

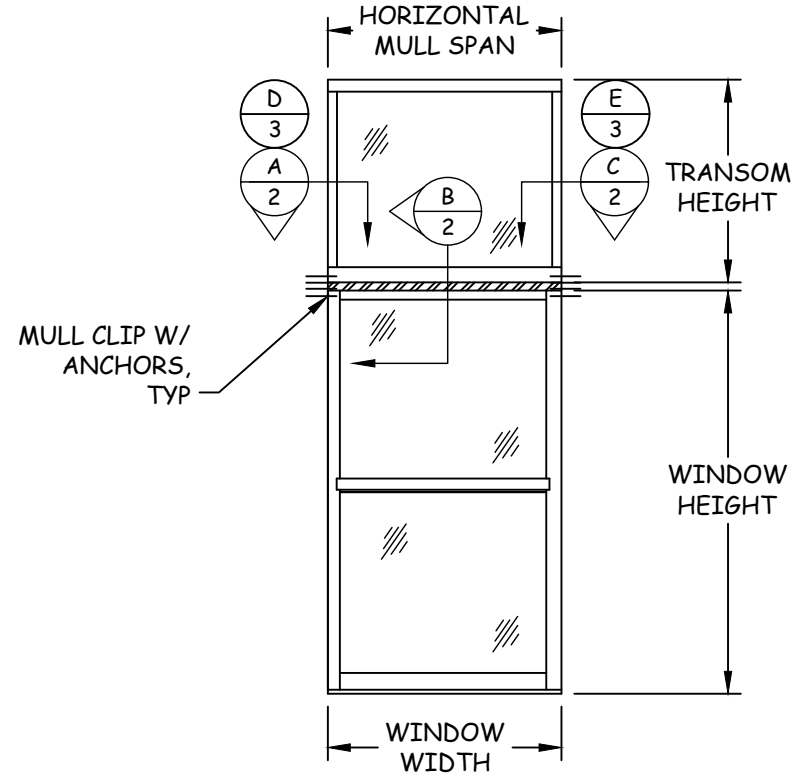
PLY GEM WINDOWS

BUILDER SERIES

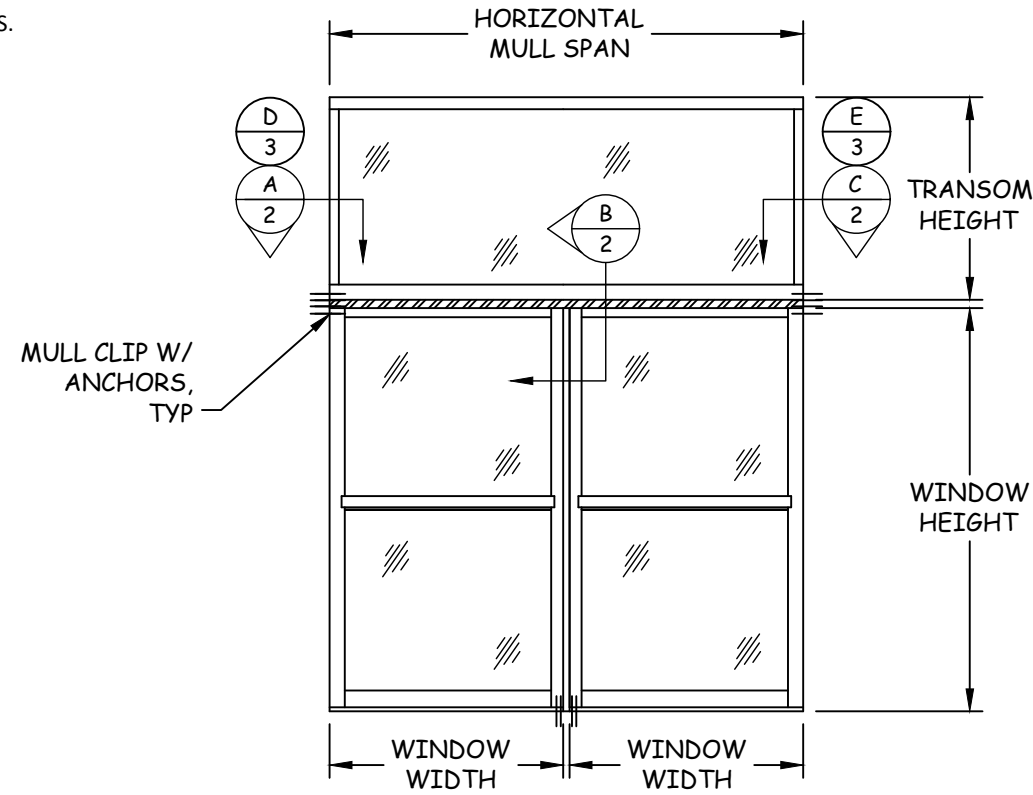
1100 HP HORIZONTAL MULLION

- NOTES:
- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE.
 - MULLION INSTALLATION DETAILS APPLY TO PLY GEM WINDOWS 1100 HP ALUMINUM EXTRUDED MULL WITH EXTRUDED ALUMINUM ANCHOR SPLICE # 10226 OR ANCHOR CLIP #653984 WHEN USED TO MULL WINDOWS ONE ABOVE THE OTHER.
 - APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
 - FOR MULL SPLICE OR MULL CLIP: USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1½" INTO WOOD FRAMING. (SEE CHARTS & NOTES ON SHEET 4 FOR DESIGN PRESSURE AND ANCHOR NOTES).
 - FOR MULL SPLICE: USE #8 TEK SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 3 THREADS PENETRATION BEYOND STEEL SUBSTRATE. (SEE CHARTS & NOTES ON SHEET 4 FOR DESIGN PRESSURE AND ANCHOR NOTES).
 - FOR MULL CLIP: USE #10 SAE GR. 5 SELF-TAPPING SCREW OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF 3 THREADS PENETRATION BEYOND STEEL SUBSTRATE.(SEE CHARTS & NOTES ON SHEET 4 FOR DESIGN PRESSURE AND ANCHOR NOTES).
 - FOR MULL CLIP: USE ¾" ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF 1¼" INTO CONCRETE OR MASONRY.(SEE CHARTS & NOTES ON SHEET 4 FOR DESIGN PRESSURE AND ANCHOR NOTES).
