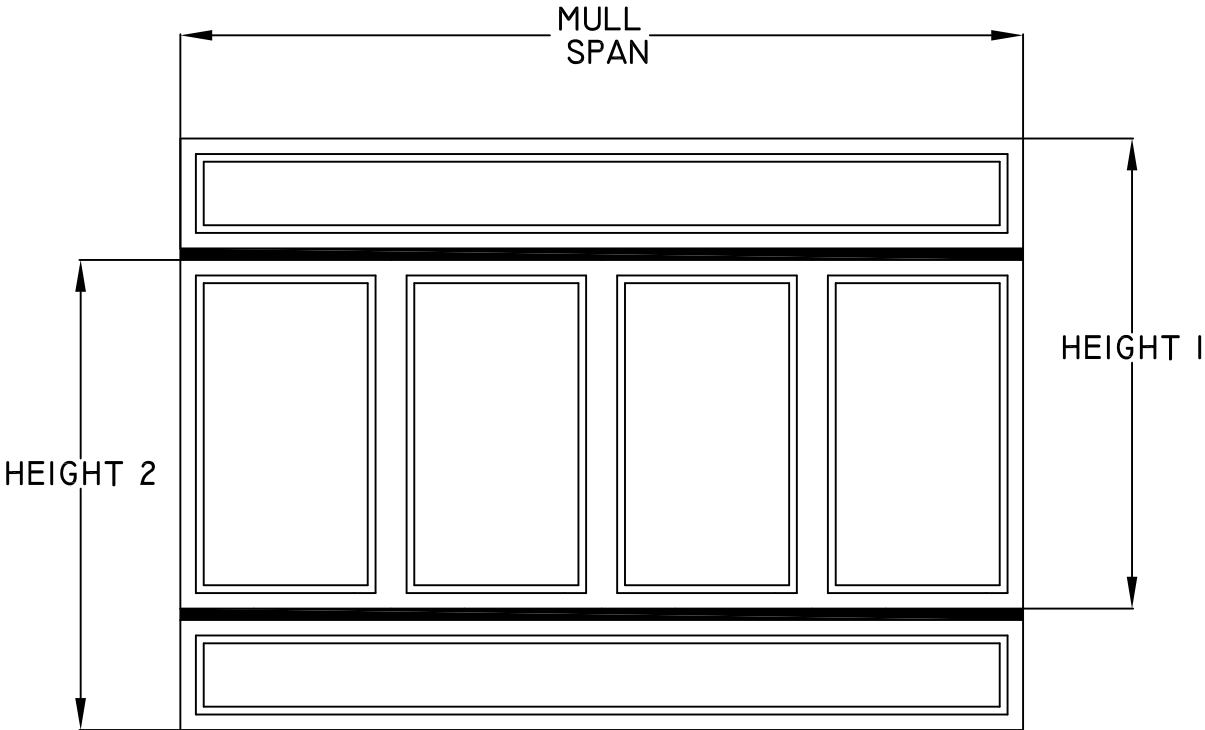
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3-WIDE 3-HIGH ELEVATION

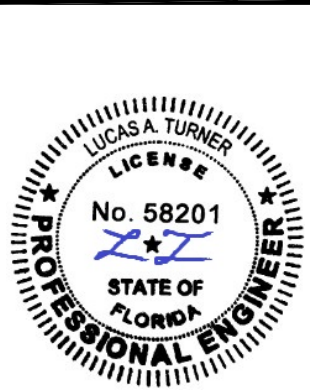
MULL 1: MULL SPAN = WIDTH 1
LOAD WIDTH = HEIGHT 1

MULL 2: MULL SPAN = WIDTH 1
LOAD WIDTH = HEIGHT 2



TITLE: I570 SERIES HORIZONTAL MULLION MULLION COMPONENT DETAILS AND ASSEMBLY	DATE				
	BY				
	REVISION DESCRIPTION				
	NO.				

