

PLY GEM WINDOWS

PRO SERIES CLASSIC VERTICAL MULLION NON-IMPACT

GENERAL NOTES:

1.

THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE, EXCLUDING HVHZ.
2.

MULLION INSTALLATION DETAILS APPLY TO DUAL 253273 HP MULL STEEL REINFORCEMENTS WITH EXTRUDED VINYL MULL STRIP WHEN USED TO MULL WINDOWS SIDE BY SIDE.
3.

APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
4.

USE 3/16" ITW TAPCON ANCHOR OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1-1/4" INTO MASONRY OR CONCRETE. 3/16" ITW TAPCON MUST HAVE A 2-1/2" MINIMUM EDGE DISTANCE FROM EDGE OF MASONRY OR CONCRETE. (SEE CHARTS & NOTES ON SHEET 5 FOR DESIGN PRESSURE AND ANCHOR NOTES).
5.

USE #8 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1-1/2" INTO WOOD FRAMING. (SEE CHARTS & NOTES ON SHEET 5 FOR DESIGN PRESSURE AND ANCHOR NOTES).
6.

USE #8 TEK SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION BEYOND STEEL STRUCTURE. (SEE CHARTS & NOTES ON SHEET 5 FOR DESIGN PRESSURE AND ANCHOR NOTES).
7.

MASONRY, 1X2 & 2X4 WOOD BUCKS TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE AND IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
8.

THIS MULLION IS ONLY VALID WHEN USED IN CONJUNCTION WITH APPLICABLE PLY GEM PRODUCTS.
9.

ALL WINDOWS USED WITH THIS MULLION SHALL BE QUALIFIED UNDER SEPARATE APPROVAL.
10.

INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A.

WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.

B.

CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

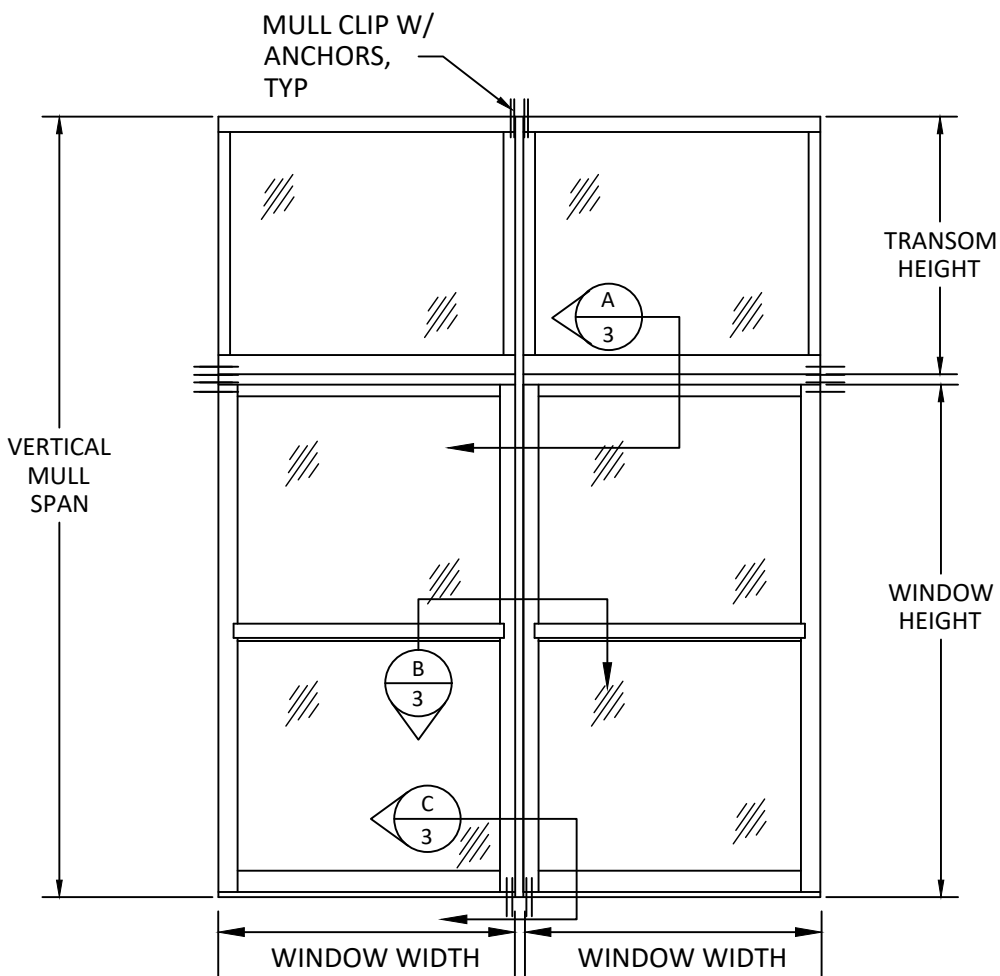
C.

