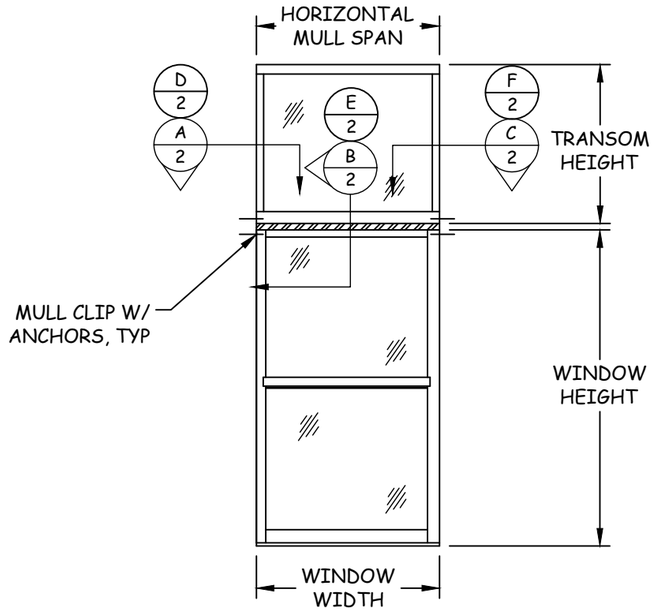
CROFT, LLC

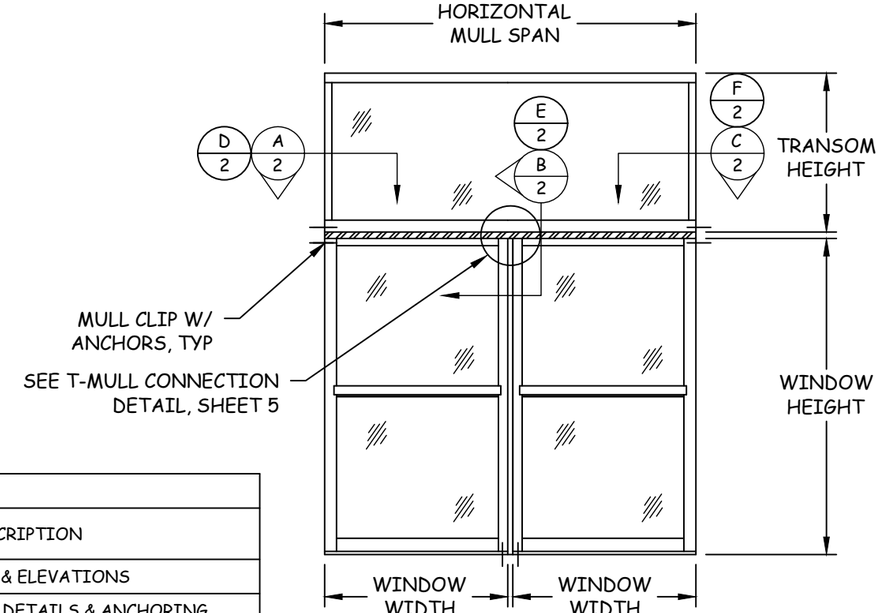
SERIES 9100 WOODBUCK MULLION AND SERIES 9100 MULLION-HEAVY DUTY (HORIZONTAL)

