

ANDERSEN CORPORATION

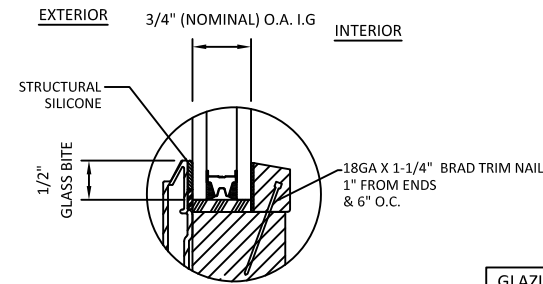
E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT)



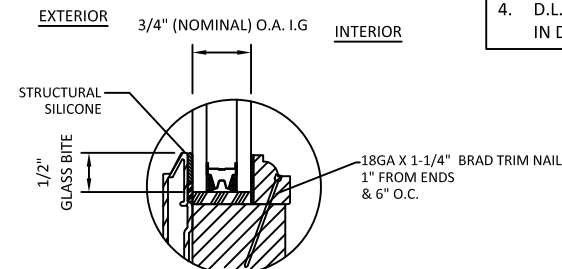
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/I.S.2/A440-17
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND METAL STUD 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.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 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.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW FRAME MATERIAL: *ALUMINUM CLAD & WOOD.*
- MULLION MATERIAL: LAMINATED VENEER LUMBER.
- GLASS SHALL MEET THE REQUIREMENTS OF ASTM E1300. SEE SHEET 1 FOR GLAZING DETAILS.
- DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
X: OPERABLE PANEL
O: FIXED PANEL
- CUSTOM SIZES AVAILABLE UPON REQUEST. CUSTOM DESIGN PRESSURE WILL BE ASSIGNED EQUAL TO NEXT LARGER STANDARD SIZE.



GLAZING DETAIL G1
SHOWN WITH COLONIAL GLASS STOP



GLAZING DETAIL G2
SHOWN WITH CONTEMPORARY GLASS STOP

GLAZING NOTES:

- GLASS TYPE & THICKNESS SHALL COMPLY WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
- SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
- SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
- D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN DESIGN PRESSURE TABLES ON SHEET 1.

WINDOW TYPE	OVERALL FRAME SIZE		OVERALL D.L.O. DIMENSION		GLASS TYPE	DESIGN PRESSURE (PSF)	
	WIDTH (IN.)	HEIGHT (IN.)	WIDTH (IN.)	HEIGHT (IN.)		POS.	NEG.
FIXED	72.0	96.0	65.87	89.87	G1, G2	+80	-80
FIXED	54.0	120.0	47.87	113.87	G1, G2	+80	-80

NOTE:
NAILING FLANGE INSTALLATIONS ARE LIMITED TO INDIVIDUAL UNITS OR ASSEMBLIES EQUAL TO OR LESS THAN +50/-50 AND EQUAL TO OR LESS THAN 30 SQUARE FEET.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES & GLAZING DETAILS
2	ELEVATIONS & QUALIFIED CONFIGURATIONS
3	MULLED ELEVATIONS
4	ANCHOR LAYOUTS
5	MULLED ANCHOR LAYOUTS
6	VERTICAL SECTIONS
7	MULLED VERTICAL SECTIONS
8	HORIZONTAL SECTIONS
9	MULLED HORIZONTAL SECTIONS
10	ANCHOR DETAILS
11	ZERO MULLION LOADS TABLE - ONE WAY
12	ZERO MULLION LOADS TABLE - TWO WAY
13	1/2" x 3-1/2" MULLION LOADS TABLE - ONE WAY
14	1/2" x 3-1/2" MULLION LOADS TABLE - TWO WAY
15	1/2" x 5-3/16" MULLION LOADS TABLE - ONE WAY
16	1/2" x 5-3/16" MULLION LOADS TABLE - TWO WAY
17	3/4" x 3-1/2" MULLION LOADS TABLE - ONE WAY
18	3/4" x 3-1/2" MULLION LOADS TABLE - TWO WAY
19	3/4" x 5-3/16" MULLION LOADS TABLE - ONE WAY
20	3/4" x 5-3/16" MULLION LOADS TABLE - TWO WAY
21	1" x 3-1/2" MULLION LOADS TABLE - ONE WAY
22	1" x 3-1/2" MULLION LOADS TABLE - TWO WAY
23	1" x 5-3/16" MULLION LOADS TABLE - ONE WAY
24	1" x 5-3/16" MULLION LOADS TABLE - TWO WAY
25	2" x 3-1/2" MULLION LOADS TABLE - ONE WAY
26	2" x 3-1/2" MULLION LOADS TABLE - TWO WAY
27	2" x 5-3/16" MULLION LOADS TABLE - ONE WAY
28	2" x 5-3/16" MULLION LOADS TABLE - TWO WAY

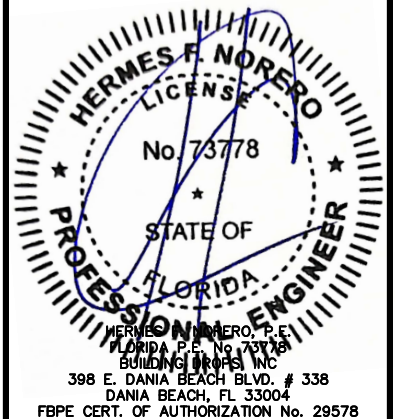
TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT)

GENERAL NOTES & GLAZING DETAIL

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

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.



FL #:

FL24230

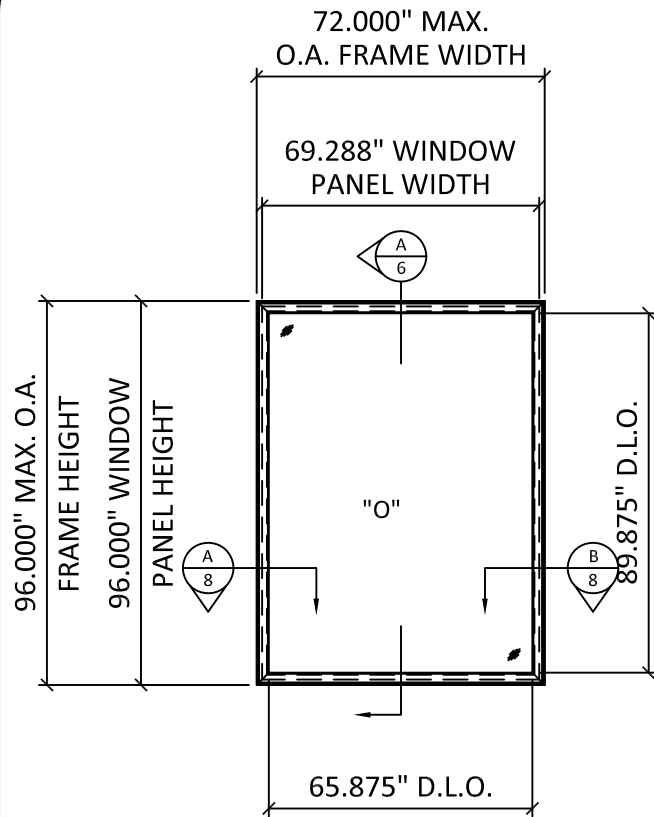
DATE: **10.12.17**

DWG. BY: **RV** CHK. BY: **HFN**

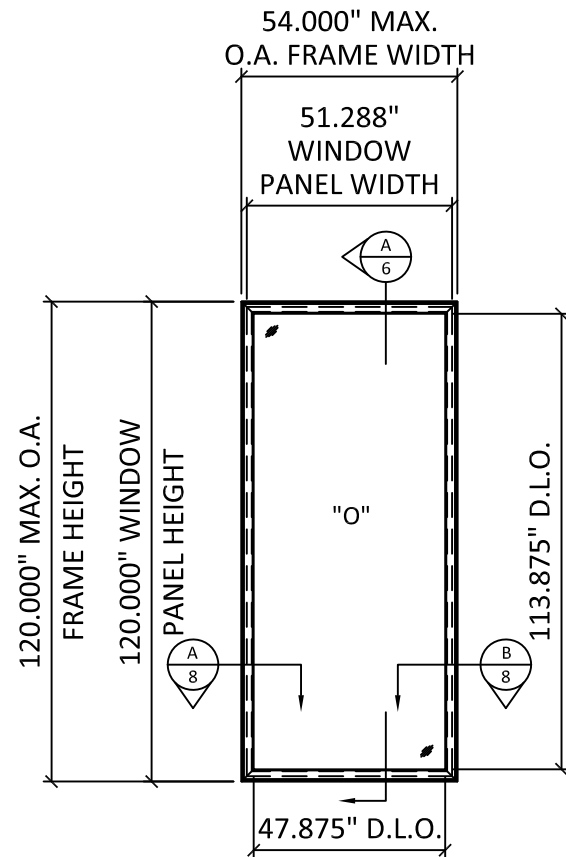
SCALE: **NTS**

DWG. #: **AWD211**

SHEET:



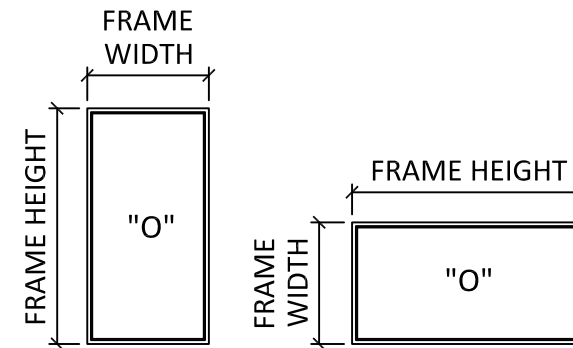
ELEVATION
SINGLE UNIT



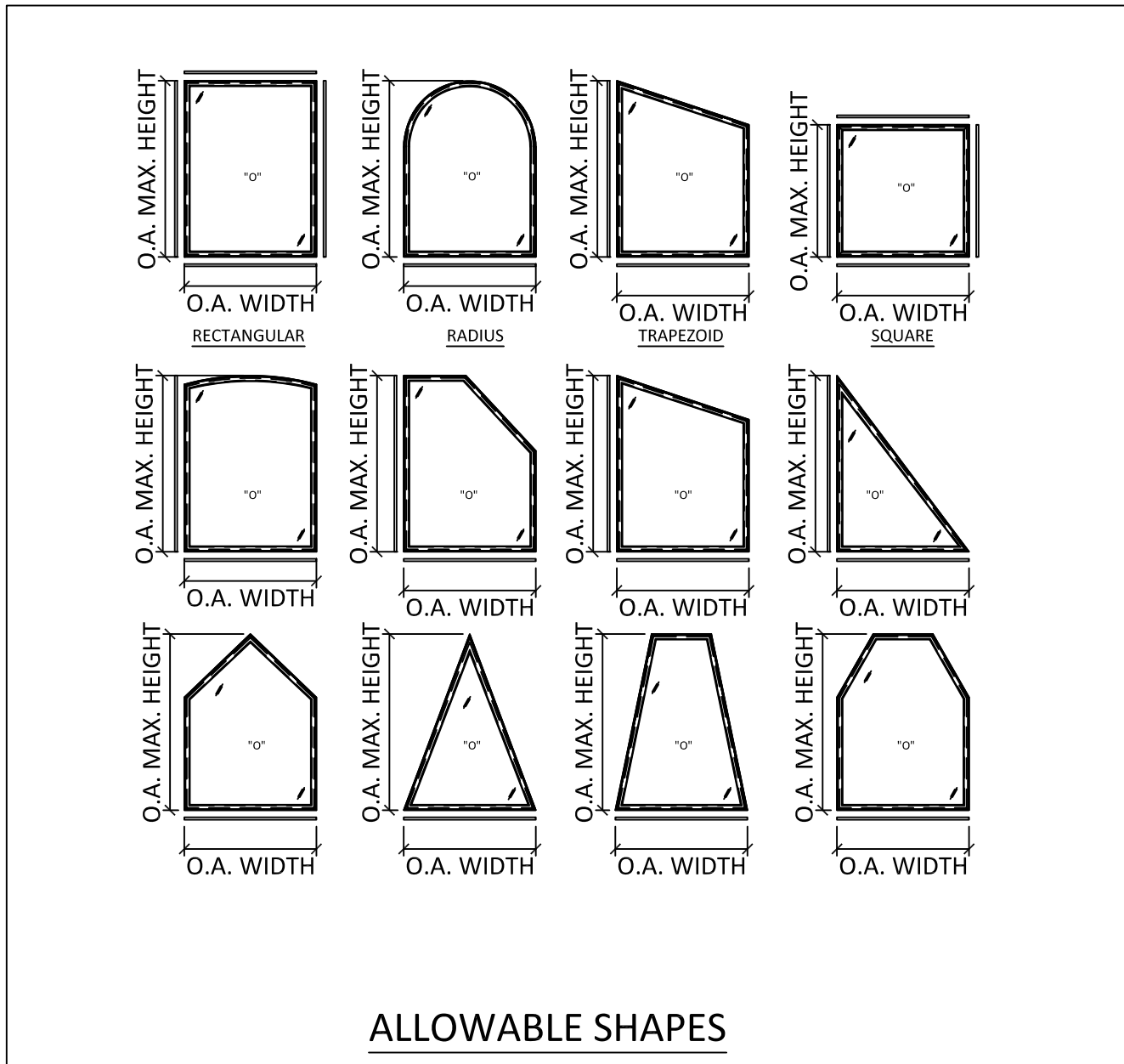
ELEVATION
SINGLE UNIT

NOTE:
SEE NOTE 2 FOR SIZE RESTRICTIONS

- NOTE:
1. THE ARCHITECT OR ENGINEER OF RECORD MUST ENGINEER THE BUCK AND FRAME ANCHORING FOR THE GEOMETRIC SHAPES THAT DO NOT HAVE ANCHORING SHOWN IN THIS DRAWING.
 2. GEOMETRIC SHAPES MUST FIT WITHIN THE BOUNDING BOX DIMENSIONS OF 72" x 96" OR 96" x 72" OR 54" X 120" OR 120" X 54".
 3. WHEN MULLING THE RECTANGULAR OR SQUARE SERIES 13 TO A GEOMETRIC SHAPE, ONLY MULL TO THE SIDE DESIGNATED BY AS SHOWN ON THIS SHEET.



NOTE:
WINDOW WIDTH AND HEIGHT ARE INTERCHANGEABLE FOR ALL SIZES SHOWN HEREIN NOT TO EXCEED MAXIMUM QUALIFIED SQUARE FOOT AREA.



ALLOWABLE SHAPES



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

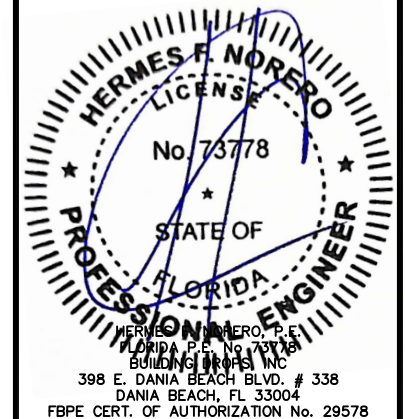
TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT) ELEVATIONS AND QUALIFIED CONFIGURATIONS

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

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.



FL #:	FL24230
DATE:	10.12.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD211
SHEET:	2



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

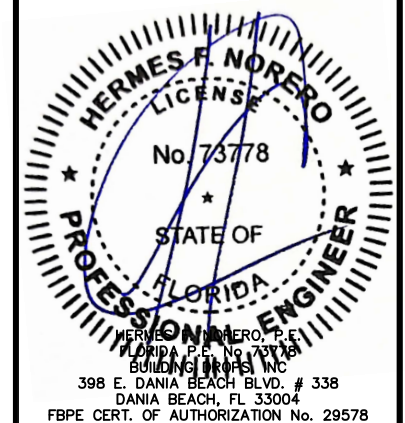
TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT) MULLED ELEVATIONS

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

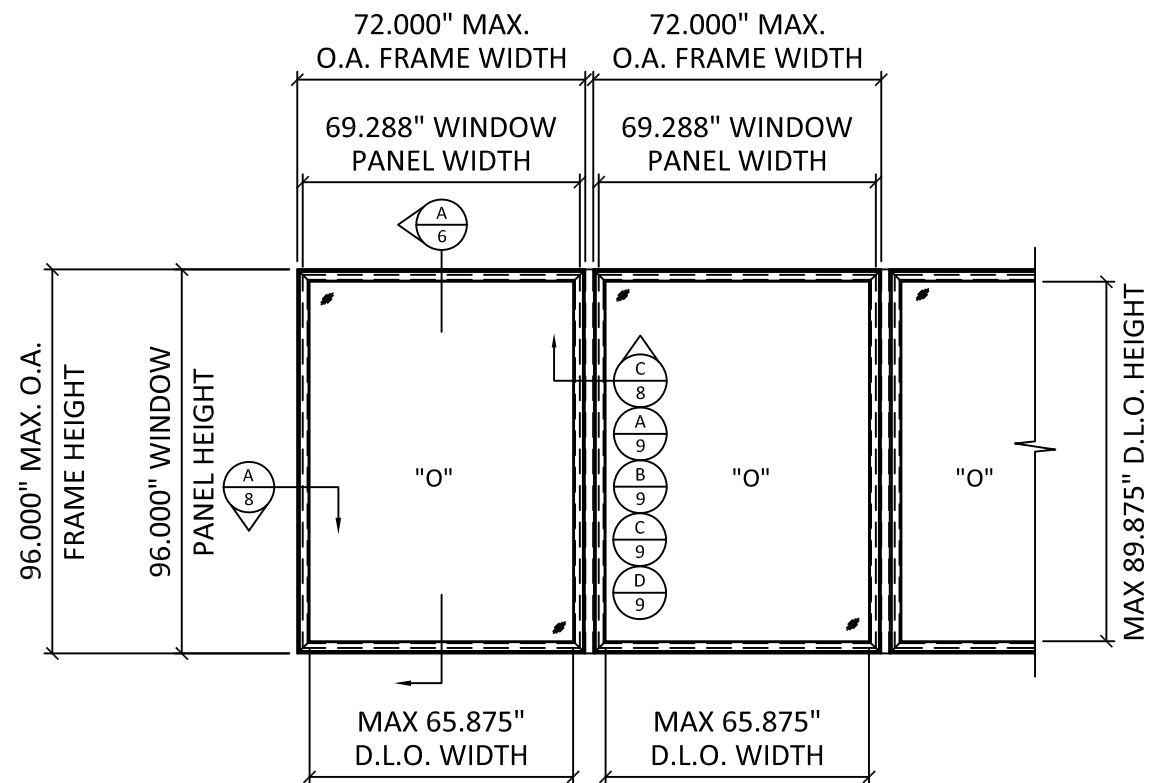
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



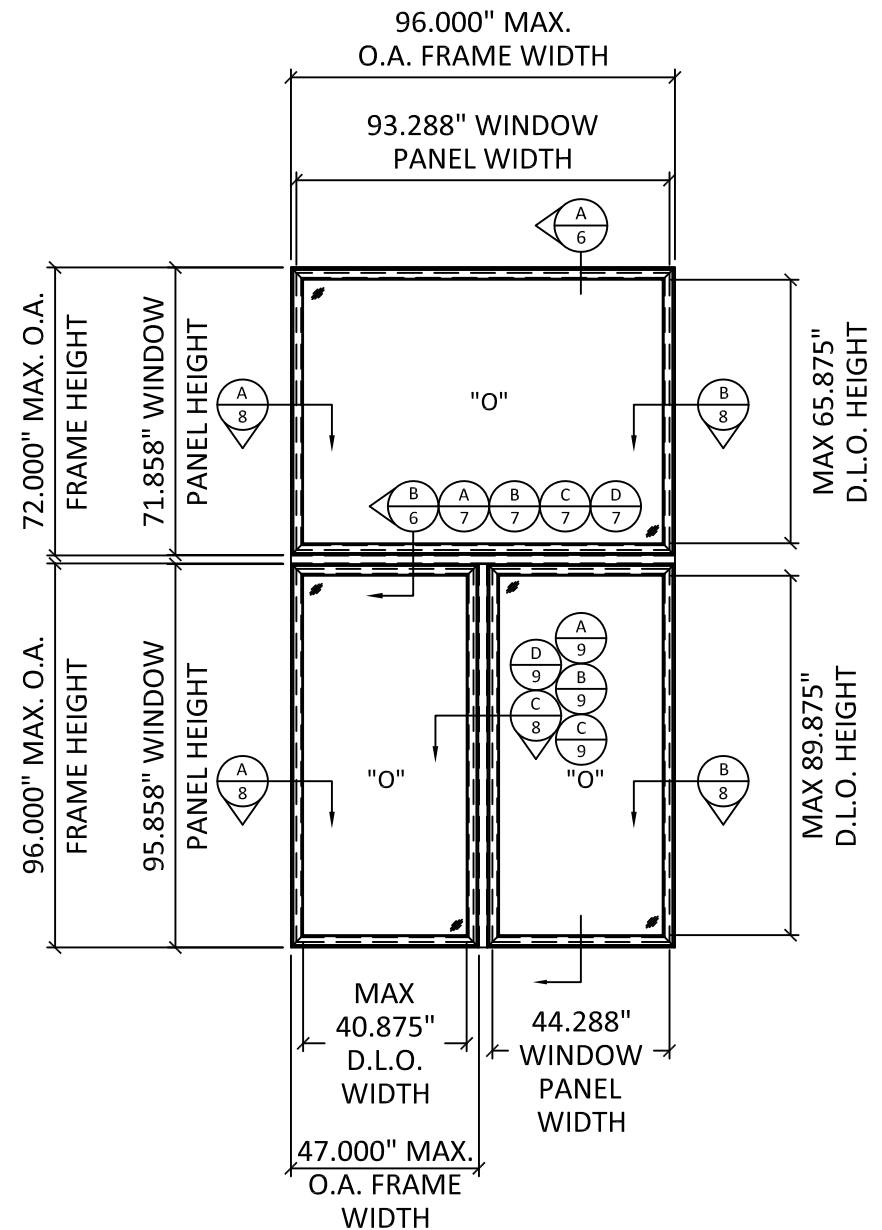
FL #:	FL24230
DATE:	10.12.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD211
SHEET:	

3

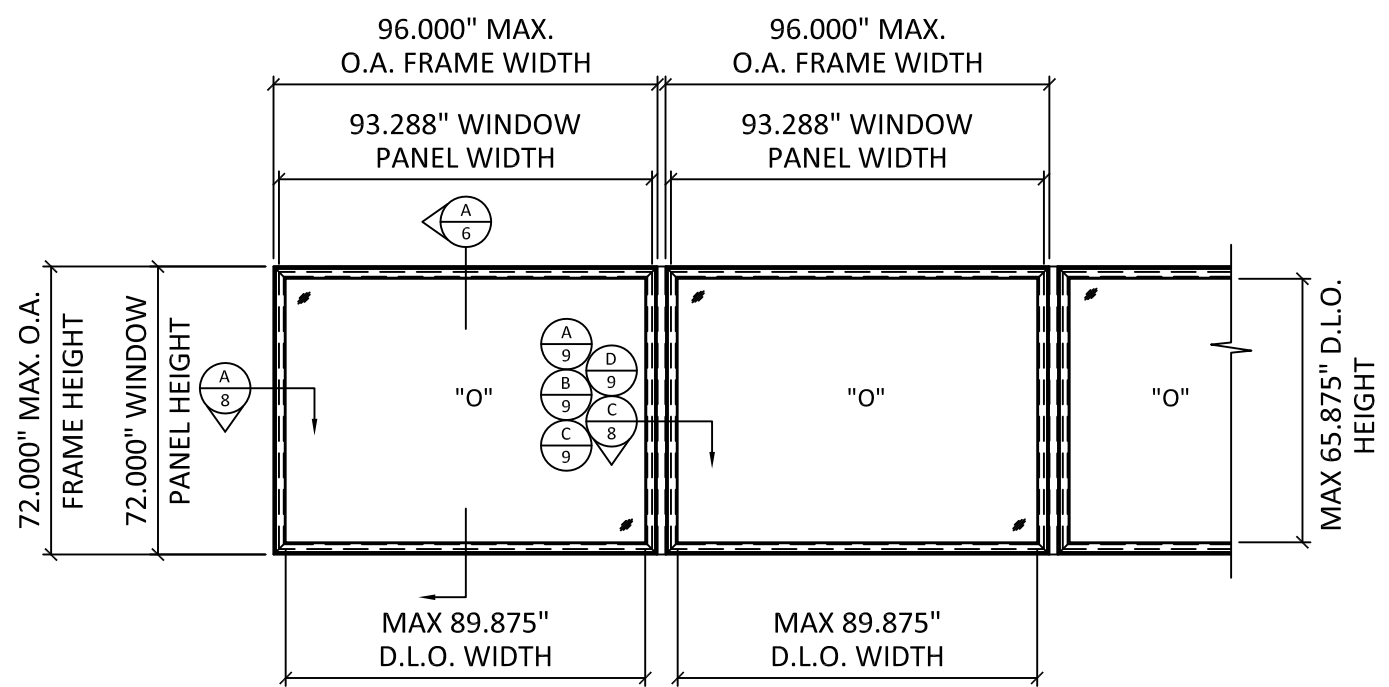
NOTE:
REFER TO SHEETS 11-28 FOR DESIGN PRESSURES BASED ON CORRESPONDING MULLION TYPES