MASONRY - STRENGTH CONFORMANCE TO ASTM C-90.

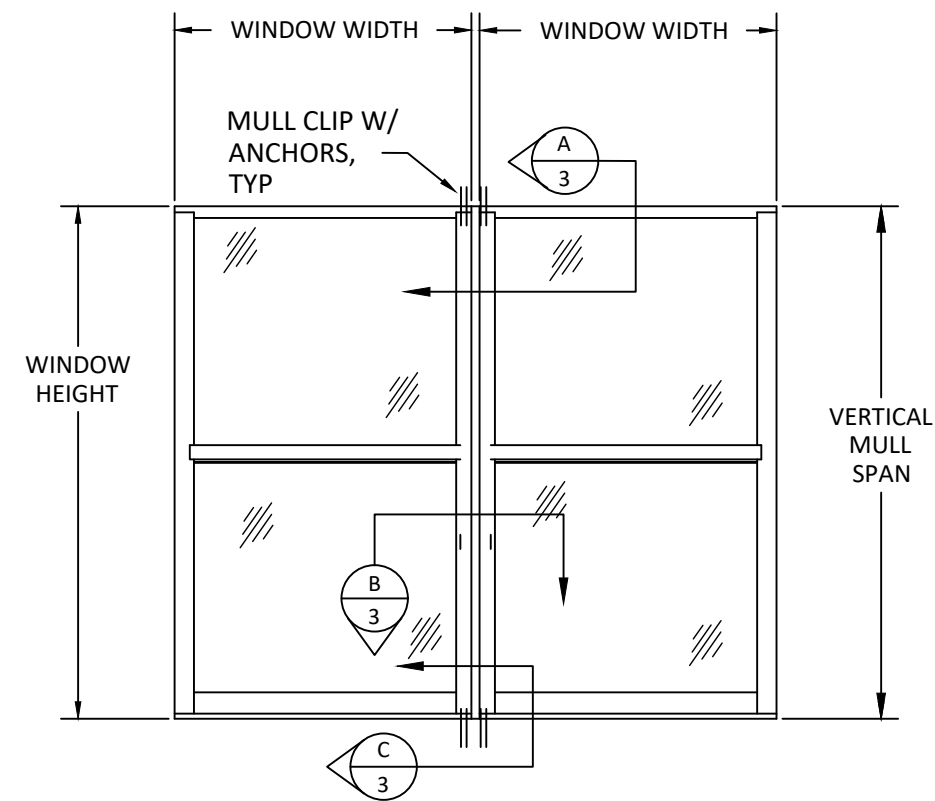
D.

STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.

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**VERTICAL MULLION
FOR TWIN WINDOW WITH TRANSOM
SEE CHARTS ON SHEET 5 FOR DESIGN
PRESSURES AND ANCHOR SCHEDULE**



**VERTICAL MULLION FOR TWIN WINDOWS
SEE CHARTS ON SHEET 5 FOR DESIGN PRESSURES
AND ANCHOR SCHEDULE**

TITLE:
PRO CLASSIC SERIES
VERTICAL MULLION
NON-IMPACT

ELEVATION &
ANCHOR LAYOUT

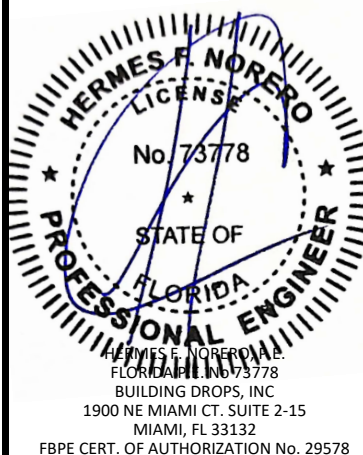
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REMARKS	BY	DATE
5TH EDITION FBC UPDATE	SM	08.20.14
UPDATED NOTE 8, SHEET 5	LMH	09.26.17
CURRENT FBC	LMH	07.22.26

