

PLY GEM WINDOWS

SERIES 1500 BRICKMOULD FRAME

MULLION

NOTES:

1.

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

MULLION INSTALLATION DETAILS APPLY TO PLY GEM SERIES 1500 BRICKMOULD FRAME MULLION WHEN USED TO MULL WINDOWS WITH A ONE-WAY OR TWO-WAY MULLION USING THE INSTALLATION METHODS SHOWN HEREIN.
3.

APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS ZONE 3 OR LESS. INDIVIDUAL UNITS MUST BE IMPACT RATED.
4.

APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGION ZONE 4.
5.

USE #8 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1-1/2" INTO WOOD FRAMING. (SEE CHARTS & NOTES ON SHEETS 4 & 5 FOR DESIGN PRESSURE AND ANCHOR NOTES).
6.

USE 3/16" ITW TAPCON SCREWS OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1-1/4" INTO CONCRETE/MASONRY SUBSTRATE. (SEE CHARTS & NOTES ON SHEETS 4 & 5 FOR DESIGN PRESSURE AND ANCHOR NOTES).
7.

USE #8 GRADE 5 SELF-TAPPING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM (3) THREAD PENETRATION BEYOND STEEL SUBSTRATE. (SEE CHARTS & NOTES ON SHEETS 4 & 5 FOR DESIGN PRESSURE AND ANCHOR NOTES).
2.

ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING, OR STEEL 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 OF INSTALLATION.
3.

SEE CHARTS & NOTES ON SHEETS 4 & 5 FOR DESIGN PRESSURE.
4.

THIS MULLION IS ONLY VALID WHEN USED IN CONJUNCTION WITH APPLICABLE PLY GEM SERIES 1500 WINDOW PRODUCTS UTILIZING THE BRICKMOULD FRAME COMPONENT SHOWN HEREIN.
5.

ALL WINDOWS USED WITH THIS MULLION SHALL BE QUALIFIED UNDER SEPARATE APPROVAL.
6.

MULLION MATERIAL: PVC
7.

MULLION REINFORCEMENT MATERIAL: HSLA 50 GALVANIZED STEEL
8.

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.

GROUT-FILLED CMU- UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.

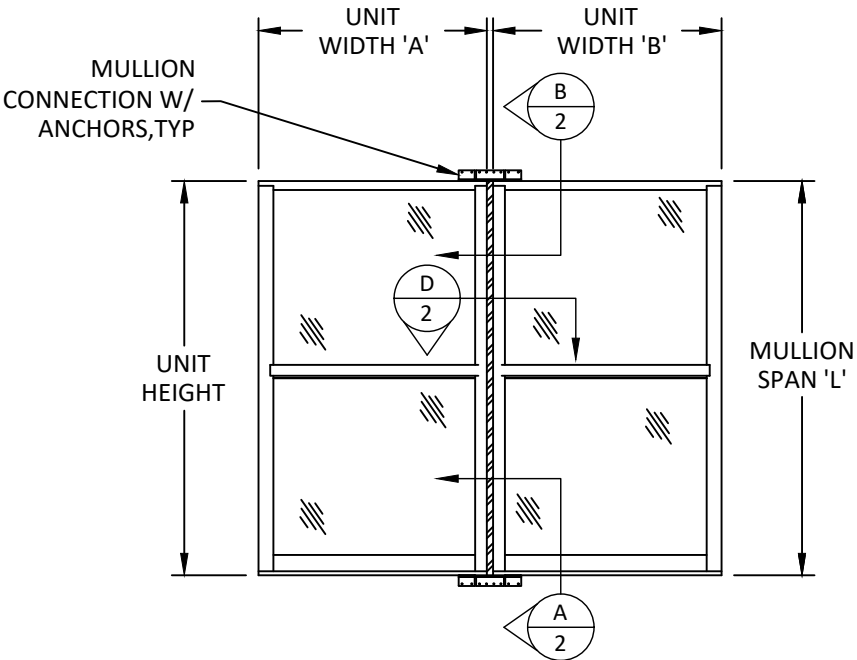
D.

HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.

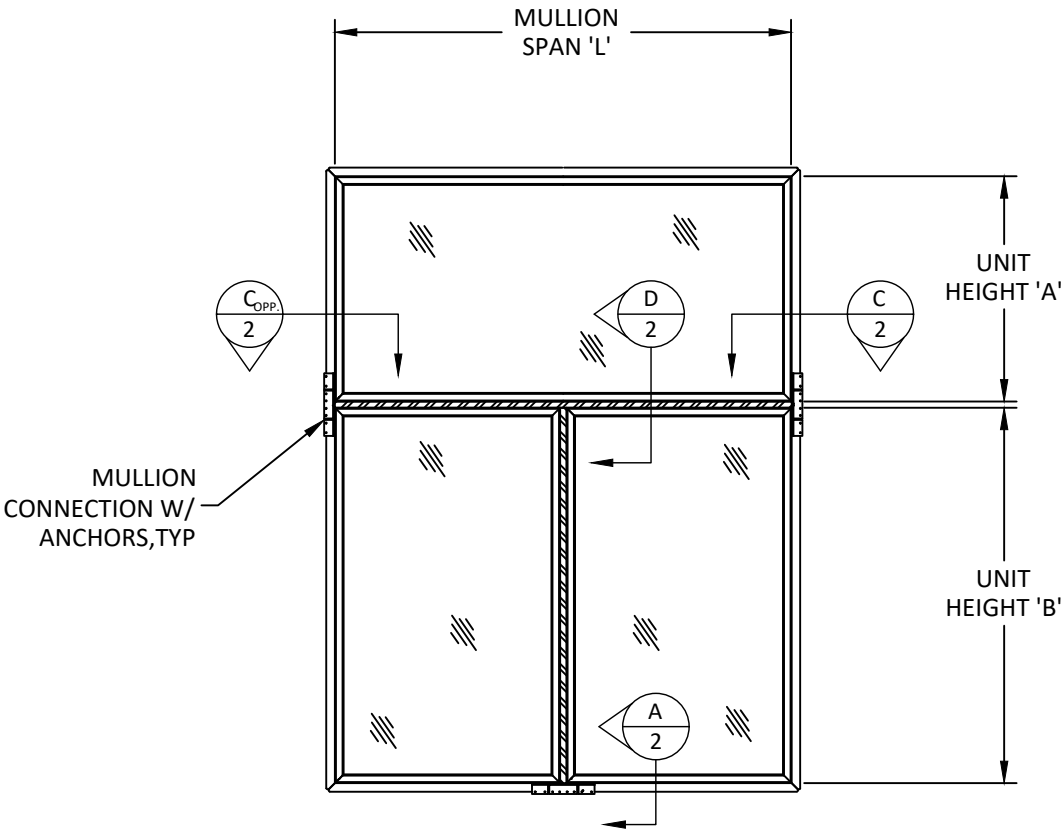
E.

