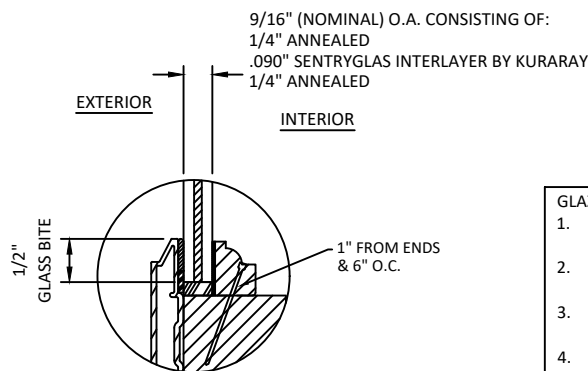


ANDERSEN CORPORATION

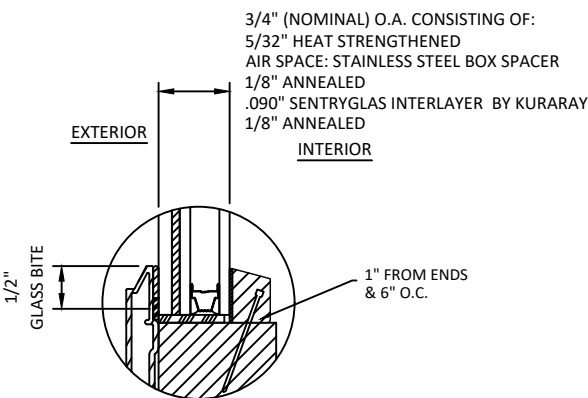
E-SERIES FIXED CASEMENT WINDOW - DIRECT SET (1-PC FRAME) (WZ3) (IMPACT)

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/A440-08/11
 - ASTM E1886-02/05
 - ASTM E1996-02/05
- 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 **NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 3 OR LESS.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4.
- WINDOW FRAME MATERIAL: *ALUMINUM CLAD WOOD*.
- MULLION MATERIAL: LAMINATED VENEER LUMBER.
- GLASS MEETS THE REQUIREMENTS OF ASTM E1300. SEE GLAZING DETAILS ON SHEET 1.
- 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 COLONOAL GLASS STOP



GLAZING DETAIL G2
SHOWN WITH CONTEMPORARY GLASS STOP

GLAZING NOTES:

- GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS.
- SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
- SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
- GLASS TYPE SHALL COMPLY WITH APPLICABLE GLAZING REQUIREMENTS PER CHAPTER 24 OF THE FBC

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	48.0	72.0	41.875	65.875	G2	+65	-75
FIXED	60.0	96.0	53.875	89.875	G1	+70	-80

TABLE OF CONTENTS

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



100 FOURTH AVE NORTH
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PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES FIXED CASEMENT WINDOW -
DIRECT SET (1-PC FRAME)
(WZ3) (IMPACT)

GENERAL NOTES AND GLAZING DETAILS

PREPARED BY:

BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338

DANIA BEACH, FL 33004

PH: (954)399-8478

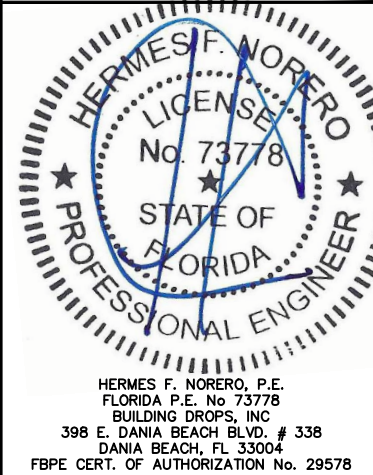
FAX: (954)744-4738

WEB: www.buildingdrops.com



REMARKS	BY	DATE
ADDED 5-3/16" MULL & DP CHARTS	LL	7.26.19

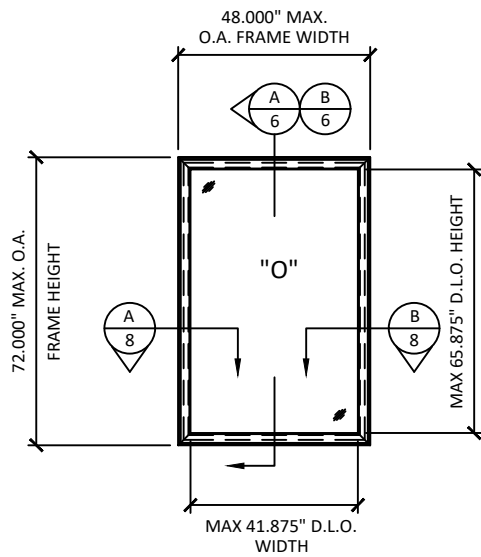
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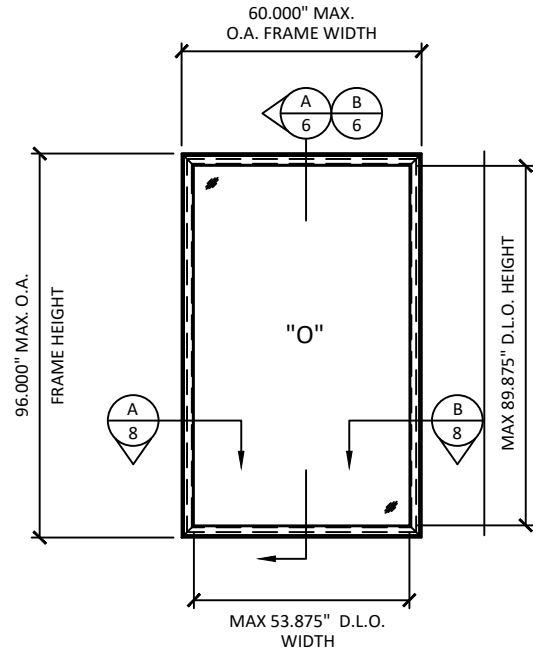
FL #:	FL24230
DATE:	04.18.19
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD251
SHEET:	1
OF	28

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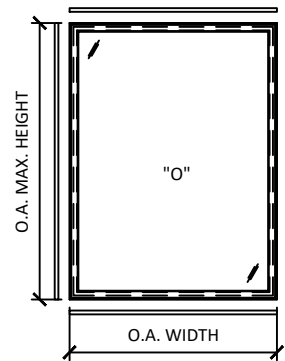
ELEVATION
SINGLE UNIT



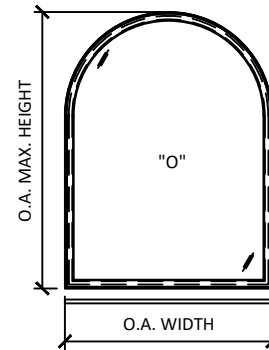
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NOTE:
SEE NOTE 2 FOR SIZE RESTRICTIONS

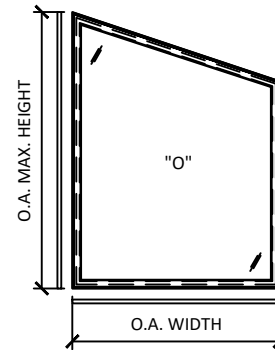
- NOTE:
1. THE ARCHITECT OR ENGINEER OF RECORD MUST ENGINEER THE BUCK AND FRAME ANCHORING FOR THE GEOMETRIC SHAPES THAT DO NOT HAVE ANCHORING SHOWN IN THIS DRAWING.
 2. GEOMETRIC SHAPES MUST FIT WITHIN THE BOUNDING BOX DIMENSIONS AS FOLLOWS:
LAMINATED IG: 48" x 72" OR 72" x 48"
LAMINATED MONOLITHIC: 60" x 96" OR 96" x 60".
 3. WHEN MULLING THE RECTANGULAR OR SQUARE WINDOW TO A GEOMETRIC SHAPE, ONLY MULL TO THE SIDE DESIGNATED BY AS SHOWN ON THIS SHEET.



