

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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433 N. MAIN ST., PO BOX 559,
ROCKY MOUNT, VA 24151

PH: 540-484-6348 FX: 540-484-6683

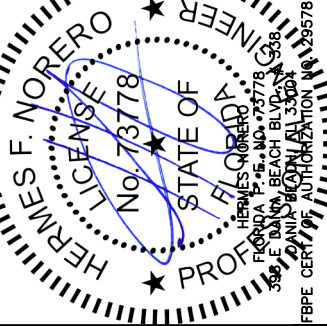
TITLE: PRO SERIES CLASSIC VERTICAL MULLION (NI)

INSTALLATION & GENERAL NOTES

PREPARED BY:

BUTLDING DROPS, INC.
398 E DANIA BEACH BLVD., # 338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS		BY	DATE
NO.	DESCRIPTION		
A	FBC 5TH EDITION UPDATE	SM	08.20.14
B	UPDATED NOTE 8, SHEET 5	LWH	09.26.17



DATE: 02.13.12

DWN BY: GRN

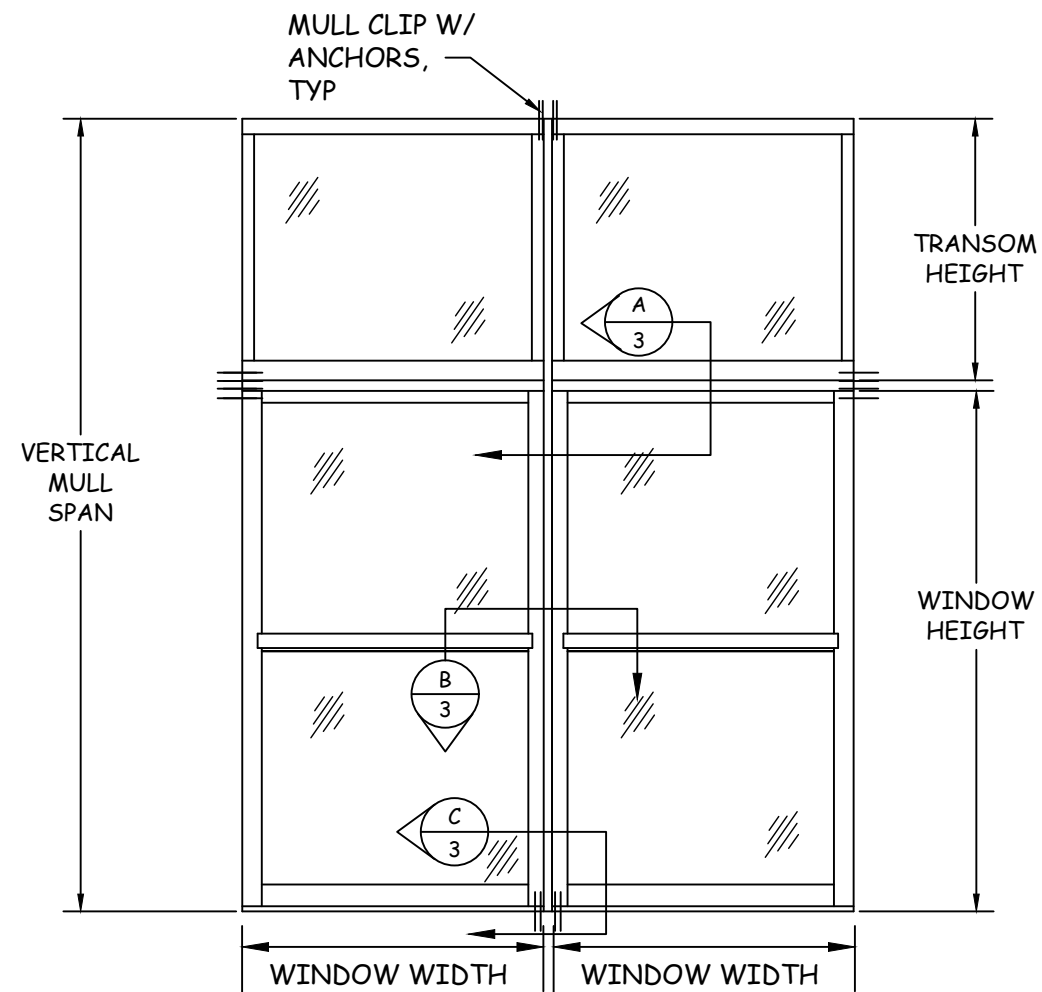
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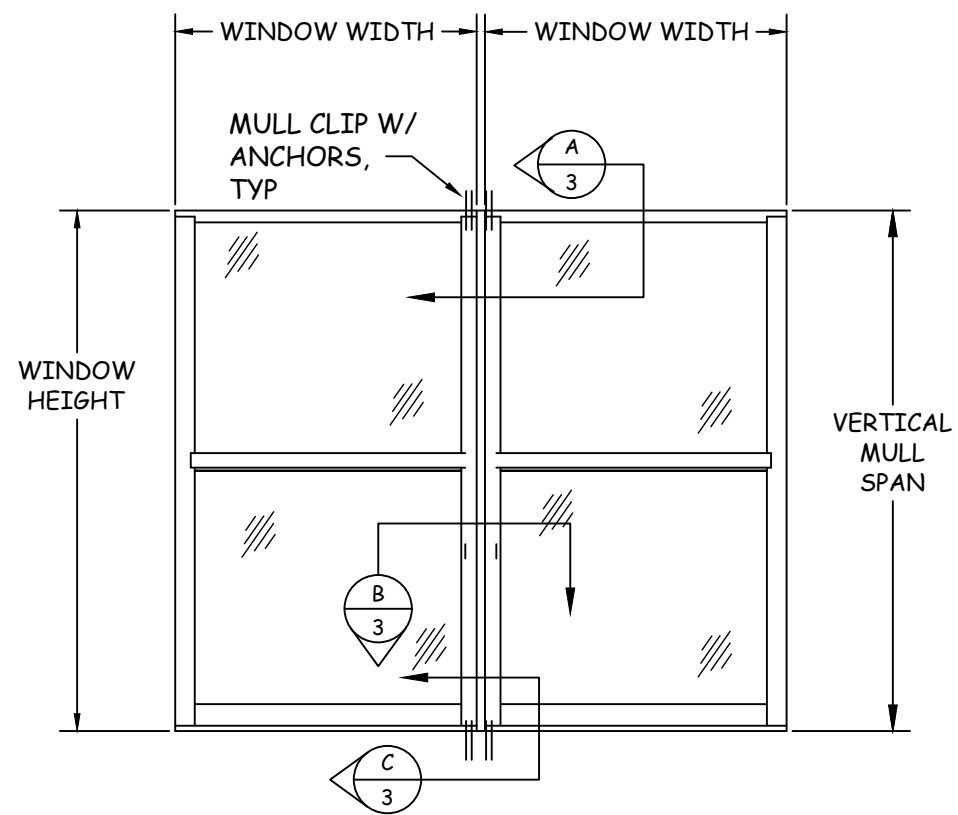
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SHEET: **1 OF 5**