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

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SHEET	SHEET DESCRIPTION
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5	TWO-WAY MULLION DESIGN PRESSURE CHARTS



ONE-WAY MULLION
EXAMPLE



TWO-WAY MULLION
EXAMPLE



Part of the Cornerstone Building Brands Family

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

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

TITLE: 1500 SERIES BRICKMOULD FRAME MULLION

MULLION ASSEMBLY ELEVATIONS & NOTES

PREPARED BY:

BUILDING DROPS, INC.

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MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
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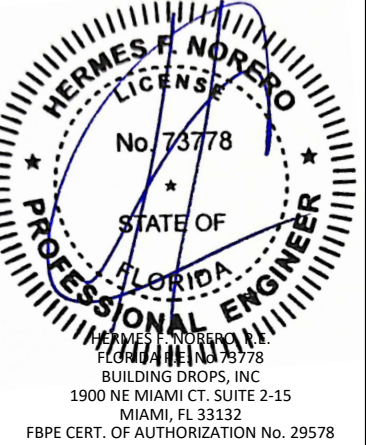


BUILDING DROPS

REMARKS	BY	DATE
REVISED INSTALLATION METHOD	MTJ	05.29.13
5TH EDITION FBC UPDATE	SM	08.20.14
ADDED NOTES ON SHEET 4 & 5	LMH	10.02.17
CURRENT FBC	LMH	07.24.26

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.

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.08.06 20:19:51 -04'00'



FL #:

16118

DATE:

12.06.12

DWG. BY:

JLA

CHK. BY:

HFN

SCALE:

NTS

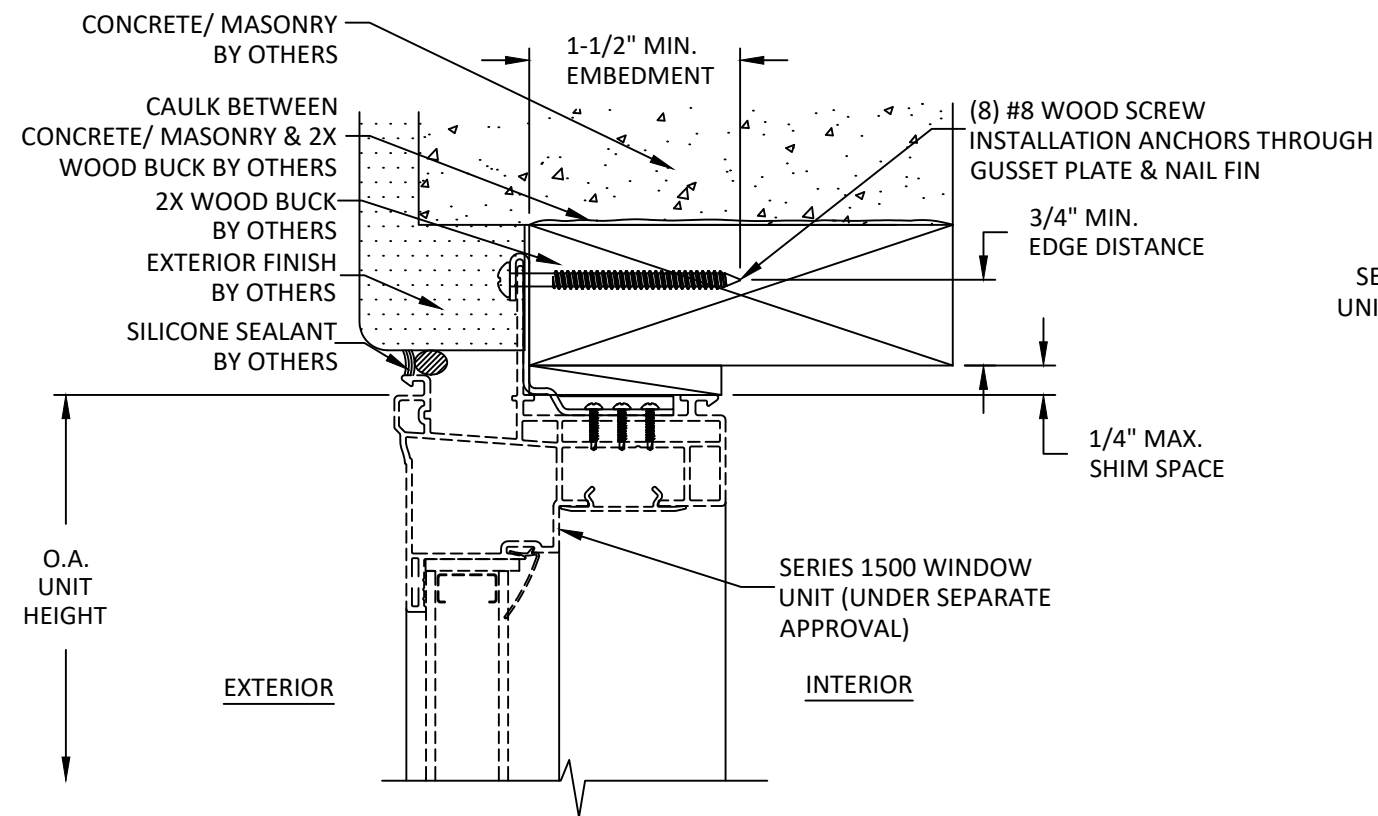
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PGW189