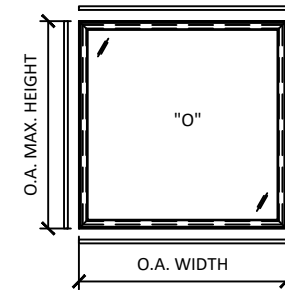
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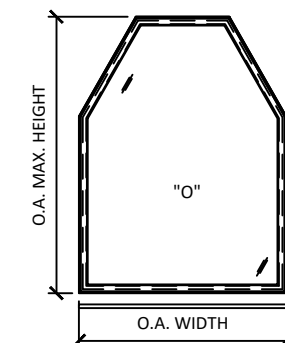
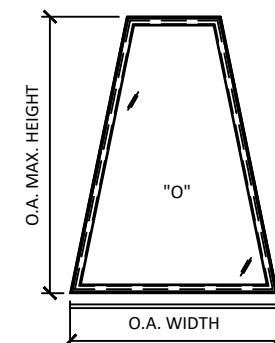
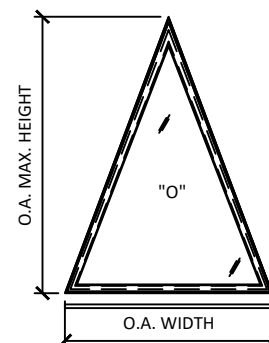
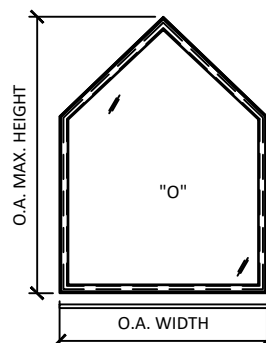
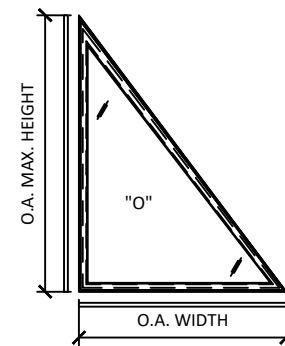
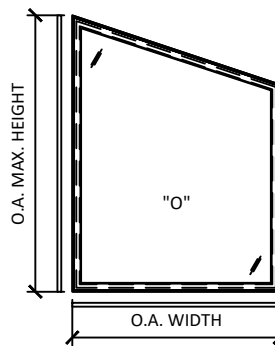
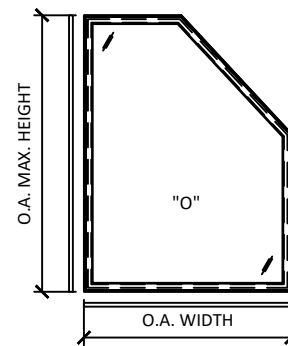
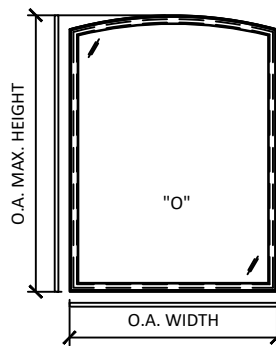
RADIUS



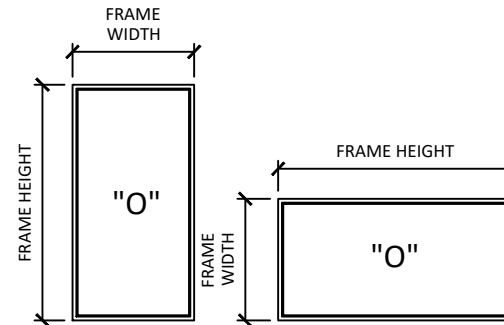
TRAPEZOID



SQUARE



ALLOWABLE SHAPES



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



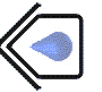
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BAYPORT, MN 55003-1096
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TITLE: E-SERIES FIXED CASEMENT WINDOW -
DIRECT SET (1-PC FRAME)
(W23) (IMPACT)

ELEVATIONS AND QUALIFIED
CONFIGURATIONS

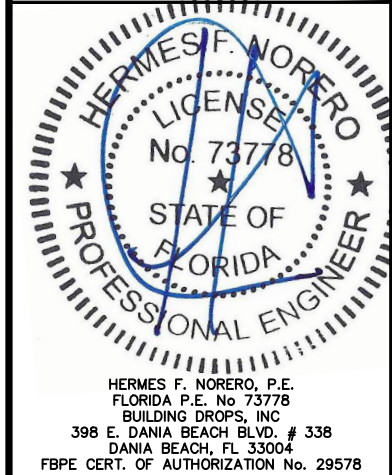
PREPARED BY:

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

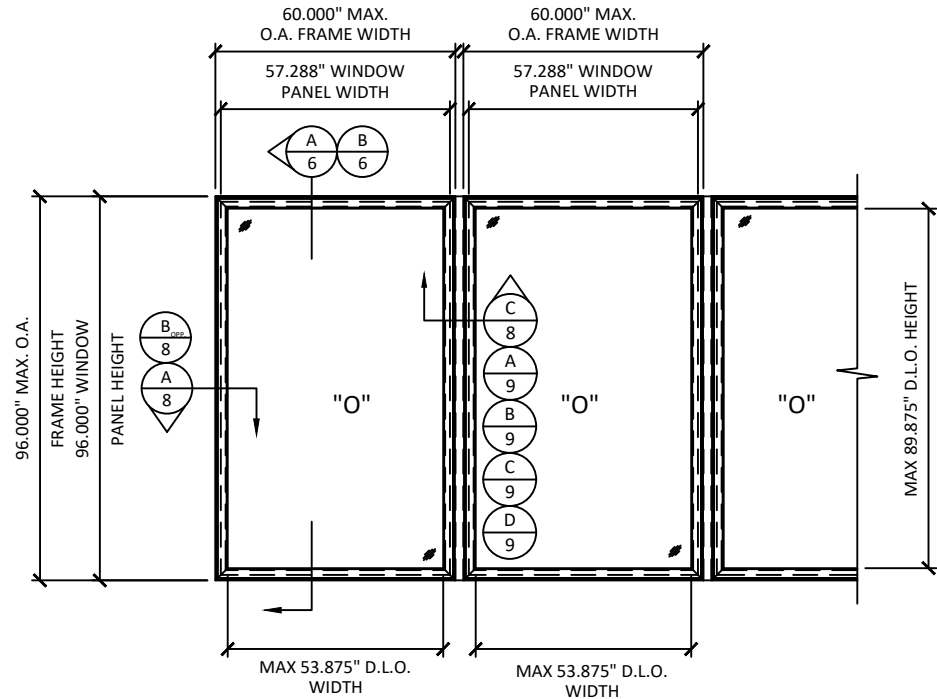


REMARKS	BY	DATE
ADDED 5-3/16" MULL & DP CHARTS	LL	7.26.19

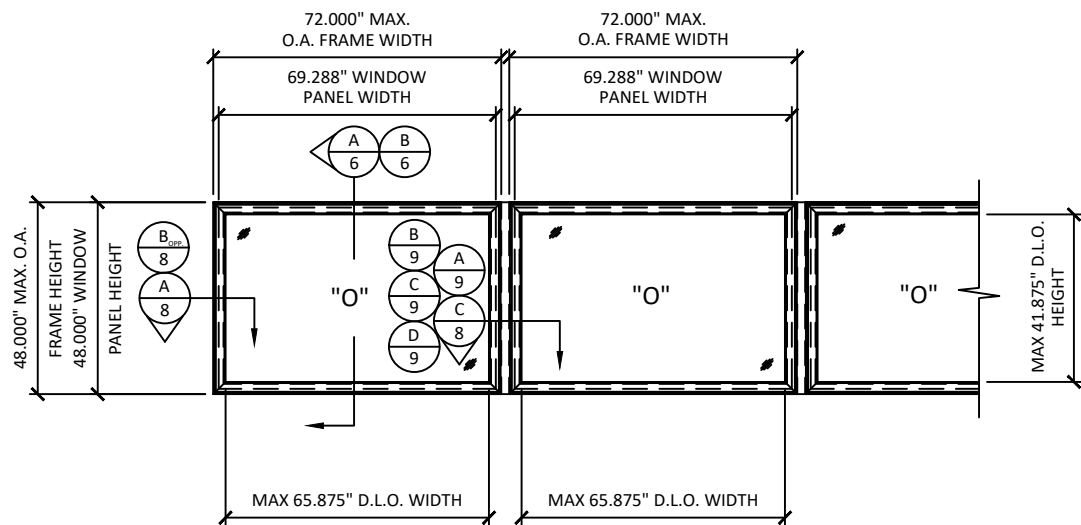
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FL #:	FL24230
DATE:	04.18.19
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD251
SHEET:	2