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 6TH EDITION FBC, SECTION 1709.8.
2. MULLION INSTALLATION DETAILS APPLY TO EXTRUDED MULLIONS WITH EXTRUDED ALUMINUM ANCHOR CLIP WHEN USED TO MULL WINDOWS SIDE BY SIDE
3. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED ON THESE PRODUCTS IN WIND BORNE DEBRIS REGIONS ZONE 3 OR LESS SUCH THAT ADJOINING WINDOWS ARE IMPACT RATED.
4. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED ON THESE PRODUCTS IN WIND BORNE DEBRIS REGION ZONE 4.
5. USE TWO (2) #10 WOOD SCREWS, PER CLIP, OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1 1/2" INTO WOOD FRAMING. (SEE INSTALLATION DETAILS ON SHEET 2).
6. USE TWO (2) 3⁄16" ITW TAPCONS, PER CLIP, OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1¾" INTO CONCRETE OR 1" WHEN INTO HOLLOW BLOCK CMU. (SEE INSTALLATION DETAILS ON SHEET 2).
7. USE ONE (1) ¼" ITW TAPCON, PER CLIP, OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1¾" WHEN ANCHORED INTO CONCRETE.
8. USE TWO (2) #10-16 SELF-DRILLING SCREWS, PER CLIP, OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 3 THREADS PENETRATION BEYOND STEEL SUBSTRATE. (SEE INSTALLATION DETAILS ON SHEET 2).
9. 2X WOOD BUCKS AND STEEL STUDS TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE AND IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
10. SEE CHARTS & NOTES ON SHEETS 3-5 FOR DESIGN PRESSURE RATINGS.
11. THIS MULLION IS ONLY VALID WHEN USED IN CONJUNCTION WITH ALL APPLICABLE CROFT, LLC PRODUCTS.
12. ALL WINDOWS USED WITH THIS MULLION SHALL BE QUALIFIED UNDER SEPARATE APPROVAL. THE LESSER DESIGN PRESSURE RATING OF THE WINDOW OR THE MULLION OF INSTALLATION SHALL GOVERN THE OVERALL DESIGN PRESSURE OF THE ASSEMBLY.
13. MULLION MATERIAL: 6063-T5 ALUMINUM.
14. CLIP MATERIAL: 6063-T5 ALUMINUM.
15. 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. CMU - SHALL CONFORM TO MINIMUM REQUIREMENTS OF ASTM C90
    D. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.



HORIZONTAL MULLION FOR STACKED WINDOWS



HORIZONTAL MULLION FOR T-MULL CONFIGURATION

TABLE OF CONTENTS

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2017.08.18 12:20:19 -04'00'

Est. 1920 CROFT
P.O. BOX 826
MCCOMB, MS 39649
PH: 601-684-6121 FX: 601-783-3188

TITLE: SERIES 9000 HORIZONTAL MULLIONS
GENERAL NOTES AND ELEVATIONS

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

REVISIONS

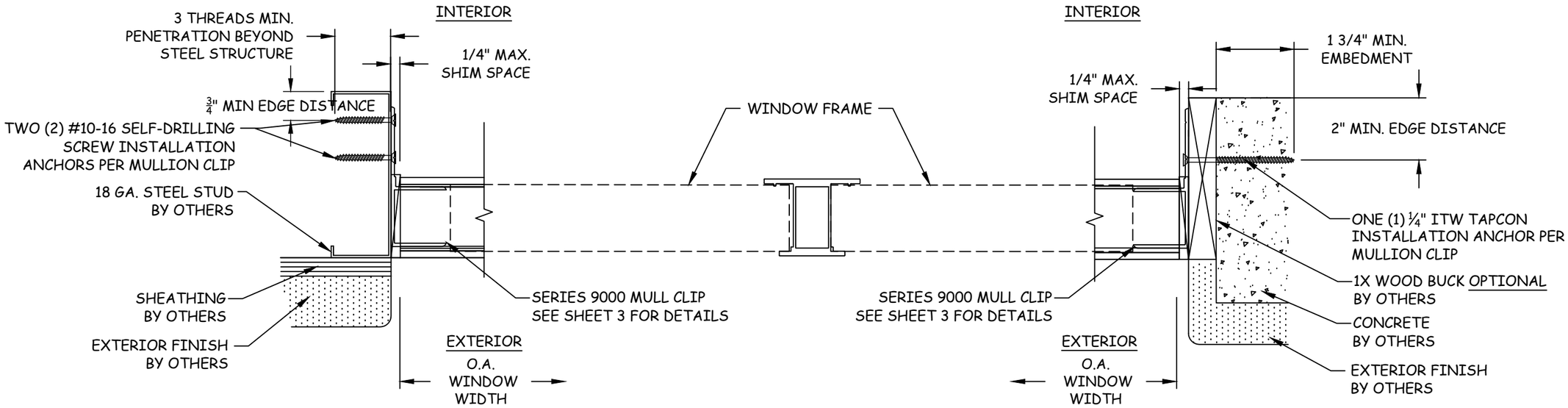
NO.	DESCRIPTION	BY	DATE
A	REVISION TO MULLIONS & CLIPS	MTJ	6.3.13
B	5TH EDITION FBC UPDATE	SM	9.9.14
C	6TH EDITION FBC UPDATE	HR	6.21.17