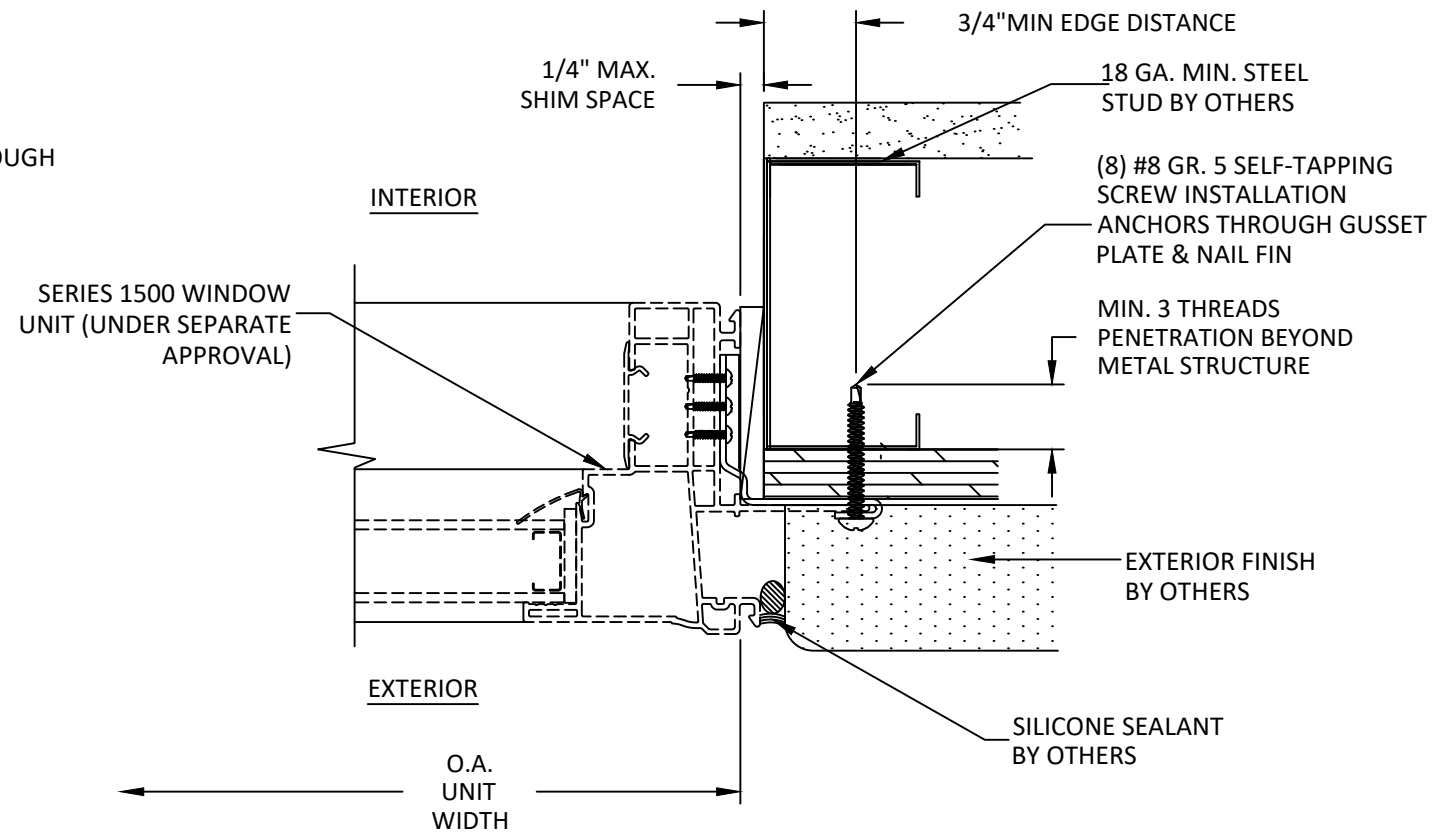
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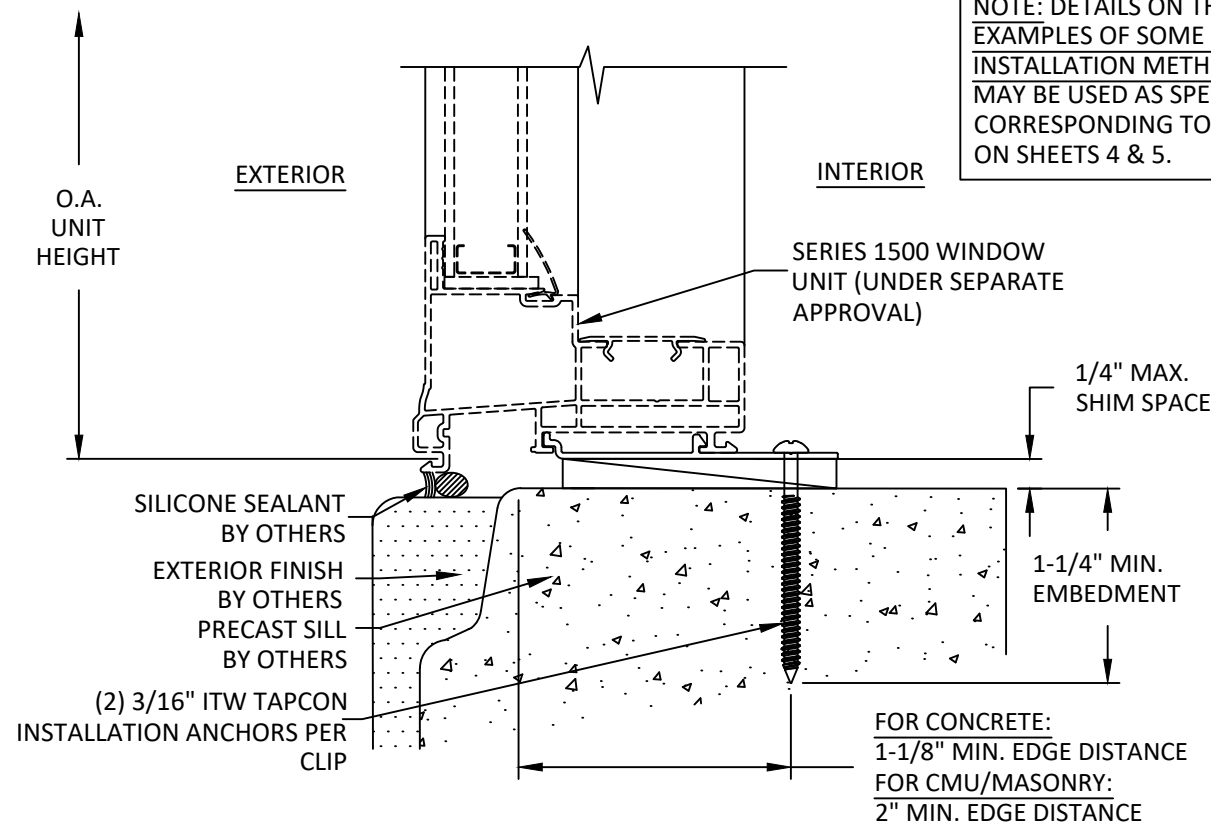
OF 5