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2017.09.28 12:36:19 -04'00'



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



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TITLE: PRO SERIES CLASSIC
VERTICAL MULLION (NI)
ELEVATION &
ANCHOR LAYOUT

PREPARED BY:
— BUILDING DROPS, INC.
398 E DANIA BEACH BLVD., # 338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

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		B	UPDATED NOTE 8, SHEET 5	LWH	09.26.17
		C			



DATE: 02.13.12	DWN BY: GRN	CHK BY: HFN	SCALE: NTS
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PGW091

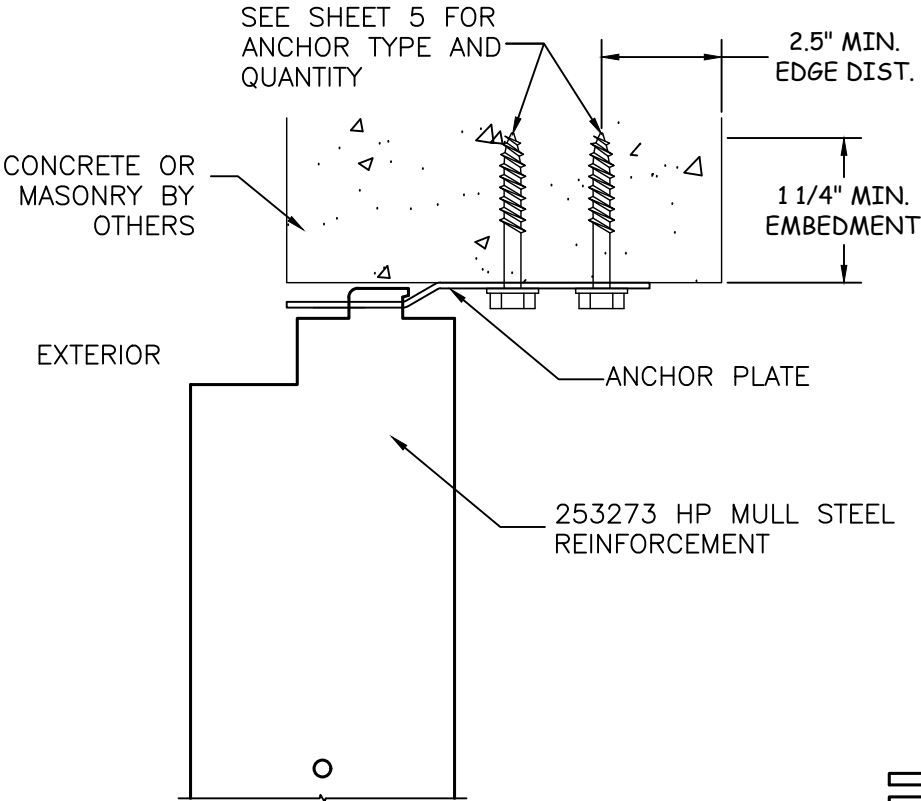
SHEET: **2 OF 5**



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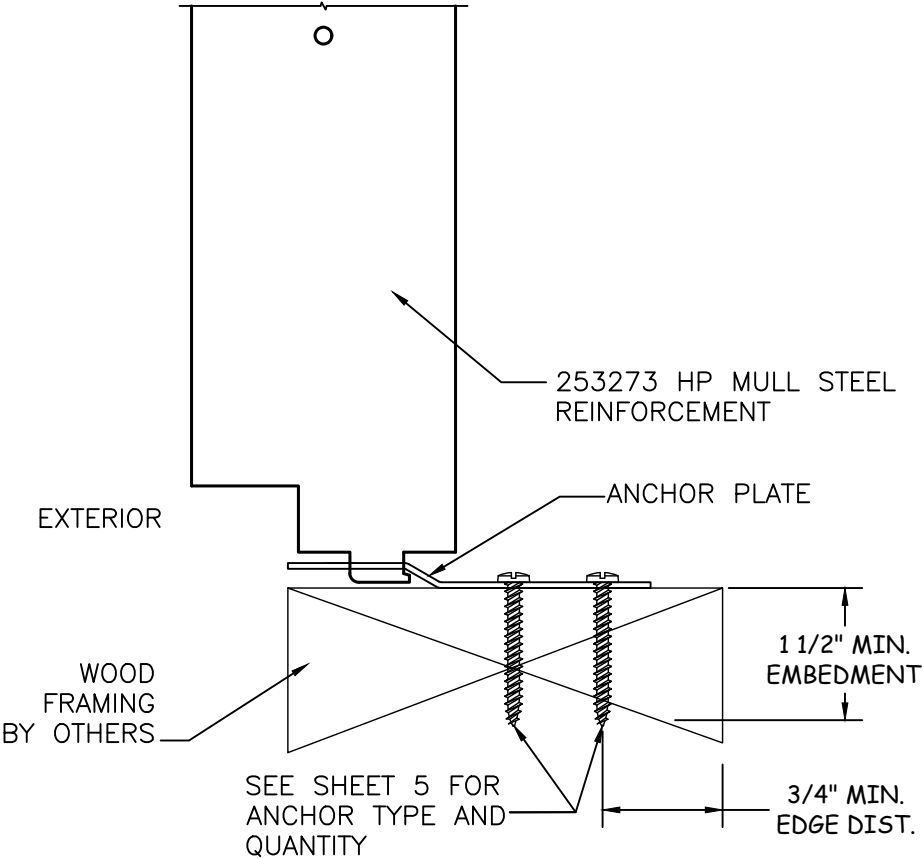
TITLE: PRO SERIES CLASSIC VERTICAL MULLION (NI)	VERTICAL SECTIONS	
	PREPARED BY: — BUILDING DROPS, INC. 398 E DANIA BEACH BLVD. # 338 DANIA BEACH, FL 33004 PH: (954) 399-8478 FX: (954) 744-4738	



A
3 VERTICAL SECTION
(MASONRY, ANCHOR PLATE)



B
3 VERTICAL SECTION



C
3 VERTICAL SECTION
(WOOD, ANCHOR PLATE)