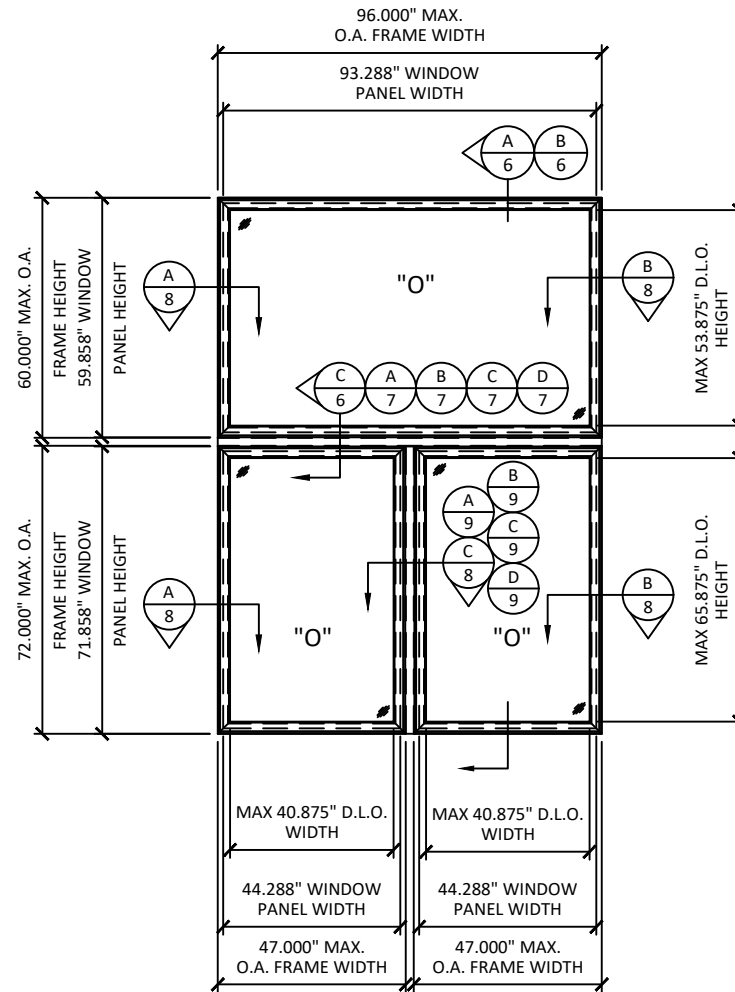
ELEVATION
MULLED UNITS (WITH 2" MULLION)
HORIZONTAL CONFIGURATION



ELEVATION
MULLED UNITS (WITH 2" MULLION)
HORIZONTAL CONFIGURATION

NOTE:

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



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



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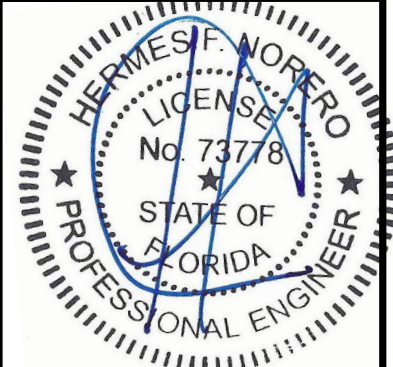
TITLE: E-SERIES FIXED CASEMENT WINDOW -
DIRECT SET (1-PC FRAME)
(W23) (IMPACT)
MULLED ELEVATIONS

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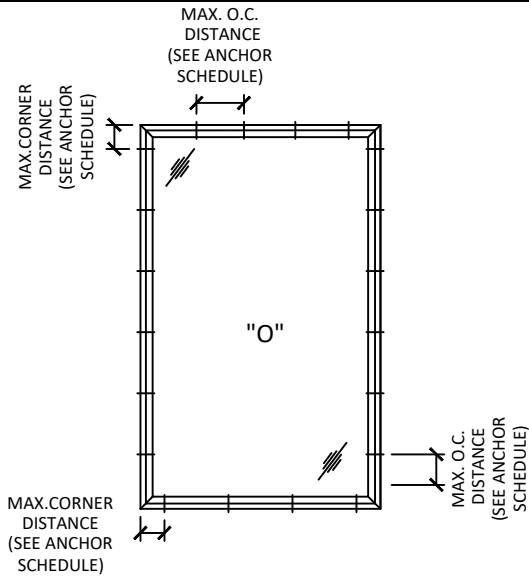
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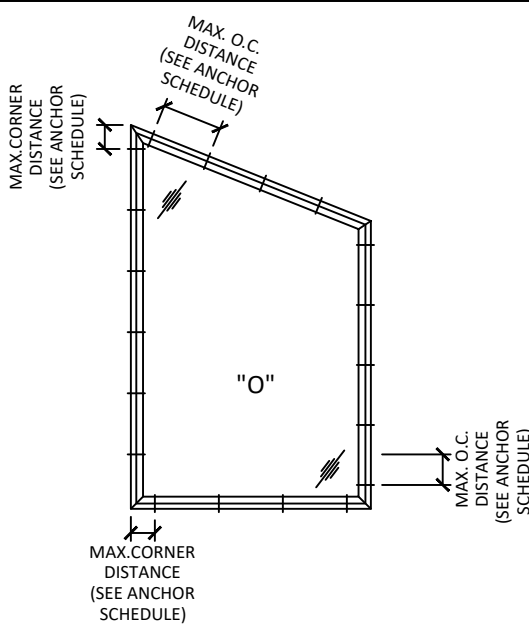


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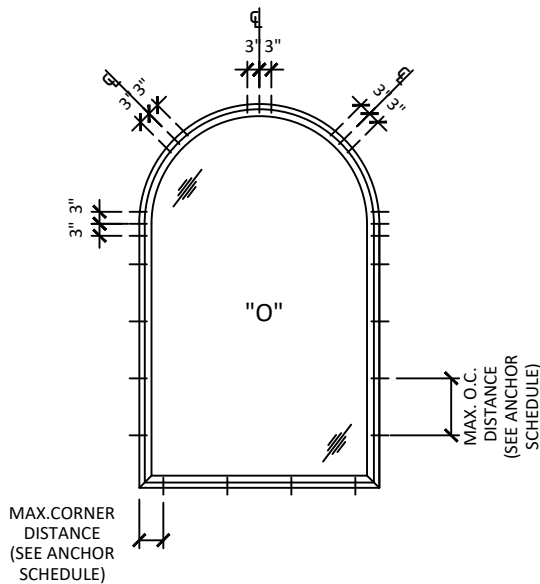
FL #:	FL24230
DATE:	04.18.19
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD251
SHEET:	3



STRAP/FASTENER THROUGH FRAME ANCHORING
RETANGULAR/SQUARE SINGLE UNIT

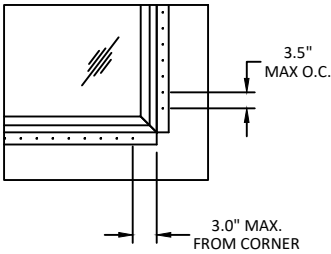


STRAP/FASTENER THROUGH FRAME ANCHORING
TRAPEZOID SINGLE UNIT

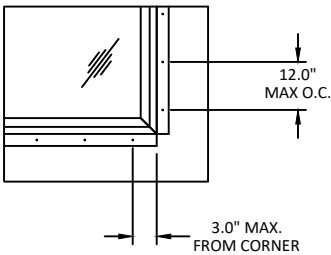


STRAP/FASTENER THROUGH FRAME ANCHORING
RADIUS SINGLE UNIT

NOTE:
VINYL 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.