B
2 **VERTICAL SECTION**
2X WOOD BUCK
NAIL FIN & GUSSET PLATE INSTALLATION

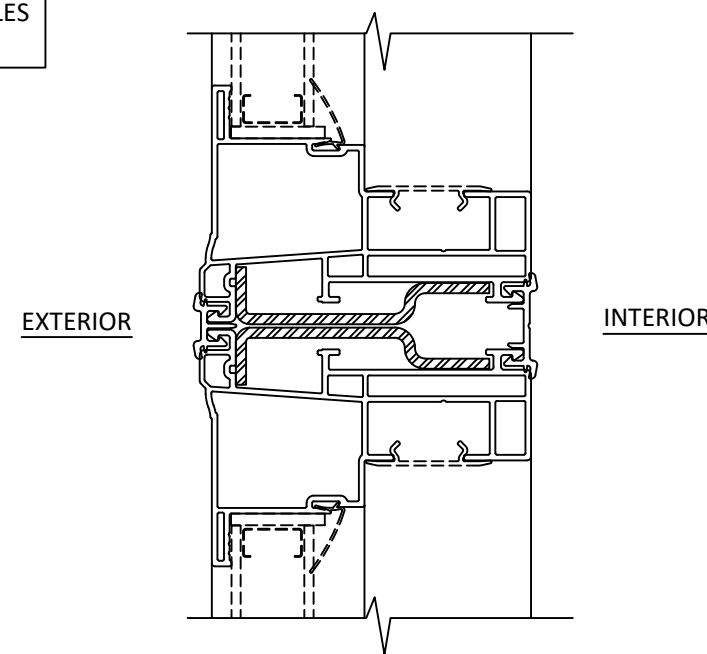


C
2 **HORIZONTAL SECTION**
STEEL STUD
NAIL FIN & GUSSET PLATE INSTALLATION



A
2 **VERTICAL SECTION**
MASONRY/CONCRETE
ANCHOR CLIP INSTALLATION

NOTE: DETAILS ON THIS SHEET REPRESENT EXAMPLES OF SOME OF THE AVAILABLE INSTALLATION METHODS. METHODS SHOWN MAY BE USED AS SPECIFIED IN NOTES CORRESPONDING TO DESIGN PRESSURE TABLES ON SHEETS 4 & 5.



D
2 **CROSS SECTION**
MULLION
TYPICAL

TITLE: 1500 SERIES BRICKMOULD FRAME MULLION	MULLION SECTION DETAILS	
	PREPARED BY: BUILDING DROPS, INC. 1900 NE MIAMI CT. SUITE 2-15 MIAMI, FL 33132 PH: (954) 395-8478 FAX: (954) 744-4738 WEB: www.buildingdrops.com	

REMARKS	BY	DATE
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FL #:	16118
DATE:	12.06.12
DWG. BY:	JLA
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	PGW189
SHEET:	2