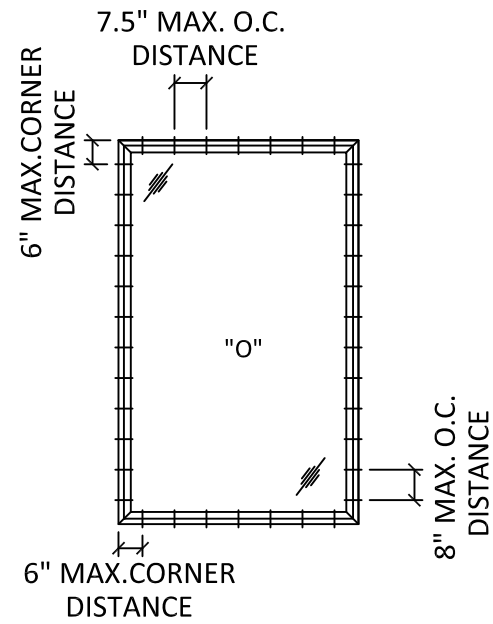
ELEVATION
MULLED UNITS (WITH 2" MULLION)
HORIZONTAL CONFIGURATION



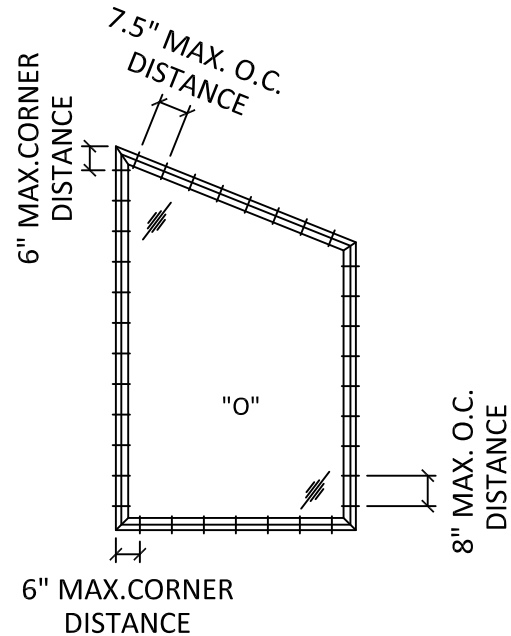
ELEVATION
MULLED UNITS (WITH 2" MULLION)
HORIZONTAL WITH TRANSOM CONFIGURATION



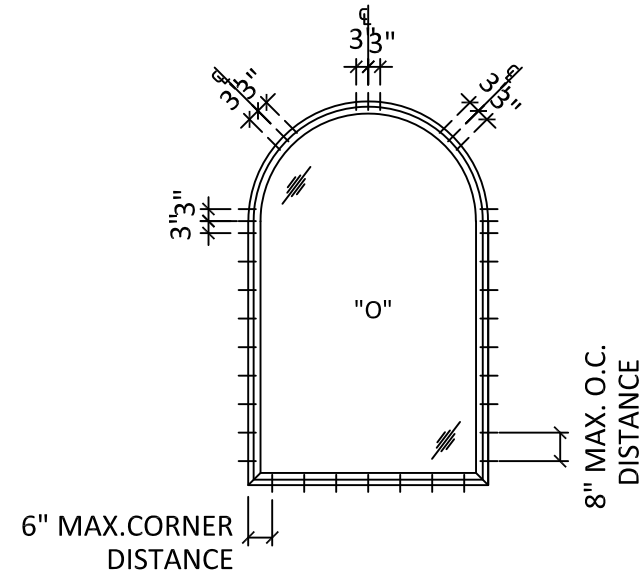
ELEVATION
MULLED UNITS (WITH 2" MULLION)
HORIZONTAL CONFIGURATION



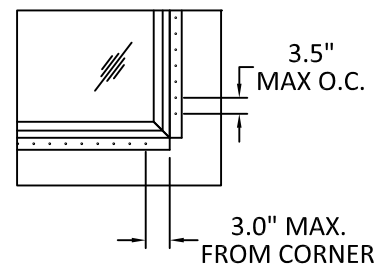
STRAP/FASTENER THROUGH FRAME ANCHORING
RECTANGULAR/SQUARE SINGLE UNIT



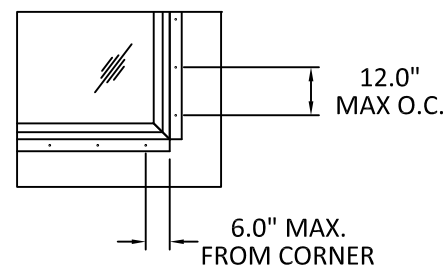
STRAP/FASTENER THROUGH FRAME ANCHORING
TRAPEZOID SINGLE UNIT



STRAP/FASTENER THROUGH FRAME ANCHORING
RADIUS SINGLE UNIT



VINYL FIN ANCHORING
SINGLE UNIT



ALUMINUM FIN ANCHORING
SINGLE UNIT

NOTE:

NAILING FLANGE INSTALLATIONS ARE LIMITED TO INDIVIDUAL UNITS OR ASSEMBLIES EQUAL TO OR LESS THAN DP +50/-50 AND EQUAL TO OR LESS THAN 30 SQUARE FEET.

NOTE:

FOR MORE ANCHOR INFORMATION (INSTALLATION TYPE, SPACING, QUANTITY, ANCHOR TYPE, QUALIFIED SUBSTRATES, SEE SHEET 10



100 FOURTH AVE NORTH
 BAYPORT, MN 55003-1096
 PH: (651) 264-5150 FX: (651) 264-5485

E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT)

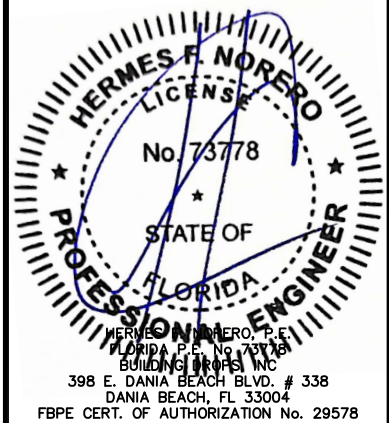
ANCHOR LAYOUTS

PREPARED BY: **BUILDING DROPS, INC.**
 398 E. DANIA BEACH BLVD., STE. 338
 DANIA BEACH, FL 33004
 PH: (954)399-8478
 FAX: (954)744-4738
 WEB: www.buildingdrops.com



REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

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.



FL #: **FL24230**

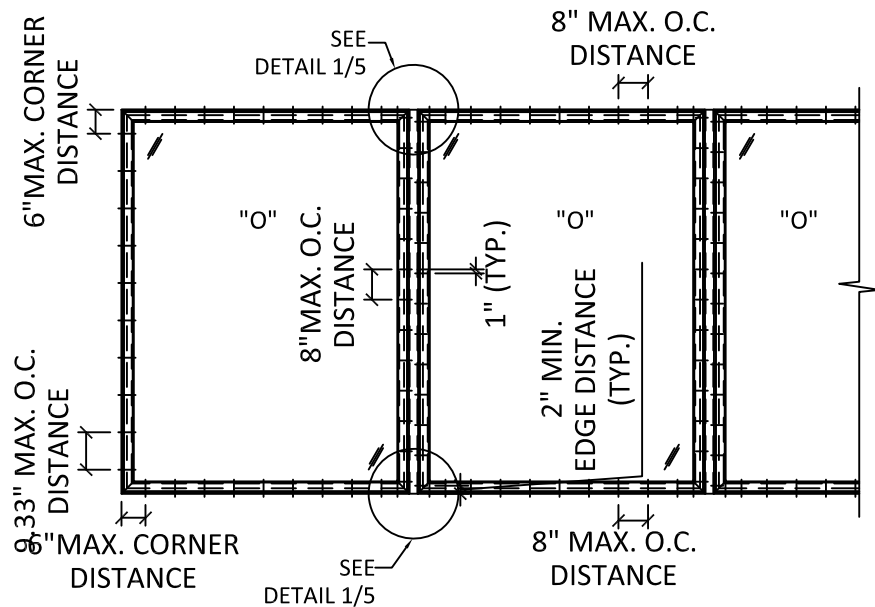
DATE: **10.12.17**

DWG. BY: **RV** CHK. BY: **HFN**

SCALE: **NTS**

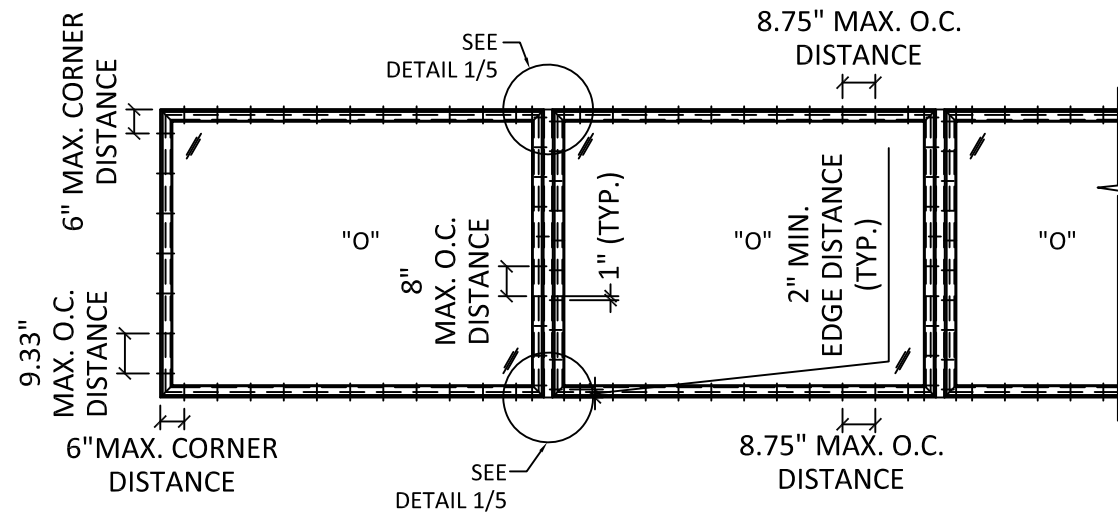
DWG. #: **AWD211**

SHEET: **4**



STRAP/FASTENER THROUGH FRAME ANCHORING

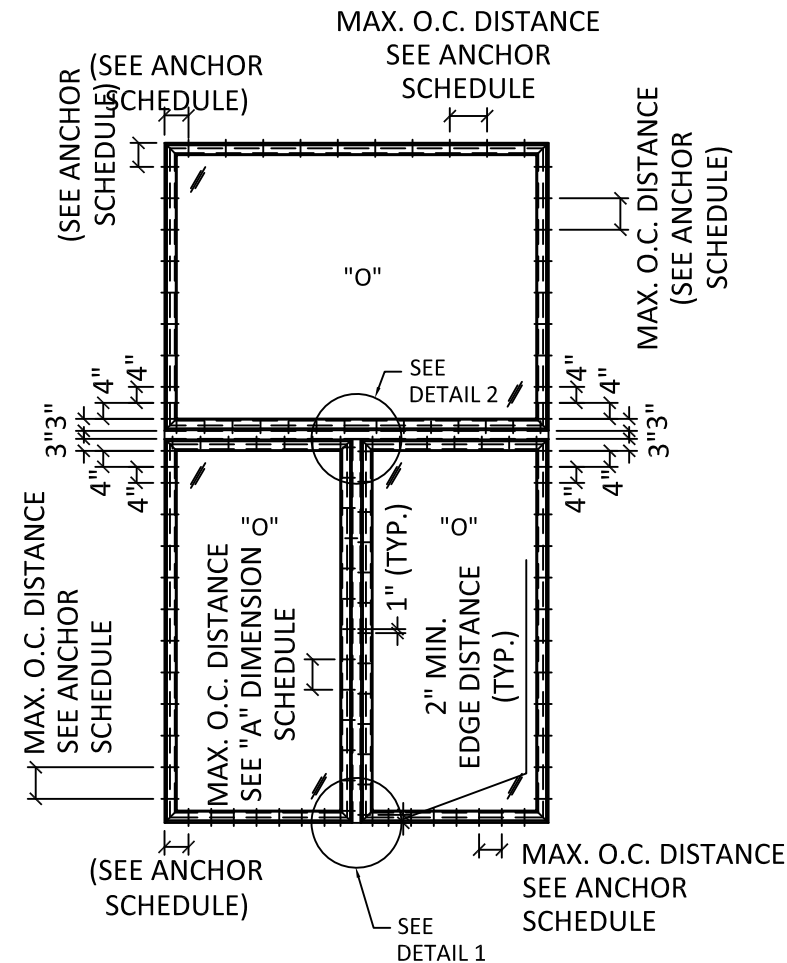
MULLED UNIT (2" MULLION) HORIZONTAL CONFIGURATION



STRAP/FASTENER THROUGH FRAME ANCHORING

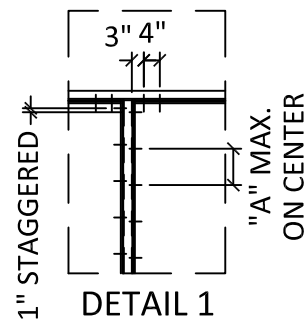
MULLED UNIT (2" MULLION) HORIZONTAL CONFIGURATION

NOTE:
FOR MORE ANCHOR INFORMATION (INSTALLATION TYPE, SPACING, QUANTITY, ANCHOR TYPE, QUALIFIED SUBSTRATES, SEE SHEET 10)



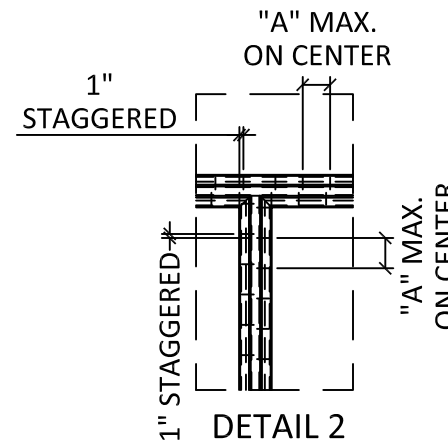
STRAP/FASTENER THROUGH FRAME ANCHORING

MULLED UNIT (2" MULLION) HORIZONTAL WITH TRANSOM CONFIGURATION



DESIGN PRESSURE	"A" DIMENSION
UP TO 60 PSF	9" MAX. O.C.
UP TO 70 PSF	8" MAX. O.C.
UP TO 80 PSF	7" MAX. O.C.

OPTIONAL SCREW ASSEMBLY OF MULLION



DESIGN PRESSURE	"A" DIMENSION
UP TO 60 PSF	9" MAX. O.C.
UP TO 70 PSF	8" MAX. O.C.
UP TO 80 PSF	7" MAX. O.C.

OPTIONAL SCREW ASSEMBLY OF MULLION



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT)

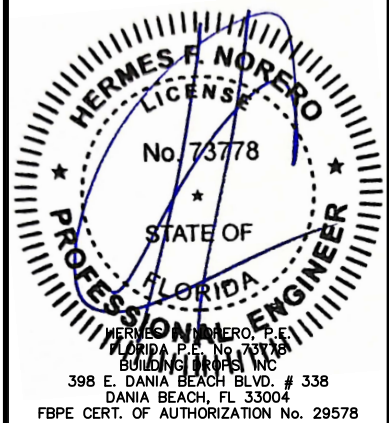
MULLED ANCHOR LAYOUTS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

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.



FL #: **FL24230**

DATE: **10.12.17**

DWG. BY: **RV** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **AWD211**

SHEET: **5**



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

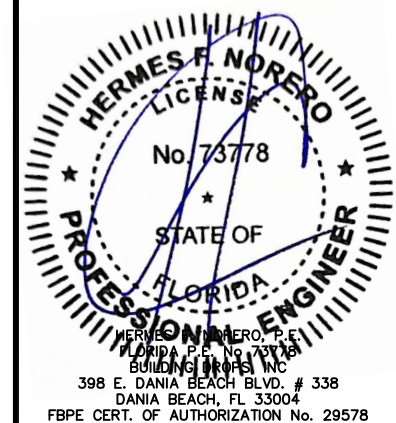
TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT) VERTICAL SECTIONS

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

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.



FL #: FL24230

DATE: 10.12.17

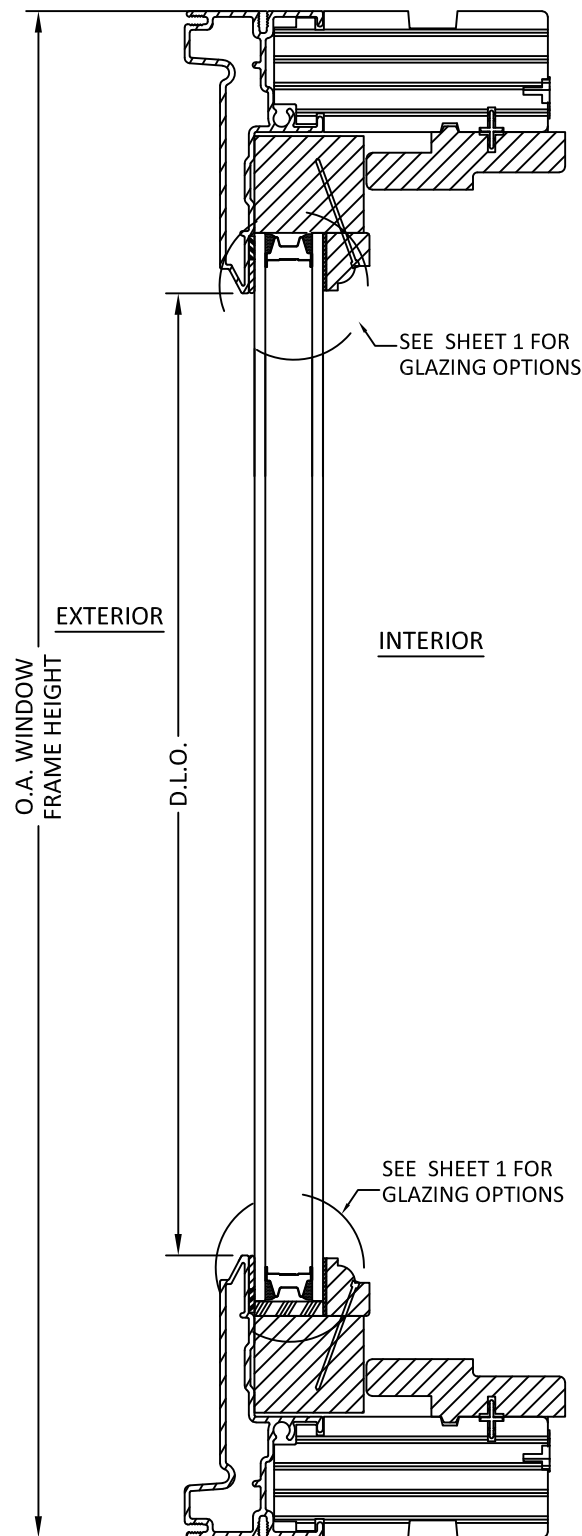
DWG. BY: RV
CHK. BY: HFN

SCALE: NTS

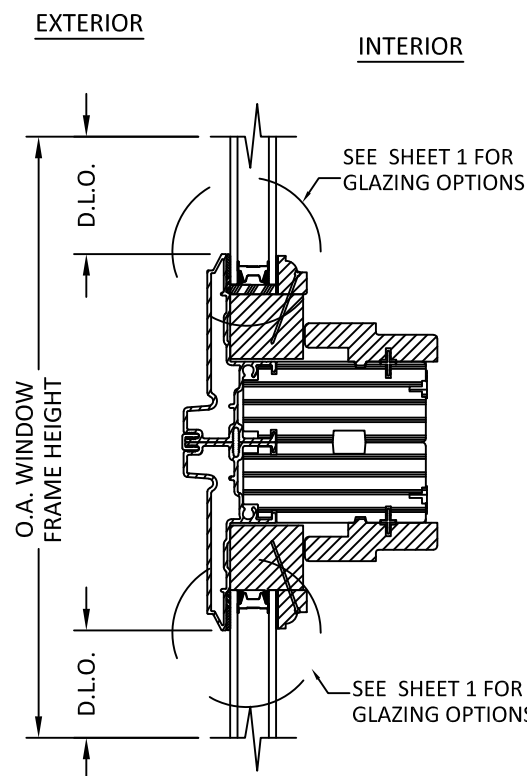
DWG. #: AWD211

SHEET: 6

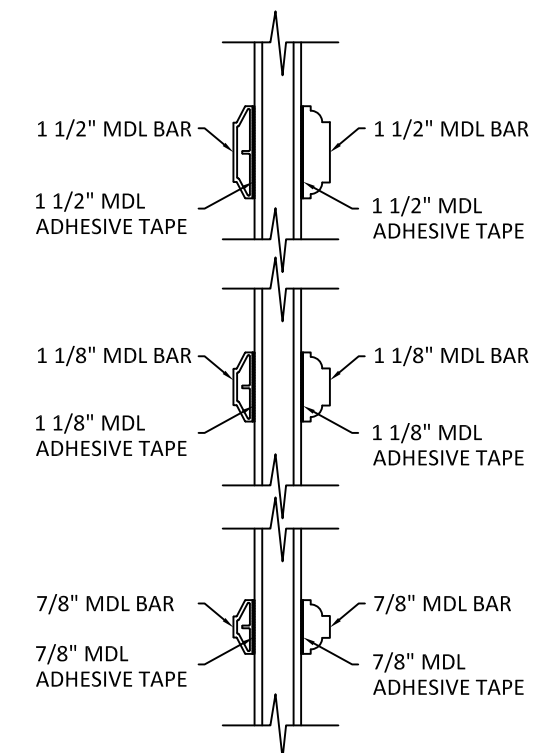
OF 28



A
6 VERTICAL SECTION
INSULATED GLASS



B
6 VERTICAL SECTION
ZERO MULLION



OPTIONAL MUNTIN BAR
ATTACHMENT TO GLASS

s:\projects\andersen windows\cc-23-0406 - fbc 2023 code change (8th edition)\124230\dwgs\awd211 - e-series fixed casement (non-hvhz)(non-impact).dwg 6/8/2023 6:09 PM



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT)

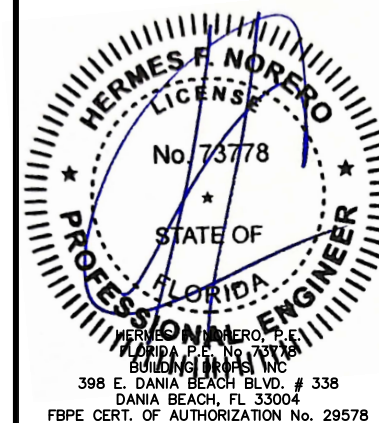
MULLED VERTICAL SECTIONS

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

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.