VINYL FIN ANCHORING
SINGLE UNIT



ALUMINUM FIN ANCHORING
SINGLE UNIT

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



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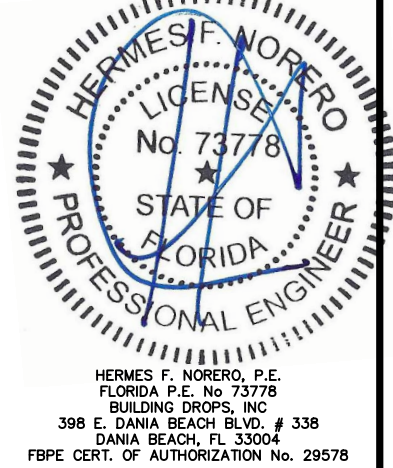
TITLE: E-SERIES FIXED CASEMENT WINDOW -
DIRECT SET (1-PC FRAME)
(W23) (IMPACT)
ANCHOR LAYOUTS

PREPARED BY:

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PH: (954) 399-8478
FAX: (954) 744-4738
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REMARKS	BY	DATE
ADDED 5-3/16" MULL & DP CHARTS	LL	7.26.19

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FL24230

DATE: **04.18.19**

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

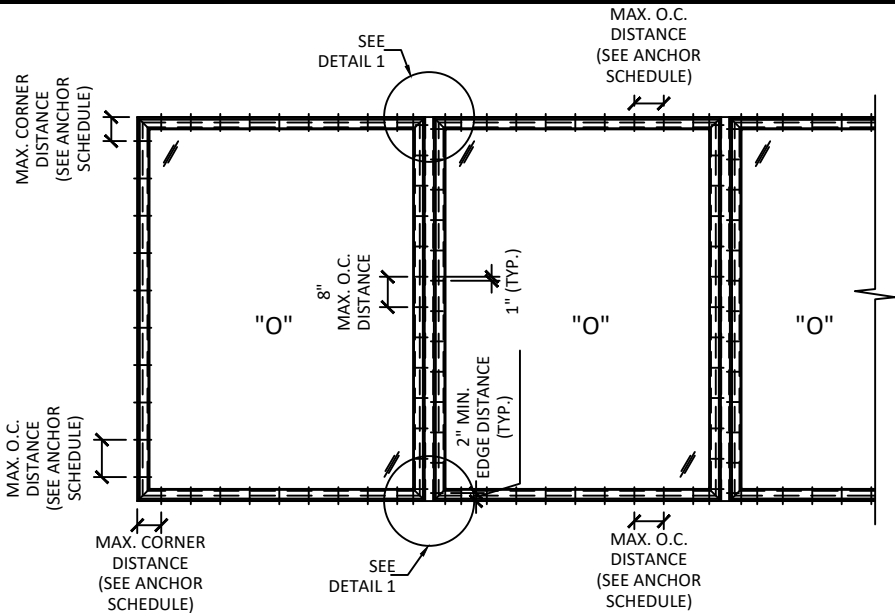
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DWG. #: **AWD251**

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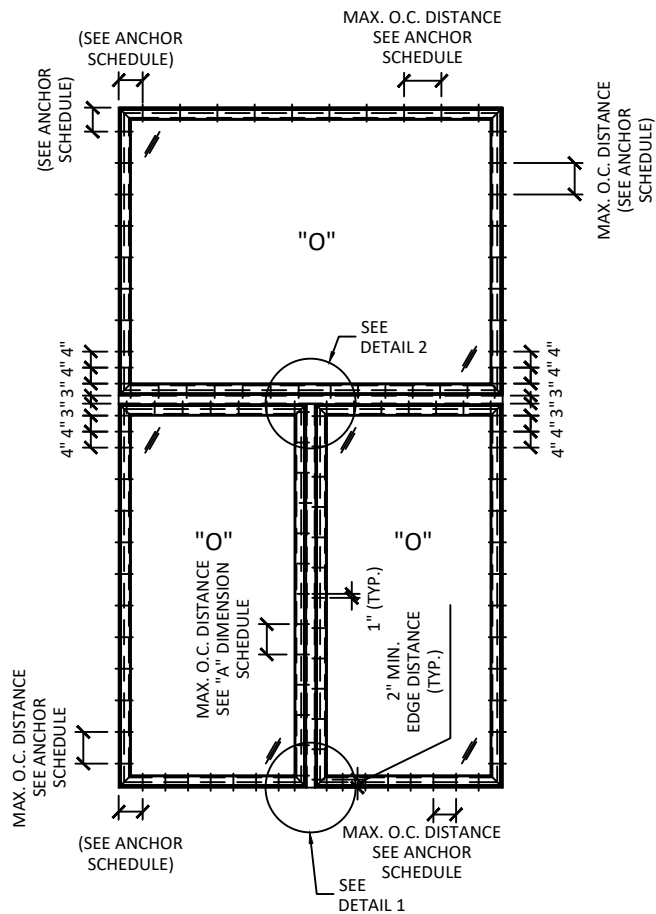
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OF 28



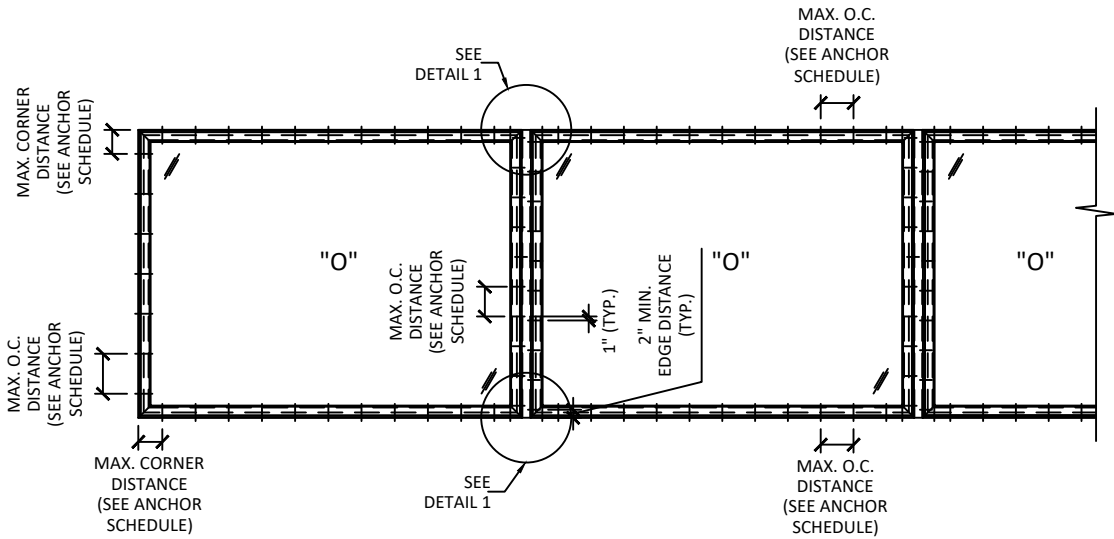
**STRAP/FASTENER THROUGH FRAME
ANCHORING**