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FL #:	15262		
DATE:	02.13.12		
DWG. BY:	GRN	CHK. BY:	HFN
SCALE:	NTS		
DWG. #:	PGW091		
SHEET:			

PRO CLASSIC SERIES
VERTICAL MULLION
NON-IMPACT
VERTICAL SECTIONS

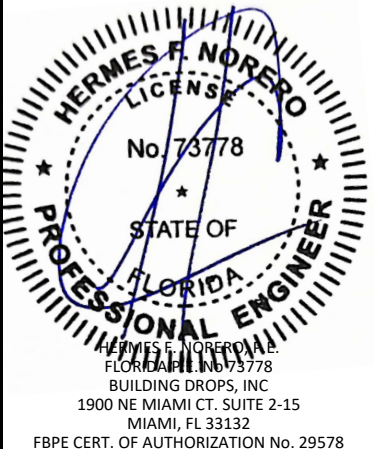
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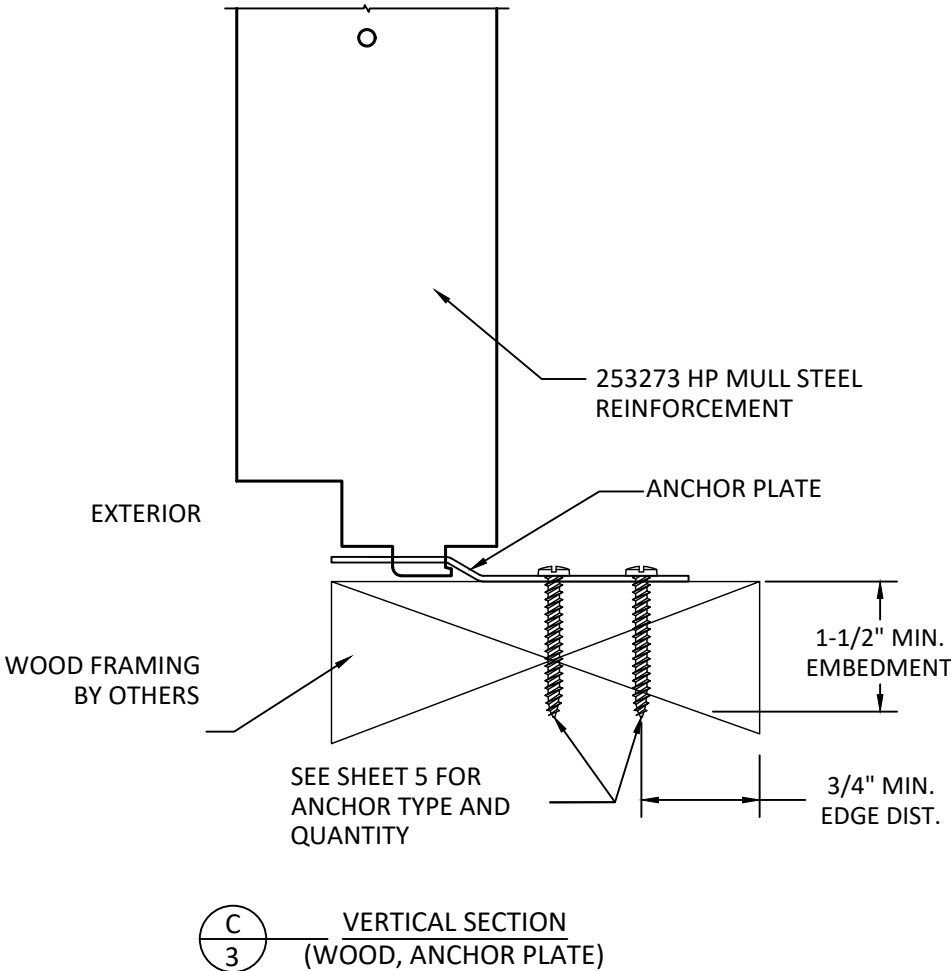
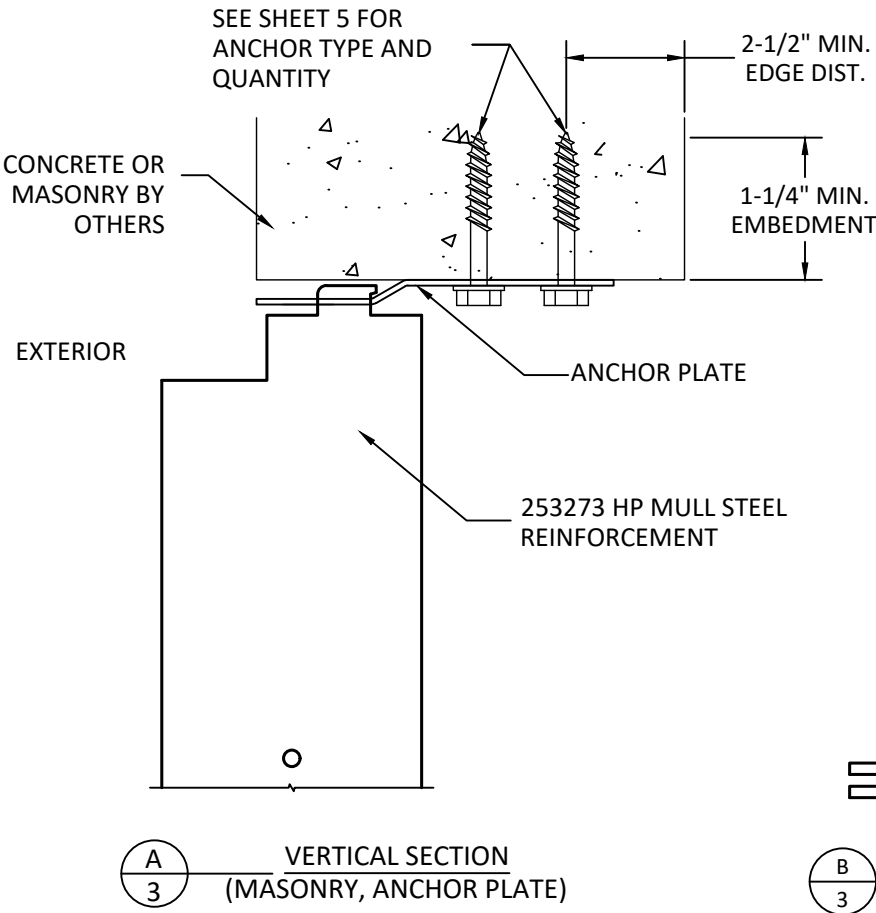