FL #: **FL24230**

DATE: **10.12.17**

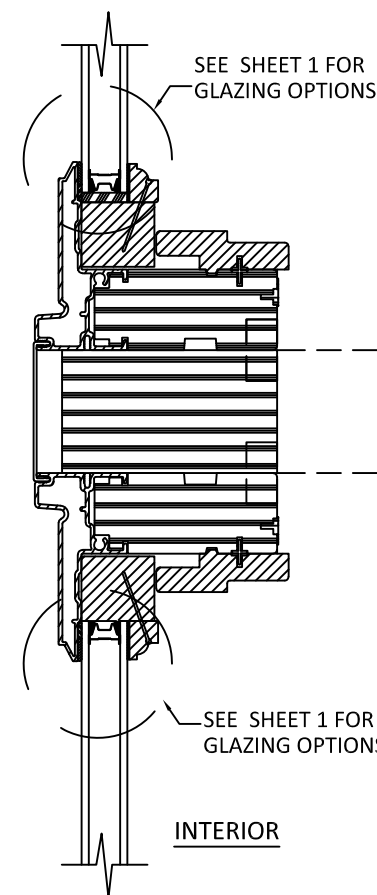
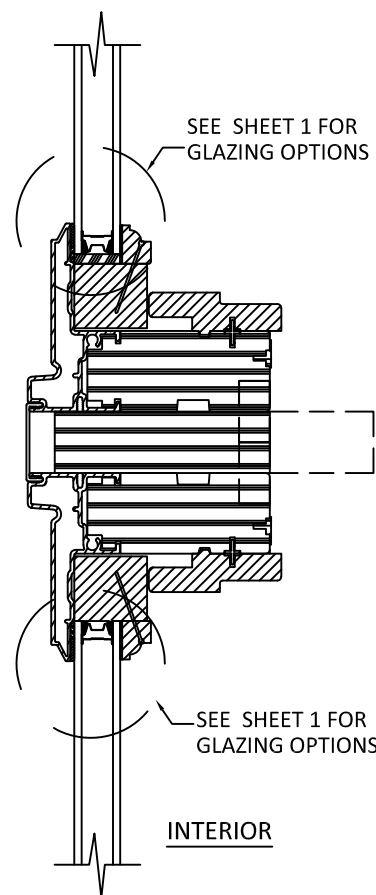
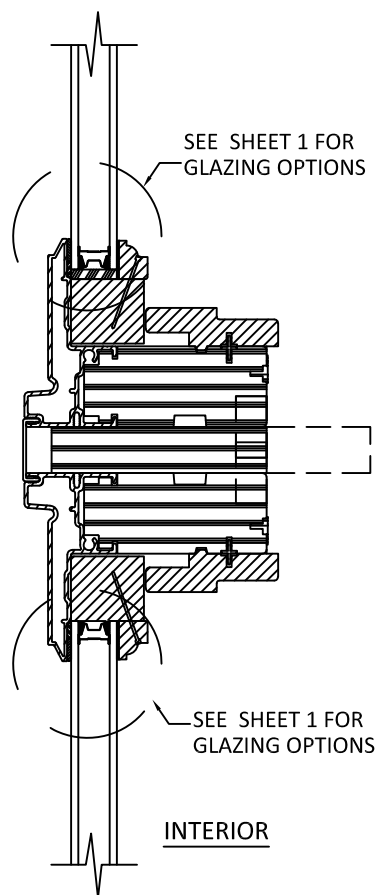
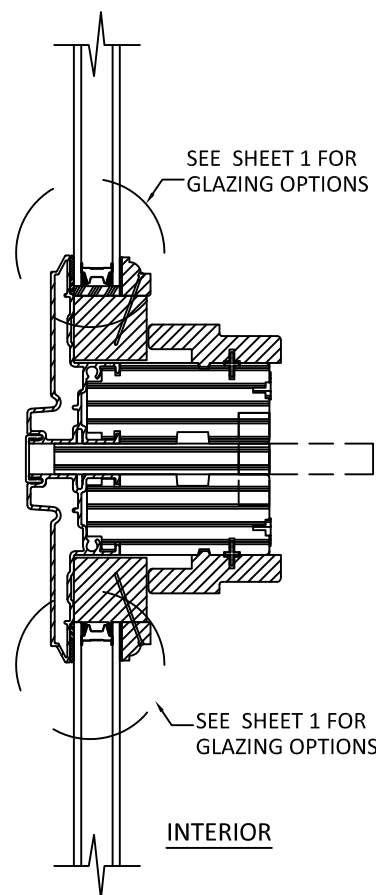
DWG. BY: **RV** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **AWD211**

SHEET: **7**

OF 28



A
7 VERTICAL SECTION
INSULATED GLASS
1/2" x 3 1/2" MULLION
OR 1/2" x 5 3/16"

B
7 VERTICAL SECTION
INSULATED GLASS
3/4" x 3 1/2" MULLION
OR 3/4" x 5 3/16"

C
7 VERTICAL SECTION
INSULATED GLASS
1" x 3 1/2" MULLION
OR 1" x 5 3/16"

D
7 VERTICAL SECTION
INSULATED GLASS
2" x 3 1/2" MULLION
OR 2" x 5 3/16"

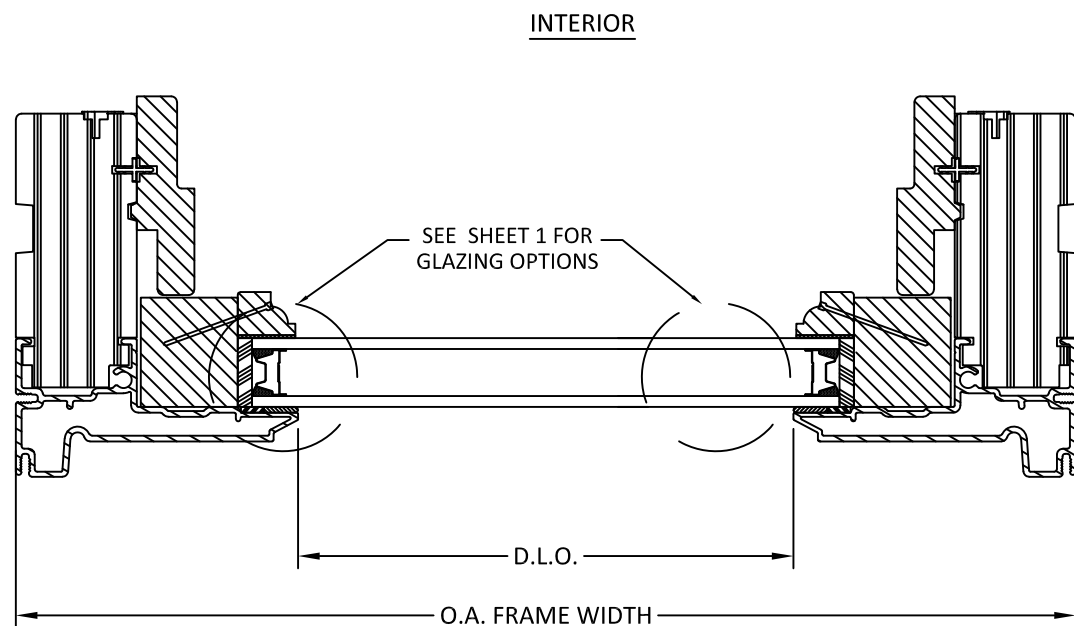
NOTE : LVL MULLS BETWEEN JAMBS MAY BE 3 1/2" OR 5 3/16" IN DEPTH AS REPRESENTED BY DASHED LINES



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

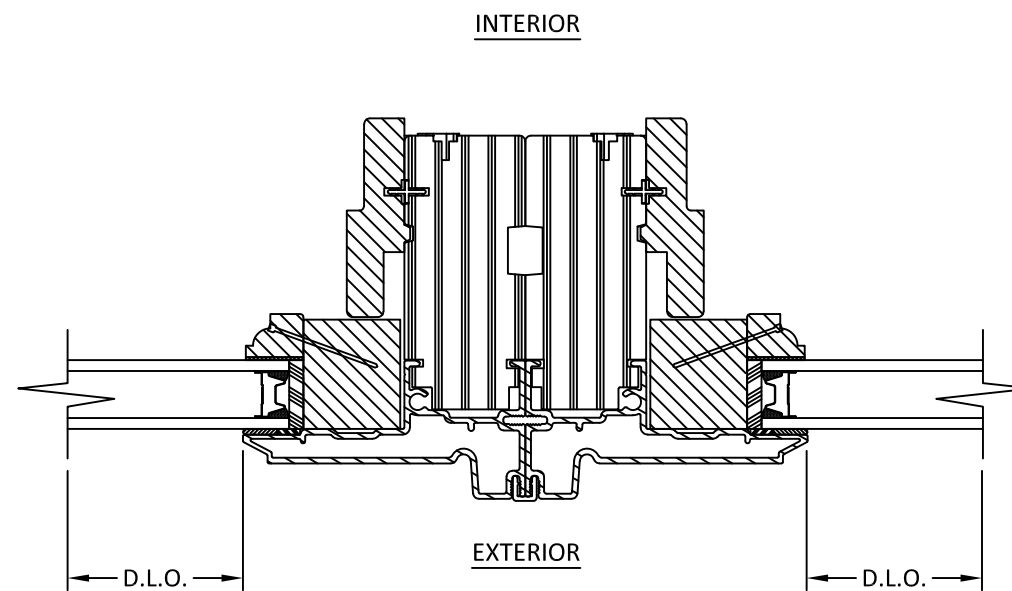
E-SERIES FIXED CASEMENT
WINDOW - DIRECT SET
(NON-HVHZ) (NON-IMPACT)
HORIZONTAL SECTIONS

PREPARED BY:
B.D.
BUILDING DROPS
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



A
8 HORIZONTAL SECTION
INSULATED GLASS
EXTERIOR

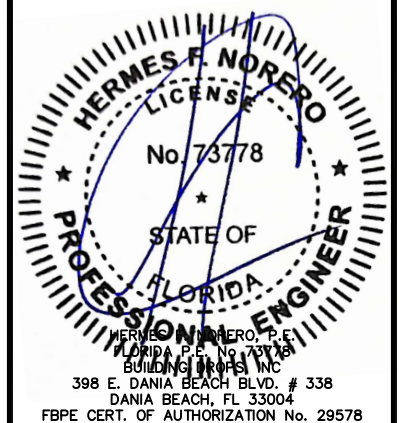
B
8 HORIZONTAL SECTION
INSULATED GLASS



C
8 HORIZONTAL SECTION
INSULATED GLASS
ZERO MULLION

REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

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.



FL #:
FL24230

DATE: **10.12.17**

DWG. BY: **RV** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **AWD211**

SHEET:
8



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT)

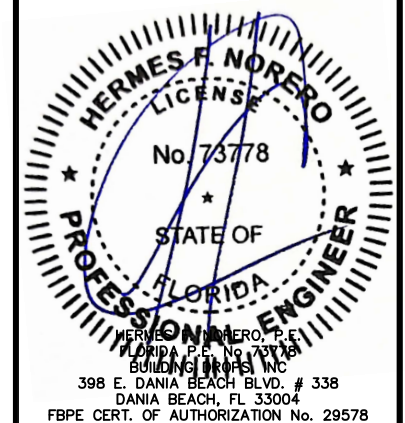
MULLED HORIZONTAL SECTIONS

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

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.



FL #: **FL24230**

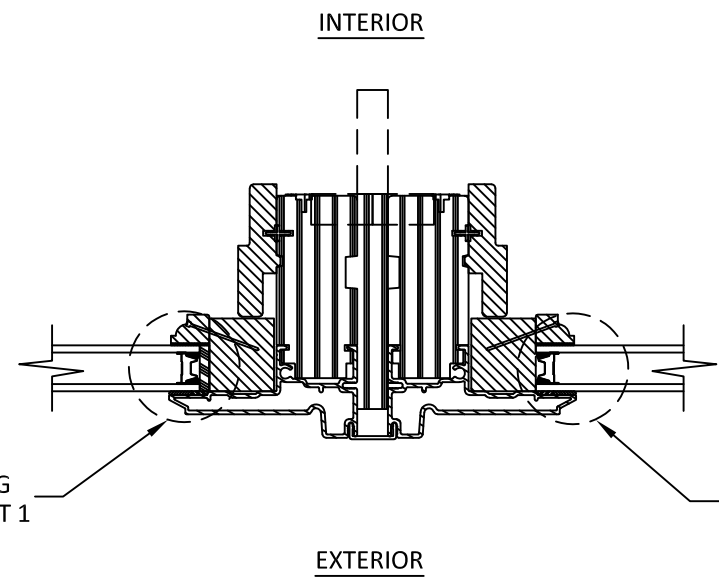
DATE: **10.12.17**

DWG. BY: **RV** CHK. BY: **HFN**

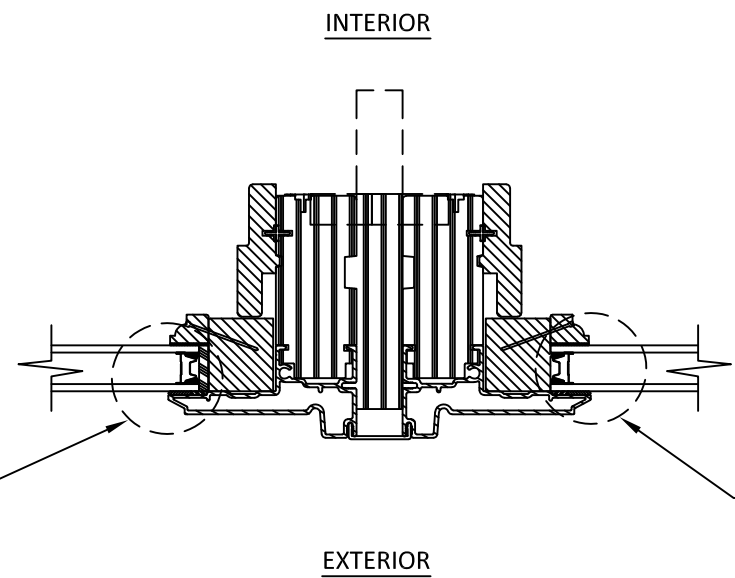
SCALE: **NTS**

DWG. #: **AWD211**

SHEET: **9**

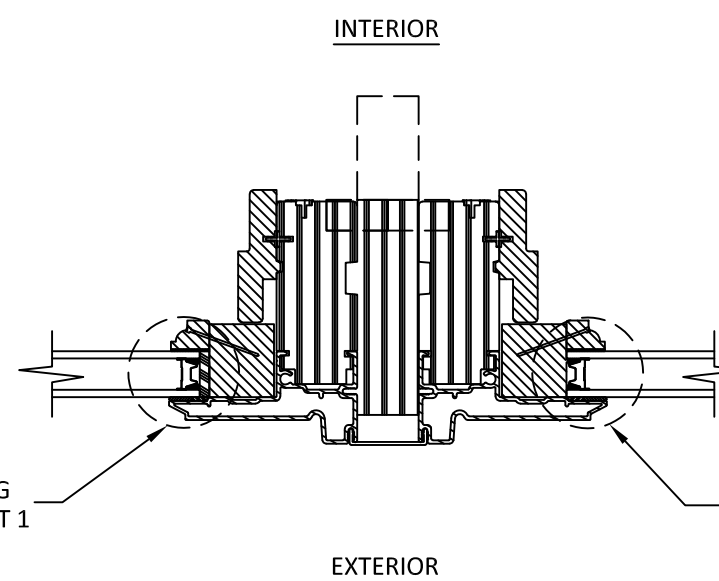


A HORIZONTAL SECTION
9
INSULATED GLASS
1/2" X 3-1/2" MULLION
OR 1/2" x 5 3/16"

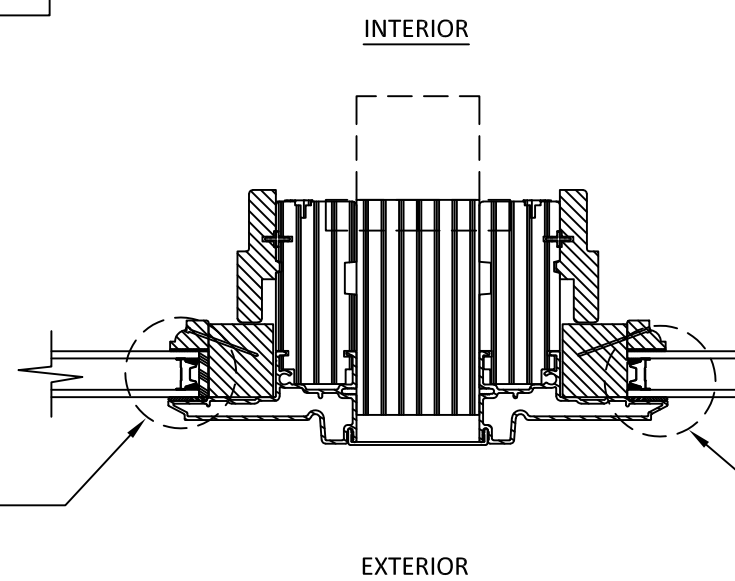


B HORIZONTAL SECTION
9
INSULATED GLASS
3/4" X 3-1/2" MULLION
OR 3/4" x 5 3/16"

NOTE : LVL MULLS BETWEEN JAMBS MAY BE 3 1/2" OR 5 3/16" IN DEPTH AS REPRESENTED BY DASHED LINES



C HORIZONTAL SECTION
9
INSULATED GLASS
1" X 3-1/2" MULLION
OR 1" x 5 3/16"

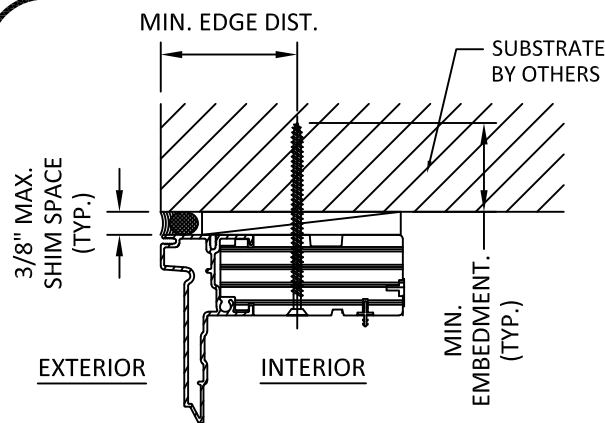


D HORIZONTAL SECTION
9
INSULATED GLASS
2" X 3-1/2" MULLION
OR 2" x 5 3/16"

s:\projects\andersen windows\cc-23-0406 - fbc 2023 code change (8th edition)\124230\dwgs\awd211 - e-series fixed casement (non-hvhz)(non-impact).dwg 6/8/2023 6:09 PM

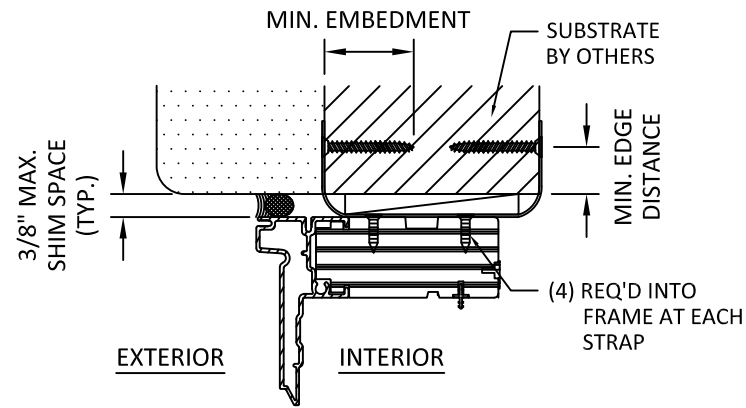
6/8/2023 6:09 PM

s:\projects\andersen windows\cc-23-0406 - fbc 2023 code change (8th edition)\124230\dwgs\awd211 - e-series fixed casement (non-hvHz)(non-impact).dwg



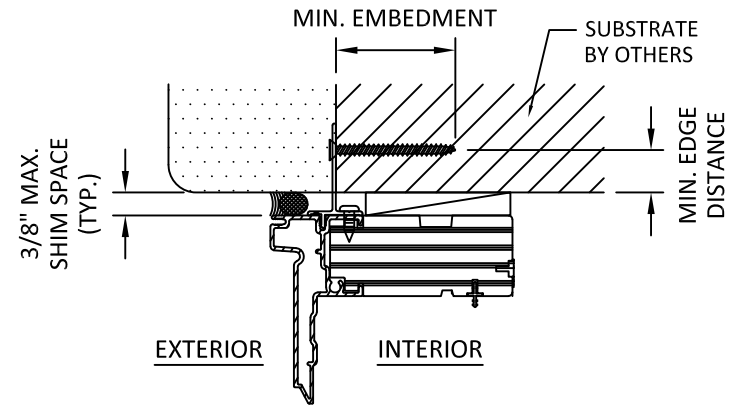
A
10
ANCHOR DETAIL
THROUGH FRAME

SILL & JAMB HAVE A SIMILAR DETAIL.



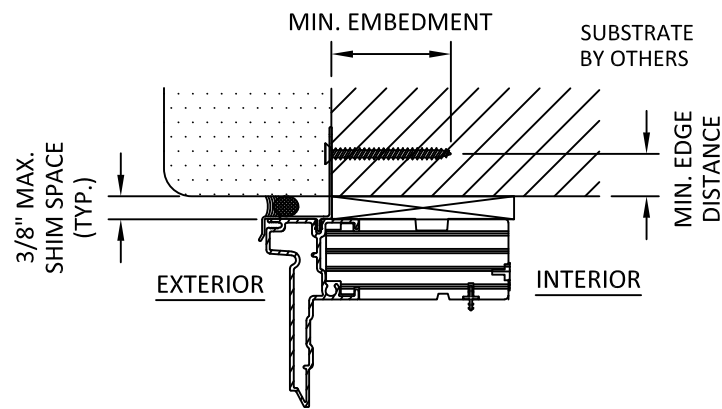
B
10
ANCHOR DETAIL
STRAP ANCHOR

SILL & JAMB HAVE A SIMILAR DETAIL.



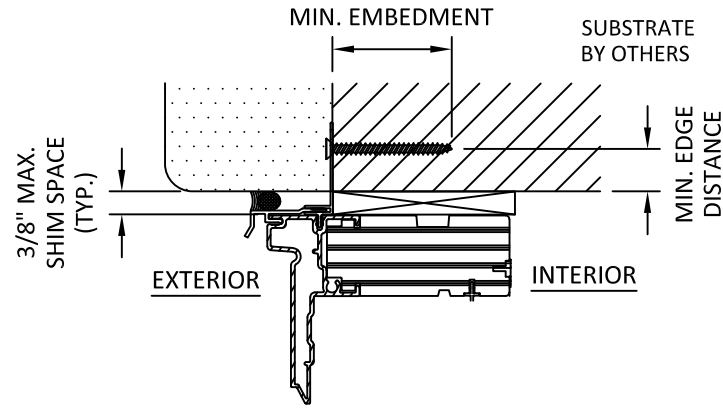
C
10
ANCHOR DETAIL
ALUM. NAIL FIN

SILL & JAMB HAVE A SIMILAR DETAIL.



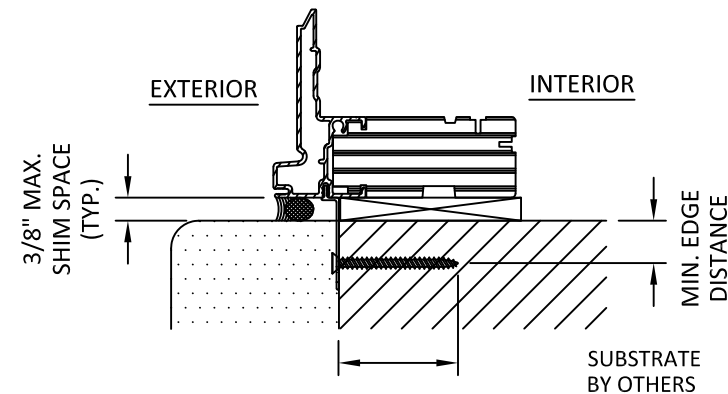
D
10
ANCHOR DETAIL
VINYL NAIL FIN

HEAD DETAIL.



E
10
ANCHOR DETAIL
VINYL NAIL FIN

HEAD DETAIL.



F
10
ANCHOR DETAIL
VINYL NAIL FIN

SILL & JAMB HAVE A SIMILAR DETAIL.

INSTALLATION NOTES

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ± 1.000 INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR MASONRY OR CONCRETE OPENINGS, A 1X WOOD BUCK MAY BE USED (OPTIONAL) AS LONG AS THE MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS ARE STILL MET WITHIN THE CORRESPONDING HOST SUBSTRATE. SEE GENERAL NOTE #3 ON SHEET 1 FOR MORE INFORMATION.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.

ANCHOR SCHEDULE					
INSTALLATION TYPE	QTY PER LOCATION	SUBSTRATE	ANCHOR TYPE	EMBEDMENT (IN.)	EDGE DISTANCE (IN.)
STRAP	1	WOOD	#8 WOOD ANCHOR	1.50	0.75
	1	CONCRETE/MASONRY	3/16" ITW TAPCON	1.25	2.50
	1	METAL STUD	#8 SELF-TAPPING SCREW	3 THREADS	N/A
THRU FRAME	1	WOOD	#10 WOOD ANCHOR	1.50	0.75
	1	CONCRETE/MASONRY	3/16" ITW TAPCON	1.25	2.50
NAILING FLANGE	1	WOOD	11 GA. ROOFING NAIL	1.50	0.75
	1	WOOD	#8 WOOD ANCHOR	1.50	0.75
	1	METAL STUD	#8 SELF-TAPPING SCREW	3 THREADS	N/A



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT)

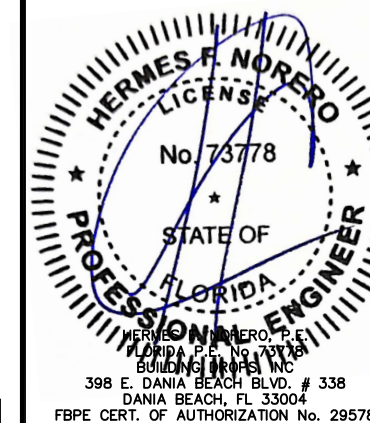
ANCHOR DETAILS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

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.