MULLED UNIT (2" MULLION) HORIZONTAL CONFIGURATION



**STRAP/FASTENER THROUGH FRAME
ANCHORING**

MULLED UNIT (2" MULLION) HORIZONTAL WITH TRANSOM
CONFIGURATION

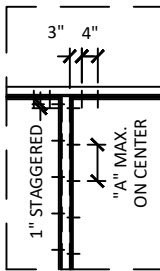


**STRAP/FASTENER THROUGH FRAME
ANCHORING**

MULLED UNIT (2" MULLION) HORIZONTAL CONFIGURATION

NOTE:

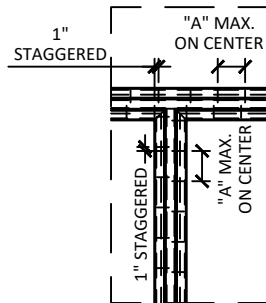
FOR MORE ANCHOR INFORMATION (INSTALLATION TYPE, SPACING,
QUANTITY, ANCHOR TYPE, QUALIFIED SUBSTRATES, SEE SHEET 10



DETAIL 1

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



DETAIL 2

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



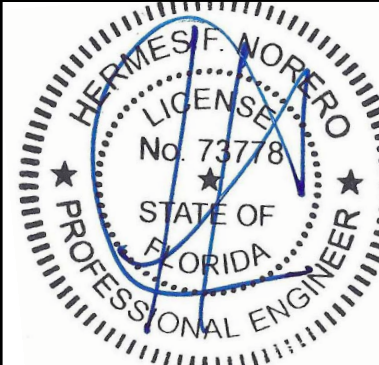
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TITLE: E-SERIES FIXED CASEMENT WINDOW -
DIRECT SET (1-PC FRAME)
(W/23) (IMPACT)
MULLED ANCHOR LAYOUTS

PREPARED BY: 
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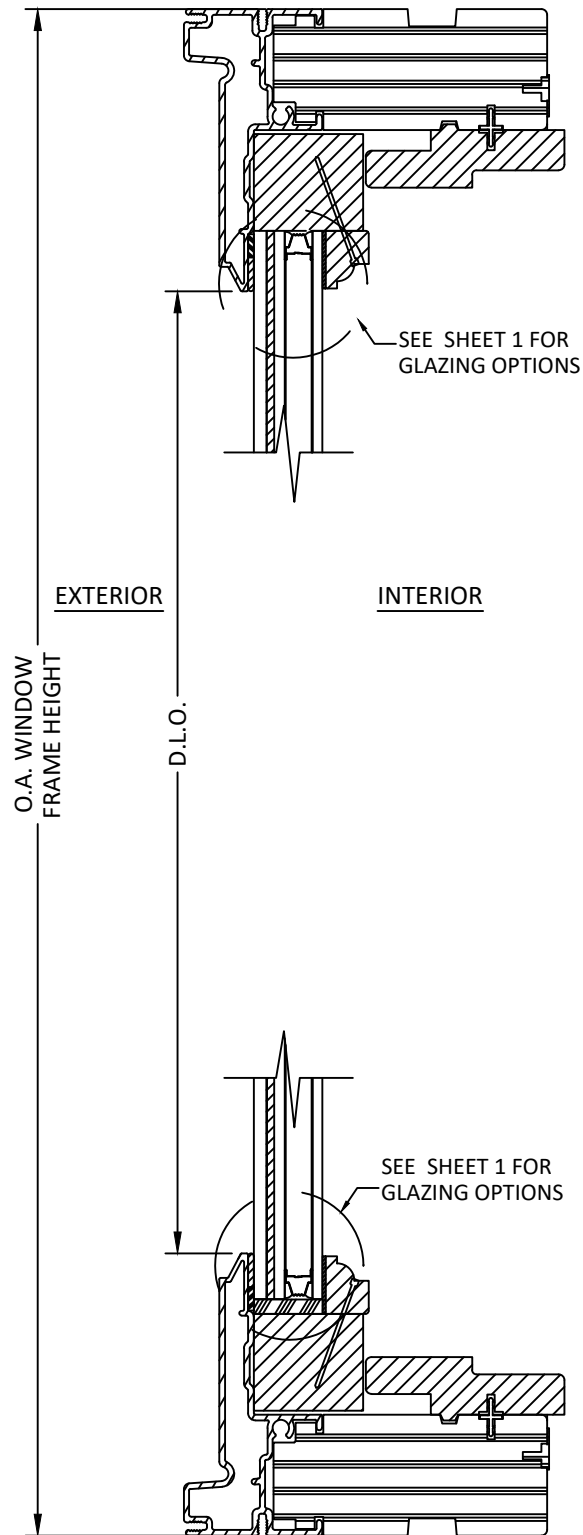


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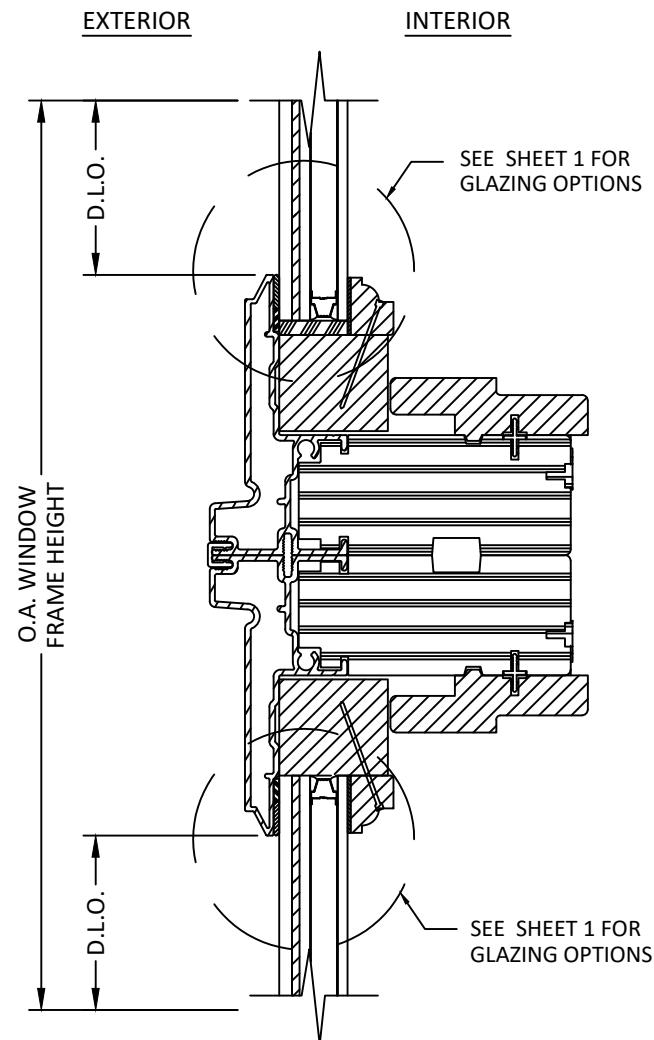
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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD251
SHEET:	5