DATE: 04.06.21	DWN BY: LMH	CHK BY:	SCALE: NTS
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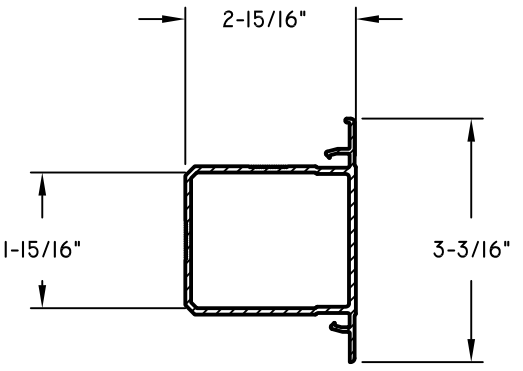


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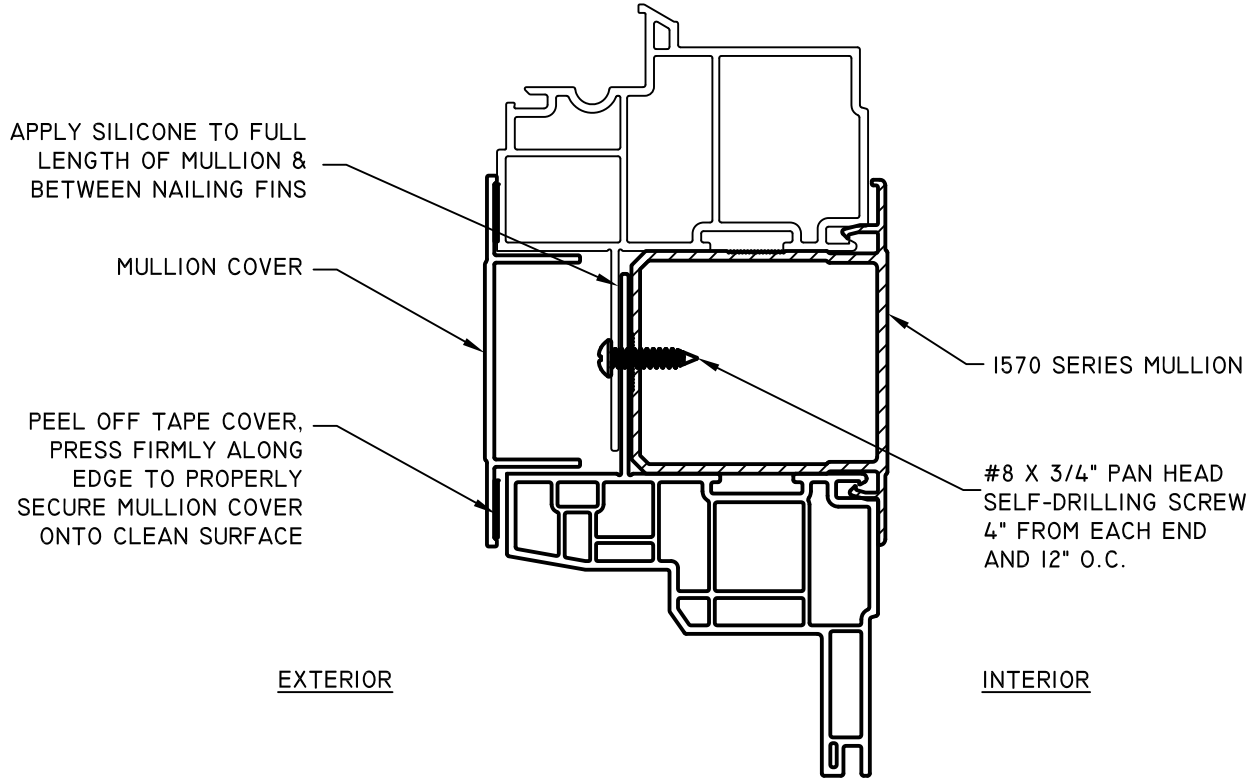
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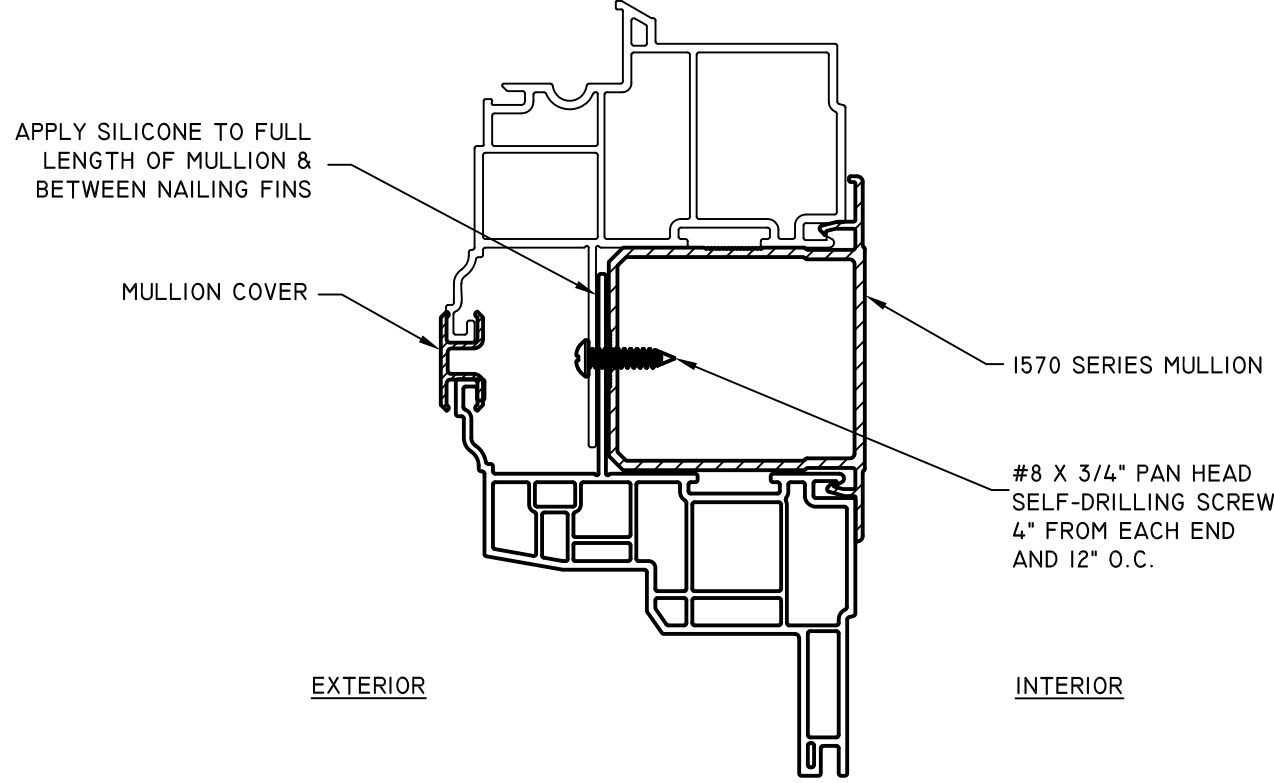
SHEET: **6 OF 8**