FL #:
FL24230

DATE: **10.12.17**

DWG. BY: **RV** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **AWD211**

SHEET:
10

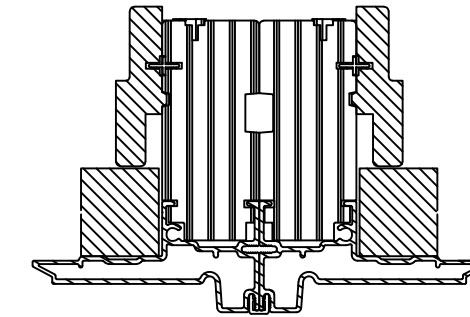
OF 28

6/8/2023 6:09 PM

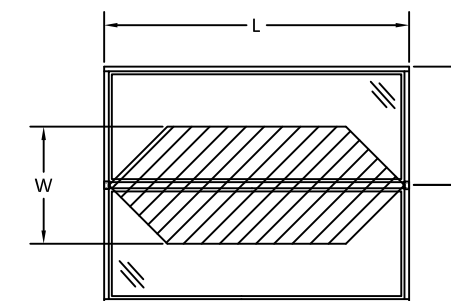
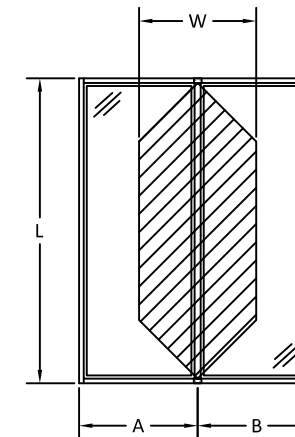
s:\projects\andersen windows\cc-23-0406 - fbc 2023 code change (8th edition)\124230\dwgs\awd211 - e-series fixed casement (non-hvzh)(non-impact).dwg

**MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)
ZERO STRUCTURAL MULLION (ONE-WAY) CONFIGURATION**

L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
30.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
36.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
42.0	69.79	54.93	53.33	53.33	53.33	53.33	53.33	53.33	53.33	53.33	53.33	53.33	53.33	53.33	53.33
48.0	51.95	39.07	35.73	35.73	35.73	35.73	35.73	35.73	35.73	35.73	35.73	35.73	35.73	35.73	35.73
54.0	40.29	29.44	25.55	25.09	25.09	25.09	25.09	25.09	25.09	25.09	25.09	25.09	25.09	25.09	25.09
60.0	32.20	23.09	19.37	18.29	18.29	18.29	18.29	18.29	18.29	18.29	18.29	18.29	18.29	18.29	18.29
66.0	26.36	18.64	15.29	13.91	13.74	13.74	13.74	13.74	13.74	13.74	13.74	13.74	13.74	13.74	13.74
72.0	21.99	15.39	12.42	11.02	10.59	10.59	10.59	10.59	10.59	10.59	10.59	10.59	10.59	10.59	10.59
78.0	18.63	12.94	10.32	8.99	8.40	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33
84.0	15.99	11.05	8.72	7.49	6.87	6.67	6.67	6.67	6.67	6.67	6.67	6.67	6.67	6.67	6.67
90.0	13.88	9.54	7.48	6.36	5.74	5.46	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42	5.42
96.0	12.17	8.33	6.49	5.47	4.88	4.57	4.47	4.47	4.47	4.47	4.47	4.47	4.47	4.47	4.47
102.0	10.75	7.34	5.69	4.77	4.21	3.89	3.74	3.72	3.72	3.72	3.72	3.72	3.72	3.72	3.72
108.0	9.57	6.52	5.04	4.19	3.68	3.37	3.19	3.14	3.14	3.14	3.14	3.14	3.14	3.14	3.14
114.0	8.58	5.83	4.49	3.72	3.25	2.94	2.76	2.68	2.67	2.67	2.67	2.67	2.67	2.67	2.67
120.0	7.73	5.24	4.03	3.32	2.89	2.60	2.42	2.32	2.29	2.29	2.29	2.29	2.29	2.29	2.29
126.0	7.00	4.74	3.63	2.99	2.58	2.32	2.14	2.03	1.98	1.98	1.98	1.98	1.98	1.98	1.98
132.0	6.37	4.31	3.30	2.71	2.33	2.08	1.91	1.80	1.74	1.72	1.72	1.72	1.72	1.72	1.72
138.0	5.82	3.93	3.00	2.46	2.11	1.88	1.72	1.61	1.54	1.51	1.50	1.50	1.50	1.50	1.50
144.0	5.34	3.61	2.75	2.25	1.92	1.70	1.55	1.45	1.38	1.34	1.32	1.32	1.32	1.32	1.32
150.0	4.92	3.32	2.53	2.06	1.76	1.56	1.41	1.31	1.24	1.20	1.17	1.17	1.17	1.17	1.17
156.0	4.55	3.06	2.33	1.90	1.62	1.43	1.29	1.19	1.12	1.08	1.05	1.04	1.04	1.04	1.04
162.0	4.21	2.84	2.15	1.75	1.49	1.31	1.18	1.09	1.02	0.98	0.95	0.93	0.93	0.93	0.93
168.0	3.92	2.63	2.00	1.62	1.38	1.21	1.09	1.00	0.94	0.89	0.86	0.84	0.83	0.83	0.83
174.0	3.65	2.45	1.86	1.51	1.28	1.12	1.01	0.92	0.86	0.82	0.78	0.76	0.75	0.75	0.75
180.0	3.41	2.29	1.74	1.41	1.19	1.04	0.94	0.86	0.79	0.75	0.72	0.70	0.68	0.68	0.68
186.0	3.19	2.14	1.62	1.31	1.11	0.97	0.87	0.79	0.74	0.69	0.66	0.64	0.62	0.62	0.61
192.0	2.95	1.98	1.51	1.22	1.04	0.91	0.81	0.74	0.68	0.64	0.61	0.59	0.57	0.56	0.56



ZERO MULLION PROFILE



$A + B = \frac{W}{2}$

NOTE:

- 1) MULLION CHART APPLIES TO ZERO MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.
- 6) TRIBUTARY WIDTH = $W = (A+B)/2$
- 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

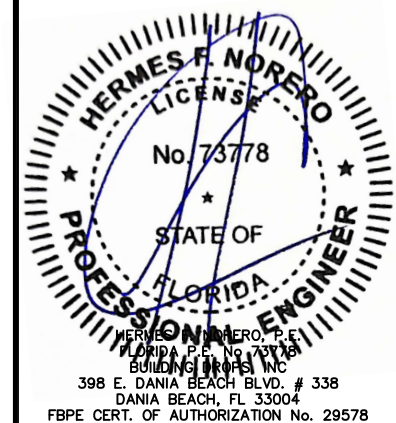
TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT) ZERO MULLION LOADS TABLE ONE WAY

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

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.

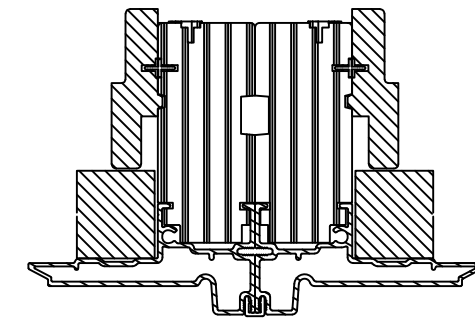


FL #:	FL24230
DATE:	10.12.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD211

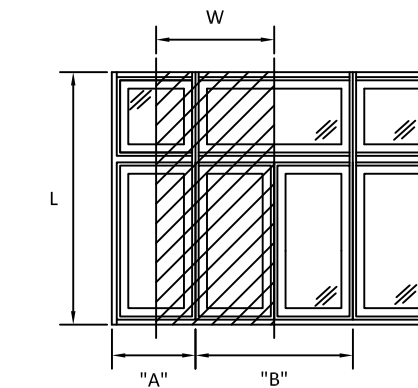
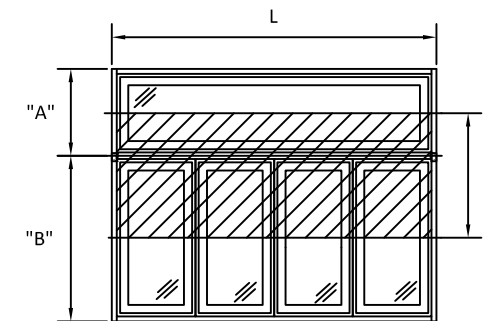
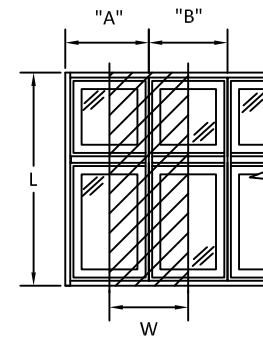
SHEET: **11**
OF 28

**MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)
ZERO STRUCTURAL MULLION (TWO-WAY) CONFIGURATION**

L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	63.52	54.45	47.64	42.35	38.11	34.65	31.76	29.32	27.22	25.41	23.82
30.0	75.00	75.00	60.98	48.78	40.65	34.85	30.49	27.10	24.39	22.17	20.33	18.76	17.42	16.26	15.24
36.0	75.00	56.46	42.35	33.88	28.23	24.20	21.17	18.82	16.94	15.40	14.12	13.03	12.10	11.29	10.59
42.0	62.22	41.48	31.11	24.89	20.74	17.78	15.56	13.83	12.44	11.31	10.37	9.57	8.89	8.30	7.78
48.0	47.64	31.76	23.82	19.06	15.88	13.61	11.91	10.59	9.53	8.66	7.94	7.33	6.81	6.35	5.96
54.0	37.64	25.09	18.82	15.06	12.55	10.75	9.41	8.36	7.53	6.84	6.27	5.79	5.38	5.02	4.71
60.0	30.49	20.33	15.24	12.20	10.16	8.71	7.62	6.78	6.10	5.54	5.08	4.69	4.36	4.07	3.81
66.0	25.20	16.80	12.60	10.08	8.40	7.20	6.30	5.60	5.04	4.58	4.20	3.88	3.60	3.36	3.15
72.0	21.17	14.12	10.59	8.47	7.06	6.05	5.29	4.71	4.23	3.85	3.53	3.26	3.02	2.82	2.65
78.0	18.04	12.03	9.02	7.22	6.01	5.15	4.51	4.01	3.61	3.28	3.01	2.78	2.58	2.41	2.26
84.0	15.56	10.37	7.78	6.22	5.19	4.44	3.89	3.46	3.11	2.83	2.59	2.39	2.22	2.07	1.94
90.0	13.55	9.03	6.78	5.42	4.52	3.87	3.39	3.01	2.71	2.46	2.26	2.08	1.94	1.81	1.69
96.0	11.91	7.94	5.96	4.76	3.97	3.40	2.98	2.65	2.38	2.17	1.99	1.83	1.70	1.59	1.49
102.0	10.55	7.03	5.28	4.22	3.52	3.01	2.64	2.34	2.11	1.92	1.76	1.62	1.51	1.41	1.32
108.0	9.41	6.27	4.71	3.76	3.14	2.69	2.35	2.09	1.88	1.71	1.57	1.45	1.34	1.25	1.18
114.0	8.45	5.63	4.22	3.38	2.82	2.41	2.11	1.88	1.69	1.54	1.41	1.30	1.21	1.13	1.06
120.0	7.62	5.08	3.81	3.05	2.54	2.18	1.91	1.69	1.52	1.39	1.27	1.17	1.09	1.02	0.95
126.0	6.91	4.61	3.46	2.77	2.30	1.98	1.73	1.54	1.38	1.26	1.15	1.06	0.99	0.92	0.86
132.0	6.30	4.20	3.15	2.52	2.10	1.80	1.57	1.40	1.26	1.15	1.05	0.97	0.90	0.84	0.79
138.0	5.76	3.84	2.88	2.31	1.92	1.65	1.44	1.28	1.15	1.05	0.96	0.89	0.82	0.77	0.72
144.0	5.29	3.53	2.65	2.12	1.76	1.51	1.32	1.18	1.06	0.96	0.88	0.81	0.76	0.71	0.66
150.0	4.88	3.25	2.44	1.95	1.63	1.39	1.22	1.08	0.98	0.89	0.81	0.75	0.70	0.65	0.61
156.0	4.51	3.01	2.26	1.80	1.50	1.29	1.13	1.00	0.90	0.82	0.75	0.69	0.64	0.60	0.56
162.0	4.18	2.79	2.09	1.67	1.39	1.19	1.05	0.93	0.84	0.76	0.70	0.64	0.60	0.56	0.52
168.0	3.89	2.59	1.94	1.56	1.30	1.11	0.97	0.86	0.78	0.71	0.65	0.60	0.56	0.52	0.49
174.0	3.63	2.42	1.81	1.45	1.21	1.04	0.91	0.81	0.73	0.66	0.60	0.56	0.52	0.48	0.45
180.0	3.39	2.26	1.69	1.36	1.13	0.97	0.85	0.75	0.68	0.62	0.56	0.52	0.48	0.45	0.42
186.0	3.17	2.12	1.59	1.27	1.06	0.91	0.79	0.71	0.63	0.58	0.53	0.49	0.45	0.42	0.40
192.0	2.94	1.96	1.47	1.17	0.98	0.84	0.73	0.65	0.59	0.53	0.49	0.45	0.42	0.39	0.37



ZERO MULLION PROFILE



$$\frac{A + B}{2} = W$$

NOTE:

- 1) MULLION CHART APPLIES TO ZERO MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.
- 6) TRIBUTARY WIDTH = $W = (A+B)/2$
- 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

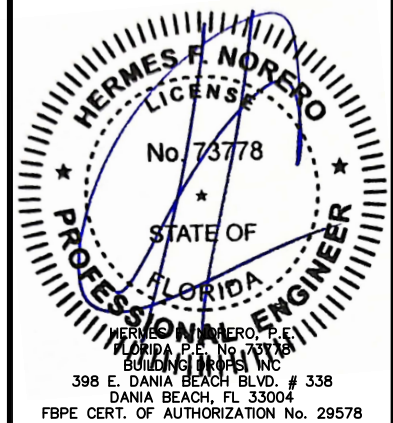
TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT) ZERO MULLION LOADS TABLE TWO WAY

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

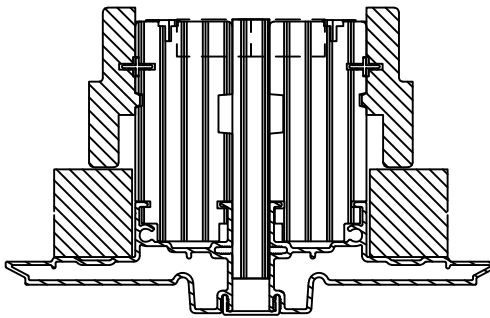
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



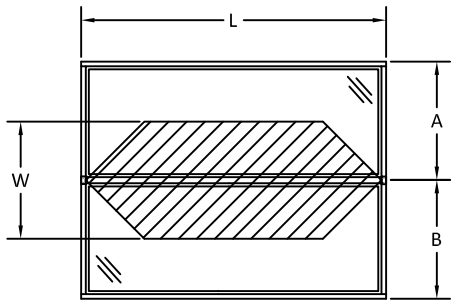
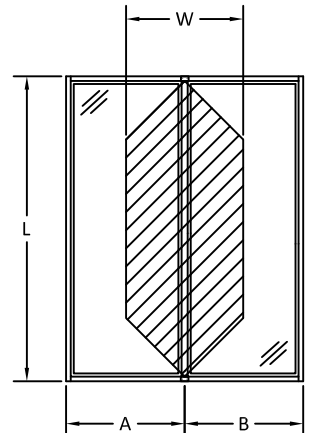
FL #:	FL24230
DATE:	10.12.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD211
SHEET:	12

s:\projects\andersen windows\cc-23-0406 - fbc 2023 code change (8th edition)\124230\dwgs\awd211 - e-series fixed casement (non-hvzh)(non-impact).dwg 6/8/2023 6:10 PM

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1/2" x 3-1/2" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
30.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
36.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
42.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
48.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
54.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
60.0	75.00	75.00	74.58	70.42	70.42	70.42	70.42	70.42	70.42	70.42	70.42	70.42	70.42	70.42	70.42
66.0	75.00	71.75	58.85	53.56	52.91	52.91	52.91	52.91	52.91	52.91	52.91	52.91	52.91	52.91	52.91
72.0	75.00	59.25	47.81	42.41	40.75	40.75	40.75	40.75	40.75	40.75	40.75	40.75	40.75	40.75	40.75
78.0	66.62	46.64	37.50	32.98	31.07	30.82	30.82	30.82	30.82	30.82	30.82	30.82	30.82	30.82	30.82
84.0	53.05	36.89	29.37	25.45	23.52	22.91	22.91	22.91	22.91	22.91	22.91	22.91	22.91	22.91	22.91
90.0	42.94	29.70	23.46	20.10	18.29	17.50	17.39	17.39	17.39	17.39	17.39	17.39	17.39	17.39	17.39
96.0	35.26	24.28	19.05	16.18	14.55	13.71	13.43	13.43	13.43	13.43	13.43	13.43	13.43	13.43	13.43
102.0	29.30	20.11	15.70	13.23	11.78	10.96	10.59	10.54	10.54	10.54	10.54	10.54	10.54	10.54	10.54
108.0	24.62	16.85	13.09	10.97	9.69	8.93	8.52	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39
114.0	20.89	14.26	11.04	9.20	8.08	7.38	6.97	6.78	6.75	6.75	6.75	6.75	6.75	6.75	6.75
120.0	17.88	12.17	9.40	7.80	6.81	6.18	5.79	5.57	5.50	5.50	5.50	5.50	5.50	5.50	5.50
126.0	15.42	10.48	8.07	6.68	5.80	5.23	4.86	4.65	4.54	4.53	4.53	4.53	4.53	4.53	4.53
132.0	13.39	9.09	6.98	5.76	4.98	4.47	4.13	3.92	3.80	3.76	3.76	3.76	3.76	3.76	3.76
138.0	11.71	7.93	6.08	5.00	4.32	3.86	3.55	3.34	3.22	3.15	3.15	3.15	3.15	3.15	3.15
144.0	10.29	6.96	5.33	4.38	3.76	3.35	3.07	2.87	2.75	2.68	2.65	2.65	2.65	2.65	2.65
150.0	9.10	6.15	4.70	3.85	3.30	2.93	2.67	2.49	2.37	2.30	2.26	2.25	2.25	2.25	2.25
156.0	8.08	5.46	4.16	3.41	2.91	2.58	2.34	2.18	2.06	1.99	1.94	1.93	1.93	1.93	1.93
162.0	7.21	4.86	3.71	3.03	2.59	2.28	2.07	1.91	1.80	1.73	1.68	1.66	1.66	1.66	1.66
168.0	6.46	4.35	3.32	2.70	2.31	2.03	1.84	1.69	1.59	1.52	1.47	1.44	1.43	1.43	1.43
174.0	5.81	3.91	2.98	2.42	2.06	1.82	1.64	1.51	1.41	1.34	1.29	1.26	1.25	1.24	1.24
180.0	5.25	3.53	2.68	2.18	1.86	1.63	1.47	1.35	1.26	1.19	1.14	1.11	1.09	1.09	1.09
186.0	4.75	3.20	2.43	1.97	1.68	1.47	1.32	1.21	1.12	1.06	1.02	0.99	0.97	0.95	0.95
192.0	4.32	2.90	2.20	1.79	1.52	1.33	1.19	1.09	1.01	0.95	0.91	0.88	0.86	0.84	0.84



**1/2" X 3 1/2"
LVL MULLION PROFILE**



$$\frac{A+B}{2} = W$$

- NOTE:**
- 1) MULLION CHART APPLIES TO 1/2" X 3-1/2" LVL MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



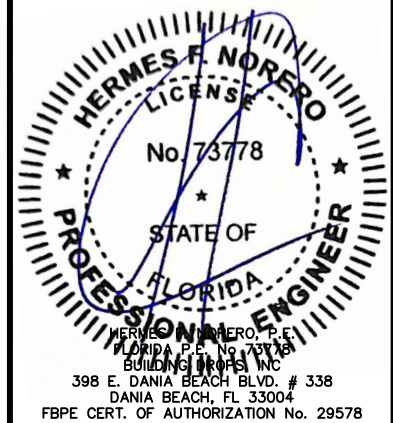
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT) 1/2" X 3-1/2" MULLION LOADS TABLE ONE WAY

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

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.



FL #: **FL24230**

DATE: **10.12.17**

DWG. BY: **RV** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **AWD211**

SHEET: **13**



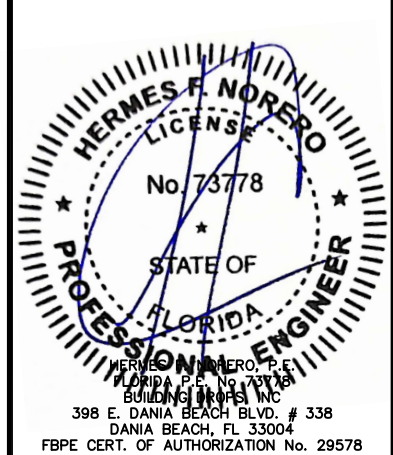
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT)
1/2" X 3-1/2" MULLION LOADS TABLE TWO WAY

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

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.



FL #: **FL24230**

DATE: **10.12.17**

DWG. BY: **RV** CHK. BY: **HFN**

SCALE: **NTS**

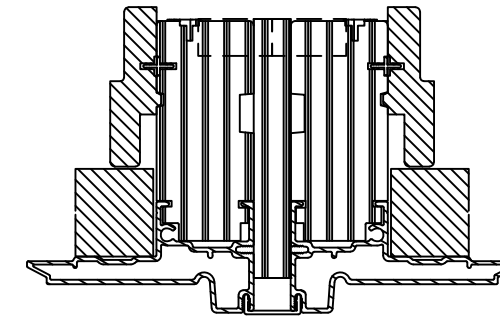
DWG. #: **AWD211**

SHEET: **14**

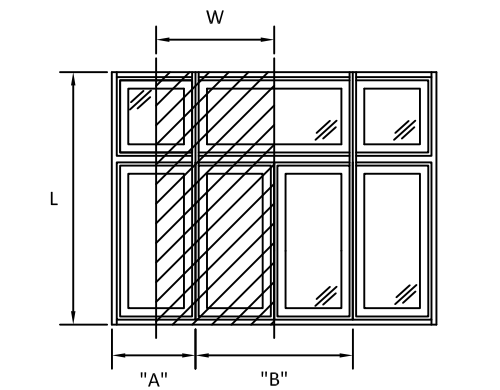
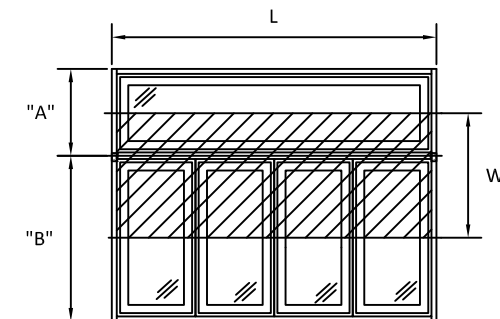
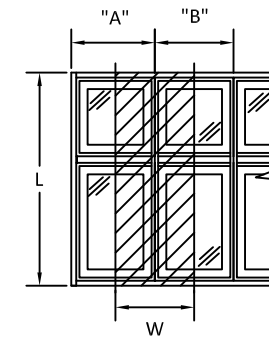
OF 28

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)
1/2" X 3-1/2" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION

L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	66.86	58.50	52.00	46.80	42.55	39.00	36.00	33.43	31.20	29.25
30.0	75.00	75.00	75.00	74.88	62.40	53.49	46.80	41.60	37.44	34.04	31.20	28.80	26.74	24.96	23.40
36.0	75.00	75.00	75.00	62.40	52.00	44.57	39.00	34.67	31.20	28.36	26.00	24.00	22.29	20.80	19.50
42.0	75.00	75.00	66.86	53.49	44.57	38.20	33.43	29.71	26.74	24.31	22.29	20.57	19.10	17.83	16.71
48.0	75.00	75.00	58.50	46.80	39.00	33.43	29.25	26.00	23.40	21.27	19.50	18.00	16.71	15.60	14.63
54.0	75.00	69.33	52.00	41.60	34.67	29.71	26.00	23.11	20.80	18.91	17.33	16.00	14.86	13.87	13.00
60.0	75.00	62.40	46.80	37.44	31.20	26.74	23.40	20.80	18.72	17.02	15.60	14.40	13.37	12.48	11.70
66.0	75.00	56.73	42.55	34.04	28.36	24.31	21.27	18.91	17.02	15.47	14.18	13.09	12.16	11.35	10.64
72.0	75.00	52.00	39.00	31.20	26.00	22.29	19.50	17.33	15.60	14.18	13.00	12.00	11.14	10.40	9.75
78.0	64.10	42.74	32.05	25.64	21.37	18.32	16.03	14.25	12.82	11.66	10.68	9.86	9.16	8.55	8.01
84.0	51.33	34.22	25.66	20.53	17.11	14.66	12.83	11.41	10.27	9.33	8.55	7.90	7.33	6.84	6.42
90.0	41.73	27.82	20.86	16.69	13.91	11.92	10.43	9.27	8.35	7.59	6.95	6.42	5.96	5.56	5.22
96.0	34.38	22.92	17.19	13.75	11.46	9.82	8.60	7.64	6.88	6.25	5.73	5.29	4.91	4.58	4.30
102.0	28.67	19.11	14.33	11.47	9.56	8.19	7.17	6.37	5.73	5.21	4.78	4.41	4.10	3.82	3.58
108.0	24.15	16.10	12.07	9.66	8.05	6.90	6.04	5.37	4.83	4.39	4.02	3.72	3.45	3.22	3.02
114.0	20.53	13.69	10.27	8.21	6.84	5.87	5.13	4.56	4.11	3.73	3.42	3.16	2.93	2.74	2.57
120.0	17.60	11.74	8.80	7.04	5.87	5.03	4.40	3.91	3.52	3.20	2.93	2.71	2.51	2.35	2.20
126.0	15.21	10.14	7.60	6.08	5.07	4.35	3.80	3.38	3.04	2.77	2.53	2.34	2.17	2.03	1.90
132.0	13.23	8.82	6.61	5.29	4.41	3.78	3.31	2.94	2.65	2.40	2.20	2.03	1.89	1.76	1.65
138.0	11.58	7.72	5.79	4.63	3.86	3.31	2.89	2.57	2.32	2.10	1.93	1.78	1.65	1.54	1.45
144.0	10.19	6.79	5.09	4.08	3.40	2.91	2.55	2.26	2.04	1.85	1.70	1.57	1.46	1.36	1.27
150.0	9.01	6.01	4.51	3.61	3.00	2.58	2.25	2.00	1.80	1.64	1.50	1.39	1.29	1.20	1.13
156.0	8.01	5.34	4.01	3.21	2.67	2.29	2.00	1.78	1.60	1.46	1.34	1.23	1.14	1.07	1.00
162.0	7.16	4.77	3.58	2.86	2.39	2.04	1.79	1.59	1.43	1.30	1.19	1.10	1.02	0.95	0.89
168.0	6.42	4.28	3.21	2.57	2.14	1.83	1.60	1.43	1.28	1.17	1.07	0.99	0.92	0.86	0.80
174.0	5.77	3.85	2.89	2.31	1.92	1.65	1.44	1.28	1.15	1.05	0.96	0.89	0.82	0.77	0.72
180.0	5.22	3.48	2.61	2.09	1.74	1.49	1.30	1.16	1.04	0.95	0.87	0.80	0.75	0.70	0.65
186.0	4.73	3.15	2.36	1.89	1.58	1.35	1.18	1.05	0.95	0.86	0.79	0.73	0.68	0.63	0.59
192.0	4.30	2.87	2.15	1.72	1.43	1.23	1.07	0.96	0.86	0.78	0.72	0.66	0.61	0.57	0.54



1/2" X 3 1/2"
LVL MULL PROFILE



$$\frac{A + B}{2} = W$$

NOTE:

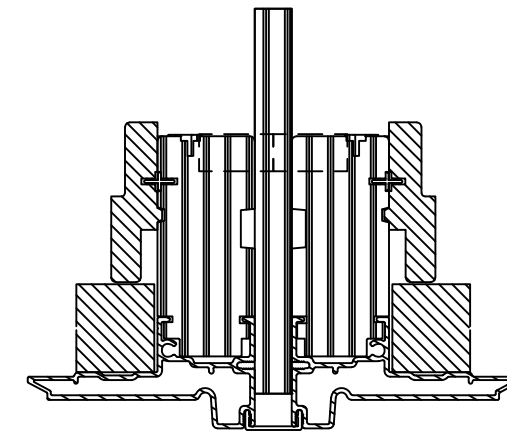
- 1) MULLION CHART APPLIES TO 1/2" X 3-1/2" LVL MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.
- 6) TRIBUTARY WIDTH = $W = (A+B)/2$
- 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.