HERMES F. NORERO — STATE OF FLORIDA — PROFESSIONAL ENGINEER — LICENSE No. 73778
HERMES F. NORERO, FLORIDA P.E. No. 73778
398 EAST DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

DATE: 04.18.12
DWN BY: MSS
CHK BY: HFN
SCALE: NTS

DWG #: CRF012

SHEET: 1 OF 5

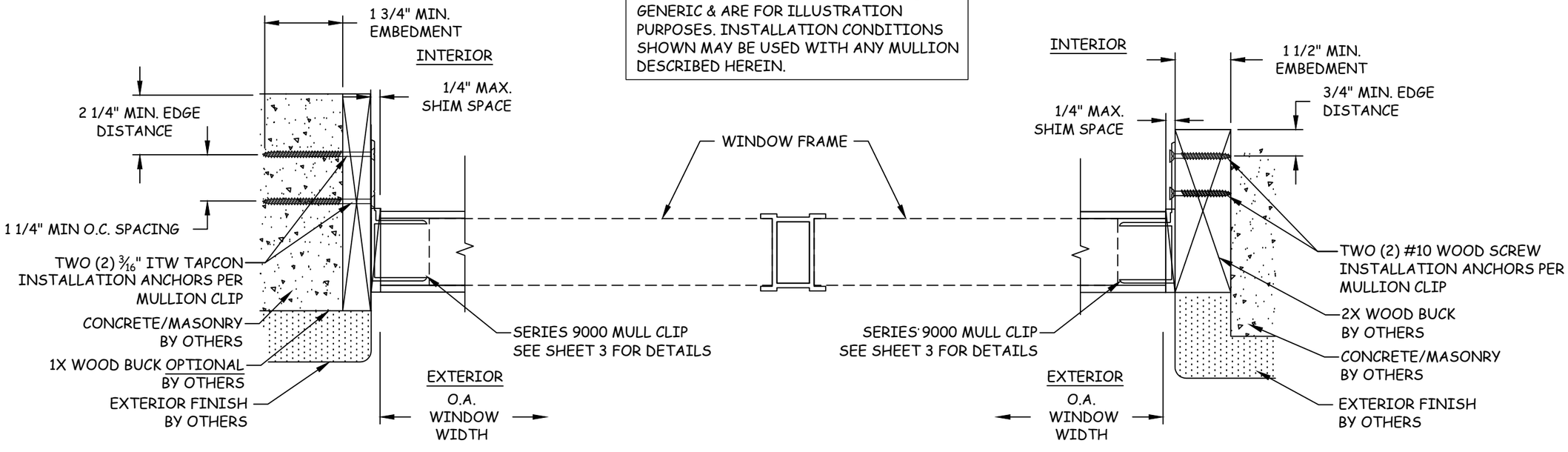


A/2 HORIZONTAL SECTION
JAMB - STEEL STUD TYP.
SERIES 9100 WOODBUCK MULL

B/2 VERTICAL SECTION
SERIES 9100 WOODBUCK MULL

C/2 HORIZONTAL SECTION
JAMB - 1X/CONCRETE TYP.
SERIES 9100 WOODBUCK MULL

NOTE:
INSTALLATION DETAILS SHOWN ARE GENERIC & ARE FOR ILLUSTRATION PURPOSES. INSTALLATION CONDITIONS SHOWN MAY BE USED WITH ANY MULLION DESCRIBED HEREIN.



D/2 HORIZONTAL SECTION
JAMB - 1X/CONCRETE/MASONRY TYP.
SERIES 9100 MULL-HEAVY DUTY

E/2 VERTICAL SECTION
SERIES 9100 MULL-HEAVY DUTY

F/2 HORIZONTAL SECTION
JAMB - 2X WOOD BUCK TYP.
SERIES 9100 MULL-HEAVY DUTY

CROFT
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MCCOMB, MS 39649
PH: 601-684-6121 FX: 601-783-3188

TITLE: SERIES 9000 HORIZONTAL MULLIONS
MULLION INSTALLATION DETAILS & ANCHORING

PREPARED BY:
BUILDING DROPS, INC.
398 EAST DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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REVISIONS

NO.	DESCRIPTION	BY	DATE
A	REVISION TO MULLIONS & CLIPS	MTJ	6.3.13

HERMES F. NORERO
LICENSE No. 73778
STATE OF FLORIDA
PROFESSIONAL ENGINEER
HERMES F. NORERO
FLORIDA LICENSE NO. 73778
398 EAST DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