 - MULLION CLIPS SHALL BE FASTENED TO THE ALUMINUM MULLION THROUGH THE SCREW SPLINES WITH TWO (2) #10 X 1" GR. 5 SCREWS AT EACH MULLION END. SEE SHEET 3 FOR DETAILS.
 - MULLION CLIPS SHALL BE FASTENED TO THE WINDOW FRAMES WITH FOUR (4) #8 X 1/2" GR. 5 SCREWS AT EA. MULLION END. SEE SHEET 3 FOR DETAILS.
 - USE (2) #8 TEK SCREWS, PER CLIP, OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 3 THREADS PENETRATION BEYOND ALUMINUM MULLION AT X-MULL CONNECTION.
 - 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.
 - SEE CHARTS & NOTES ON SHEET 4 FOR DESIGN PRESSURE.
 - THIS MULLION IS ONLY VALID WHEN USED IN CONJUNCTION WITH APPLICABLE PLY GEM WINDOWS PRODUCTS.
 - ALL WINDOWS USED WITH THIS MULLION SHALL BE QUALIFIED UNDER SEPARATE APPROVAL.
 - MATERIAL:
 - MULL SPLICE: 6063-T5 ALUMINUM
 - MULL CLIP: GALVANIZED STEEL (MIN. Fy = 36 KSI)
 - MULLION: 6063-T6
 - INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - MASONRY - STRENGTH CONFORMANCE TO ASTM C90.
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	MULLION ASSEMBLY ELEVATIONS & NOTES
2	MULLION SECTION DETAILS AND SPLICE ANCHORING
3	MULLION SECTION DETAILS AND CLIP ANCHORING
4	DESIGN PRESSURE CHARTS



HORIZONTAL MULLION FOR
SINGLE WINDOW W/ TRANSOM



HORIZONTAL MULLION FOR
TWIN WINDOWS W/ TRANSOM

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2017.09.28 12:40:23 -04'00'