REVISIONS

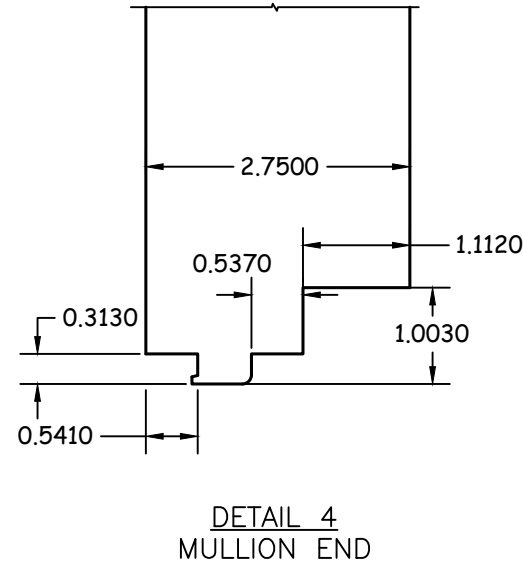
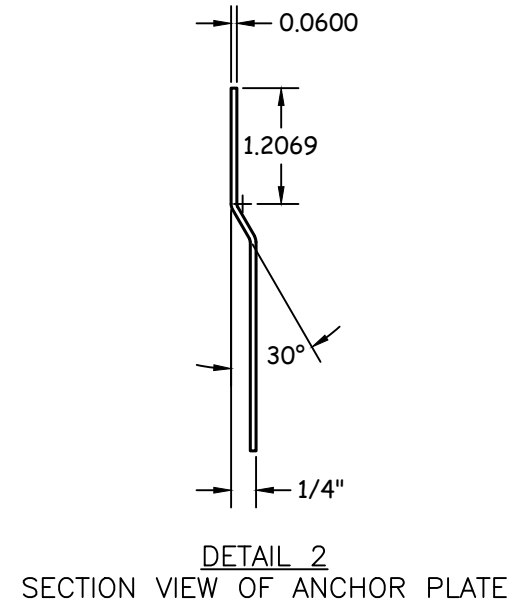
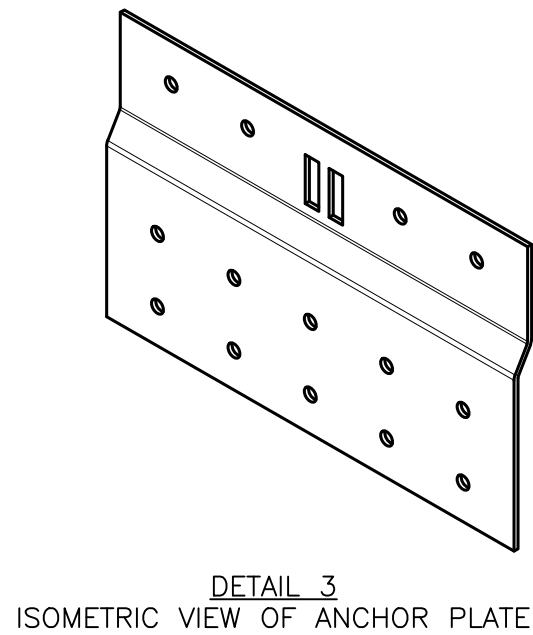
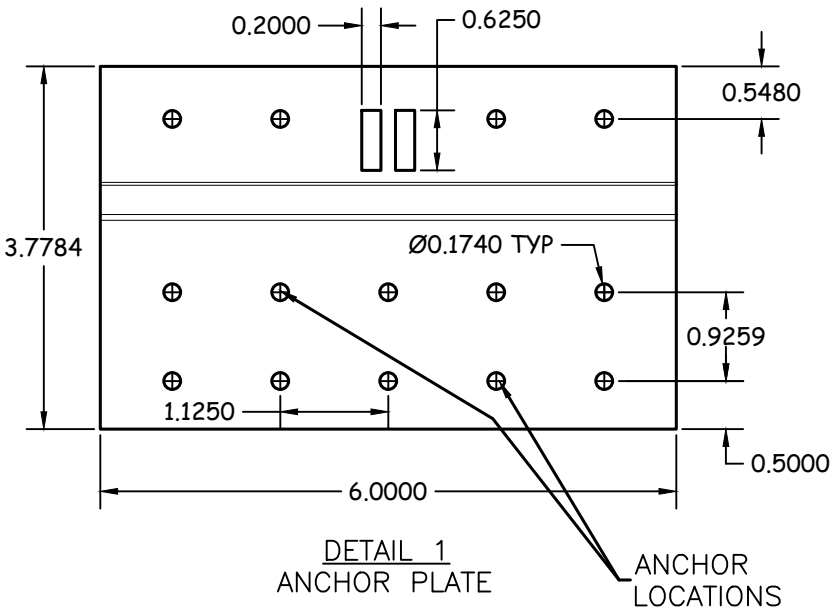
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SHEET: **3 OF 5**

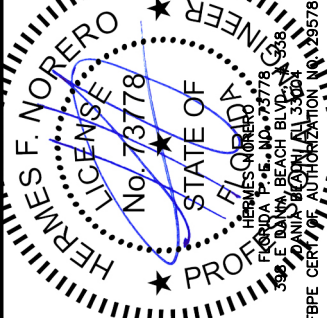


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TITLE: PRO SERIES CLASSIC
VERTICAL MULLION (NI)
DETAILS
PREPARED BY:
BUILDING DROPS, INC.
398 E DANIA BEACH BLVD., # 338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

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SHEET: **4 OF 5**

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) REFER TO REPORT #5105 FOR MORE MULLION SPECIFICATIONS.

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)					
Window	Transom	18.0	24.0	30.0	36.0	42.0	48.0
		75.0	75.0	75.0	75.0	75.0	75.0
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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SHEET: 5 OF 5