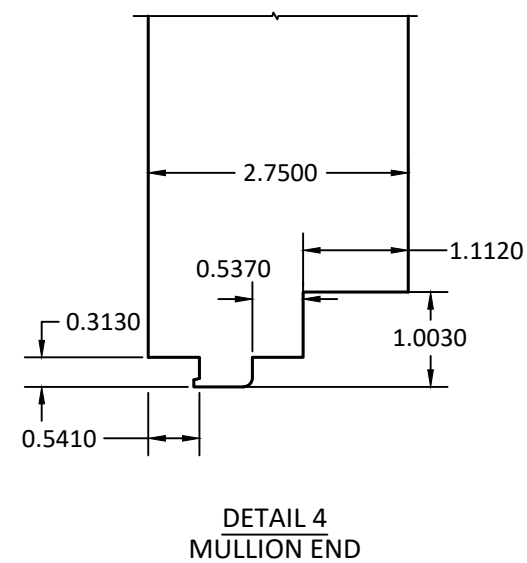
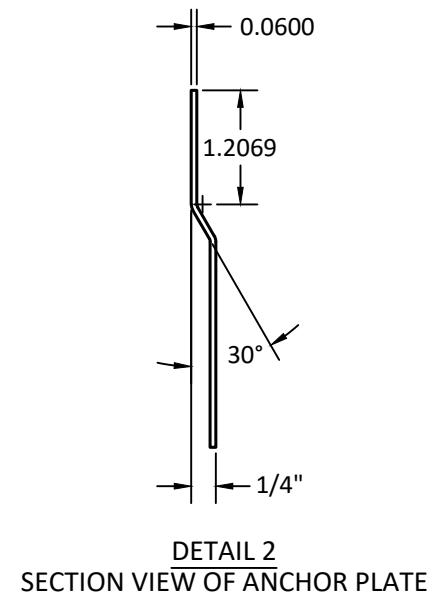
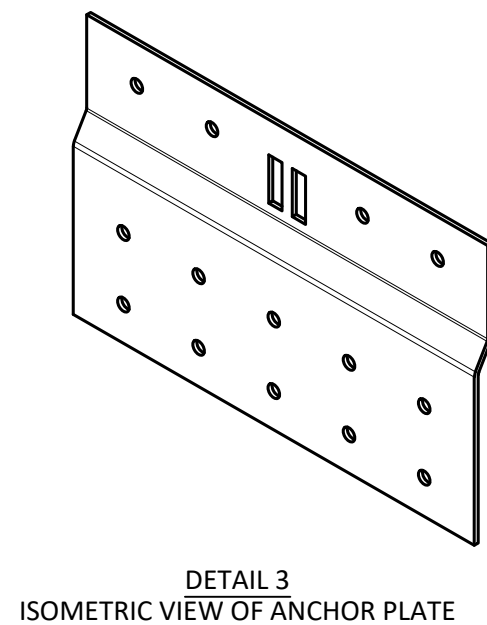
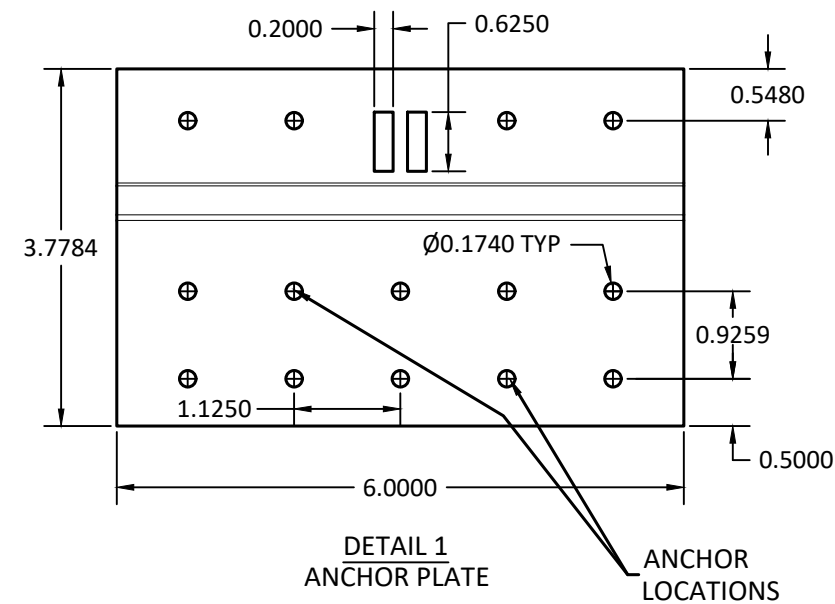
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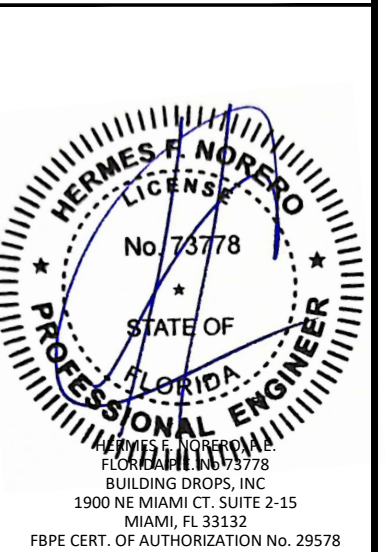