6/8/2023 6:10 PM
s:\projects\andersen windows\cc-23-0406 - fbc 2023 code change (8th edition)\124230\dwgs\awd211 - e-series fixed casement (non-hvhz)(non-impact).dwg

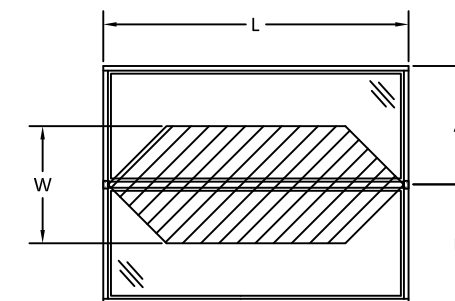
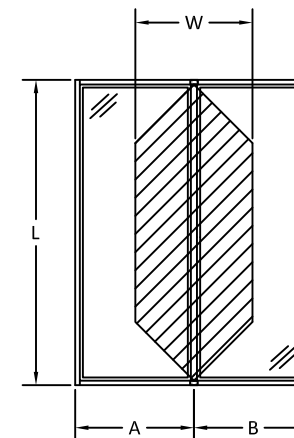
6/8/2023 6:10 PM

s:\projects\andersen windows\cc-23-0406 - fbc 2023 code change (8th edition)\124230\dwgs\awd211 - e-series fixed casement (non-hvzh)(non-impact).dwg

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1/2" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
30.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
36.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
42.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
48.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
54.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
60.0	75.00	75.00	75.00	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88
66.0	75.00	75.00	66.86	62.40	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88
72.0	75.00	69.33	58.50	53.49	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00
78.0	75.00	62.40	52.00	46.80	44.57	44.31	44.31	44.31	44.31	44.31	44.31	44.31	44.31	44.31	44.31
84.0	75.00	56.73	46.80	41.43	38.29	37.30	37.30	37.30	37.30	37.30	37.30	37.30	37.30	37.30	37.30
90.0	69.91	48.35	38.18	32.71	29.78	28.48	28.30	28.30	28.30	28.30	28.30	28.30	28.30	28.30	28.30
96.0	57.39	39.53	31.01	26.33	23.68	22.31	21.86	21.86	21.86	21.86	21.86	21.86	21.86	21.86	21.86
102.0	47.70	32.74	25.55	21.54	19.18	17.85	17.24	17.16	17.16	17.16	17.16	17.16	17.16	17.16	17.16
108.0	40.09	27.42	21.31	17.86	15.78	14.53	13.87	13.65	13.65	13.65	13.65	13.65	13.65	13.65	13.65
114.0	34.01	23.21	17.97	14.98	13.15	12.01	11.35	11.04	11.00	11.00	11.00	11.00	11.00	11.00	11.00
120.0	29.11	19.82	15.30	12.70	11.09	10.06	9.42	9.08	8.96	8.96	8.96	8.96	8.96	8.96	8.96
126.0	25.10	17.06	13.14	10.87	9.44	8.52	7.92	7.56	7.39	7.37	7.37	7.37	7.37	7.37	7.37
132.0	21.80	14.79	11.36	9.37	8.11	7.28	6.73	6.38	6.19	6.12	6.12	6.12	6.12	6.12	6.12
138.0	19.06	12.91	9.90	8.14	7.03	6.28	5.77	5.44	5.23	5.14	5.12	5.12	5.12	5.12	5.12
144.0	16.76	11.34	8.68	7.12	6.13	5.45	4.99	4.68	4.47	4.36	4.32	4.32	4.32	4.32	4.32
150.0	14.81	10.01	7.65	6.27	5.38	4.77	4.35	4.06	3.86	3.74	3.68	3.67	3.67	3.67	3.67
156.0	13.16	8.88	6.78	5.54	4.75	4.20	3.82	3.54	3.36	3.23	3.16	3.14	3.14	3.14	3.14
162.0	11.74	7.92	6.04	4.93	4.21	3.72	3.37	3.12	2.94	2.82	2.74	2.70	2.70	2.70	2.70
168.0	10.52	7.09	5.40	4.40	3.75	3.31	2.99	2.76	2.59	2.47	2.39	2.35	2.33	2.33	2.33
174.0	9.46	6.37	4.85	3.95	3.36	2.96	2.66	2.45	2.29	2.18	2.10	2.05	2.03	2.03	2.03
180.0	8.54	5.75	4.37	3.55	3.02	2.65	2.39	2.19	2.04	1.94	1.86	1.81	1.78	1.77	1.77
186.0	7.74	5.21	3.95	3.21	2.73	2.39	2.15	1.97	1.83	1.73	1.66	1.60	1.57	1.55	1.55
192.0	7.03	4.73	3.59	2.91	2.47	2.16	1.94	1.77	1.65	1.55	1.48	1.43	1.39	1.37	1.37



**1/2" X 5 3/16"
LVL MULL PROFILE**



$$\frac{A + B = W}{2}$$

NOTE:

- 1) MULLION CHART APPLIES TO 1/2" X 5-3/16" LVL MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.
- 6) TRIBUTARY WIDTH = $W = (A+B)/2$
- 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



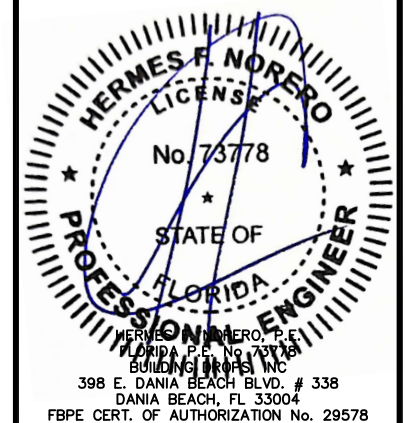
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT) 1/2" X 5-3/16" MULLION LOADS TABLE ONE WAY

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

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.



FL #: **FL24230**

DATE: **10.12.17**

DWG. BY: **RV** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **AWD211**

SHEET:



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

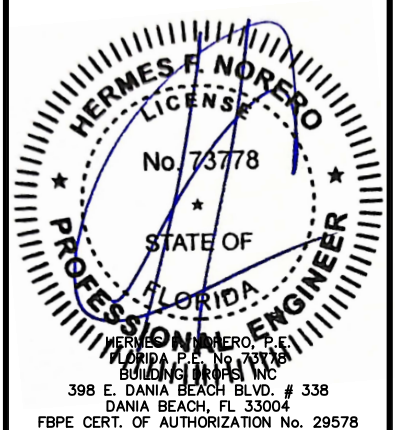
TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT) 1/2" X 5-3/16" MULLION LOADS TABLE TWO WAY

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

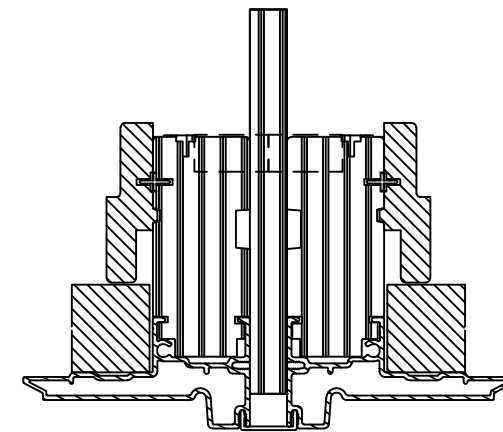
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



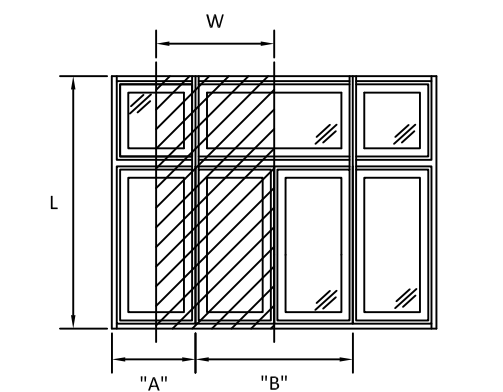
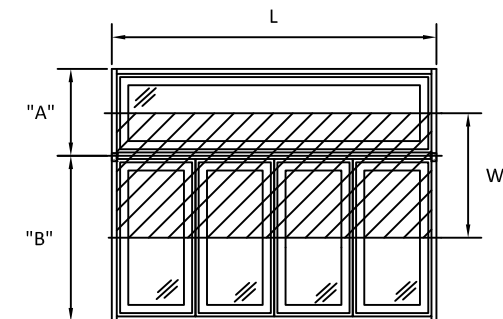
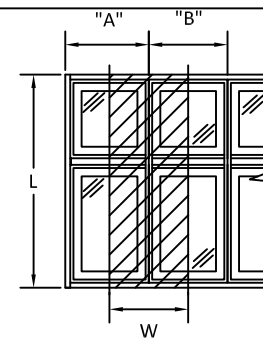
FL #:	FL24230
DATE:	10.12.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD211
SHEET:	16

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)
1/2" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION

L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	66.86	58.50	52.00	46.80	42.55	39.00	36.00	33.43	31.20	29.25
30.0	75.00	75.00	75.00	74.88	62.40	53.49	46.80	41.60	37.44	34.04	31.20	28.80	26.74	24.96	23.40
36.0	75.00	75.00	75.00	62.40	52.00	44.57	39.00	34.67	31.20	28.36	26.00	24.00	22.29	20.80	19.50
42.0	75.00	75.00	66.86	53.49	44.57	38.20	33.43	29.71	26.74	24.31	22.29	20.57	19.10	17.83	16.71
48.0	75.00	75.00	58.50	46.80	39.00	33.43	29.25	26.00	23.40	21.27	19.50	18.00	16.71	15.60	14.63
54.0	75.00	69.33	52.00	41.60	34.67	29.71	26.00	23.11	20.80	18.91	17.33	16.00	14.86	13.87	13.00
60.0	75.00	62.40	46.80	37.44	31.20	26.74	23.40	20.80	18.72	17.02	15.60	14.40	13.37	12.48	11.70
66.0	75.00	56.73	42.55	34.04	28.36	24.31	21.27	18.91	17.02	15.47	14.18	13.09	12.16	11.35	10.64
72.0	75.00	52.00	39.00	31.20	26.00	22.29	19.50	17.33	15.60	14.18	13.00	12.00	11.14	10.40	9.75
78.0	72.00	48.00	36.00	28.80	24.00	20.57	18.00	16.00	14.40	13.09	12.00	11.08	10.29	9.60	9.00
84.0	66.86	44.57	33.43	26.74	22.29	19.10	16.71	14.86	13.37	12.16	11.14	10.29	9.55	8.91	8.36
90.0	62.40	41.60	31.20	24.96	20.80	17.83	15.60	13.87	12.48	11.35	10.40	9.60	8.91	8.32	7.80
96.0	55.97	37.32	27.99	22.39	18.66	15.99	13.99	12.44	11.19	10.18	9.33	8.61	8.00	7.46	7.00
102.0	46.67	31.11	23.33	18.67	15.56	13.33	11.67	10.37	9.33	8.48	7.78	7.18	6.67	6.22	5.83
108.0	39.31	26.21	19.66	15.72	13.10	11.23	9.83	8.74	7.86	7.15	6.55	6.05	5.62	5.24	4.91
114.0	33.43	22.28	16.71	13.37	11.14	9.55	8.36	7.43	6.69	6.08	5.57	5.14	4.78	4.46	4.18
120.0	28.66	19.11	14.33	11.46	9.55	8.19	7.16	6.37	5.73	5.21	4.78	4.41	4.09	3.82	3.58
126.0	24.76	16.50	12.38	9.90	8.25	7.07	6.19	5.50	4.95	4.50	4.13	3.81	3.54	3.30	3.09
132.0	21.53	14.35	10.77	8.61	7.18	6.15	5.38	4.78	4.31	3.91	3.59	3.31	3.08	2.87	2.69
138.0	18.84	12.56	9.42	7.54	6.28	5.38	4.71	4.19	3.77	3.43	3.14	2.90	2.69	2.51	2.36
144.0	16.58	11.06	8.29	6.63	5.53	4.74	4.15	3.69	3.32	3.02	2.76	2.55	2.37	2.21	2.07
150.0	14.67	9.78	7.34	5.87	4.89	4.19	3.67	3.26	2.93	2.67	2.45	2.26	2.10	1.96	1.83
156.0	13.04	8.70	6.52	5.22	4.35	3.73	3.26	2.90	2.61	2.37	2.17	2.01	1.86	1.74	1.63
162.0	11.65	7.77	5.82	4.66	3.88	3.33	2.91	2.59	2.33	2.12	1.94	1.79	1.66	1.55	1.46
168.0	10.44	6.96	5.22	4.18	3.48	2.98	2.61	2.32	2.09	1.90	1.74	1.61	1.49	1.39	1.31
174.0	9.40	6.27	4.70	3.76	3.13	2.69	2.35	2.09	1.88	1.71	1.57	1.45	1.34	1.25	1.18
180.0	8.49	5.66	4.25	3.40	2.83	2.43	2.12	1.89	1.70	1.54	1.42	1.31	1.21	1.13	1.06
186.0	7.70	5.13	3.85	3.08	2.57	2.20	1.92	1.71	1.54	1.40	1.28	1.18	1.10	1.03	0.96
192.0	7.00	4.66	3.50	2.80	2.33	2.00	1.75	1.55	1.40	1.27	1.17	1.08	1.00	0.93	0.87



1/2" X 5 3/16" LVL MULL PROFILE

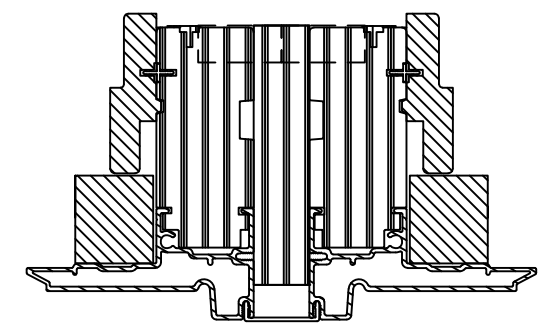


$$\frac{A + B}{2} = W$$

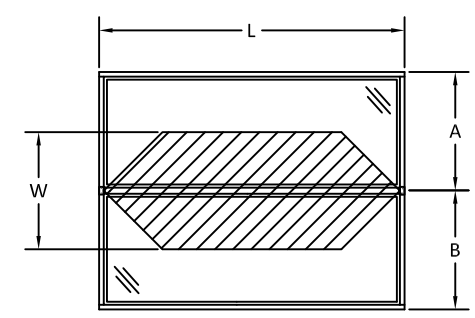
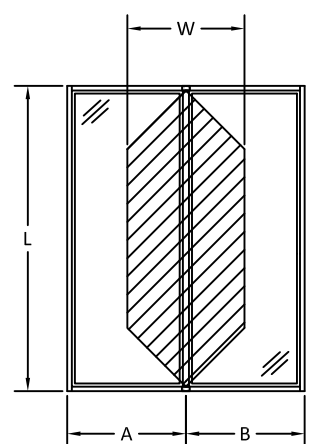
- NOTE:**
- 1) MULLION CHART APPLIES TO 1/2" X 5-3/16" LVL MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.

6/8/2023 6:10 PM
s:\projects\andersen windows\cc-23-0406 - fbc 2023 code change (8th edition)\124230\dwgs\awd211 - e-series fixed casement (non-hvzh)(non-impact).dwg

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
3/4" x 3-1/2" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
30.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
36.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
42.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
48.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
54.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
60.0	75.00	75.00	75.00	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88
66.0	75.00	75.00	66.86	61.01	60.27	60.27	60.27	60.27	60.27	60.27	60.27	60.27	60.27	60.27	60.27
72.0	75.00	67.50	54.46	48.32	46.42	46.42	46.42	46.42	46.42	46.42	46.42	46.42	46.42	46.42	46.42
78.0	75.00	53.13	42.72	37.57	35.40	35.11	35.11	35.11	35.11	35.11	35.11	35.11	35.11	35.11	35.11
84.0	60.43	42.03	33.45	28.99	26.79	26.10	26.10	26.10	26.10	26.10	26.10	26.10	26.10	26.10	26.10
90.0	48.92	33.84	26.72	22.89	20.84	19.93	19.81	19.81	19.81	19.81	19.81	19.81	19.81	19.81	19.81
96.0	40.16	27.66	21.70	18.43	16.57	15.61	15.30	15.30	15.30	15.30	15.30	15.30	15.30	15.30	15.30
102.0	33.38	22.91	17.88	15.07	13.42	12.49	12.07	12.01	12.01	12.01	12.01	12.01	12.01	12.01	12.01
108.0	28.05	19.19	14.92	12.50	11.04	10.17	9.71	9.55	9.55	9.55	9.55	9.55	9.55	9.55	9.55
114.0	23.80	16.24	12.58	10.49	9.20	8.41	7.94	7.73	7.69	7.69	7.69	7.69	7.69	7.69	7.69
120.0	20.37	13.87	10.71	8.89	7.76	7.04	6.59	6.35	6.27	6.27	6.27	6.27	6.27	6.27	6.27
126.0	17.57	11.94	9.19	7.61	6.61	5.96	5.54	5.29	5.17	5.16	5.16	5.16	5.16	5.16	5.16
132.0	15.26	10.35	7.95	6.56	5.68	5.09	4.71	4.46	4.33	4.28	4.28	4.28	4.28	4.28	4.28
138.0	13.34	9.03	6.93	5.70	4.92	4.39	4.04	3.80	3.66	3.59	3.58	3.58	3.58	3.58	3.58
144.0	11.73	7.93	6.07	4.98	4.29	3.82	3.49	3.27	3.13	3.05	3.02	3.02	3.02	3.02	3.02
150.0	10.36	7.00	5.35	4.39	3.76	3.34	3.04	2.84	2.70	2.62	2.57	2.57	2.57	2.57	2.57
156.0	9.21	6.22	4.74	3.88	3.32	2.94	2.67	2.48	2.35	2.26	2.21	2.19	2.19	2.19	2.19
162.0	8.22	5.54	4.22	3.45	2.95	2.60	2.36	2.18	2.06	1.97	1.92	1.89	1.89	1.89	1.89
168.0	7.36	4.96	3.78	3.08	2.63	2.31	2.09	1.93	1.81	1.73	1.67	1.64	1.63	1.63	1.63
174.0	6.62	4.46	3.39	2.76	2.35	2.07	1.86	1.72	1.61	1.53	1.47	1.44	1.42	1.42	1.42
180.0	5.98	4.02	3.06	2.49	2.11	1.86	1.67	1.53	1.43	1.36	1.30	1.27	1.25	1.24	1.24
186.0	5.42	3.64	2.77	2.25	1.91	1.67	1.50	1.38	1.28	1.21	1.16	1.12	1.10	1.09	1.09
192.0	4.92	3.31	2.51	2.04	1.73	1.51	1.36	1.24	1.15	1.09	1.04	1.00	0.98	0.96	0.96



**3/4" X 3 1/2"
LVL MULL PROFILE**



$A + B = W$
2

- NOTE:**
- 1) MULLION CHART APPLIES TO 3/4" X 3-1/2" LVL MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



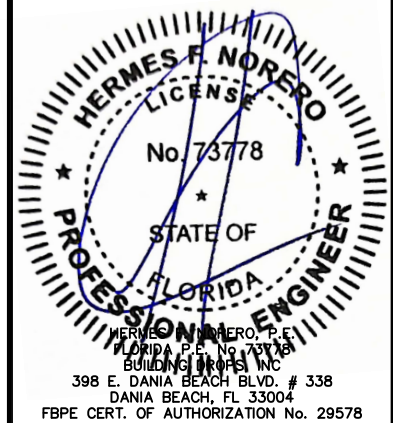
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT)
3/4" X 3-1/2" MULLION LOADS TABLE ONE WAY

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 359-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

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.