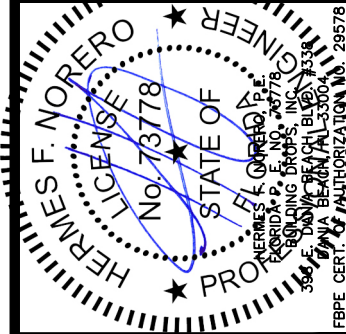


433 N. MAIN ST., PO BOX 559,
ROCKY MOUNT, VA 24151

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

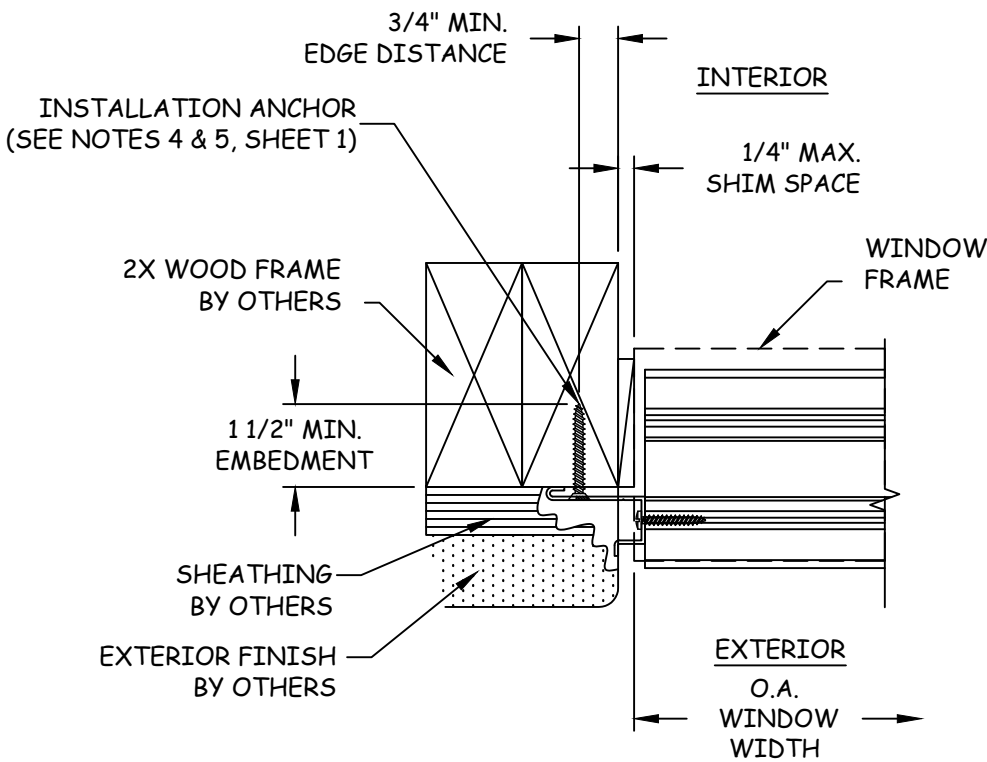
TITLE: 1100 HP HORIZONTAL MULLION	MULLION ASSEMBLY ELEVATION & NOTES
PREPARED BY:	BUILDING DROPS, INC. 398 E. DANIA BEACH BLVD. #338 DANIA BEACH, FL 33004 PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS	NO.	DESCRIPTION	BY	DATE
	A	ADD MULL CLIP OPTION	MS	06.21.12
	B	5TH EDITION FBC UPDATE	SM	08.04.14
	C	UPDATED NOTES 6 & 7, SHEET 4	LWH	09.27.17