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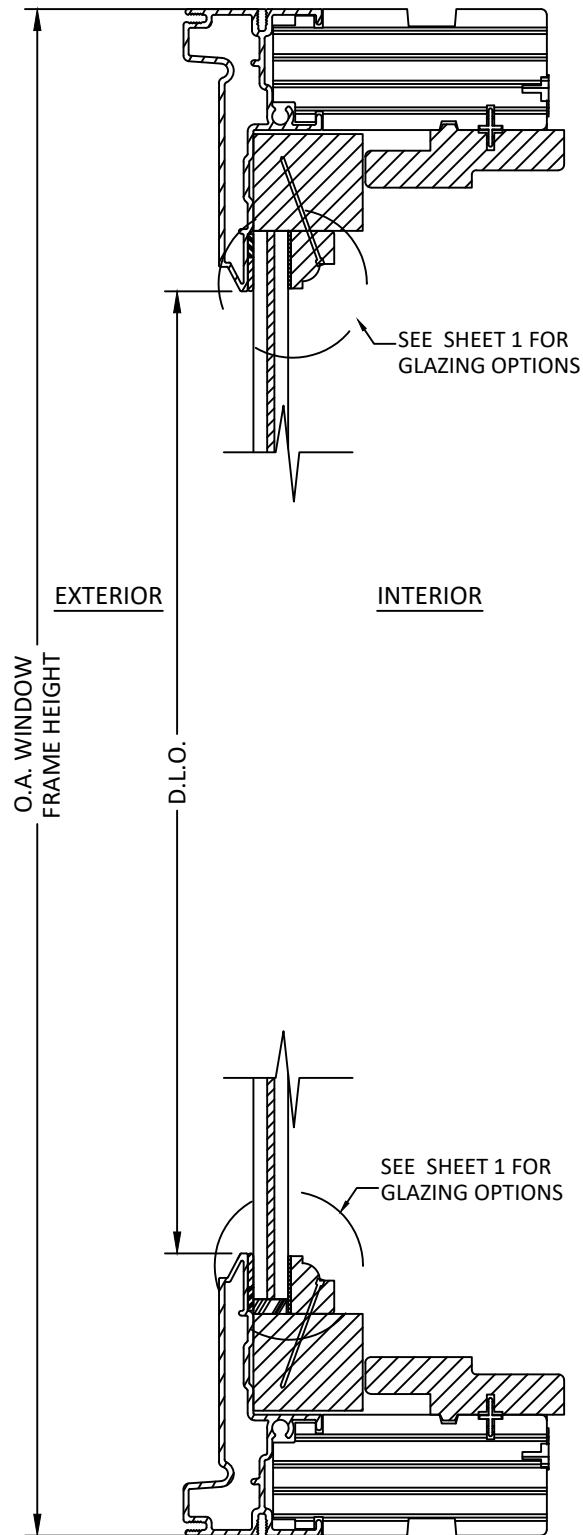
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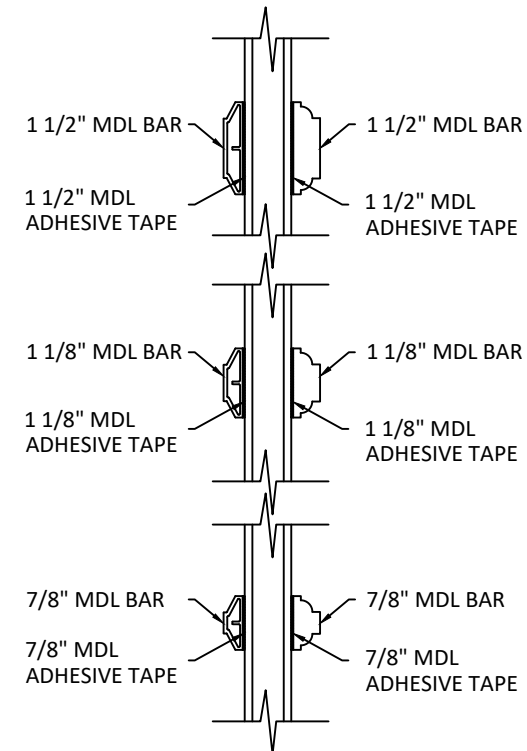
A
6 VERTICAL SECTION
INSULATED GLASS



C
6 VERTICAL SECTION
ZERO MULLION



B
6 VERTICAL SECTION
MONOLITHIC GLASS



OPTIONAL MUNTIN BAR
ATTACHMENT TO GLASS



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

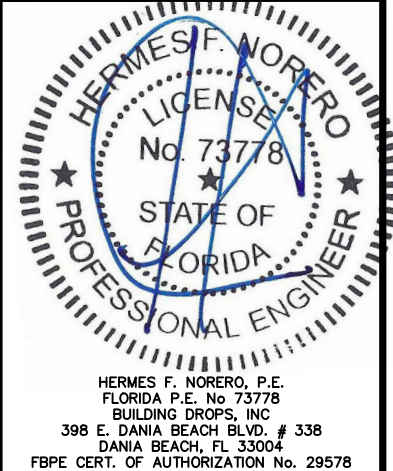
TITLE: E-SERIES FIXED CASEMENT WINDOW -
DIRECT SET (1-PC FRAME)
(W23) (IMPACT)
VERTICAL SECTIONS

PREPARED BY:

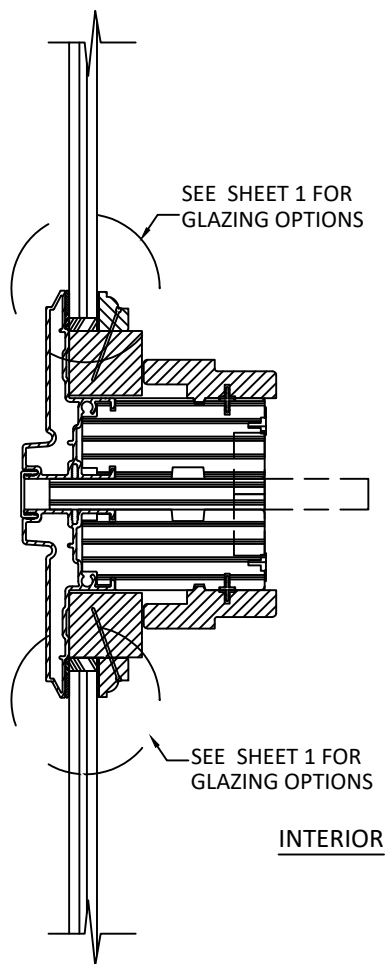
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
ADDED 5-3/16" MULL & DP CHARTS	LL	7.26.19

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AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC
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FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED
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DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL #:	FL24230
DATE:	04.18.19
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD251
SHEET:	6



SEE SHEET 1 FOR
—GLAZING OPTIONS

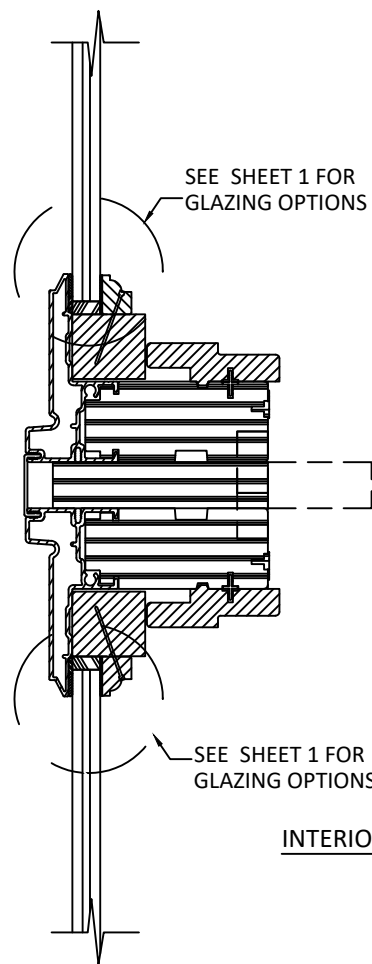
—SEE SHEET 1 FOR
GLAZING OPTIONS

EXTERIOR

INTERIOR

A
7 **VERTICAL SECTION**
MONOLITHIC GLASS
1/2" - 3/4" SECTION

MONOLITHIC GLASS
1/2" x 3 1/2" MULLION
OR 1/2" X 5 3/16"