DATE: 04.18.12
DWN BY: MSS
CHK BY: HFN
SCALE: NTS

DWG #: CRF012

SHEET: 2 OF 5

SERIES 9100 WOODBUCK MULL DESIGN PRESSURE CHART

Maximum design pressure capacity chart

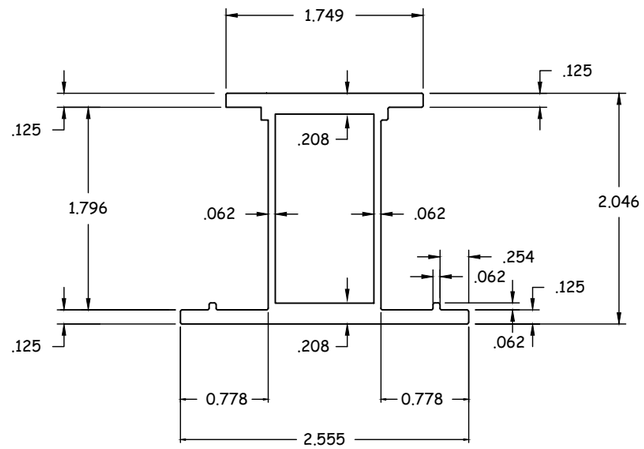
Series 9100 Woodbuck Horizontal Mullion - Stacked Windows

Design pressures are limited either by mullion or anchor screw or anchor clip capacity.

Height (in) Window	Height (in) Transom	Unit width (in) 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	143.0	130.7	114.4
30.0	15.0	150.0	150.0	150.0	150.0	150.0	138.1	124.1	109.9	95.1
36.0	18.0	150.0	150.0	150.0	150.0	145.2	127.1	113.0	96.9	83.2
42.0	21.0	150.0	150.0	150.0	150.0	139.2	121.2	106.7	89.2	75.8
48.0	24.0	150.0	150.0	150.0	150.0	134.5	116.9	102.1	85.0	71.5
54.0	27.0	150.0	150.0	150.0	150.0	131.2	113.7	98.4	81.7	68.8
60.0	30.0	150.0	150.0	150.0	150.0	128.9	111.2	95.4	79.1	66.5
66.0	33.0	150.0	150.0	150.0	150.0	127.5	109.6	93.1	77.0	64.6
72.0	36.0	150.0	150.0	150.0	150.0	127.1	108.6	91.4	75.4	63.1
78.0	39.0	150.0	150.0	150.0	150.0	127.1	108.3	90.4	74.2	61.9
84.0	42.0	150.0	150.0	150.0	150.0	127.1	108.3	90.1	73.5	61.0
90.0	45.0	150.0	150.0	150.0	150.0	127.1	108.3	90.1	73.2	60.5
96.0	48.0	150.0	150.0	150.0	150.0	127.1	108.3	90.1	73.2	60.4

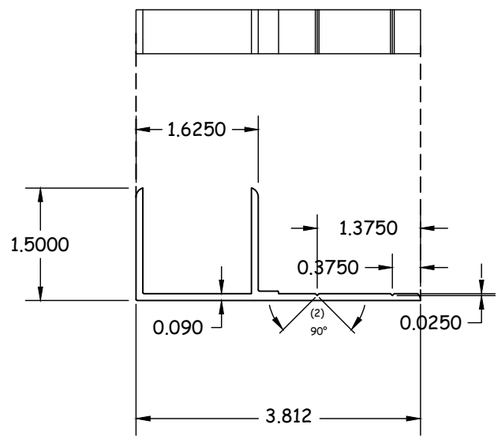
NOTES FOR SERIES 9100 WOODBUCK MULLION FOR STACK WINDOW AND MULLION CLIP INSTALLATIONS