FL #:
FL24230

DATE: **10.12.17**

DWG. BY: **RV** CHK. BY: **HFN**

SCALE: **NTS**

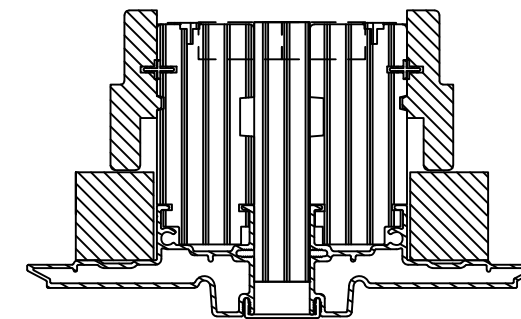
DWG. #: **AWD211**

SHEET:

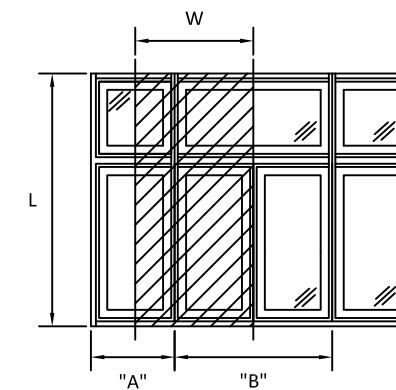
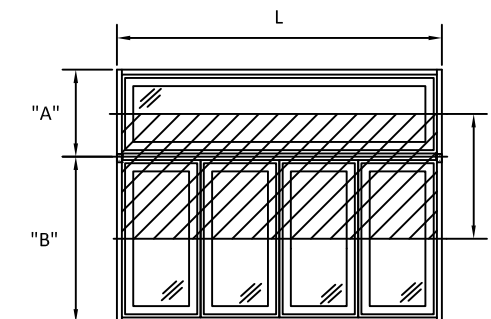
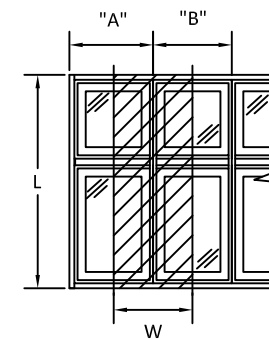
6/8/2023 6:10 PM

s:\projects\andersen windows\cc-23-0406 - fbc 2023 code change (8th edition)\124230\dwgs\awd211 - e-series fixed casement (non-hvHz)(non-impact).dwg

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
3/4" X 3-1/2" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	66.86	58.50	52.00	46.80	42.55	39.00	36.00	33.43	31.20	29.25
30.0	75.00	75.00	75.00	74.88	62.40	53.49	46.80	41.60	37.44	34.04	31.20	28.80	26.74	24.96	23.40
36.0	75.00	75.00	75.00	62.40	52.00	44.57	39.00	34.67	31.20	28.36	26.00	24.00	22.29	20.80	19.50
42.0	75.00	75.00	66.86	53.49	44.57	38.20	33.43	29.71	26.74	24.31	22.29	20.57	19.10	17.83	16.71
48.0	75.00	75.00	58.50	46.80	39.00	33.43	29.25	26.00	23.40	21.27	19.50	18.00	16.71	15.60	14.63
54.0	75.00	69.33	52.00	41.60	34.67	29.71	26.00	23.11	20.80	18.91	17.33	16.00	14.86	13.87	13.00
60.0	75.00	62.40	46.80	37.44	31.20	26.74	23.40	20.80	18.72	17.02	15.60	14.40	13.37	12.48	11.70
66.0	75.00	56.73	42.55	34.04	28.36	24.31	21.27	18.91	17.02	15.47	14.18	13.09	12.16	11.35	10.64
72.0	75.00	52.00	39.00	31.20	26.00	22.29	19.50	17.33	15.60	14.18	13.00	12.00	11.14	10.40	9.75
78.0	72.00	48.00	36.00	28.80	24.00	20.57	18.00	16.00	14.40	13.09	12.00	11.08	10.29	9.60	9.00
84.0	58.47	38.98	29.23	23.39	19.49	16.71	14.62	12.99	11.69	10.63	9.74	9.00	8.35	7.80	7.31
90.0	47.54	31.69	23.77	19.01	15.85	13.58	11.88	10.56	9.51	8.64	7.92	7.31	6.79	6.34	5.94
96.0	39.17	26.11	19.58	15.67	13.06	11.19	9.79	8.70	7.83	7.12	6.53	6.03	5.60	5.22	4.90
102.0	32.66	21.77	16.33	13.06	10.89	9.33	8.16	7.26	6.53	5.94	5.44	5.02	4.67	4.35	4.08
108.0	27.51	18.34	13.76	11.00	9.17	7.86	6.88	6.11	5.50	5.00	4.59	4.23	3.93	3.67	3.44
114.0	23.39	15.59	11.70	9.36	7.80	6.68	5.85	5.20	4.68	4.25	3.90	3.60	3.34	3.12	2.92
120.0	20.05	13.37	10.03	8.02	6.68	5.73	5.01	4.46	4.01	3.65	3.34	3.09	2.86	2.67	2.51
126.0	17.32	11.55	8.66	6.93	5.77	4.95	4.33	3.85	3.46	3.15	2.89	2.67	2.47	2.31	2.17
132.0	15.07	10.04	7.53	6.03	5.02	4.30	3.77	3.35	3.01	2.74	2.51	2.32	2.15	2.01	1.88
138.0	13.19	8.79	6.59	5.27	4.40	3.77	3.30	2.93	2.64	2.40	2.20	2.03	1.88	1.76	1.65
144.0	11.61	7.74	5.80	4.64	3.87	3.32	2.90	2.58	2.32	2.11	1.93	1.79	1.66	1.55	1.45
150.0	10.27	6.85	5.13	4.11	3.42	2.93	2.57	2.28	2.05	1.87	1.71	1.58	1.47	1.37	1.28
156.0	9.13	6.09	4.56	3.65	3.04	2.61	2.28	2.03	1.83	1.66	1.52	1.40	1.30	1.22	1.14
162.0	8.15	5.43	4.08	3.26	2.72	2.33	2.04	1.81	1.63	1.48	1.36	1.25	1.16	1.09	1.02
168.0	7.31	4.87	3.65	2.92	2.44	2.09	1.83	1.62	1.46	1.33	1.22	1.12	1.04	0.97	0.91
174.0	6.58	4.39	3.29	2.63	2.19	1.88	1.64	1.46	1.32	1.20	1.10	1.01	0.94	0.88	0.82
180.0	5.94	3.96	2.97	2.38	1.98	1.70	1.49	1.32	1.19	1.08	0.99	0.91	0.85	0.79	0.74
186.0	5.39	3.59	2.69	2.15	1.80	1.54	1.35	1.20	1.08	0.98	0.90	0.83	0.77	0.72	0.67
192.0	4.90	3.26	2.45	1.96	1.63	1.40	1.22	1.09	0.98	0.89	0.82	0.75	0.70	0.65	0.61



**3/4" X 3 1/2"
LVL MULL PROFILE**



$$\frac{A + B = W}{2}$$

NOTE:

- 1) MULLION CHART APPLIES TO 3/4" X 3-1/2" LVL MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.
- 6) TRIBUTARY WIDTH = $W = (A+B)/2$
- 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



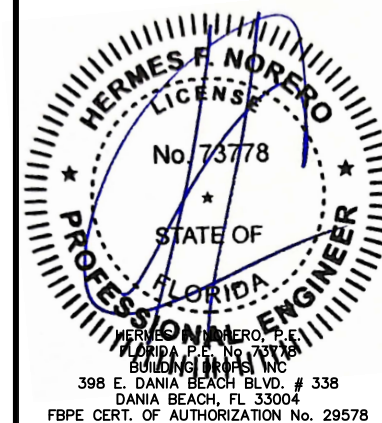
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT)
3/4" X 3-1/2" MULLION LOADS TABLE TWO WAY

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

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.

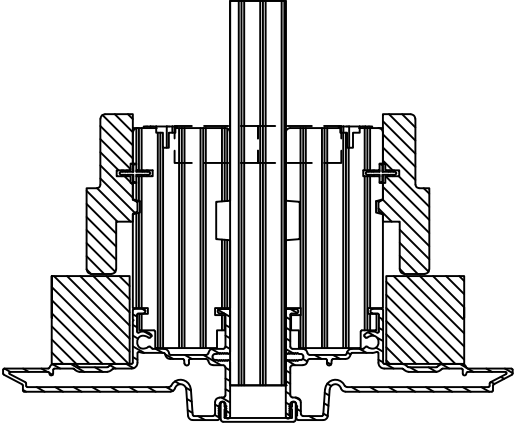


FL #:	FL24230
DATE:	10.12.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD211
SHEET:	18

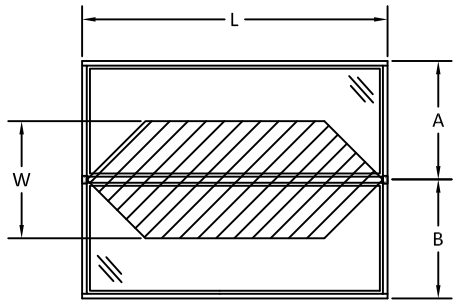
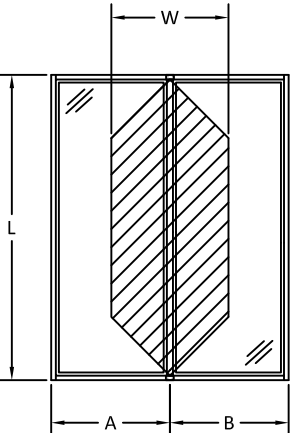
6/8/2023 6:10 PM

s:\projects\andersen windows\cc-23-0406 - fbc 2023 code change (8th edition)\124230\dwgs\awd211 - e-series fixed casement (non-hvzh)(non-impact).dwg

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
3/4" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
30.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
36.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
42.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
48.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
54.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
60.0	75.00	75.00	75.00	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88
66.0	75.00	75.00	66.86	62.40	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88
72.0	75.00	69.33	58.50	53.49	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00
78.0	75.00	62.40	52.00	46.80	44.57	44.31	44.31	44.31	44.31	44.31	44.31	44.31	44.31	44.31	44.31
84.0	75.00	56.73	46.80	41.60	39.00	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20
90.0	72.00	52.00	42.55	37.44	34.67	33.43	33.28	33.28	33.28	33.28	33.28	33.28	33.28	33.28	33.28
96.0	66.86	48.00	39.00	33.66	30.27	28.52	27.95	27.95	27.95	27.95	27.95	27.95	27.95	27.95	27.95
102.0	60.98	41.85	32.66	27.53	24.52	22.82	22.04	21.93	21.93	21.93	21.93	21.93	21.93	21.93	21.93
108.0	51.24	35.06	27.25	22.83	20.17	18.58	17.73	17.45	17.45	17.45	17.45	17.45	17.45	17.45	17.45
114.0	43.48	29.67	22.97	19.15	16.81	15.36	14.51	14.11	14.06	14.06	14.06	14.06	14.06	14.06	14.06
120.0	37.21	25.33	19.56	16.24	14.17	12.86	12.04	11.60	11.45	11.45	11.45	11.45	11.45	11.45	11.45
126.0	32.09	21.81	16.79	13.89	12.07	10.89	10.12	9.67	9.45	9.42	9.42	9.42	9.42	9.42	9.42
132.0	27.87	18.91	14.53	11.98	10.37	9.31	8.60	8.15	7.91	7.82	7.82	7.82	7.82	7.82	7.82
138.0	24.36	16.50	12.65	10.41	8.98	8.02	7.38	6.95	6.69	6.57	6.55	6.55	6.55	6.55	6.55
144.0	21.42	14.49	11.09	9.11	7.83	6.97	6.38	5.98	5.72	5.57	5.52	5.52	5.52	5.52	5.52
150.0	18.93	12.80	9.78	8.01	6.87	6.10	5.56	5.19	4.93	4.78	4.70	4.69	4.69	4.69	4.69
156.0	16.82	11.35	8.66	7.09	6.07	5.37	4.88	4.53	4.29	4.13	4.04	4.01	4.01	4.01	4.01
162.0	15.01	10.12	7.72	6.30	5.38	4.75	4.30	3.98	3.76	3.60	3.50	3.45	3.45	3.45	3.45
168.0	13.45	9.06	6.90	5.63	4.80	4.23	3.82	3.52	3.31	3.16	3.06	3.00	2.98	2.98	2.98
174.0	12.10	8.15	6.20	5.05	4.30	3.78	3.41	3.13	2.93	2.79	2.69	2.63	2.60	2.59	2.59
180.0	10.92	7.35	5.59	4.54	3.86	3.39	3.05	2.80	2.61	2.48	2.38	2.31	2.28	2.26	2.26
186.0	9.89	6.65	5.05	4.11	3.49	3.06	2.74	2.51	2.34	2.21	2.12	2.05	2.01	1.99	1.98
192.0	8.99	6.04	4.59	3.72	3.16	2.76	2.48	2.26	2.10	1.98	1.89	1.83	1.78	1.76	1.75



3/4" X 5 3/16" LVL MULL PROFILE



$A + B = W$

- NOTE:**
- 1) MULLION CHART APPLIES TO 3/4" X 5-3/16" LVL MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



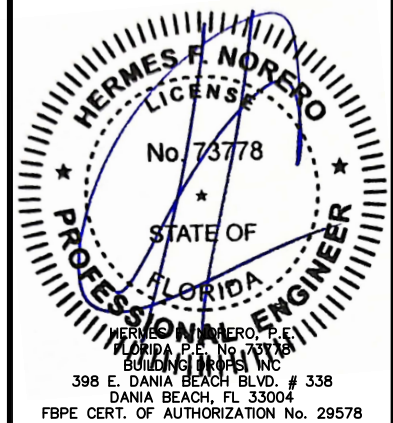
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT) ONE WAY 3/4" X 5-3/16" MULLION LOADS TABLE

PREPARED BY: BUILDING DROPS, INC. 398 E. DANIA BEACH BLVD., STE. 338 DANIA BEACH, FL 33004 PH: (954) 399-8478 FAX: (954) 744-4738 WEB: www.buildingdrops.com

REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

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.



FL #: **FL24230**

DATE: **10.12.17**

DWG. BY: **RV** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **AWD211**

SHEET:



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

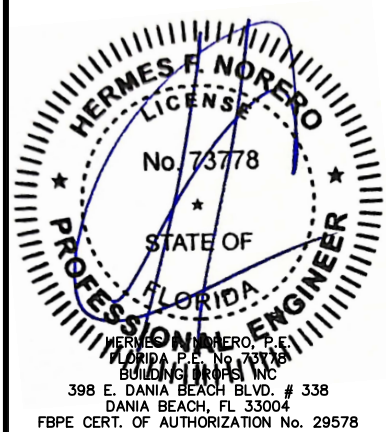
TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT) ONE WAY
3/4" X 5-3/16" MULLION LOADS TABLE

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

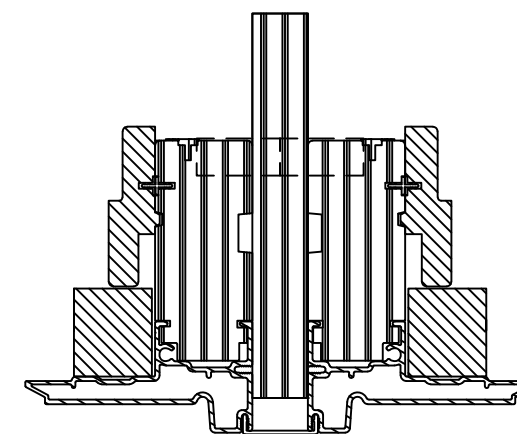
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



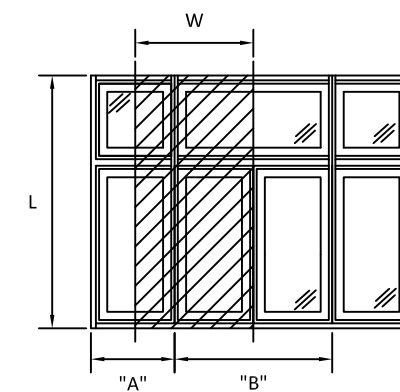
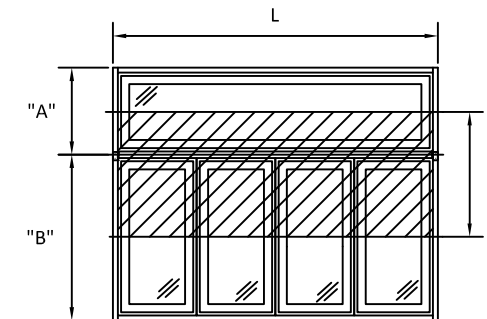
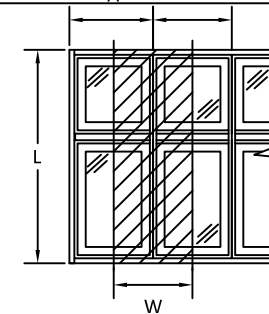
FL #:	FL24230
DATE:	10.12.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD211
SHEET:	20

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)
3/4" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION

L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	66.86	58.50	52.00	46.80	42.55	39.00	36.00	33.43	31.20	29.25
30.0	75.00	75.00	75.00	74.88	62.40	53.49	46.80	41.60	37.44	34.04	31.20	28.80	26.74	24.96	23.40
36.0	75.00	75.00	75.00	62.40	52.00	44.57	39.00	34.67	31.20	28.36	26.00	24.00	22.29	20.80	19.50
42.0	75.00	75.00	66.86	53.49	44.57	38.20	33.43	29.71	26.74	24.31	22.29	20.57	19.10	17.83	16.71
48.0	75.00	75.00	58.50	46.80	39.00	33.43	29.25	26.00	23.40	21.27	19.50	18.00	16.71	15.60	14.63
54.0	75.00	69.33	52.00	41.60	34.67	29.71	26.00	23.11	20.80	18.91	17.33	16.00	14.86	13.87	13.00
60.0	75.00	62.40	46.80	37.44	31.20	26.74	23.40	20.80	18.72	17.02	15.60	14.40	13.37	12.48	11.70
66.0	75.00	56.73	42.55	34.04	28.36	24.31	21.27	18.91	17.02	15.47	14.18	13.09	12.16	11.35	10.64
72.0	75.00	52.00	39.00	31.20	26.00	22.29	19.50	17.33	15.60	14.18	13.00	12.00	11.14	10.40	9.75
78.0	72.00	48.00	36.00	28.80	24.00	20.57	18.00	16.00	14.40	13.09	12.00	11.08	10.29	9.60	9.00
84.0	66.86	44.57	33.43	26.74	22.29	19.10	16.71	14.86	13.37	12.16	11.14	10.29	9.55	8.91	8.36
90.0	62.40	41.60	31.20	24.96	20.80	17.83	15.60	13.87	12.48	11.35	10.40	9.60	8.91	8.32	7.80
96.0	58.50	39.00	29.25	23.40	19.50	16.71	14.63	13.00	11.70	10.64	9.75	9.00	8.36	7.80	7.31
102.0	55.06	36.71	27.53	22.02	18.35	15.73	13.76	12.24	11.01	10.01	9.18	8.47	7.87	7.34	6.88
108.0	50.25	33.50	25.13	20.10	16.75	14.36	12.56	11.17	10.05	9.14	8.38	7.73	7.18	6.70	6.28
114.0	42.73	28.49	21.36	17.09	14.24	12.21	10.68	9.50	8.55	7.77	7.12	6.57	6.10	5.70	5.34
120.0	36.64	24.42	18.32	14.65	12.21	10.47	9.16	8.14	7.33	6.66	6.11	5.64	5.23	4.88	4.58
126.0	31.65	21.10	15.82	12.66	10.55	9.04	7.91	7.03	6.33	5.75	5.27	4.87	4.52	4.22	3.96
132.0	27.52	18.35	13.76	11.01	9.17	7.86	6.88	6.12	5.50	5.00	4.59	4.23	3.93	3.67	3.44
138.0	24.09	16.06	12.04	9.64	8.03	6.88	6.02	5.35	4.82	4.38	4.01	3.71	3.44	3.21	3.01
144.0	21.20	14.13	10.60	8.48	7.07	6.06	5.30	4.71	4.24	3.85	3.53	3.26	3.03	2.83	2.65
150.0	18.76	12.50	9.38	7.50	6.25	5.36	4.69	4.17	3.75	3.41	3.13	2.89	2.68	2.50	2.34
156.0	16.68	11.12	8.34	6.67	5.56	4.76	4.17	3.71	3.34	3.03	2.78	2.57	2.38	2.22	2.08
162.0	14.89	9.93	7.45	5.96	4.96	4.25	3.72	3.31	2.98	2.71	2.48	2.29	2.13	1.99	1.86
168.0	13.35	8.90	6.68	5.34	4.45	3.81	3.34	2.97	2.67	2.43	2.23	2.05	1.91	1.78	1.67
174.0	12.02	8.01	6.01	4.81	4.01	3.43	3.00	2.67	2.40	2.18	2.00	1.85	1.72	1.60	1.50
180.0	10.86	7.24	5.43	4.34	3.62	3.10	2.71	2.41	2.17	1.97	1.81	1.67	1.55	1.45	1.36
186.0	9.84	6.56	4.92	3.94	3.28	2.81	2.46	2.19	1.97	1.79	1.64	1.51	1.41	1.31	1.23
192.0	8.94	5.96	4.47	3.58	2.98	2.56	2.24	1.99	1.79	1.63	1.49	1.38	1.28	1.19	1.12



3/4" X 5 3/16"
LVL MULL PROFILE



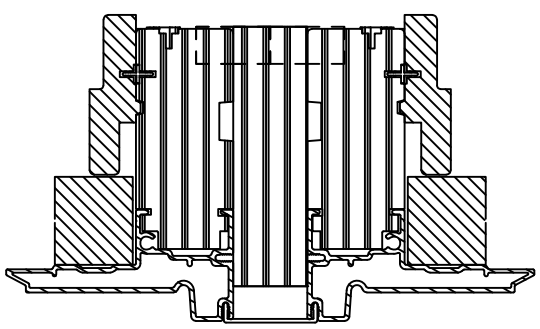
$A + B = W$
2

- NOTE:**
- 1) MULLION CHART APPLIES TO 3/4" X 5-3/16" LVL MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.

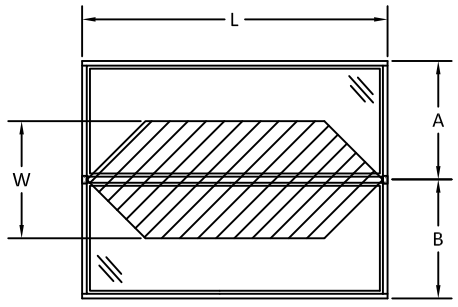
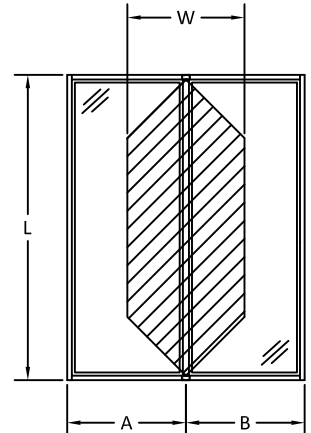
6/8/2023 6:10 PM

s:\projects\andersen windows\cc-23-0406 - fbc 2023 code change (8th edition)\124230\dwgs\awd211 - e-series fixed casement (non-hvhl(non-impact).dwg

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1" X 3-1/2" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
30.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
36.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
42.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
48.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
54.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
60.0	75.00	75.00	75.00	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88
66.0	75.00	75.00	66.86	62.40	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88
72.0	75.00	69.33	58.50	53.49	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00
78.0	75.00	59.62	47.94	42.16	39.72	39.40	39.40	39.40	39.40	39.40	39.40	39.40	39.40	39.40	39.40
84.0	67.82	47.16	37.54	32.53	30.07	29.29	29.29	29.29	29.29	29.29	29.29	29.29	29.29	29.29	29.29
90.0	54.90	37.97	29.98	25.69	23.38	22.37	22.23	22.23	22.23	22.23	22.23	22.23	22.23	22.23	22.23
96.0	45.07	31.04	24.35	20.68	18.59	17.52	17.17	17.17	17.17	17.17	17.17	17.17	17.17	17.17	17.17
102.0	37.46	25.71	20.07	16.91	15.06	14.02	13.54	13.47	13.47	13.47	13.47	13.47	13.47	13.47	13.47
108.0	31.48	21.53	16.74	14.02	12.39	11.41	10.89	10.72	10.72	10.72	10.72	10.72	10.72	10.72	10.72
114.0	26.71	18.22	14.11	11.77	10.33	9.43	8.91	8.67	8.63	8.63	8.63	8.63	8.63	8.63	8.63
120.0	22.86	15.56	12.01	9.98	8.71	7.90	7.40	7.13	7.03	7.03	7.03	7.03	7.03	7.03	7.03
126.0	19.71	13.40	10.31	8.53	7.42	6.69	6.22	5.94	5.81	5.79	5.79	5.79	5.79	5.79	5.79
132.0	17.12	11.62	8.92	7.36	6.37	5.72	5.28	5.01	4.86	4.80	4.80	4.80	4.80	4.80	4.80
138.0	14.97	10.14	7.77	6.40	5.52	4.93	4.53	4.27	4.11	4.03	4.02	4.02	4.02	4.02	4.02
144.0	13.16	8.90	6.81	5.59	4.81	4.28	3.92	3.67	3.51	3.42	3.39	3.39	3.39	3.39	3.39
150.0	11.63	7.86	6.01	4.92	4.22	3.75	3.42	3.19	3.03	2.93	2.89	2.88	2.88	2.88	2.88
156.0	10.33	6.97	5.32	4.35	3.73	3.30	3.00	2.78	2.63	2.54	2.48	2.46	2.46	2.46	2.46
162.0	9.22	6.22	4.74	3.87	3.31	2.92	2.64	2.45	2.31	2.21	2.15	2.12	2.12	2.12	2.12
168.0	8.26	5.57	4.24	3.46	2.95	2.60	2.35	2.16	2.03	1.94	1.88	1.84	1.83	1.83	1.83
174.0	7.43	5.00	3.81	3.10	2.64	2.32	2.09	1.92	1.80	1.71	1.65	1.61	1.59	1.59	1.59
180.0	6.71	4.51	3.43	2.79	2.37	2.08	1.87	1.72	1.61	1.52	1.46	1.42	1.40	1.39	1.39
186.0	6.08	4.09	3.10	2.52	2.14	1.88	1.69	1.54	1.44	1.36	1.30	1.26	1.23	1.22	1.22
192.0	5.52	3.71	2.82	2.29	1.94	1.70	1.52	1.39	1.29	1.22	1.16	1.12	1.10	1.08	1.07



**1" X 3 1/2"
LVL MULL PROFILE**



$A + B = W$
2

- NOTE:**
- 1) MULLION CHART APPLIES TO 1" X 3-1/2" LVL MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



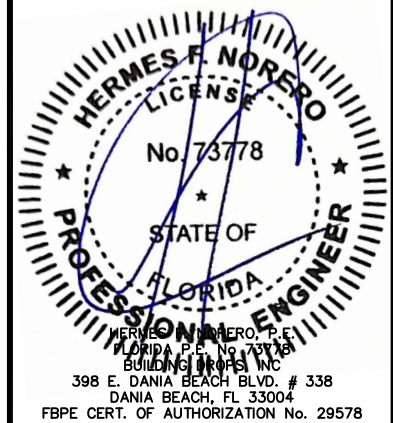
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT) ONE WAY
1" X 3-1/2" MULLION LOADS TABLE

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

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.