TITLE: PRO CLASSIC SERIES VERTICAL MULLION NON-IMPACT DETAILS	PREPARED BY: BUILDING DROPS, INC. 1900 NE MIAMI CT. SUITE 2-15 MIAMI, FL 33132 PH: (954) 399-9478 FAX: (954) 744-4738 WEB: www.buildingdrops.com	
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DESIGN PRESSURE CHARTS

Maximum design pressure capacity chart (psf)
Pro Classic Vertical Mullion (Twin) (hook and anchor plate)
Design pressures are limited either by mullion or anchor screws or anchor clip capacity

Height (in)	Unit Width (in)					
	18.0	24.0	30.0	36.0	42.0	48.0
17.0	75.0	75.0	75.0	75.0	75.0	75.0
24.0	75.0	75.0	75.0	75.0	75.0	75.0
30.0	75.0	75.0	75.0	75.0	75.0	75.0
36.0	75.0	75.0	75.0	75.0	75.0	75.0
42.0	75.0	75.0	75.0	75.0	75.0	75.0
48.0	75.0	75.0	75.0	75.0	75.0	74.9
54.0	75.0	75.0	70.4	61.8	56.5	53.6
60.0	75.0	67.6	55.8	48.4	43.7	40.6
66.0	72.3	55.3	45.4	39.1	34.9	32.1
72.0	60.5	46.1	37.7	32.3	28.6	26.1
78.0	51.4	39.1	31.8	27.2	23.9	21.7
82.0	46.4	35.2	28.7	24.4	21.4	19.3

NOTES FOR TWIN WINDOW AND DUAL 253273 HP MULL
STEEL REINFORCEMENTS WITH ANCHOR PLATE

- 1) THE DESIGN PRESSURES IN THIS CHART ARE FOR THE MULLIONS LISTED ABOVE WHEN USED WITH THE CLIP LISTED ABOVE.
- 2) FOR VERTICAL MULL CLIPS IN WOOD FRAMING INSTALLATION USE (3) THREE #8 WOOD SCREWS AT EACH ANCHOR CLIP. MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A 1-1/2" MINIMUM EMBEDMENT INTO FRAMING. SEE SHEET 3 FOR DETAILS.
- 3) FOR VERTICAL MULL CLIPS IN MASONRY INSTALLATION USE (3) THREE 3/16" ITW TAPCONS AT EACH ANCHOR CLIP WITH SUFFICIENT LENGTH TO ACHIEVE A 1-1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. SEE SHEET 3 FOR DETAILS.
- 4) FOR VERTICAL MULL CLIPS IN STEEL INSTALLATION USE (3) THREE #8 TEK SCREWS, GRADE 5 AT EACH ANCHOR CLIP WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION BEYOND STEEL STRUCTURE.
- 5) CHART APPLIES ONLY TO DUAL 253273 HP STEEL REINFORCEMENT MULLIONS AS SPECIFIED ABOVE WHEN USED TO MULL WINDOWS SIDE BY SIDE.
- 6) READ WINDOW WIDTH AND MULL SPAN IN INCHES. DESIGN PRESSURE VALUES ON THIS CHART ARE POSITIVE AND NEGATIVE PSF.
- 7) DESIGN PRESSURE VALUES APPLY TO MULLION WHERE TWO OR MORE WINDOWS ARE LISTED IN A SINGLE OPENING.
- 8) INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
 - 8.1. FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH FLORIDA BUILDING CODE SECTION 1711.1.1 (e.g., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).
 - 8.2. CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH FLORIDA BUILDING CODE SECTION 1711.1.2 (e.g., ASTM E A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).

Maximum design pressure capacity chart
Vertical mullion, twin with twin transom (hook and anchor plate)
Design pressures are limited either by mullion, anchor clip or anchor screws capacity.

Height (in)	Unit width (in)	Unit width (in)					
		18.0	24.0	30.0	36.0	42.0	48.0
Window	Transom						
17.0	8.5	75.0	75.0	75.0	75.0	75.0	75.0
24.0	12.0	75.0	75.0	75.0	75.0	75.0	75.0
30.0	15.0	75.0	75.0	75.0	72.7	63.6	56.6
36.0	18.0	75.0	75.0	67.0	49.0	43.1	38.4
42.0	21.0	75.0	60.5	48.9	41.1	30.9	27.6
48.0	24.0	60.9	46.1	37.2	31.2	27.0	20.7
54.0	27.0	48.0	36.3	29.3	24.6	21.2	18.7
60.0	30.0	38.8	29.3	23.6	19.8	17.1	15.0
66.0	33.0	32.0	24.1	19.4	16.3	14.1	12.4
72.0	36.0	26.8	20.2	16.3	13.7	11.8	10.4
78.0	39.0	22.8	17.2	13.8	11.6	10.0	8.8
82.0	41.0	20.6	15.6	12.5	10.5	9.0	7.9

NOTES FOR TWIN WINDOW W/ TWIN TRANSOM AND DUAL
253273 HP MULL STEEL REINFORCEMENTS WITH ANCHOR PLATE

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CHARTS & NOTES

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