SEE SHEET 1 FOR
— GLAZING OPTIONS

—SEE SHEET 1 FOR
GLAZING OPTIONS

EXTERIOR

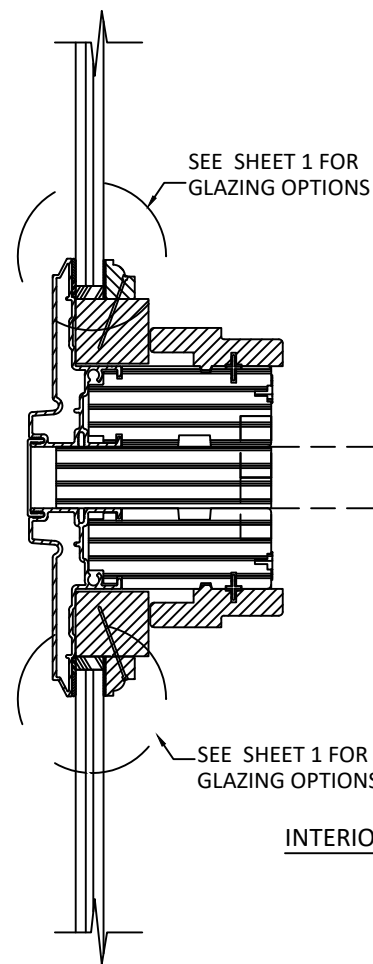
INTERIOR

B
7

VERTICAL SECTION

MONOLITHIC GLASS
3/4" - 3 1/2" THICK

**MONOLITHIC GLASS
3/4" x 3 1/2" MULLION
OR 3/4" X 5 3/16"**



SEE SHEET 1 FOR
— GLAZING OPTIONS

—SEE SHEET 1 FOR
GLAZING OPTIONS

EXTERIOR

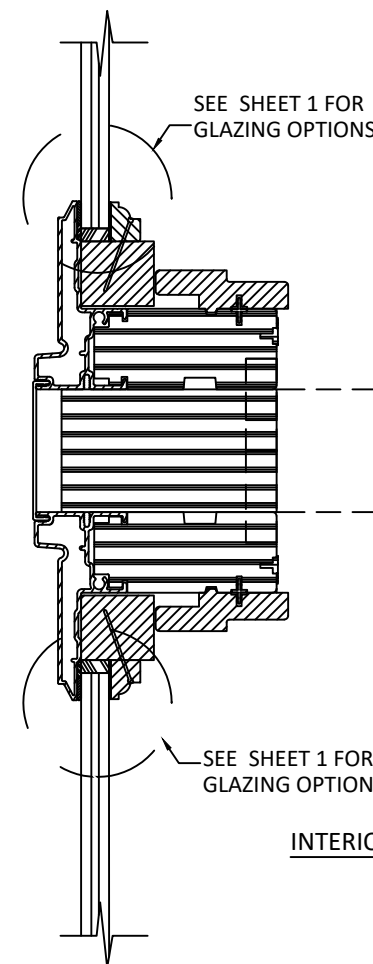
INTERIOR

C
7

VERTICAL SECTION

MONOLITHIC GLASS
1" - 3 1/2" MAXIMUM

**MONOLITHIC GLASS
1" x 3 1/2" MULLION
OR 1" X 5 3/16"**



SEE SHEET 1 FOR
GLAZING OPTIONS

— SEE SHEET 1 FOR
GLAZING OPTIONS

EXTERIOR

INTERIOR

D
7

VERTICAL SECTION

MONOLITHIC GLASS
3" - 3 1/2" THICKNESS

**MONOLITHIC 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

**TITLE: E-SERIES FIXED CASEMENT WINDOW -
DIRECT SET (1-PC FRAME)
(WZ3) (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
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REMARKS	BY	DATE
ADDED 5-3/16" MULL & DP CHARTS	LL	7.26.11

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FLORIDA P.E. No 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL24230**

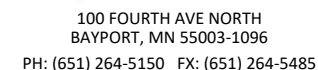
DATE: 04.18.19

DWG. BY: RV	CHK. BY: HFN
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SCALE: NTS

DWG. #: AWD251

SHEET:

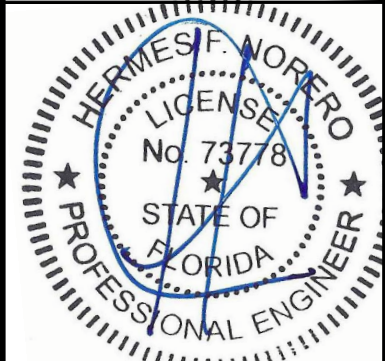


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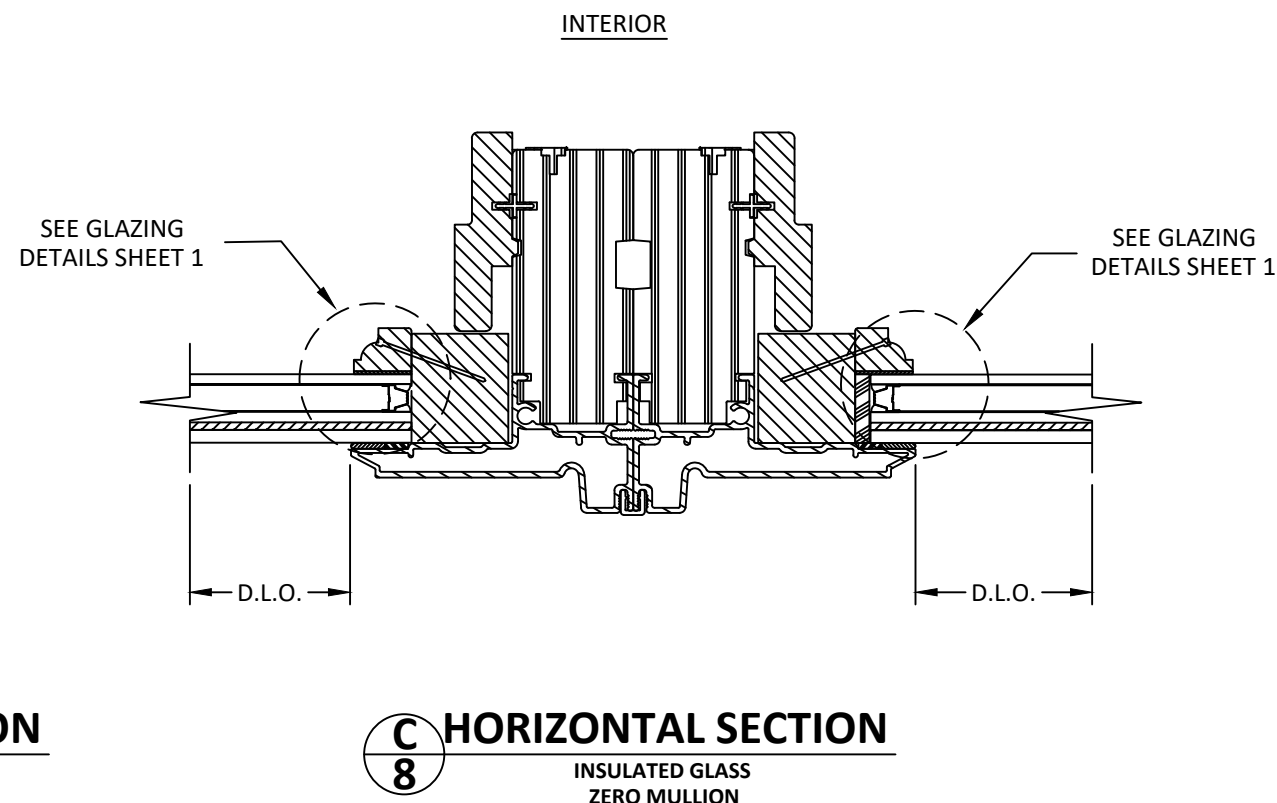
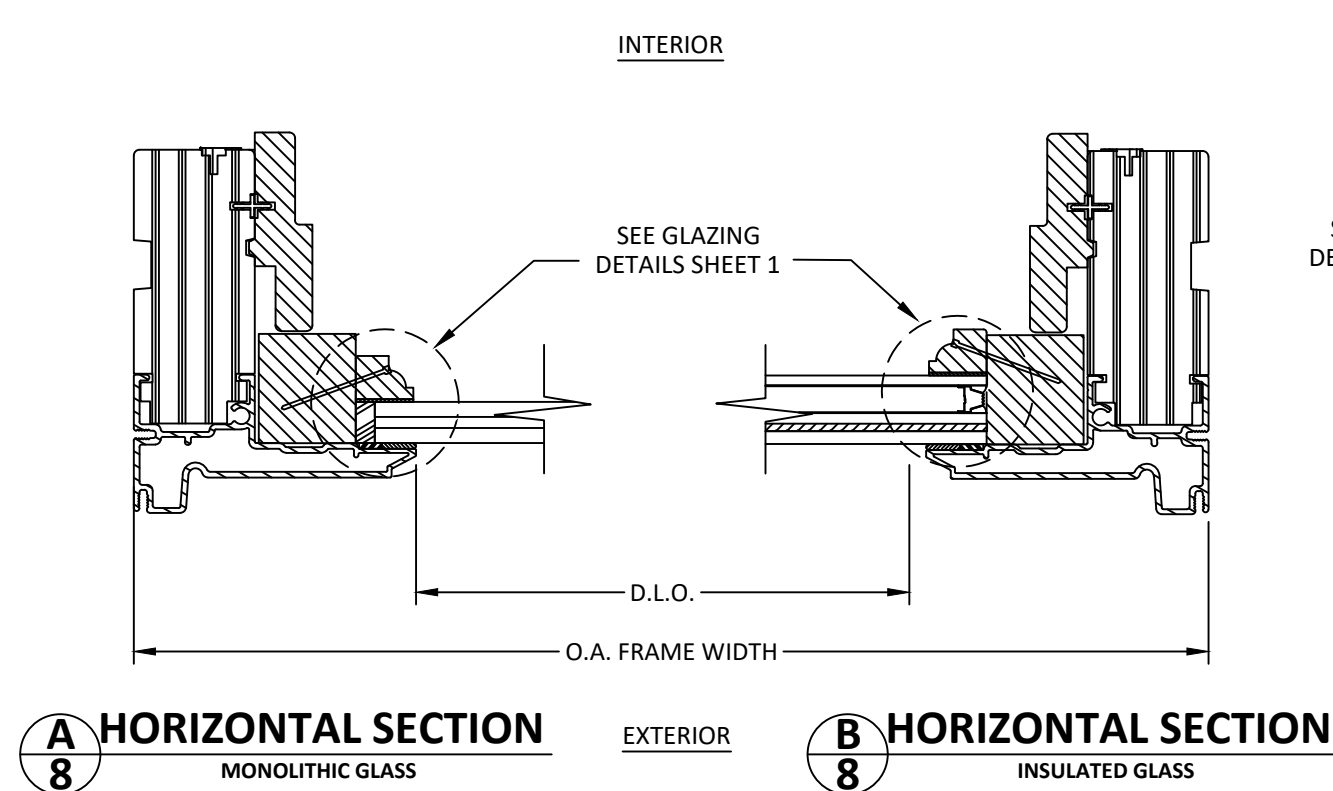
DWG. BY: RV	CHK. BY: HFN
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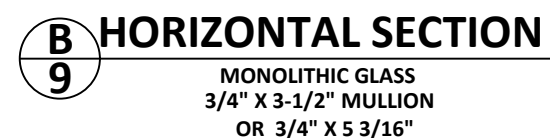
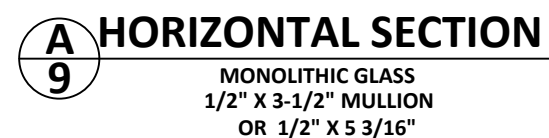
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DWG. #: AWD251