DATE: 02.21.12	DWN BY: GRN	CHK BY: HFN	SCALE: NTS
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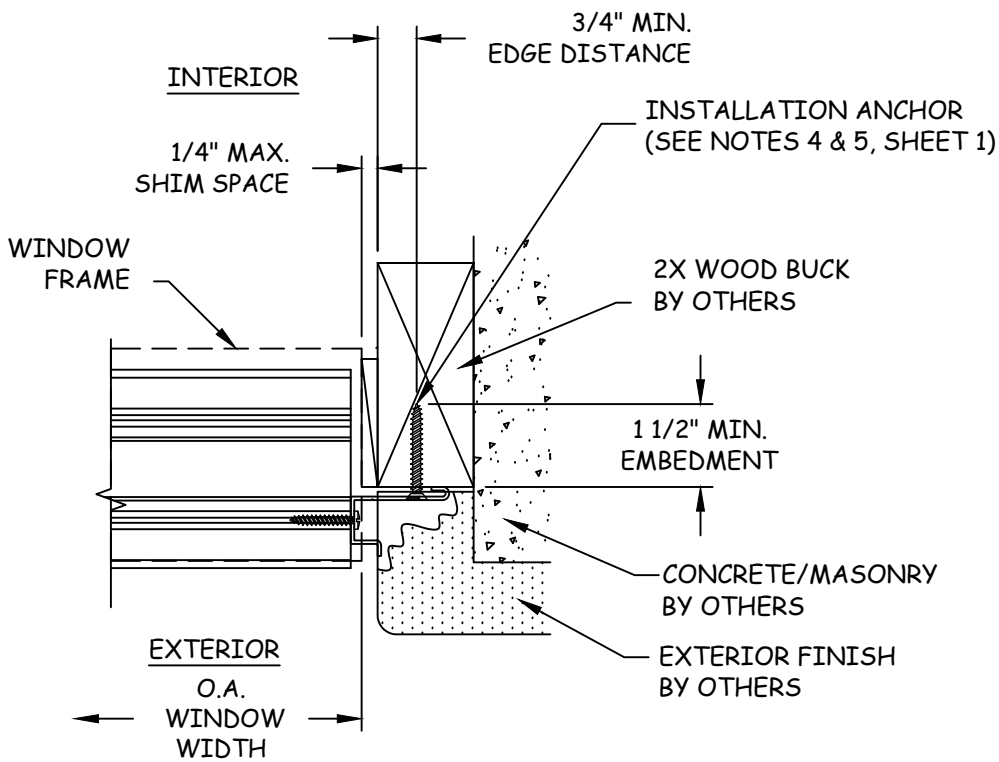
DWG #:	PGW127
SHEET:	1 OF 4



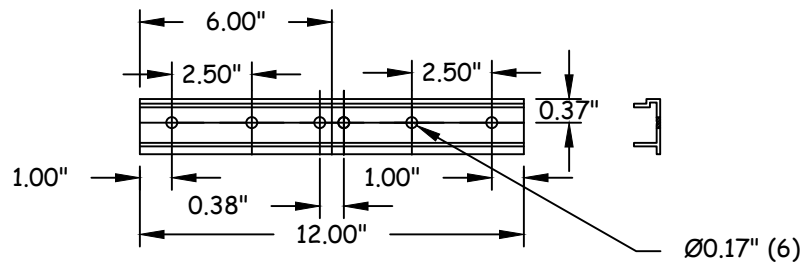
A
2 **HORIZONTAL SECTION**
JAMB - 2X WOOD FRAME
MULL SPLICE



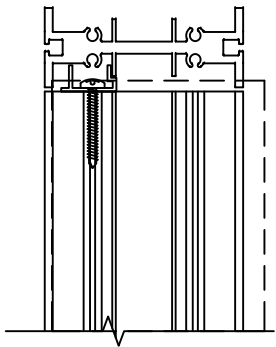
B
2 **VERTICAL SECTION**
1100 HP MULL
DIE # 10832