FL #: **FL24230**

DATE: **10.12.17**

DWG. BY: **RV** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **AWD211**

SHEET:



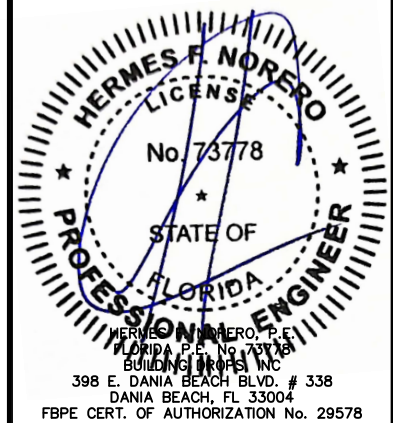
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT) 1" X 3-1/2" MULLION LOADS TABLE TWO WAY

PREPARED BY: BUILDING DROPS, INC. 398 E. DANIA BEACH BLVD., STE. 338 DANIA BEACH, FL 33004 PH: (954) 399-8478 FAX: (954) 744-4738 WEB: www.buildingdrops.com

REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

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.



FL #: **FL24230**

DATE: **10.12.17**

DWG. BY: **RV** CHK. BY: **HFN**

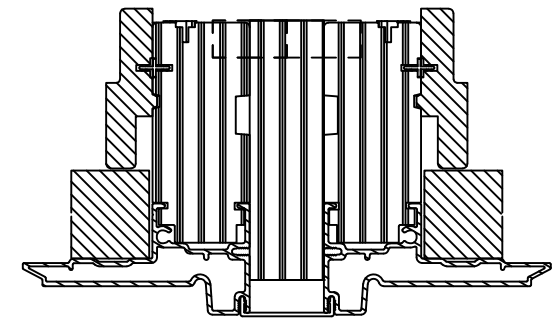
SCALE: **NTS**

DWG. #: **AWD211**

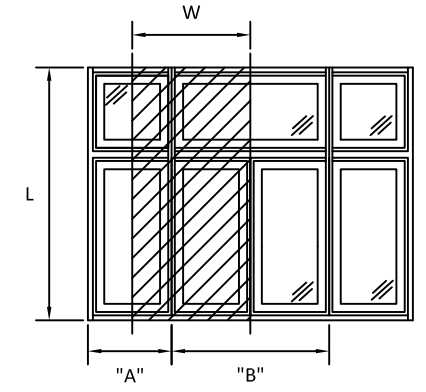
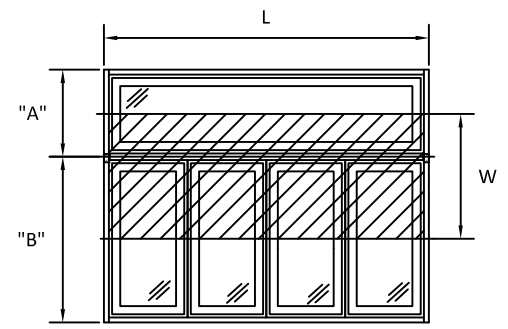
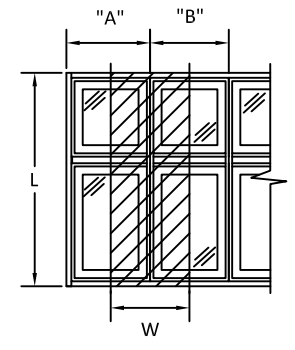
SHEET:

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)
1" X 3-1/2" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION

L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	66.86	58.50	52.00	46.80	42.55	39.00	36.00	33.43	31.20	29.25
30.0	75.00	75.00	75.00	74.88	62.40	53.49	46.80	41.60	37.44	34.04	31.20	28.80	26.74	24.96	23.40
36.0	75.00	75.00	75.00	62.40	52.00	44.57	39.00	34.67	31.20	28.36	26.00	24.00	22.29	20.80	19.50
42.0	75.00	75.00	66.86	53.49	44.57	38.20	33.43	29.71	26.74	24.31	22.29	20.57	19.10	17.83	16.71
48.0	75.00	75.00	58.50	46.80	39.00	33.43	29.25	26.00	23.40	21.27	19.50	18.00	16.71	15.60	14.63
54.0	75.00	69.33	52.00	41.60	34.67	29.71	26.00	23.11	20.80	18.91	17.33	16.00	14.86	13.87	13.00
60.0	75.00	62.40	46.80	37.44	31.20	26.74	23.40	20.80	18.72	17.02	15.60	14.40	13.37	12.48	11.70
66.0	75.00	56.73	42.55	34.04	28.36	24.31	21.27	18.91	17.02	15.47	14.18	13.09	12.16	11.35	10.64
72.0	75.00	52.00	39.00	31.20	26.00	22.29	19.50	17.33	15.60	14.18	13.00	12.00	11.14	10.40	9.75
78.0	72.00	48.00	36.00	28.80	24.00	20.57	18.00	16.00	14.40	13.09	12.00	11.08	10.29	9.60	9.00
84.0	65.61	43.74	32.81	26.24	21.87	18.75	16.40	14.58	13.12	11.93	10.94	10.09	9.37	8.75	8.20
90.0	53.34	35.56	26.67	21.34	17.78	15.24	13.34	11.85	10.67	9.70	8.89	8.21	7.62	7.11	6.67
96.0	43.95	29.30	21.98	17.58	14.65	12.56	10.99	9.77	8.79	7.99	7.33	6.76	6.28	5.86	5.49
102.0	36.65	24.43	18.32	14.66	12.22	10.47	9.16	8.14	7.33	6.66	6.11	5.64	5.24	4.89	4.58
108.0	30.87	20.58	15.44	12.35	10.29	8.82	7.72	6.86	6.17	5.61	5.15	4.75	4.41	4.12	3.86
114.0	26.25	17.50	13.12	10.50	8.75	7.50	6.56	5.83	5.25	4.77	4.37	4.04	3.75	3.50	3.28
120.0	22.50	15.00	11.25	9.00	7.50	6.43	5.63	5.00	4.50	4.09	3.75	3.46	3.21	3.00	2.81
126.0	19.44	12.96	9.72	7.78	6.48	5.55	4.86	4.32	3.89	3.53	3.24	2.99	2.78	2.59	2.43
132.0	16.91	11.27	8.45	6.76	5.64	4.83	4.23	3.76	3.38	3.07	2.82	2.60	2.42	2.25	2.11
138.0	14.80	9.86	7.40	5.92	4.93	4.23	3.70	3.29	2.96	2.69	2.47	2.28	2.11	1.97	1.85
144.0	13.02	8.68	6.51	5.21	4.34	3.72	3.26	2.89	2.60	2.37	2.17	2.00	1.86	1.74	1.63
150.0	11.52	7.68	5.76	4.61	3.84	3.29	2.88	2.56	2.30	2.09	1.92	1.77	1.65	1.54	1.44
156.0	10.24	6.83	5.12	4.10	3.41	2.93	2.56	2.28	2.05	1.86	1.71	1.58	1.46	1.37	1.28
162.0	9.15	6.10	4.57	3.66	3.05	2.61	2.29	2.03	1.83	1.66	1.52	1.41	1.31	1.22	1.14
168.0	8.20	5.47	4.10	3.28	2.73	2.34	2.05	1.82	1.64	1.49	1.37	1.26	1.17	1.09	1.03
174.0	7.38	4.92	3.69	2.95	2.46	2.11	1.85	1.64	1.48	1.34	1.23	1.14	1.05	0.98	0.92
180.0	6.67	4.45	3.33	2.67	2.22	1.91	1.67	1.48	1.33	1.21	1.11	1.03	0.95	0.89	0.83
186.0	6.04	4.03	3.02	2.42	2.01	1.73	1.51	1.34	1.21	1.10	1.01	0.93	0.86	0.81	0.76
192.0	5.49	3.66	2.75	2.20	1.83	1.57	1.37	1.22	1.10	1.00	0.92	0.85	0.78	0.73	0.69



1" X 3 1/2" LVL MULLION PROFILE



$$\frac{A + B}{2} = W$$

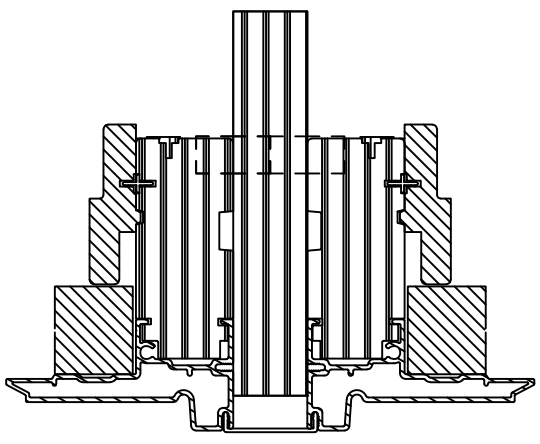
- NOTE:**
- 1) MULLION CHART APPLIES TO 1" X 3-1/2" LVL MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.

6/8/2023 6:10 PM s:\projects\andersen windows\cc-23-0406 - fbc 2023 code change (8th edition)\124230\dwgs\awd211 - e-series fixed casement (non-hvhz)(non-impact).dwg

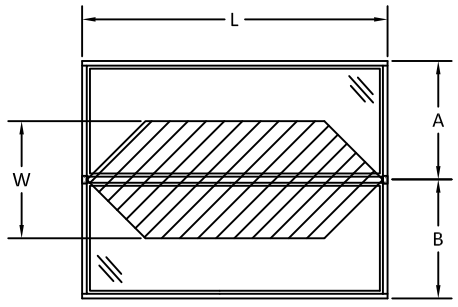
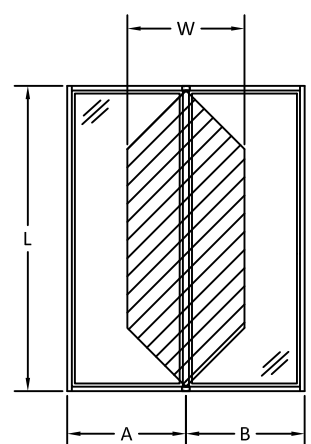
6/8/2023 6:10 PM

s:\projects\andersen windows\cc-23-0406 - fbc 2023 code change (8th edition)\124230\dwgs\awd211 - e-series fixed casement (non-hvzh)(non-impact).dwg

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
30.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
36.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
42.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
48.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
54.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
60.0	75.00	75.00	75.00	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88
66.0	75.00	75.00	66.86	62.40	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88
72.0	75.00	69.33	58.50	53.49	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00
78.0	75.00	62.40	52.00	46.80	44.57	44.31	44.31	44.31	44.31	44.31	44.31	44.31	44.31	44.31	44.31
84.0	75.00	56.73	46.80	41.60	39.00	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20
90.0	72.00	52.00	42.55	37.44	34.67	33.43	33.28	33.28	33.28	33.28	33.28	33.28	33.28	33.28	33.28
96.0	66.86	48.00	39.00	34.04	31.20	29.71	29.25	29.25	29.25	29.25	29.25	29.25	29.25	29.25	29.25
102.0	62.40	44.57	36.00	31.20	28.36	26.74	26.00	25.91	25.91	25.91	25.91	25.91	25.91	25.91	25.91
108.0	58.50	41.60	33.18	27.80	24.56	22.63	21.59	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25
114.0	52.94	36.13	27.98	23.33	20.47	18.70	17.67	17.19	17.12	17.12	17.12	17.12	17.12	17.12	17.12
120.0	45.31	30.85	23.82	19.77	17.26	15.66	14.67	14.13	13.94	13.94	13.94	13.94	13.94	13.94	13.94
126.0	39.08	26.56	20.45	16.92	14.70	13.26	12.33	11.77	11.51	11.47	11.47	11.47	11.47	11.47	11.47
132.0	33.94	23.03	17.69	14.59	12.63	11.33	10.47	9.93	9.63	9.52	9.52	9.52	9.52	9.52	9.52
138.0	29.67	20.10	15.41	12.68	10.94	9.77	8.98	8.46	8.15	8.00	7.97	7.97	7.97	7.97	7.97
144.0	26.08	17.65	13.51	11.09	9.54	8.49	7.77	7.28	6.97	6.79	6.72	6.72	6.72	6.72	6.72
150.0	23.06	15.58	11.91	9.76	8.37	7.43	6.77	6.32	6.01	5.82	5.73	5.71	5.71	5.71	5.71
156.0	20.48	13.83	10.55	8.63	7.39	6.54	5.94	5.52	5.22	5.03	4.92	4.88	4.88	4.88	4.88
162.0	18.27	12.33	9.40	7.67	6.55	5.79	5.24	4.85	4.57	4.38	4.27	4.21	4.20	4.20	4.20
168.0	16.38	11.04	8.40	6.85	5.84	5.15	4.65	4.29	4.03	3.85	3.73	3.66	3.63	3.63	3.63
174.0	14.73	9.92	7.55	6.14	5.23	4.60	4.15	3.82	3.57	3.40	3.28	3.20	3.16	3.15	3.15
180.0	13.30	8.95	6.80	5.53	4.70	4.13	3.72	3.41	3.18	3.02	2.90	2.82	2.77	2.75	2.75
186.0	12.05	8.10	6.15	5.00	4.25	3.72	3.34	3.06	2.85	2.69	2.58	2.50	2.45	2.42	2.42
192.0	10.95	7.36	5.58	4.53	3.85	3.37	3.02	2.76	2.56	2.41	2.30	2.22	2.17	2.14	2.13



1" X 5 3/16" LVL MULL PROFILE



$A + B = W$

- NOTE:**
- 1) MULLION CHART APPLIES TO 1" X 5-3/16" LVL MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



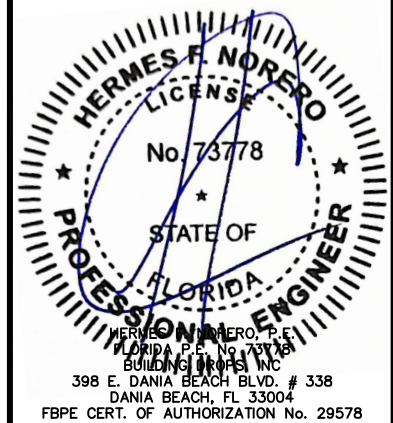
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT) ONE WAY

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

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.



FL #: **FL24230**

DATE: **10.12.17**

DWG. BY: **RV** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **AWD211**

SHEET:

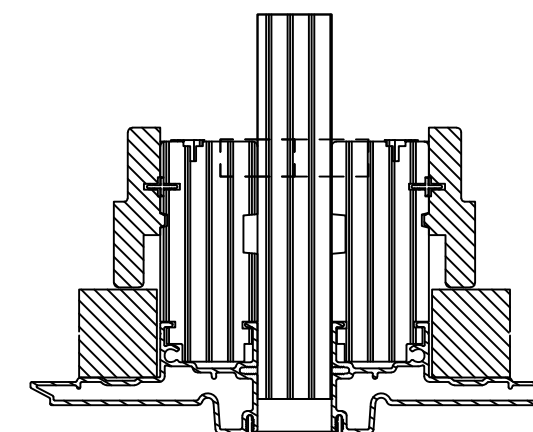


100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

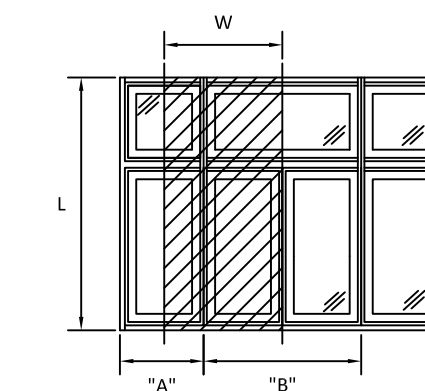
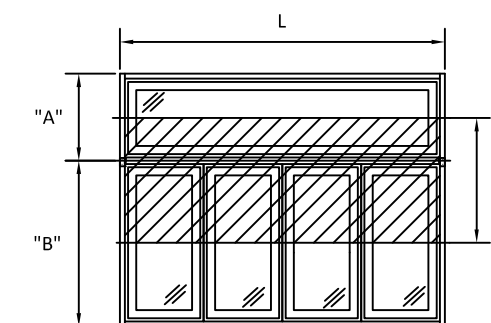
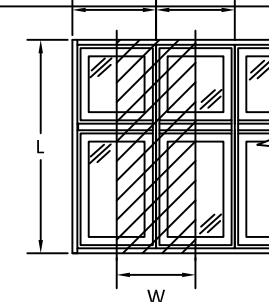
TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT)
1" X 5-3/16" MULLION LOADS TABLE TWO WAY

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	66.86	58.50	52.00	46.80	42.55	39.00	36.00	33.43	31.20	29.25
30.0	75.00	75.00	75.00	74.88	62.40	53.49	46.80	41.60	37.44	34.04	31.20	28.80	26.74	24.96	23.40
36.0	75.00	75.00	75.00	62.40	52.00	44.57	39.00	34.67	31.20	28.36	26.00	24.00	22.29	20.80	19.50
42.0	75.00	75.00	66.86	53.49	44.57	38.20	33.43	29.71	26.74	24.31	22.29	20.57	19.10	17.83	16.71
48.0	75.00	75.00	58.50	46.80	39.00	33.43	29.25	26.00	23.40	21.27	19.50	18.00	16.71	15.60	14.63
54.0	75.00	69.33	52.00	41.60	34.67	29.71	26.00	23.11	20.80	18.91	17.33	16.00	14.86	13.87	13.00
60.0	75.00	62.40	46.80	37.44	31.20	26.74	23.40	20.80	18.72	17.02	15.60	14.40	13.37	12.48	11.70
66.0	75.00	56.73	42.55	34.04	28.36	24.31	21.27	18.91	17.02	15.47	14.18	13.09	12.16	11.35	10.64
72.0	75.00	52.00	39.00	31.20	26.00	22.29	19.50	17.33	15.60	14.18	13.00	12.00	11.14	10.40	9.75
78.0	72.00	48.00	36.00	28.80	24.00	20.57	18.00	16.00	14.40	13.09	12.00	11.08	10.29	9.60	9.00
84.0	66.86	44.57	33.43	26.74	22.29	19.10	16.71	14.86	13.37	12.16	11.14	10.29	9.55	8.91	8.36
90.0	62.40	41.60	31.20	24.96	20.80	17.83	15.60	13.87	12.48	11.35	10.40	9.60	8.91	8.32	7.80
96.0	58.50	39.00	29.25	23.40	19.50	16.71	14.63	13.00	11.70	10.64	9.75	9.00	8.36	7.80	7.31
102.0	55.06	36.71	27.53	22.02	18.35	15.73	13.76	12.24	11.01	10.01	9.18	8.47	7.87	7.34	6.88
108.0	52.00	34.67	26.00	20.80	17.33	14.86	13.00	11.56	10.40	9.45	8.67	8.00	7.43	6.93	6.50
114.0	49.26	32.84	24.63	19.71	16.42	14.08	12.32	10.95	9.85	8.96	8.21	7.58	7.04	6.57	6.16
120.0	44.61	29.74	22.31	17.85	14.87	12.75	11.15	9.91	8.92	8.11	7.44	6.86	6.37	5.95	5.58
126.0	38.54	25.69	19.27	15.42	12.85	11.01	9.63	8.56	7.71	7.01	6.42	5.93	5.51	5.14	4.82
132.0	33.52	22.35	16.76	13.41	11.17	9.58	8.38	7.45	6.70	6.09	5.59	5.16	4.79	4.47	4.19
138.0	29.33	19.56	14.67	11.73	9.78	8.38	7.33	6.52	5.87	5.33	4.89	4.51	4.19	3.91	3.67
144.0	25.82	17.21	12.91	10.33	8.61	7.38	6.45	5.74	5.16	4.69	4.30	3.97	3.69	3.44	3.23
150.0	22.84	15.23	11.42	9.14	7.61	6.53	5.71	5.08	4.57	4.15	3.81	3.51	3.26	3.05	2.86
156.0	20.31	13.54	10.15	8.12	6.77	5.80	5.08	4.51	4.06	3.69	3.38	3.12	2.90	2.71	2.54
162.0	18.13	12.09	9.07	7.25	6.04	5.18	4.53	4.03	3.63	3.30	3.02	2.79	2.59	2.42	2.27
168.0	16.26	10.84	8.13	6.50	5.42	4.65	4.06	3.61	3.25	2.96	2.71	2.50	2.32	2.17	2.03
174.0	14.63	9.76	7.32	5.85	4.88	4.18	3.66	3.25	2.93	2.66	2.44	2.25	2.09	1.95	1.83
180.0	13.22	8.81	6.61	5.29	4.41	3.78	3.30	2.94	2.64	2.40	2.20	2.03	1.89	1.76	1.65
186.0	11.98	7.99	5.99	4.79	3.99	3.42	3.00	2.66	2.40	2.18	2.00	1.84	1.71	1.60	1.50
192.0	10.89	7.26	5.45	4.36	3.63	3.11	2.72	2.42	2.18	1.98	1.82	1.68	1.56	1.45	1.36

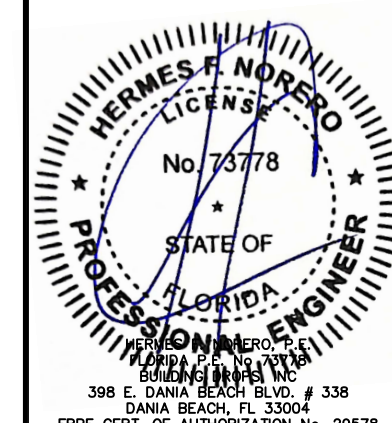


1" X 5 3/16" LVL MULLION PROFILE



- NOTE:**
- 1) MULLION CHART APPLIES TO 1" X 5-3/16" LVL MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.

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.



FL #: **FL24230**

DATE: **10.12.17**

DWG. BY: **RV** CHK. BY: **HFN**

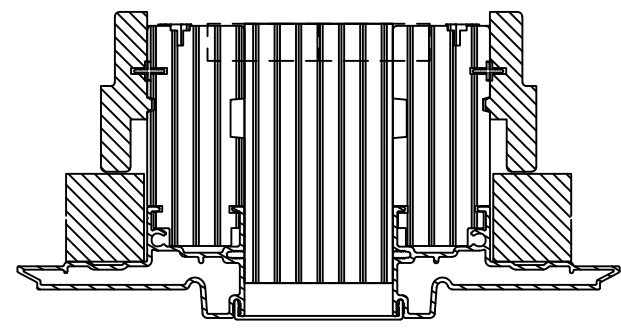
SCALE: **NTS**

DWG. #: **AWD211**

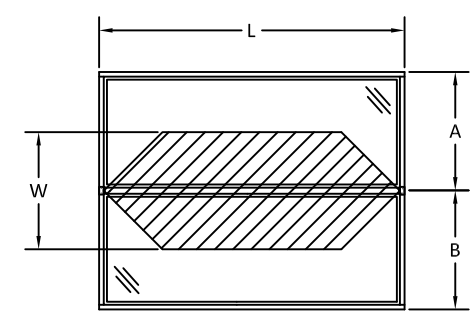
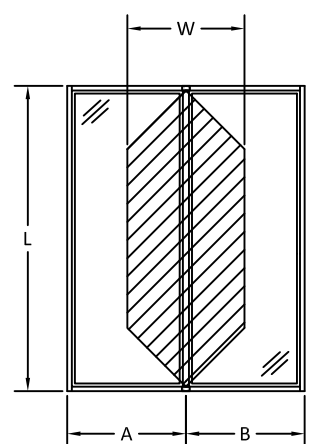
SHEET: **24**

6/8/2023 6:11 PM
s:\projects\andersen_windows\cc-23-0406 - fbc 2023 code change (8th edition)\124230\dwgs\awd211 - e-series fixed casement (non-hvhz)(non-impact).dwg

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
2" X 3-1/2" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	####	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
30.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
36.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
42.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
48.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
54.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
60.0	75.00	75.00	75.00	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88
66.0	75.00	75.00	66.86	62.40	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88
72.0	75.00	69.33	58.50	53.49	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00
78.0	75.00	62.40	52.00	46.80	44.57	44.31	44.31	44.31	44.31	44.31	44.31	44.31	44.31	44.31	44.31
84.0	75.00	56.73	46.80	41.60	39.00	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20
90.0	72.00	52.00	42.55	37.03	33.71	32.25	32.04	32.04	32.04	32.04	32.04	32.04	32.04	32.04	32.04
96.0	64.97	44.75	35.11	29.81	26.81	25.26	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75
102.0	54.00	37.06	28.93	24.38	21.71	20.21	19.52	19.42	19.42	19.42	19.42	19.42	19.42	19.42	19.42
108.0	45.38	31.05	24.13	20.22	17.86	16.45	15.70	15.45	15.45	15.45	15.45	15.45	15.45	15.45	15.45
114.0	38.50	26.27	20.35	16.96	14.89	13.60	12.85	12.50	12.45	12.45	12.45	12.45	12.45	12.45	12.45
120.0	32.95	22.43	17.32	14.38	12.55	11.39	10.67	10.27	10.14	10.14	10.14	10.14	10.14	10.14	10.14
126.0	28.42	19.31	14.87	12.30	10.69	9.64	8.97	8.56	8.37	8.34	8.34	8.34	8.34	8.34	8.34
132.0	24.68	16.75	12.86	10.61	9.18	8.24	7.62	7.22	7.00	6.92	6.92	6.92	6.92	6.92	6.92
138.0	21.58	14.62	11.21	9.22	7.95	7.11	6.53	6.16	5.93	5.81	5.80	5.80	5.80	5.80	5.80
150.0	16.77	11.33	8.66	7.09	6.09	5.40	4.92	4.59	4.37	4.23	4.16	4.15	4.15	4.15	4.15
156.0	14.89	10.05	7.67	6.28	5.37	4.75	4.32	4.01	3.80	3.66	3.58	3.55	3.55	3.55	3.55
162.0	13.29	8.96	6.83	5.58	4.77	4.21	3.81	3.53	3.33	3.19	3.10	3.06	3.05	3.05	3.05
168.0	11.91	8.03	6.11	4.98	4.25	3.74	3.38	3.12	2.93	2.80	2.71	2.66	2.64	2.64	2.64
174.0	10.71	7.21	5.49	4.47	3.81	3.35	3.02	2.77	2.60	2.47	2.38	2.33	2.30	2.29	2.29
180.0	9.67	6.51	4.95	4.02	3.42	3.00	2.70	2.48	2.31	2.19	2.11	2.05	2.02	2.00	2.00
186.0	8.76	5.89	4.47	3.64	3.09	2.71	2.43	2.23	2.07	1.96	1.87	1.82	1.78	1.76	1.76
192.0	7.96	5.35	4.06	3.30	2.80	2.45	2.19	2.01	1.86	1.76	1.68	1.62	1.58	1.56	1.55



**2" X 3 1/2"
LVL MULL PROFILE**



$A + B = W$
2

- NOTE:**
- 1) MULLION CHART APPLIES TO 2" X 3-1/2" LVL MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



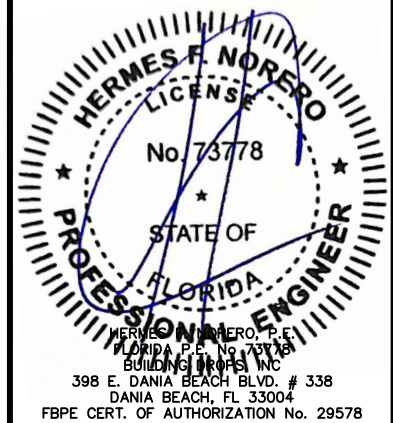
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT) ONE WAY
2" X 3 1/2" MULLION LOADS TABLE

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

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.