1. THE DESIGN PRESSURES IN THIS CHART ARE FOR THE MULLIONS LISTED ABOVE WHEN USED WITH THE CLIP LISTED ABOVE.
2. FOR HORIZONTAL MULL CLIPS IN WOOD FRAMING INSTALLATION USE TWO (2) #10 WOOD SCREWS AT EACH MULLION CLIP. ANCHORS MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A 1 1/2" MINIMUM EMBEDMENT INTO FRAMING. SEE SHEET 2 FOR DETAILS.
3. FOR HORIZONTAL MULL CLIPS IN STEEL FRAME INSTALLATION, USE (2) TWO #10-16 SELF-DRILLING SCREWS AT EACH ANCHOR CLIP WITH SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 3 THREAD PENETRATION BEYOND STEEL SUBSTRATE. SEE SHEET 2 FOR DETAILS.
4. FOR HORIZONTAL MULL CLIPS IN CONCRETE OR CMU INSTALLATION USE TWO (2) 3/16" ITW TAPCONS AT EACH MULLION CLIP. ANCHORS MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A 1" MINIMUM EMBEDMENT INTO CMU (HOLLOW BLOCK) OR 1 3/4" EMBEDMENT INTO CONCRETE. SEE SHEET 2 FOR DETAILS. FOR ALTERNATE INSTALLATION TO CONCRETE, SEE NOTE 5 BELOW.
5. FOR HORIZONTAL MULL CLIPS IN CONCRETE INSTALLATION USE ONE (1) 1/4" ITW TAPCON AT EACH MULLION CLIP. ANCHORS MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" EMBEDMENT INTO CONCRETE. SEE SHEET 2 FOR DETAILS.
6. CHART APPLIES ONLY TO SERIES 9100 WOODBUCK MULLION AS SPECIFIED ABOVE WHEN USED TO MULL WINDOWS STACKED ONE ABOVE THE OTHER.
7. READ WINDOW HEIGHT AND MULL SPAN IN INCHES. DESIGN PRESSURE VALUES ON THIS CHART ARE POSITIVE AND NEGATIVE POUNDS PER SQUARE FOOT (PSF).
8. DESIGN PRESSURE VALUES APPLY TO MULLION WHERE TWO OR MORE WINDOWS ARE LISTED IN A SINGLE OPENING. LESSER DESIGN PRESSURE OF INDIVIDUAL WINDOW OR MULLION OF INSTALLATION SHALL GOVERN.
9. REFER TO EVALUATION REPORT# 4918 FOR MORE MULLION SPECIFICATIONS.



SERIES 9100 WOODBUCK MULL DETAIL

TOP VIEW



SERIES 9000 MULLION CLIP DETAIL

FOR USE WITH ALL SERIES 9000 MULLIONS

CROFT
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PH: 601-684-6121 FX: 601-783-3188

TITLE: SERIES 9000 HORIZONTAL MULLIONS
SERIES 9100 WOODBUCK MULL DP CHART & DETAILS

PREPARED BY:
BUILDING DROPS, INC.
398 EAST DANIA BEACH BLVD., STE. 338
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REVISIONS

NO.	DESCRIPTION	BY	DATE
A	REVISION TO MULLIONS & CLIPS	MTJ	6.3.13
B	REV. TO MULL WALL THICKNESS	MSS	11.7.13

HERMES F. NORERO PROFESSIONAL ENGINEER STATE OF FLORIDA No. 73778 LICENSE
HERMES F. NORERO FLORIDA P.E. NO. 73778
398 EAST DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

DATE: 04.18.12
DWN BY: MSS
CHK BY: HFN
SCALE: NTS

DWG #: CRF012

SHEET: 3 OF 5

SERIES 9100 MULLION-HEAVY DUTY DESIGN PRESSURE CHARTS

Maximum design pressure capacity chart

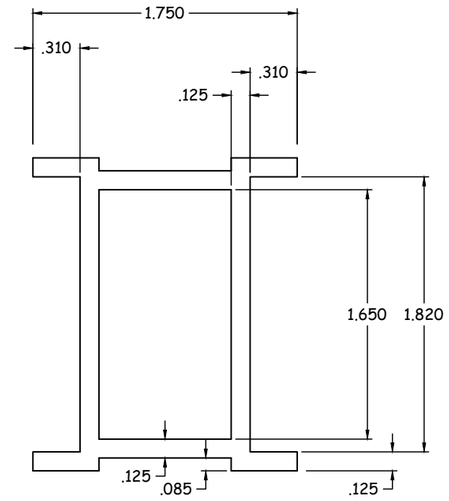
Series 9100 Horizontal Mullion - Heavy Duty - Stacked Windows