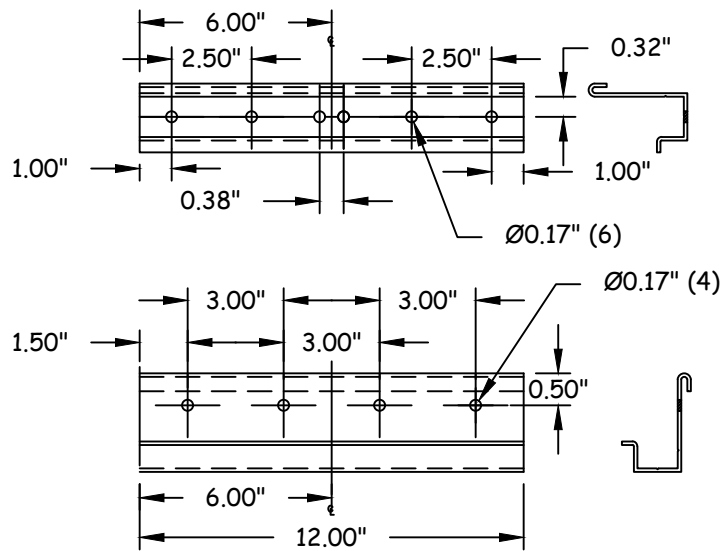
C
2 **HORIZONTAL SECTION**
JAMB - 2X WOOD BUCK
MULL SPLICE



MULL (STACK) SPLICE DETAIL
DIE# 10226-2



T-MULL CONNECTION



MULL SPLICE DETAIL
DIE# 10226



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

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

TITLE: 1100 HP HORIZONTAL
MULLION
MULLION SECTIONS
DETAILS & ANCHORING

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004

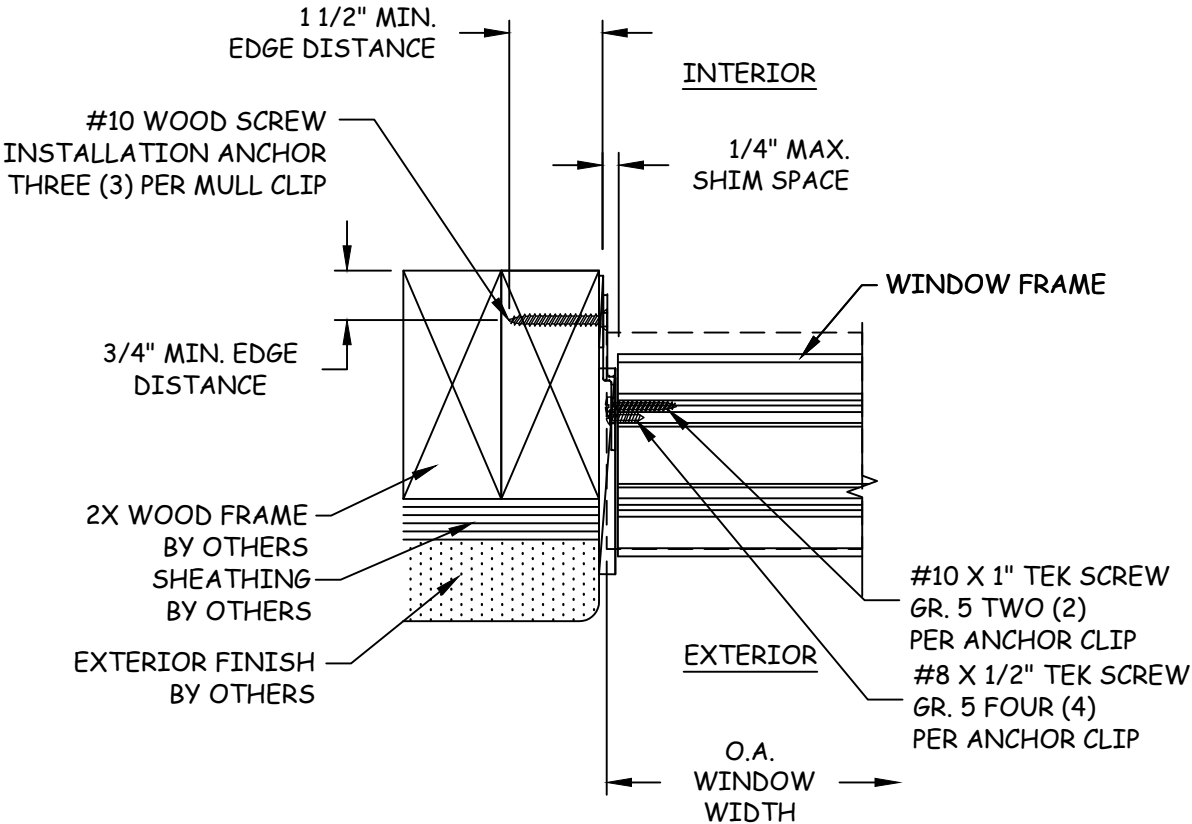
PH: (954) 399-8478 FX: (954) 744-4738

NO.	DESCRIPTION	BY	DATE
A	ADD MULL CLIP OPTION	MS	06.21.12
B	5TH EDITION FBC UPDATE	SM	08.04.14
C	UPDATED NOTES 6 & 7, SHEET 4	LMH	09.27.17