TITLE: 1500 SERIES BRICKMOULD
FRAME MULLION

ANCHORAGE METHOD
DETAILS

PREPARED BY:
BUILDING DROPS, INC.
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BD
BUILDING DROPS

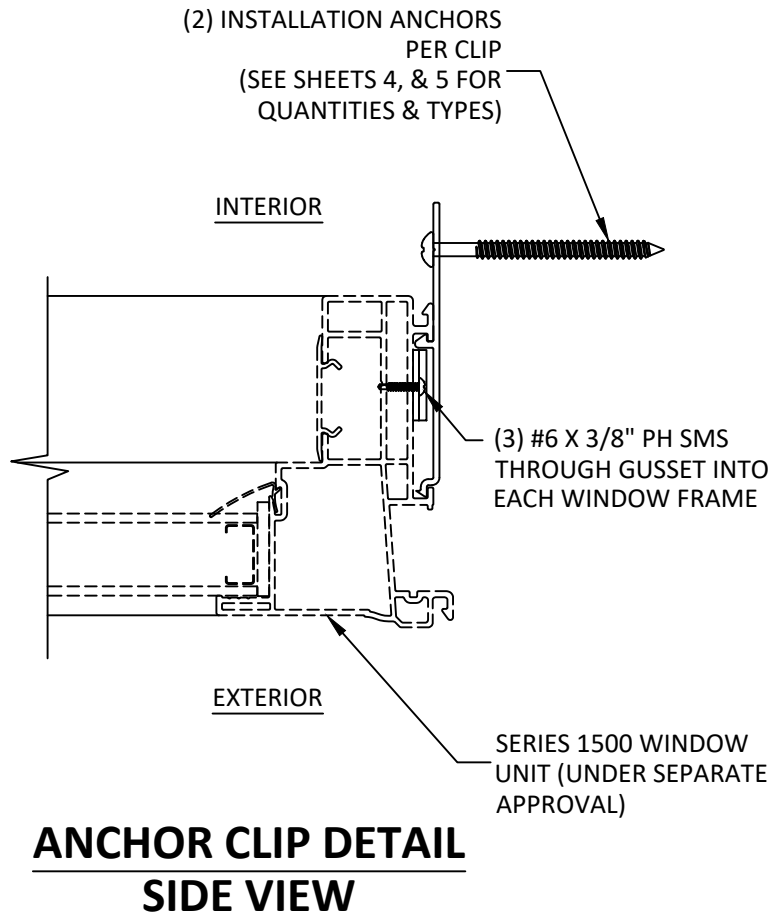
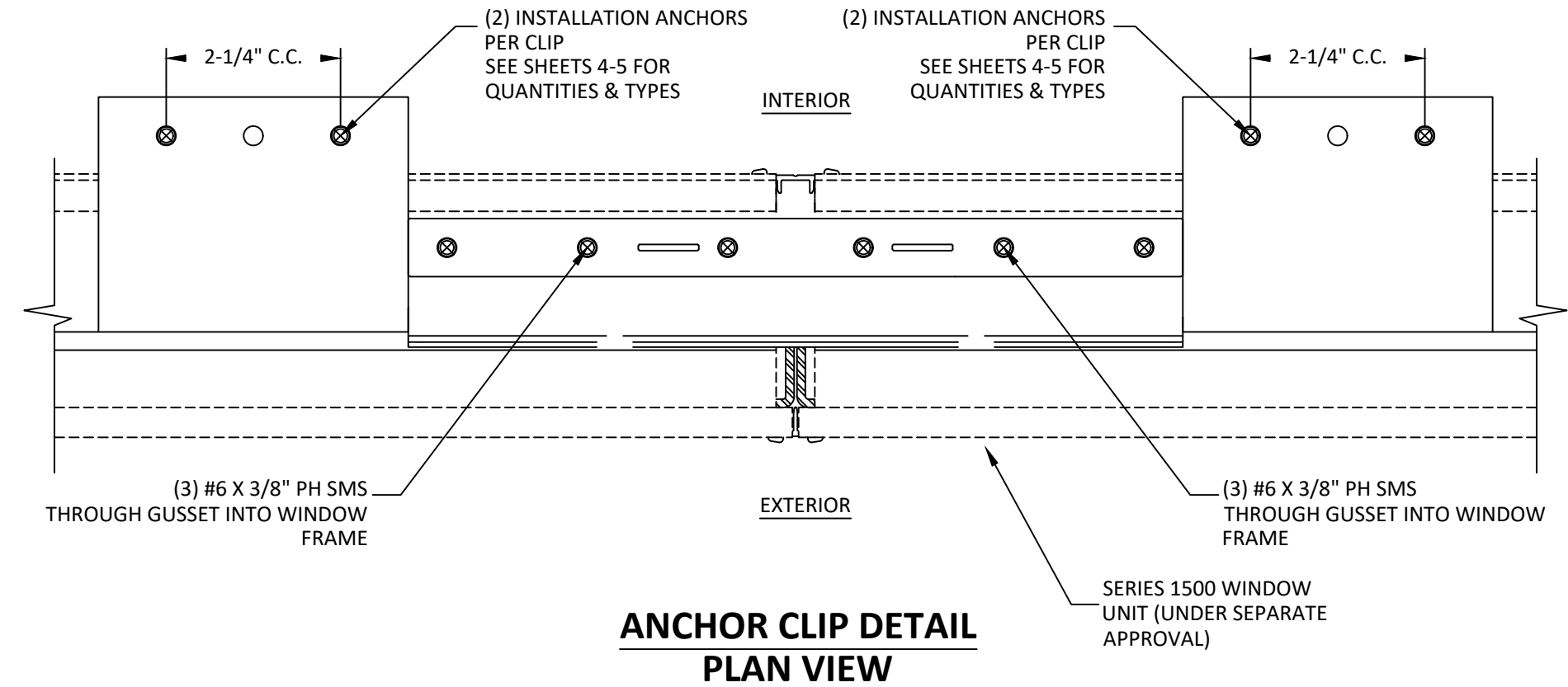
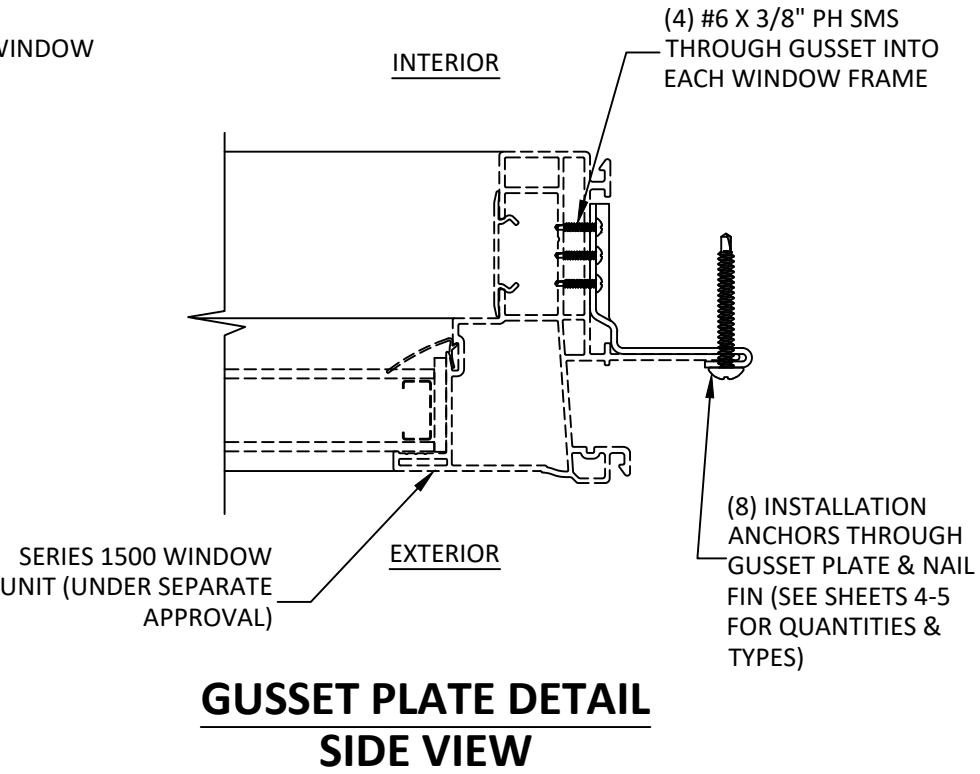
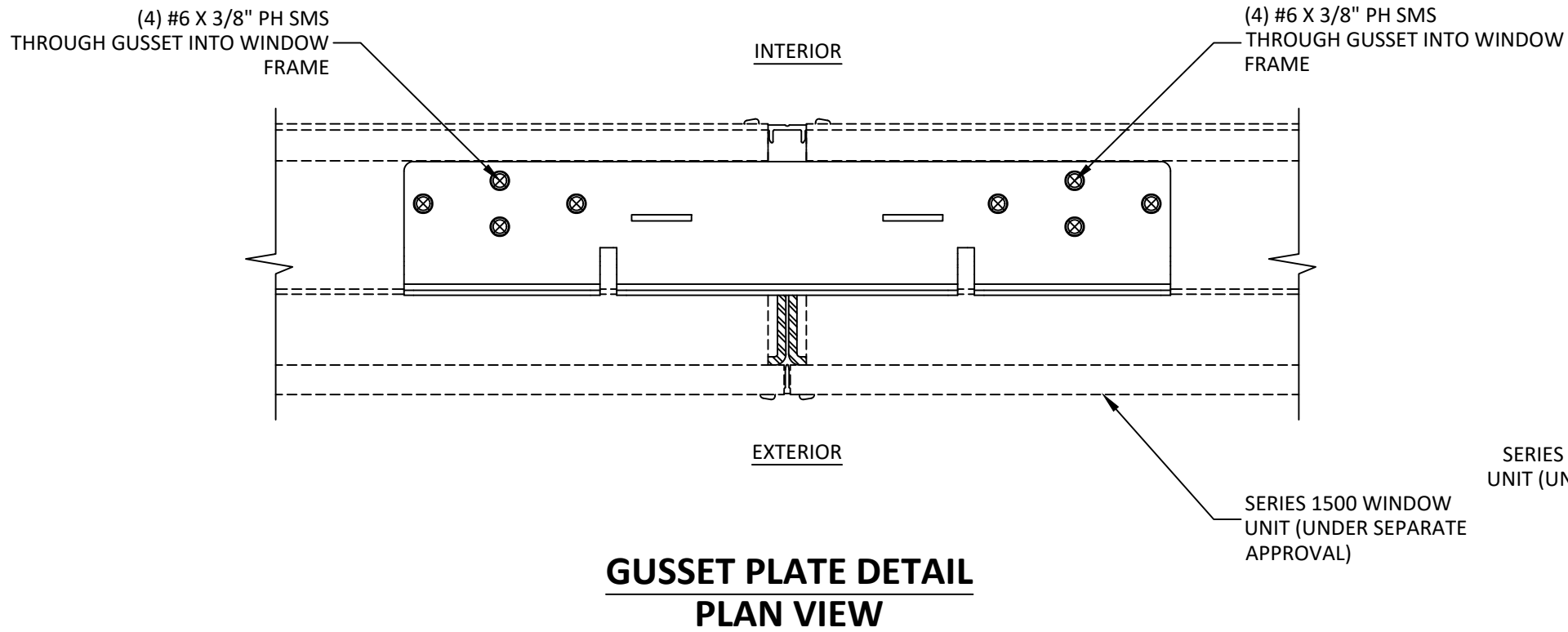
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HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.
FLORIDA LICENSE NO. 73778
BUILDING DROPS, INC
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	16118	
DATE:	12.06.12	
DWG. BY:	JLA	CHK. BY: HFN
SCALE:	NTS	
DWG. #:	PGW189	
SHEET:		