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	146.6	124.6	107.3	93.5
30.0	***15.0***	150.0	150.0	150.0	150.0	150.0	124.6	105.0	89.7	77.7
36.0	***18.0***	150.0	150.0	150.0	150.0	138.5	112.5	93.5	79.1	68.0
42.0	***21.0***	150.0	150.0	150.0	150.0	131.6	106.3	87.2	72.8	61.9
48.0	***24.0***	150.0	150.0	150.0	150.0	126.2	101.7	83.4	69.4	58.4
54.0	***27.0***	150.0	150.0	150.0	150.0	122.1	98.2	80.4	66.8	56.2
60.0	***30.0***	150.0	150.0	150.0	150.0	119.2	95.4	77.9	64.6	54.3
66.0	***33.0***	150.0	150.0	150.0	150.0	117.4	93.5	76.0	62.9	52.8
72.0	***36.0***	150.0	150.0	150.0	150.0	116.8	92.3	74.7	61.5	51.5
78.0	***39.0***	150.0	150.0	150.0	150.0	116.8	91.9	73.9	60.6	50.5
84.0	***42.0***	150.0	150.0	150.0	150.0	116.8	91.9	73.6	60.0	49.9
90.0	***45.0***	150.0	150.0	150.0	150.0	116.8	91.9	73.6	59.8	49.4
96.0	***48.0***	150.0	150.0	150.0	150.0	116.8	91.9	73.6	59.8	49.3

NOTES FOR SERIES 9100 MULLION-HEAVY DUTY FOR STACK WINDOW AND MULLION CLIP INSTALLATIONS

1. THE DESIGN PRESSURES IN THIS CHART ARE FOR THE MULLIONS LISTED ABOVE WHEN USED WITH THE CLIP LISTED ABOVE.
2. FOR HORIZONTAL MULL CLIPS IN WOOD FRAMING INSTALLATION USE TWO (2) #10 WOOD SCREWS AT EACH MULLION CLIP. ANCHORS MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A 1 1/2" MINIMUM EMBEDMENT INTO FRAMING. SEE SHEET 2 FOR DETAILS.
3. FOR HORIZONTAL MULL CLIPS IN STEEL FRAME INSTALLATION, USE (2) TWO #10-16 SELF-DRILLING SCREWS AT EACH ANCHOR CLIP WITH SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 3 THREAD PENETRATION BEYOND STEEL SUBSTRATE. SEE SHEET 2 FOR DETAILS.
4. FOR HORIZONTAL MULL CLIPS IN CONCRETE OR CMU INSTALLATION USE TWO (2) 3/16" ITW TAPCONS AT EACH MULLION CLIP. ANCHORS MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A 1" MINIMUM EMBEDMENT INTO CMU (HOLLOW BLOCK) OR 1 3/4" EMBEDMENT INTO CONCRETE. SEE SHEET 2 FOR DETAILS. FOR ALTERNATE INSTALLATION TO CONCRETE, SEE NOTE 5 BELOW.
5. FOR HORIZONTAL MULL CLIPS IN CONCRETE INSTALLATION USE ONE (1) 1/4" ITW TAPCON AT EACH MULLION CLIP. ANCHORS MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" EMBEDMENT INTO CONCRETE. SEE SHEET 2 FOR DETAILS.
6. CHART APPLIES ONLY TO SERIES 9100 HEAVY DUTY MULLION AS SPECIFIED ABOVE WHEN USED TO MULL WINDOWS STACKED ONE ABOVE THE OTHER.
7. READ WINDOW HEIGHT AND MULL SPAN IN INCHES. DESIGN PRESSURE VALUES ON THIS CHART ARE POSITIVE AND NEGATIVE POUNDS PER SQUARE FOOT (PSF).
8. DESIGN PRESSURE VALUES APPLY TO MULLION WHERE TWO OR MORE WINDOWS ARE LISTED IN A SINGLE OPENING. LESSER DESIGN PRESSURE OF INDIVIDUAL WINDOW OR MULLION OF INSTALLATION SHALL GOVERN.
9. REFER TO EVALUATION REPORT# 4918 FOR MORE MULLION SPECIFICATIONS.