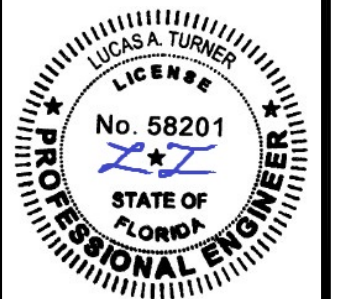
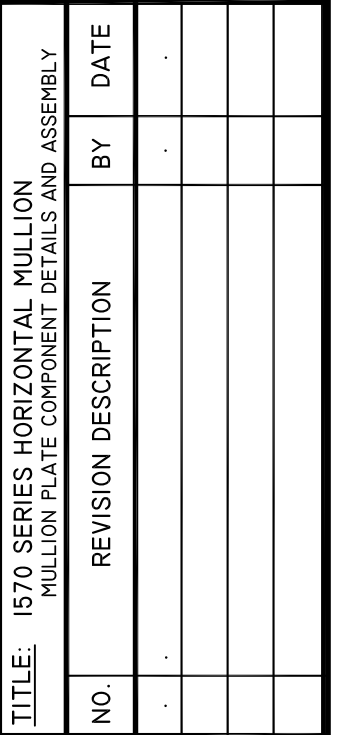
I570 SERIES
SL# 50-CA20-A78
HORIZONTAL MULLION