FL #:
FL24230

DATE: **10.12.17**

DWG. BY: **RV** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **AWD211**

SHEET:



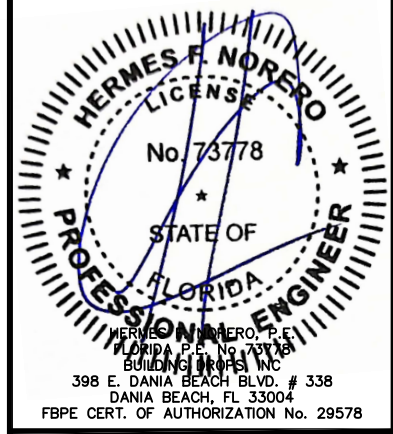
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT)
2" X 3 1/2" MULLION LOADS TABLE TWO WAY

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 359-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

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.



FL #: **FL24230**

DATE: **10.12.17**

DWG. BY: **RV** CHK. BY: **HFN**

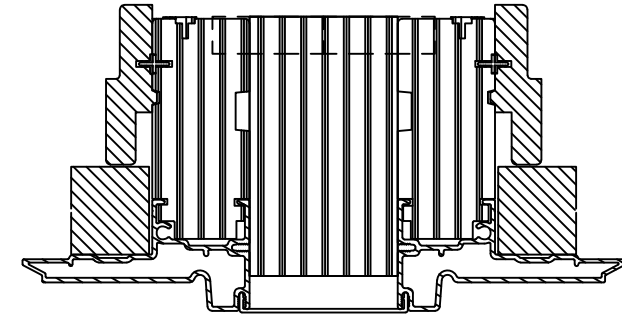
SCALE: **NTS**

DWG. #: **AWD211**

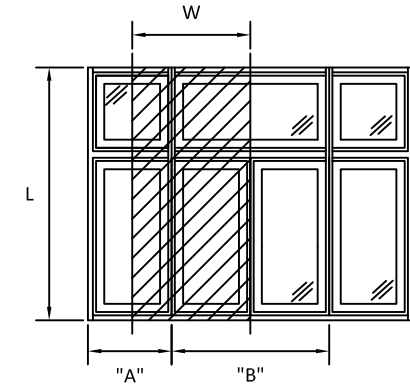
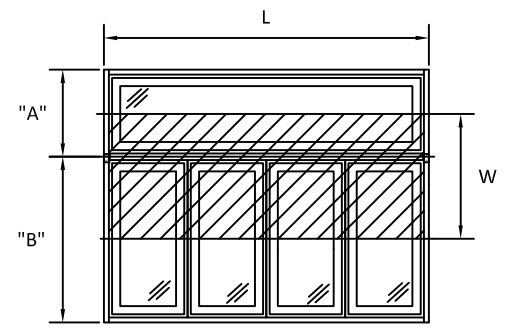
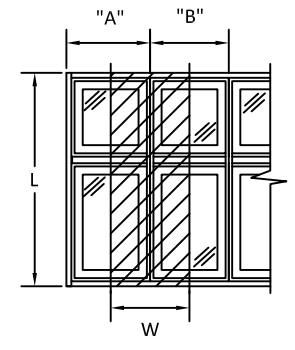
SHEET:

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)
2" X 3-1/2" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION

L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	66.86	58.50	52.00	46.80	42.55	39.00	36.00	33.43	31.20	29.25
30.0	75.00	75.00	75.00	74.88	62.40	53.49	46.80	41.60	37.44	34.04	31.20	28.80	26.74	24.96	23.40
36.0	75.00	75.00	75.00	62.40	52.00	44.57	39.00	34.67	31.20	28.36	26.00	24.00	22.29	20.80	19.50
42.0	75.00	75.00	66.86	53.49	44.57	38.20	33.43	29.71	26.74	24.31	22.29	20.57	19.10	17.83	16.71
48.0	75.00	75.00	58.50	46.80	39.00	33.43	29.25	26.00	23.40	21.27	19.50	18.00	16.71	15.60	14.63
54.0	75.00	69.33	52.00	41.60	34.67	29.71	26.00	23.11	20.80	18.91	17.33	16.00	14.86	13.87	13.00
60.0	75.00	62.40	46.80	37.44	31.20	26.74	23.40	20.80	18.72	17.02	15.60	14.40	13.37	12.48	11.70
66.0	75.00	56.73	42.55	34.04	28.36	24.31	21.27	18.91	17.02	15.47	14.18	13.09	12.16	11.35	10.64
72.0	75.00	52.00	39.00	31.20	26.00	22.29	19.50	17.33	15.60	14.18	13.00	12.00	11.14	10.40	9.75
78.0	72.00	48.00	36.00	28.80	24.00	20.57	18.00	16.00	14.40	13.09	12.00	11.08	10.29	9.60	9.00
84.0	66.86	44.57	33.43	26.74	22.29	19.10	16.71	14.86	13.37	12.16	11.14	10.29	9.55	8.91	8.36
90.0	62.40	41.60	31.20	24.96	20.80	17.83	15.60	13.87	12.48	11.35	10.40	9.60	8.91	8.32	7.80
96.0	58.50	39.00	29.25	23.40	19.50	16.71	14.63	13.00	11.70	10.64	9.75	9.00	8.36	7.80	7.31
102.0	52.83	35.22	26.41	21.13	17.61	15.09	13.21	11.74	10.57	9.61	8.80	8.13	7.55	7.04	6.60
108.0	44.50	29.67	22.25	17.80	14.83	12.72	11.13	9.89	8.90	8.09	7.42	6.85	6.36	5.93	5.56
114.0	37.84	25.23	18.92	15.14	12.61	10.81	9.46	8.41	7.57	6.88	6.31	5.82	5.41	5.05	4.73
120.0	32.44	21.63	16.22	12.98	10.81	9.27	8.11	7.21	6.49	5.90	5.41	4.99	4.63	4.33	4.06
126.0	28.03	18.68	14.01	11.21	9.34	8.01	7.01	6.23	5.61	5.10	4.67	4.31	4.00	3.74	3.50
132.0	24.38	16.25	12.19	9.75	8.13	6.96	6.09	5.42	4.88	4.43	4.06	3.75	3.48	3.25	3.05
138.0	21.33	14.22	10.67	8.53	7.11	6.09	5.33	4.74	4.27	3.88	3.56	3.28	3.05	2.84	2.67
144.0	18.78	12.52	9.39	7.51	6.26	5.36	4.69	4.17	3.76	3.41	3.13	2.89	2.68	2.50	2.35
150.0	16.61	11.07	8.31	6.64	5.54	4.75	4.15	3.69	3.32	3.02	2.77	2.56	2.37	2.21	2.08
156.0	14.77	9.84	7.38	5.91	4.92	4.22	3.69	3.28	2.95	2.68	2.46	2.27	2.11	1.97	1.85
162.0	13.19	8.79	6.59	5.27	4.40	3.77	3.30	2.93	2.64	2.40	2.20	2.03	1.88	1.76	1.65
168.0	11.82	7.88	5.91	4.73	3.94	3.38	2.96	2.63	2.36	2.15	1.97	1.82	1.69	1.58	1.48
174.0	10.64	7.09	5.32	4.26	3.55	3.04	2.66	2.36	2.13	1.93	1.77	1.64	1.52	1.42	1.33
180.0	9.61	6.41	4.81	3.85	3.20	2.75	2.40	2.14	1.92	1.75	1.60	1.48	1.37	1.28	1.20
186.0	8.71	5.81	4.36	3.48	2.90	2.49	2.18	1.94	1.74	1.58	1.45	1.34	1.24	1.16	1.09
192.0	7.92	5.28	3.96	3.17	2.64	2.26	1.98	1.76	1.58	1.44	1.32	1.22	1.13	1.06	0.99



2" X 3 1/2" LVL MULL PROFILE



$A + B = W$
2

NOTE:

- 1) MULLION CHART APPLIES TO 2" X 3-1/2" LVL MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.
- 6) TRIBUTARY WIDTH = $W = (A+B)/2$
- 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.

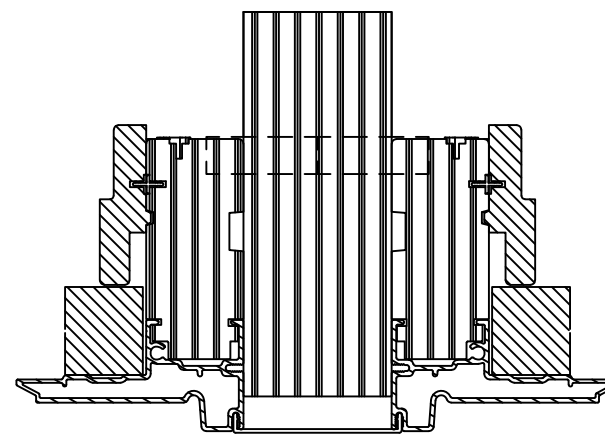
6/8/2023 6:11 PM
s:\projects\andersen windows\cc-23-0406 - fbc 2023 code change (8th edition)\124230\dwgs\awd211 - e-series fixed casement (non-hvhz)(non-impact).dwg

6/8/2023 6:11 PM

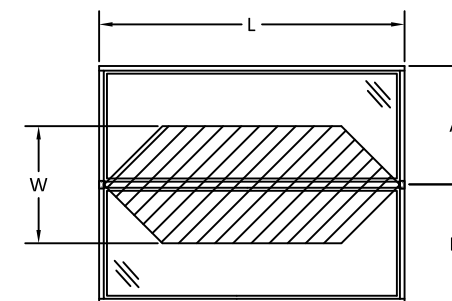
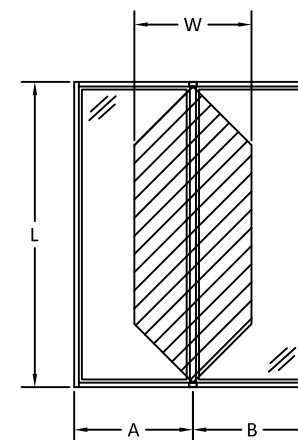
s:\projects\andersen windows\cc-23-0406 - fbc 2023 code change (8th edition)\124230.dwg - e-series fixed casement (non-hvzh)(non-impact).dwg

**MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)
2" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION**

L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
30.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
36.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
42.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
48.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
54.0	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
60.0	75.00	75.00	75.00	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88	74.88
66.0	75.00	75.00	66.86	62.40	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88
72.0	75.00	69.33	58.50	53.49	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00
78.0	75.00	62.40	52.00	46.80	44.57	44.31	44.31	44.31	44.31	44.31	44.31	44.31	44.31	44.31	44.31
84.0	75.00	56.73	46.80	41.60	39.00	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20
90.0	72.00	52.00	42.55	37.44	34.67	33.43	33.28	33.28	33.28	33.28	33.28	33.28	33.28	33.28	33.28
96.0	66.86	48.00	39.00	34.04	31.20	29.71	29.25	29.25	29.25	29.25	29.25	29.25	29.25	29.25	29.25
102.0	62.40	44.57	36.00	31.20	28.36	26.74	26.00	25.91	25.91	25.91	25.91	25.91	25.91	25.91	25.91
108.0	58.50	41.60	33.43	28.80	26.00	24.31	23.40	23.11	23.11	23.11	23.11	23.11	23.11	23.11	23.11
114.0	55.06	39.00	31.20	26.74	24.00	22.29	21.27	20.80	20.74	20.74	20.74	20.74	20.74	20.74	20.74
120.0	52.00	36.71	29.25	24.96	22.29	20.57	19.50	18.91	18.72	18.72	18.72	18.72	18.72	18.72	18.72
126.0	49.26	34.67	27.53	23.40	20.80	19.10	18.00	17.33	17.02	16.98	16.98	16.98	16.98	16.98	16.98
132.0	46.80	32.84	26.00	22.02	19.50	17.83	16.71	16.00	15.60	15.47	15.47	15.47	15.47	15.47	15.47
138.0	44.57	31.20	24.63	20.80	18.35	16.71	15.44	14.54	14.00	13.74	13.70	13.70	13.70	13.70	13.70
150.0	39.62	26.77	20.46	16.76	14.38	12.76	11.64	10.85	10.32	10.00	9.84	9.81	9.81	9.81	9.81
156.0	35.19	23.76	18.13	14.83	12.69	11.23	10.21	9.48	8.98	8.64	8.46	8.39	8.39	8.39	8.39
162.0	31.40	21.18	16.14	13.18	11.26	9.94	9.01	8.34	7.86	7.53	7.33	7.23	7.21	7.21	7.21
168.0	28.14	18.96	14.44	11.77	10.04	8.85	7.99	7.37	6.93	6.61	6.40	6.28	6.24	6.24	6.24
174.0	25.31	17.05	12.97	10.56	8.99	7.91	7.13	6.56	6.14	5.84	5.63	5.50	5.43	5.42	5.42
180.0	22.85	15.38	11.69	9.51	8.08	7.10	6.38	5.86	5.47	5.18	4.98	4.84	4.76	4.73	4.73
186.0	20.70	13.92	10.57	8.59	7.30	6.39	5.74	5.26	4.90	4.63	4.43	4.29	4.20	4.16	4.15
192.0	18.81	12.65	9.60	7.79	6.61	5.78	5.18	4.74	4.40	4.15	3.96	3.82	3.73	3.68	3.66



**2" X 5 3/16"
LVL MULL PROFILE**



$A + B = W$

NOTE:

- 1) MULLION CHART APPLIES TO 2" X 5-3/16" LVL MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.
- 6) TRIBUTARY WIDTH = $W = (A+B)/2$
- 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



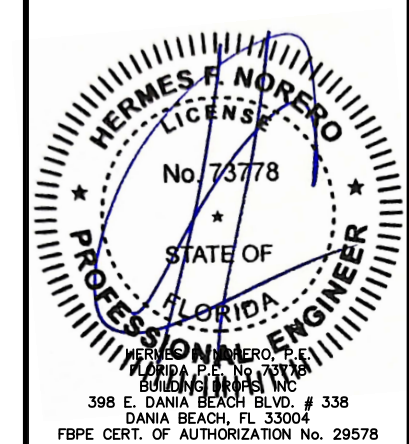
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT) ONE WAY

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

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.



FL #: FL24230

DATE: 10.12.17

DWG. BY: RV **CHK. BY:** HFN

SCALE: NTS

DWG. #: AWD211

SHEET:



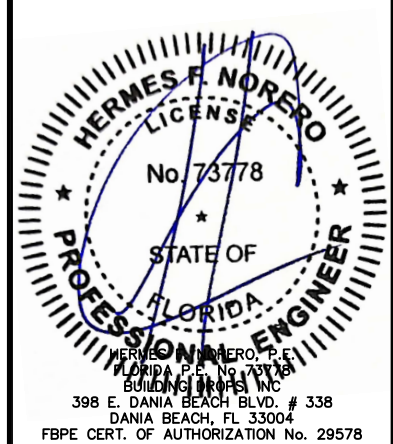
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (NON-HVHZ) (NON-IMPACT)
2" X 5-3/16" MULLION LOADS TABLE TWO WAY

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10.17.17
ADDED MULL & DP CHARTS	LL	8.5.19
7TH FBC CODE CHANGE	NUS	6.29.20
2023 FBC CODE CHANGE	MS	5/31/23

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.



FL #: **FL24230**

DATE: **10.12.17**

DWG. BY: **RV** CHK. BY: **HFN**

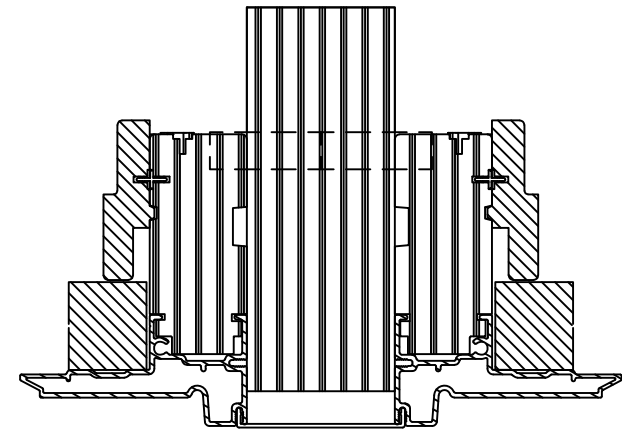
SCALE: **NTS**

DWG. #: **AWD211**

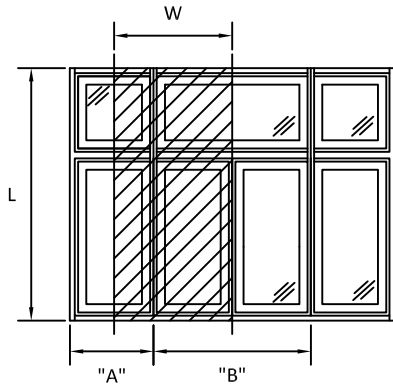
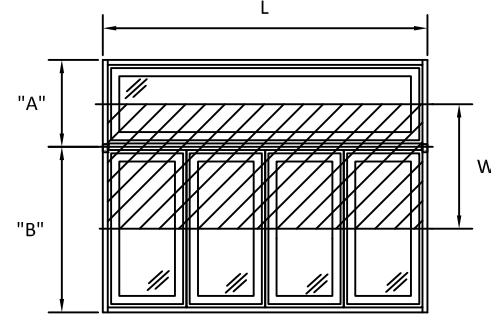
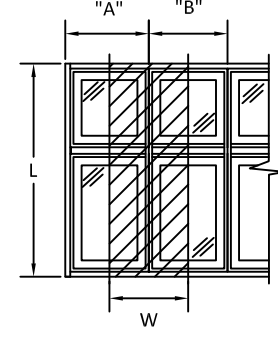
SHEET:

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)
2" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION

L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	66.86	58.50	52.00	46.80	42.55	39.00	36.00	33.43	31.20	29.25
30.0	75.00	75.00	75.00	74.88	62.40	53.49	46.80	41.60	37.44	34.04	31.20	28.80	26.74	24.96	23.40
36.0	75.00	75.00	75.00	62.40	52.00	44.57	39.00	34.67	31.20	28.36	26.00	24.00	22.29	20.80	19.50
42.0	75.00	75.00	66.86	53.49	44.57	38.20	33.43	29.71	26.74	24.31	22.29	20.57	19.10	17.83	16.71
48.0	75.00	75.00	58.50	46.80	39.00	33.43	29.25	26.00	23.40	21.27	19.50	18.00	16.71	15.60	14.63
54.0	75.00	69.33	52.00	41.60	34.67	29.71	26.00	23.11	20.80	18.91	17.33	16.00	14.86	13.87	13.00
60.0	75.00	62.40	46.80	37.44	31.20	26.74	23.40	20.80	18.72	17.02	15.60	14.40	13.37	12.48	11.70
66.0	75.00	56.73	42.55	34.04	28.36	24.31	21.27	18.91	17.02	15.47	14.18	13.09	12.16	11.35	10.64
72.0	75.00	52.00	39.00	31.20	26.00	22.29	19.50	17.33	15.60	14.18	13.00	12.00	11.14	10.40	9.75
78.0	72.00	48.00	36.00	28.80	24.00	20.57	18.00	16.00	14.40	13.09	12.00	11.08	10.29	9.60	9.00
84.0	66.86	44.57	33.43	26.74	22.29	19.10	16.71	14.86	13.37	12.16	11.14	10.29	9.55	8.91	8.36
90.0	62.40	41.60	31.20	24.96	20.80	17.83	15.60	13.87	12.48	11.35	10.40	9.60	8.91	8.32	7.80
96.0	58.50	39.00	29.25	23.40	19.50	16.71	14.63	13.00	11.70	10.64	9.75	9.00	8.36	7.80	7.31
102.0	55.06	36.71	27.53	22.02	18.35	15.73	13.76	12.24	11.01	10.01	9.18	8.47	7.87	7.34	6.88
108.0	52.00	34.67	26.00	20.80	17.33	14.86	13.00	11.56	10.40	9.45	8.67	8.00	7.43	6.93	6.50
114.0	49.26	32.84	24.63	19.71	16.42	14.08	12.32	10.95	9.85	8.96	8.21	7.58	7.04	6.57	6.16
120.0	46.80	31.20	23.40	18.72	15.60	13.37	11.70	10.40	9.36	8.51	7.80	7.20	6.69	6.24	5.85
126.0	44.57	29.71	22.29	17.83	14.86	12.73	11.14	9.90	8.91	8.10	7.43	6.86	6.37	5.94	5.57
132.0	42.55	28.36	21.27	17.02	14.18	12.16	10.64	9.45	8.51	7.74	7.09	6.55	6.08	5.67	5.32
138.0	40.70	27.13	20.35	16.28	13.57	11.63	10.17	9.04	8.14	7.40	6.78	6.26	5.81	5.43	5.09
144.0	39.00	26.00	19.50	15.60	13.00	11.14	9.75	8.67	7.80	7.09	6.50	6.00	5.57	5.20	4.88
150.0	37.44	24.96	18.72	14.98	12.48	10.70	9.36	8.32	7.49	6.81	6.24	5.76	5.35	4.99	4.68
156.0	34.89	23.26	17.45	13.96	11.63	9.97	8.72	7.75	6.98	6.34	5.82	5.37	4.98	4.65	4.36
162.0	31.16	20.77	15.58	12.46	10.39	8.90	7.79	6.92	6.23	5.66	5.19	4.79	4.45	4.15	3.89
168.0	27.94	18.62	13.97	11.17	9.31	7.98	6.98	6.21	5.59	5.08	4.66	4.30	3.99	3.72	3.49
174.0	25.15	16.76	12.57	10.06	8.38	7.18	6.29	5.59	5.03	4.57	4.19	3.87	3.59	3.35	3.14
180.0	22.71	15.14	11.36	9.09	7.57	6.49	5.68	5.05	4.54	4.13	3.79	3.49	3.24	3.03	2.84
186.0	20.59	13.72	10.29	8.23	6.86	5.88	5.15	4.57	4.12	3.74	3.43	3.17	2.94	2.74	2.57
192.0	18.72	12.48	9.36	7.49	6.24	5.35	4.68	4.16	3.74	3.40	3.12	2.88	2.67	2.50	2.34



2" X 5 3/16" LVL MULL PROFILE



$\frac{A+B}{2} = W$

NOTE:

- 1) MULLION CHART APPLIES TO 2" X 5-3/16" LVL MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.
- 6) TRIBUTARY WIDTH = $W = (A+B)/2$
- 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.

s:\projects\andersen windows\cc-23-0406 - fbc 2023 code change (8th edition)\024230\dwgs\awd211 - e-series fixed casement (non-hvhz)(non-impact).dwg 6/8/2023 6:11 PM