SERIES 9100 MULLION-HEAVY DUTY DETAIL

CROFT
Est. 1920
P.O. BOX 826
MCCOMB, MS 39649
PH: 601-684-6121 FX: 601-783-3188

TITLE: SERIES 9000 HORIZONTAL MULLIONS
SERIES 9100 MULLION-HEAVY DUTY DP CHART & DETAIL

PREPARED BY:
BUILDING DROPS, INC.
398 EAST DANIA BEACH BLVD., STE. 338
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REVISIONS

NO.	DESCRIPTION	BY	DATE
A	REVISION TO MULLIONS & CLIPS	MTJ	6.3.13

JAMES F. NORERO
LICENSE No. 73778
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JAMES F. NORERO
FLORIDA LICENSE NO. 73778
398 EAST DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

DATE: 04.18.12
DWN BY: MSS
CHK BY: HFN
SCALE: NTS

DWG #: CRF012

SHEET: 4 OF 5

SERIES 9100 MULLION-HEAVY DUTY DESIGN PRESSURE CHARTS

Maximum design pressure capacity chart (psf)

Series 9100 Horizontal Mullion - Heavy Duty - T-Mullion Configuration

Design pressures are limited either by mullion or anchor screw or anchor clip capacity.

Height (in) Window	Height (in) Transom	Unit width (in) 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	150.0	142.4	130.6	120.4	104.0	91.5	80.2	67.2	57.1	49.2	42.8	37.5
30.0	***15.0***	150.0	150.0	150.0	150.0	145.8	132.0	120.4	110.5	101.9	88.0	77.0	64.7	54.2	46.0	39.6	34.4	30.2
36.0	***18.0***	150.0	150.0	150.0	141.7	127.1	115.0	104.9	96.2	88.8	76.7	66.0	54.3	45.5	38.6	33.2	28.8	25.3
42.0	***21.0***	150.0	150.0	143.0	126.5	113.3	102.4	93.4	85.7	79.0	68.3	57.1	46.9	39.2	33.3	28.6	24.9	21.8
48.0	***24.0***	150.0	149.8	130.2	115.0	102.8	92.8	84.5	77.5	71.5	61.7	50.4	41.4	34.6	29.3	25.2	21.9	19.2
54.0	***27.0***	150.0	139.0	120.4	106.0	94.6	85.3	77.5	71.0	65.5	56.3	45.2	37.1	31.0	26.3	22.5	19.6	17.1
60.0	***30.0***	150.0	130.6	112.6	98.8	88.0	79.2	71.9	65.8	60.6	51.2	41.1	33.7	28.1	23.8	20.4	17.7	15.5
66.0	***33.0***	148.2	124.0	106.4	93.1	82.6	74.2	67.3	61.5	56.6	47.0	37.7	30.9	25.7	21.8	18.7	16.2	14.2
72.0	***36.0***	143.0	118.7	101.4	88.3	78.2	70.1	63.4	57.9	53.2	43.6	34.9	28.5	23.8	20.1	17.2	14.9	13.1
78.0	***39.0***	139.2	114.6	97.3	84.5	74.5	66.6	60.2	54.8	50.3	40.6	32.5	26.5	22.1	18.7	16.0	13.9	12.1
84.0	***42.0***	136.6	111.5	94.1	81.3	71.5	63.7	57.5	52.3	47.9	38.1	30.4	24.9	20.7	17.5	15.0	13.0	11.3
90.0	***45.0***	135.0	109.2	91.5	78.7	68.9	61.3	55.1	50.0	45.8	36.0	28.7	23.4	19.5	16.4	14.1	12.2	10.6
96.0	***48.0***	134.5	107.6	89.5	76.5	66.8	59.2	53.1	48.1	44.0	34.1	27.1	22.1	18.4	15.5	13.3	11.5	10.0