PLY GEM SERIES 1500 BRICKMOULD FRAME MULLION - DESIGN PRESSURE TABLE FOR 'ONE-WAY' MULLIONS (PSF)															
WIDTH 'W'	MULLION SPAN 'L'														
	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	83 1/2"	90"	96 1/2"	108"	120"
18"	150.0	150.0	150.0	150.0	150.0	150.0	150.0	139.2	125.9	115.0	106.5	94.4	76.4	54.3	39.5
21"	150.0	150.0	150.0	150.0	150.0	150.0	137.4	122.5	110.6	100.7	93.2	81.4	65.8	46.8	34.0
24"	150.0	150.0	150.0	150.0	150.0	141.7	124.0	110.2	99.2	90.2	83.2	71.7	57.9	41.1	29.9
27"	150.0	150.0	150.0	150.0	150.0	130.6	113.7	100.7	90.4	82.0	75.6	64.2	51.8	36.7	26.7
30"	150.0	150.0	150.0	150.0	144.2	122.1	105.8	93.3	83.5	75.6	69.5	58.3	47.0	33.3	24.1
33"	150.0	150.0	150.0	150.0	137.4	115.4	99.5	87.4	78.0	70.4	64.6	53.5	43.1	30.4	22.0
36"	150.0	150.0	150.0	150.0	132.2	110.2	94.4	82.6	73.5	66.1	60.6	49.6	39.9	28.1	20.3
39"	150.0	150.0	150.0	150.0	128.5	106.1	90.4	78.7	69.7	62.6	57.2	46.3	37.2	26.2	18.9
42"	150.0	150.0	150.0	150.0	125.9	103.0	87.2	75.6	66.7	59.6	54.4	43.5	34.9	24.5	17.6
45"	150.0	150.0	150.0	150.0	124.4	100.7	84.6	73.0	64.1	57.2	52.0	41.2	32.9	23.1	16.6
48"	150.0	150.0	150.0	150.0	124.0	99.2	82.6	70.8	62.0	55.1	50.0	39.2	31.3	21.8	15.7
51"	150.0	150.0	150.0	150.0	124.0	98.2	81.2	69.1	60.2	53.3	47.8	37.4	29.8	20.8	14.9
54"	150.0	150.0	150.0	150.0	124.0	97.9	80.1	67.8	58.8	51.9	46.0	35.9	28.6	19.9	14.2
57"	150.0	150.0	150.0	150.0	124.0	97.9	79.5	66.8	57.6	50.6	44.4	34.7	27.5	19.0	13.6
60"	150.0	150.0	150.0	150.0	124.0	97.9	66.1	66.1	56.7	49.6	43.0	33.6	26.5	18.3	13.0

1. THE DESIGN PRESSURES IN THIS CHART ARE FOR ONE-WAY MULLIONS WHEN INSTALLED USING THE NAIL FIN & GUSSET PLATE METHOD OR ANCHOR CLIP METHOD.
2. FOR NAIL FIN & GUSSET PLATE METHOD:

A. FOR WOOD FRAMING INSTALLATION USE EIGHT (8) #8 WOOD SCREWS AT EACH GUSSET PLATE THROUGH THE PLATE AND NAIL FIN. WOOD SCREWS MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A 1-1/2" MINIMUM EMBEDMENT INTO FRAMING. SEE SHEET 2 FOR TYPICAL INSTALLATION DETAILS.