NAIL FIN WITHOUT J-CHANNEL
TYPICAL INTERACTION WITH WINDOWS, MAY
BE USED WITH I570 SERIES CASEMENTS,
AWNINGS OR FIXED WINDOWS.



NAIL FIN WITH J-CHANNEL
TYPICAL INTERACTION WITH WINDOWS, MAY
BE USED WITH I570 SERIES CASEMENTS,
AWNINGS OR FIXED WINDOWS.



SHEET: 7 OF 8

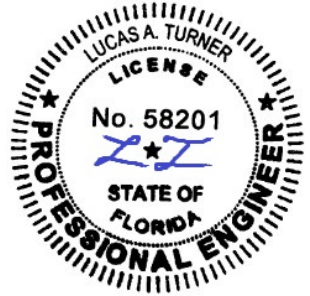
Series 1570 Horizontal Mullion Design Pressures (psf)

		Load Width (in.) - See Sheets 2 through 5											
		42	48	54	60	66	72	78	84	90	96	102	106
Mull Span (in) - See Sheets 2 through 5	28 3/8	80	80	80	80	80	80	80	80	80	80	80	80
	48	80	80	80	80	75	71	69	67	66	65	65	65
	61	64	57	51	47	43	41	38	37	35	34	33	33
	71 5/8	46	41	36	33	31	28	27	25	25	25	25	25
	84 5/8	33	29	26	25	25	25	25	25	25	25	25	25
	96 7/8	25	25	25	25	25	25	25	25	25	25	25	25
	108	25	25	25	25	25	25	25	25	25	25	25	25

INSTALLATION ANCHOR NOTES:

1. INSTALL MULLION WITH ONE MULLION PLATE PER EACH END OF MULLION.
2. LOCATE ANCHORS IN THE MULLION PLATE THROUGH PRE-DRILLED HOLES AS NEEDED TO MEET QUANTITY, EDGE DISTANCES, AND CENTER-TO-CENTER DISTANCES AS NOTED BELOW.
3. ANCHOR EMBEDMENTS INDICATED BELOW SHALL BE BEYOND WALL DRESSING OR STUCCO. EDGE DISTANCES SHALL BE MEASURED TO SUBSTRATE BASE MATERIAL NOT INCLUDING WALL DRESSING OR STUCCO AND SHALL APPLY TO BOTH INNER AND OUTER EDGES OF THE SUBSTRATE.
4. FOR ATTACHMENT TO WOOD SUBSTRATES (SPRUCE-PINE-FIR WITH G=0.42 MIN.) USE QTY 2 PER EACH MULLION PLATE OF #8 PAN HEAD SCREWS WITH 1-1/2" MIN. PENETRATION INTO WOOD AND 7/8" MIN. EDGE DISTANCE.
5. FOR ATTACHMENT TO 16 GA. (.060") MIN. 33 KSI YIELD MIN. STEEL STUDS OR 1/8" MIN. 6063-T5 MIN. ALUMINUM, USE QTY 2 PER EACH MULLION PLATE OF #10 ITW TEKS SCREWS WITH FULL THREAD PENETRATION THROUGH THE METAL WALL WITH 3/16" MIN. THREADS BEYOND, 1/2" MIN. EDGE DISTANCE AND MAINTAIN 3/4" MIN. CENTER-TO-CENTER DISTANCE BETWEEN ALL TEKS.

TITLE: 1570 SERIES HORIZONTAL MULLION HORIZONTAL MULLION DESIGN PRESSURE CHART & NOTES	DATE				
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SHEET:	8 OF 8