NOTES FOR SERIES 9100 MULLION-HEAVY DUTY FOR T-MULLION CONFIGURATIONS AND MULLION CLIP INSTALLATIONS

1. THE DESIGN PRESSURES IN THIS CHART ARE FOR THE MULLIONS LISTED ABOVE WHEN USED WITH THE CLIP LISTED ABOVE.
2. FOR HORIZONTAL MULL CLIPS IN WOOD FRAMING INSTALLATION USE TWO (2) #10 WOOD SCREWS AT EACH MULLION CLIP. ANCHORS MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A 1 1/2" MINIMUM EMBEDMENT INTO FRAMING. SEE SHEET 2 FOR DETAILS.
3. FOR HORIZONTAL MULL CLIPS IN STEEL FRAME INSTALLATION, USE (2) TWO #10-16 SELF-DRILLING SCREWS AT EACH ANCHOR CLIP WITH SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 3 THREAD PENETRATION BEYOND STEEL SUBSTRATE. SEE SHEET 2 FOR DETAILS.
4. FOR HORIZONTAL MULL CLIPS IN CONCRETE OR CMU INSTALLATION USE TWO (2) 3/16" ITW TAPCONS AT EACH MULLION CLIP. ANCHORS MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A 1" MINIMUM EMBEDMENT INTO CMU (HOLLOW BLOCK) OR 1 3/4" EMBEDMENT INTO CONCRETE. SEE SHEET 2 FOR DETAILS. FOR ALTERNATE INSTALLATION TO CONCRETE, SEE NOTE 5 BELOW.
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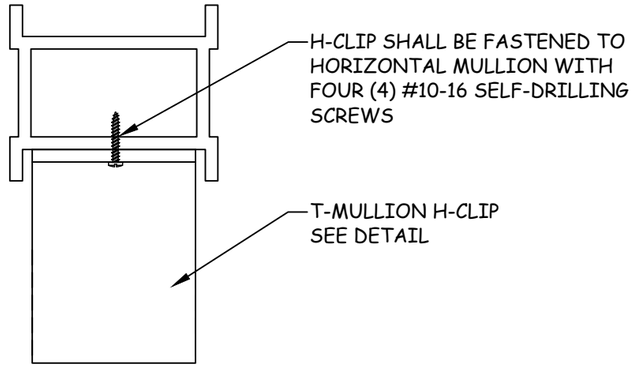
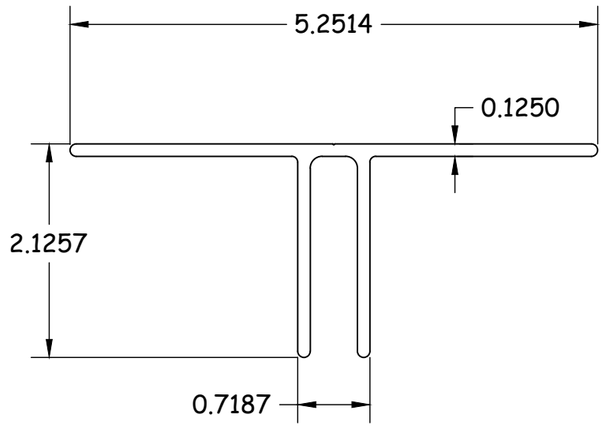
6. CHART APPLIES ONLY TO SERIES 9100 MULLION-HEAVY DUTY AS SPECIFIED ABOVE WHEN USED TO MULL TRANSOM WINDOWS STACKED ABOVE TWIN WINDOWS IN T-MULLION CONFIGURATION.
7. READ WINDOW HEIGHT AND MULL SPAN IN INCHES. DESIGN PRESSURE VALUES ON THIS CHART ARE POSITIVE AND NEGATIVE POUNDS PER SQUARE FOOT (PSF).
8. DESIGN PRESSURE VALUES APPLY TO MULLION WHERE TWO OR MORE WINDOWS ARE LISTED IN A SINGLE OPENING. LESSER DESIGN PRESSURE OF INDIVIDUAL WINDOW OR MULLION OF INSTALLATION SHALL GOVERN.
9. REFER TO EVALUATION REPORT# 4918 FOR MORE MULLION SPECIFICATIONS.



T-MULL CONNECTION



T-MULLION H-CLIP DETAIL

CROFT
Est. 1920
P.O. BOX 826
MCCOMB, MS 39649
PH: 601-684-6121 FX: 601-783-3188

TITLE: SERIES 9000 HORIZONTAL MULLIONS
SERIES 9100 MULL-HEAVY DUTY
DP CHART & DETAILS

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

REVISIONS

NO.	DESCRIPTION	BY	DATE
A	REVISION TO MULLIONS & CLIPS	MTJ	6.3.13

HERMES F. NORERO LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
HERMES F. NORERO FLORIDA LICENSE NO. 73778
398 EAST DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION NO. 29578

DATE: 04.18.12
DWN BY: MSS
CHK BY: HFN
SCALE: NTS

DWG #: CRF012

SHEET: 5 OF 5