B. FOR STEEL FRAME INSTALLATION USE EIGHT (8) #8 GR. 5 SELF-TAPPING SCREWS AT EACH GUSSET PLATE THROUGH THE PLATE AND NAIL FIN. SELF-TAPPING SCREWS MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM (3) THREAD PENETRATION BEYOND STEEL SUBSTRATE. SEE SHEET 2 FOR TYPICAL INSTALLATION DETAILS.
3. FOR ANCHOR CLIP METHOD:

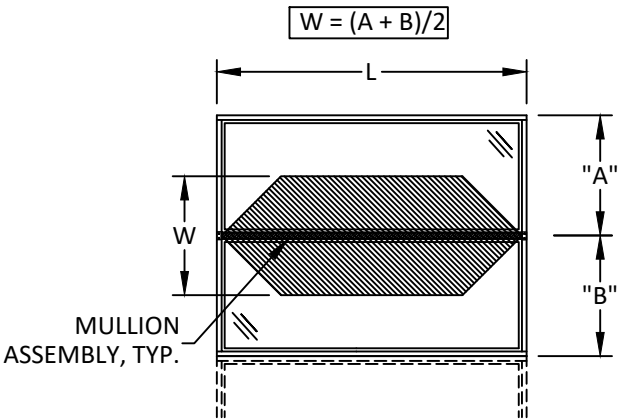
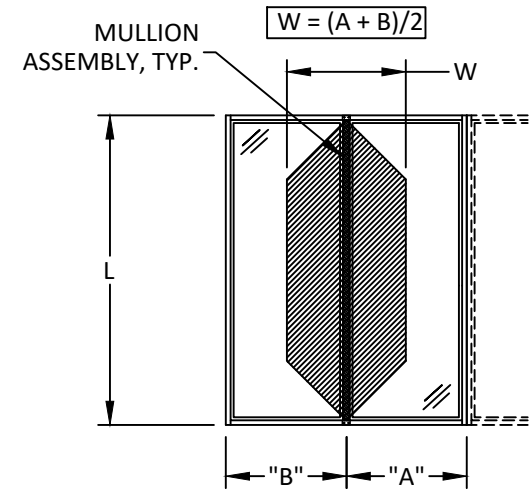
A. FOR WOOD FRAMING INSTALLATION USE TWO (2) #8 WOOD SCREWS PER CLIP. USE TWO CLIPS PER MULLION END. WOOD SCREWS MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A 1-1/2" MINIMUM EMBEDMENT INTO FRAMING. SEE SHEET 2 FOR TYPICAL INSTALLATION DETAILS.

B. FOR STEEL FRAME INSTALLATION USE TWO (2) #8 GR. 5 SELF-TAPPING SCREWS PER CLIP. USE TWO CLIPS PER MULLION END. SELF-TAPPING SCREWS MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM (3) THREAD PENETRATION BEYOND STEEL SUBSTRATE. SEE SHEET 2 FOR TYPICAL INSTALLATION DETAILS.

C. FOR CONCRETE/MASONRY FRAMING INSTALLATION USE TWO (2) 3/16" ITW TAPCONS PER CLIP. USE TWO CLIPS PER MULLION END. ITW TAPCONS MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A 1-1/4" MINIMUM EMBEDMENT INTO FRAMING. SEE SHEET 2 FOR TYPICAL INSTALLATION DETAILS.
4. DESIGN PRESSURE VALUES APPLY TO MULLION WHERE TWO OR MORE WINDOWS ARE LISTED IN A SINGLE OPENING.DESIGN PRESSURE VALUES ON THIS CHART ARE POSITIVE AND NEGATIVE PSF.
5. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.

5.1. 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).

5.2. 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., ASTME A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).



TYPICAL ONE-WAY MULLION LAYOUTS

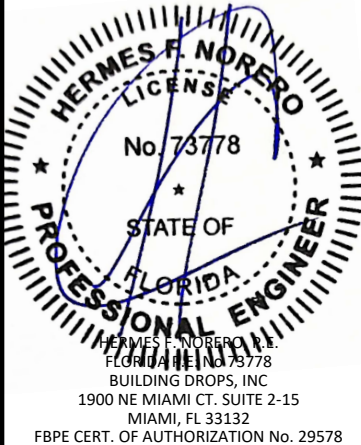
TITLE: 1500 SERIES BRICKMOULD
FRAME MULLION

ONE-WAY MULLION
DESIGN PRESSURE CHARTS

PREPARED BY:
BUILDING DROPS, INC.
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REMARKS	BY	DATE
REVISED INSTALLATION METHOD	MTJ	05.29.13
5TH EDITION FBC UPDATE	SM	08.20.14
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HERMES F. NORERO, P.E.
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FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	16118
DATE:	12.06.12
DWG. BY:	JLA
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	PGW189
SHEET:	4