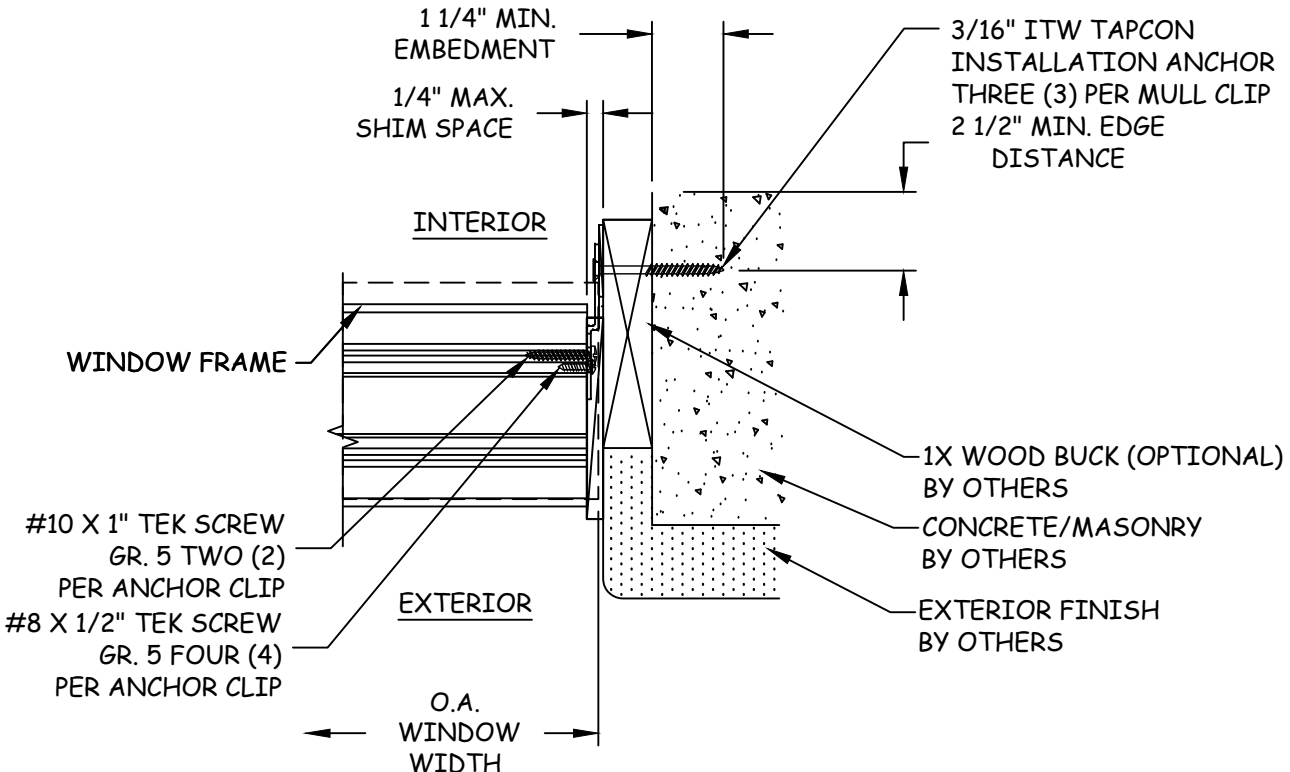


DATE:	02.21.12
DWN BY:	GRN
CHK BY:	HFN
SCALE:	NTS

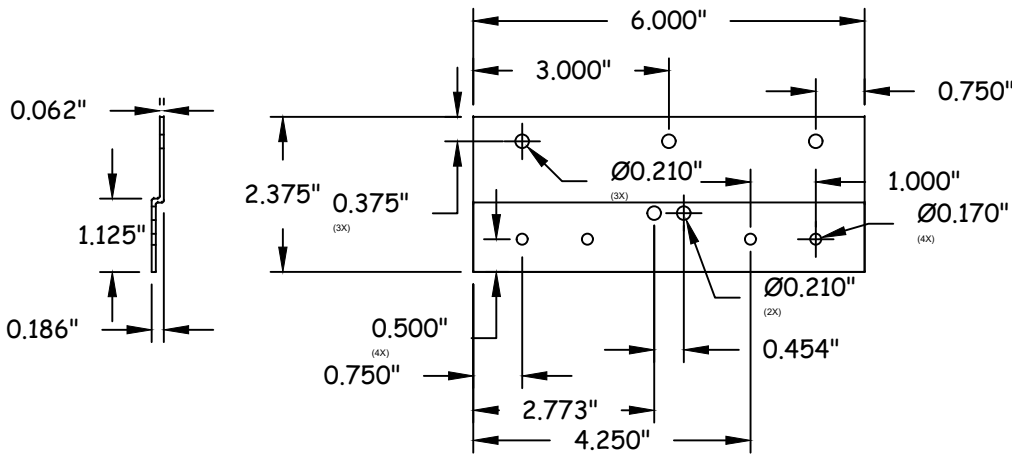
DWG #: **PGW127**
SHEET: **2 OF 4**



D
3
HORIZONTAL SECTION
JAMB - 2X WOOD



E
3
HORIZONTAL SECTION
JAMB - 1X WOOD/CONCRETE/MASONRY



MULL CLIP DETAIL
PART NO. 653984



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

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

TITLE: 1100 HP HORIZONTAL MULLION	DESIGN PRESSURE CHARTS		PREPARED BY:	
			BUILDING DROPS, INC. 398 E. DANIA BEACH BLVD. #338 DANIA BEACH, FL 33004	

NO.	DESCRIPTION	BY	DATE
A	ADD MULL CLIP OPTION	MS	06.21.12
B	5TH EDITION FBC UPDATE	SM	08.04.14
C	UPDATED NOTES 6 & 7, SHEET 4	LWH	09.27.17



DATE:	02.21.12
DWN BY:	GRN
CHK BY:	HFN
SCALE:	NTS

DWG #:
PGW127
SHEET: **3 OF 4**

DESIGN PRESSURE CHARTS

Maximum design pressure capacity chart
1100 HP Horizontal mullion, single with transom
Design pressures are limited either by mullion or anchor screw or anchor clip capacity.

Height (in)		Unit width (in)									
Window	Transom	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	
24.0	12.0	150.0	150.0	150.0	150.0	150.0	150.0	137.1	125.3	115.4	
30.0	15.0	150.0	150.0	150.0	150.0	149.3	132.4	118.9	108.0	98.8	
36.0	18.0	150.0	150.0	150.0	150.0	139.2	121.8	108.3	97.5	88.6	
42.0	21.0	150.0	150.0	150.0	150.0	133.4	116.2	102.3	91.1	82.2	
48.0	24.0	150.0	150.0	150.0	150.0	129.0	112.1	98.6	87.5	78.3	
54.0	27.0	150.0	150.0	150.0	147.4	125.8	109.0	95.6	84.8	75.8	
60.0	30.0	150.0	150.0	150.0	145.6	123.5	106.6	93.3	82.6	73.7	
66.0	33.0	150.0	150.0	150.0	145.0	122.3	105.1	91.6	80.8	72.0	
72.0	36.0	150.0	150.0	150.0	145.0	121.8	104.1	90.4	79.6	70.7	
78.0	39.0	150.0	150.0	150.0	145.0	121.8	103.8	89.7	78.7	69.8	
84.0	42.0	150.0	150.0	150.0	145.0	121.8	103.8	89.5	78.1	69.1	
90.0	45.0	150.0	150.0	150.0	145.0	121.8	103.8	89.5	78.0	68.7	
96.0	48.0	150.0	150.0	150.0	145.0	121.8	103.8	89.5	78.0	68.5	

NOTES FOR SINGLE WINDOW W/ TRANSOM
AND ANCHOR CLIP

1. THE DESIGN PRESSURES IN THIS CHART ARE FOR THE MULLIONS LISTED ABOVE WHEN USED WITH THE CLIP LISTED ABOVE.
2. INSTALLATION OF MULL SPLICE AND MULL CLIP SHALL FOLLOW REQUIREMENTS SPECIFIED ON SHEETS 2 & 3, RESPECTIVELY, AND ANCHOR SELECTION REQUIREMENTS OF SHEET 1.
3. CHART APPLIES ONLY TO 1100 HP EXTRUDED MULLION AS SPECIFIED ABOVE WHEN USED TO MULL WINDOWS ABOVE EACH OTHER
4. READ WINDOW HEIGHT AND MULL SPAN IN INCHES. DESIGN PRESSURE VALUES ON THIS CHART ARE POSITIVE AND NEGATIVE PSF.
5. DESIGN PRESSURE VALUES APPLY TO MULLION WHERE TWO OR MORE WINDOWS ARE LISTED IN A SINGLE OPENING.
6. REFER TO PER 5109 FOR MORE MULLION SPECIFICATIONS.

Maximum design pressure capacity chart (psf)
1100 HP Horizontal mullion, twin with transom
Design pressures are limited either by mullion or anchor screw or anchor clip capacity.