OF 5

PLY GEM SERIES 1500 BRICKMOULD FRAME MULLION - DESIGN PRESSURE TABLE FOR 'TWO-WAY' MULLIONS (PSF)															
WIDTH 'W'	MULLION SPAN 'L'														
	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	83 1/2"	90"	96 1/2"	108"	120"
18"	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	139.3	128.6	120.1	111.4	105.0	72.6	52.9
21"	150.0	150.0	150.0	150.0	150.0	150.0	143.3	130.2	119.4	110.2	102.9	95.5	90.0	62.2	45.4
24"	150.0	150.0	150.0	150.0	150.0	139.3	125.3	113.9	104.5	96.4	90.1	83.6	78.8	54.4	39.7
27"	150.0	150.0	150.0	150.0	139.3	123.8	111.4	101.3	92.8	85.7	80.1	74.3	70.0	48.4	35.3
30"	150.0	150.0	150.0	143.3	125.3	111.4	100.3	91.2	83.6	77.1	72.1	66.9	63.0	43.6	31.8
33"	150.0	150.0	150.0	130.2	113.9	101.3	91.2	82.9	76.0	70.1	65.5	60.8	57.3	39.6	28.9
36"	150.0	150.0	139.3	119.4	104.5	92.8	83.6	76.0	69.6	64.3	60.0	55.7	52.5	36.3	26.5
39"	150.0	150.0	128.6	110.2	96.4	85.7	77.1	70.1	64.3	59.3	55.4	51.4	48.5	33.5	24.4
42"	150.0	143.3	119.4	102.3	89.5	79.6	71.6	65.1	59.7	55.1	51.5	47.8	45.0	31.1	22.7
45"	150.0	133.7	111.4	95.5	83.6	74.3	66.9	60.8	55.7	51.4	48.0	44.6	42.0	29.0	21.2
48"	150.0	125.3	104.5	89.5	78.3	69.6	62.7	57.0	52.2	48.2	45.0	41.8	39.4	27.2	19.8
51"	147.5	118.0	98.3	84.3	73.7	65.5	59.0	53.6	49.2	45.4	42.4	39.3	37.1	25.6	18.7
54"	139.3	111.4	92.8	79.6	69.6	61.9	55.7	50.6	46.4	42.9	40.0	37.1	35.0	24.2	17.6
57"	131.9	105.6	88.0	75.4	66.0	58.6	52.8	48.0	44.0	40.6	37.9	35.2	33.2	22.9	16.7
60"	125.3	100.3	83.6	71.6	62.7	55.7	50.1	45.6	41.8	38.6	36.0	33.4	31.5	21.8	15.9

1. THE DESIGN PRESSURES IN THIS CHART ARE FOR TWO-WAY MULLIONS WHEN INSTALLED USING THE NAIL FIN & GUSSET PLATE METHOD OR ANCHOR CLIP METHOD.
2. FOR NAIL FIN & GUSSET PLATE METHOD:

A. FOR WOOD FRAMING INSTALLATION USE EIGHT (8) #8 WOOD SCREWS AT EACH GUSSET PLATE THROUGH THE PLATE AND NAIL FIN. WOOD SCREWS MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A 1-1/2" MINIMUM EMBEDMENT INTO FRAMING. SEE SHEET 2 FOR TYPICAL INSTALLATION DETAILS.

B. FOR STEEL FRAME INSTALLATION USE EIGHT (8) #8 GR. 5 SELF-TAPPING SCREWS AT EACH GUSSET PLATE THROUGH THE PLATE AND NAIL FIN. SELF-TAPPING SCREWS MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM (3) THREAD PENETRATION BEYOND STEEL SUBSTRATE. SEE SHEET 2 FOR TYPICAL INSTALLATION DETAILS.
3. FOR ANCHOR CLIP METHOD:

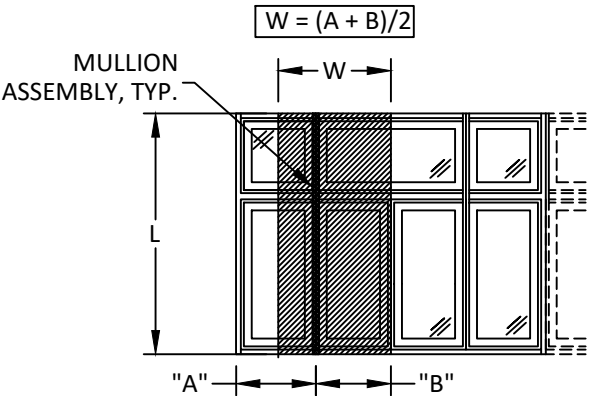
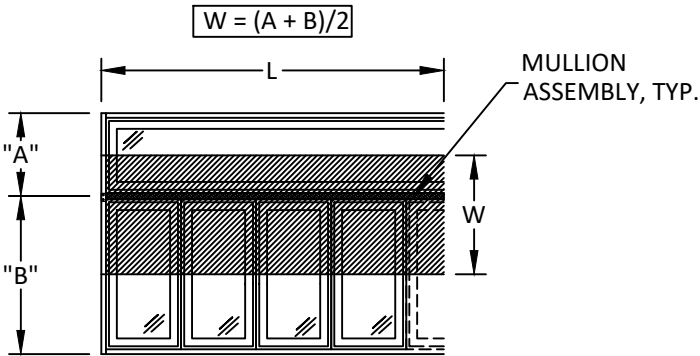
A. FOR WOOD FRAMING INSTALLATION USE TWO (2) #8 WOOD SCREWS PER CLIP. USE TWO CLIPS PER MULLION END. WOOD SCREWS MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A 1-1/2" MINIMUM EMBEDMENT INTO FRAMING. SEE SHEET 2 FOR TYPICAL INSTALLATION DETAILS.

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C. FOR CONCRETE/MASONRY FRAMING INSTALLATION USE TWO (2) 3/16" ITW TAPCONS PER CLIP. USE TWO CLIPS PER MULLION END. ITW TAPCONS MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A 1-1/4" MINIMUM EMBEDMENT INTO FRAMING. SEE SHEET 2 FOR TYPICAL INSTALLATION DETAILS.
4. DESIGN PRESSURE VALUES APPLY TO MULLION WHERE TWO OR MORE WINDOWS ARE LISTED IN A SINGLE OPENING.DESIGN PRESSURE VALUES ON THIS CHART ARE POSITIVE AND NEGATIVE PSF.
5. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.

5.1. 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).

5.2. 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 A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).



TYPICAL TWO-WAY MULLION LAYOUTS

TITLE: 1500 SERIES BRICKMOULD
FRAME MULLION

TWO-WAY MULLION
DESIGN PRESSURE CHARTS

PREPARED BY:
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REMARKS	BY	DATE
REVISED INSTALLATION METHOD	MTJ	05.29.13
5TH EDITION FBC UPDATE	SM	08.20.14
ADDED NOTES ON SHEET 4 & 5	LMH	10.02.17
CURRENT FBC	LMH	07.24.26

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.



HERMES F. NORERO, P.E.
FLORIDA LICENSE NO. 73778
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MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

16118

DATE: 12.06.12

DWG. BY:

JLA

CHK. BY:

HFN

SCALE: NTS

DWG. #: PGW189

SHEET:

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OF 5