Height (in)		Unit width (in)																			
Window	Transom	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0			
24.0	12.0	150.0	150.0	150.0	150.0	150.0	149.8	136.5	125.2	115.4	99.7	87.7	78.3	70.7	64.5	59.3	54.8	51.0			
30.0	15.0	150.0	150.0	150.0	150.0	139.8	126.6	115.4	105.9	97.7	84.3	73.9	65.6	59.0	53.6	49.1	45.3	42.0			
36.0	18.0	150.0	150.0	150.0	135.9	121.8	110.3	100.5	92.3	85.2	73.6	64.5	57.2	51.3	46.4	42.4	39.0	36.1			
42.0	21.0	150.0	150.0	137.1	121.3	108.6	98.2	89.5	82.1	75.8	65.5	57.4	51.0	45.7	41.4	37.7	34.6	31.9			
48.0	24.0	150.0	143.7	124.9	110.3	98.6	89.0	81.0	74.3	68.5	59.2	51.9	46.1	41.4	37.4	34.1	31.3	28.9			
54.0	27.0	150.0	133.3	115.4	101.6	90.7	81.7	74.3	68.1	62.8	54.1	47.5	42.2	37.9	34.3	31.2	28.7	26.4			
60.0	30.0	148.7	125.2	108.0	94.8	84.3	75.9	68.9	63.1	58.1	50.1	43.9	38.9	34.9	31.6	28.9	26.5	24.2			
66.0	33.0	142.1	118.8	102.0	89.2	79.2	71.1	64.5	58.9	54.2	46.7	40.8	36.2	32.5	29.4	26.8	24.6	22.3			
72.0	36.0	137.1	113.8	97.2	84.7	75.0	67.2	60.8	55.5	51.0	43.8	38.3	34.0	30.5	27.6	25.1	23.1	20.6			
78.0	39.0	133.4	109.9	93.3	81.0	71.5	63.9	57.7	52.6	48.3	41.4	36.1	32.0	28.7	26.0	23.7	21.7	19.2			
84.0	42.0	130.9	106.9	90.2	77.9	68.5	61.1	55.1	50.1	45.9	39.3	34.3	30.3	27.2	24.6	22.4	20.5	18.0			
90.0	45.0	129.5	104.7	87.7	75.4	66.1	58.7	52.8	48.0	43.9	37.5	32.6	28.9	25.8	23.3	21.3	19.5	17.0			
96.0	48.0	129.0	103.1	85.8	73.4	64.0	56.8	50.9	46.2	42.2	35.9	31.2	27.6	24.6	22.2	20.3	18.4	16.1			

NOTES FOR TWIN WINDOW W/TRANSOM AND ANCHOR CLIP

1. THE DESIGN PRESSURES IN THIS CHART ARE FOR THE MULLIONS LISTED ABOVE WHEN USED WITH THE CLIP LISTED ABOVE.
2. INSTALLATION OF MULL SPLICE AND MULL CLIP SHALL FOLLOW REQUIREMENTS SPECIFIED ON SHEETS 2 & 3, RESPECTIVELY, AND ANCHOR SELECTION REQUIREMENTS OF SHEET 1.
3. FOR HORIZONTAL MULL STACK CLIPS IN ALUMINUM MULLION FRAME INSTALLATION USE (2) TWO #8 TEK SCREWS, GRADE 5 AT EACH ANCHOR CLIP WITH SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 3 THREAD PENETRATION BEYOND MULLION FRAME. SEE SHEET 2 FOR DETAILS.
4. CHART APPLIES ONLY TO 1100 HP EXTRUDED MULLION AS SPECIFIED ABOVE WHEN USED TO MULL WINDOWS ABOVE EACH OTHER.
5. READ WINDOW HEIGHT AND MULL SPAN IN INCHES. DESIGN PRESSURE VALUES ON THIS CHART ARE POSITIVE AND NEGATIVE PSF.
6. DESIGN PRESSURE VALUES APPLY TO MULLION WHERE TWO OR MORE WINDOWS ARE LISTED IN A SINGLE OPENING.
7. REFER TO PER 5109 FOR MORE MULLION SPECIFICATIONS.



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TITLE: 1100 HP HORIZONTAL
MULLION
DESIGN PRESSURE CHARTS

PREPARED BY:
BUILDING DROPS, INC.
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DANIA BEACH, FL 33004
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REVISIONS		BY	DATE
NO.	DESCRIPTION	MS	06.21.12
	ADD MULL CLIP OPTION	SM	08.04.14
	5TH EDITION FBC UPDATE	LWH	09.27.17
	UPDATED NOTES 6 & 7, SHEET 4		



DATE: 02.21.12
DWN BY: GRN
CHK BY: HFN
SCALE: NTS

DWG #: PGW127

SHEET: 4 OF 4