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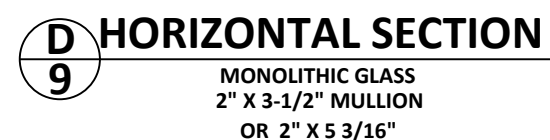
OF 28





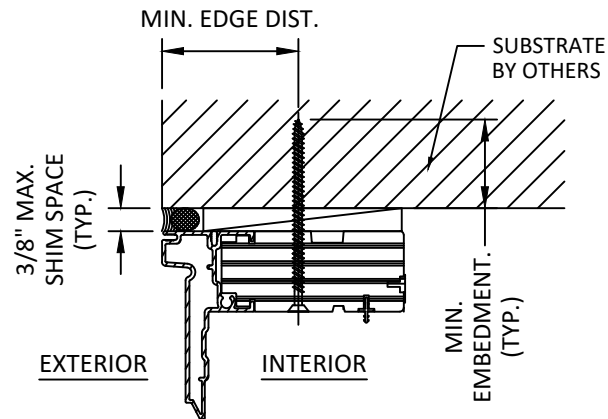
C HORIZONTAL SECTION

MONOLITHIC GLASS
1" X 3-1/2" MULLION
OR 1" X 5 3/16"



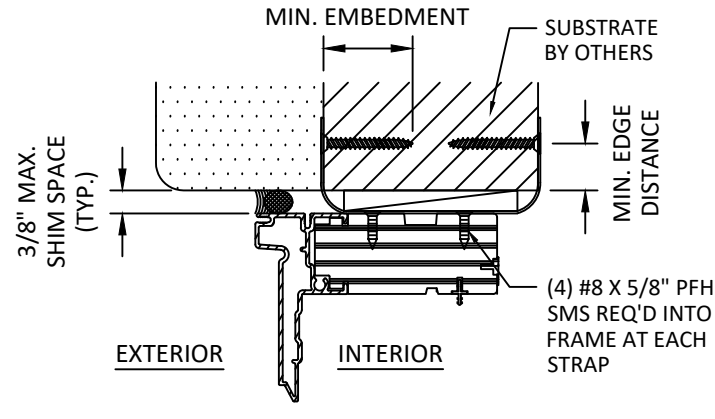
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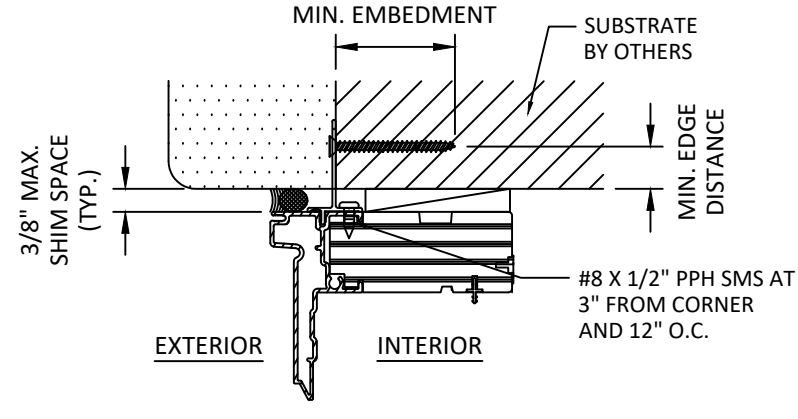
A
10
ANCHOR DETAIL
THROUGH FRAME

SILL & JAMB HAVE A SIMILAR DETAIL.



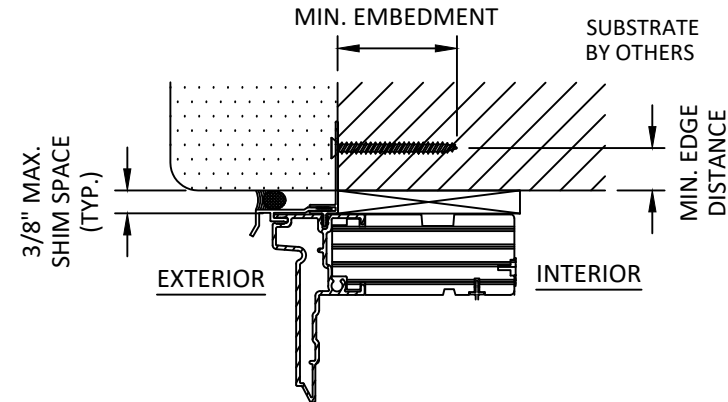
B
10
ANCHOR DETAIL
STRAP ANCHOR

SILL & JAMB HAVE A SIMILAR DETAIL.



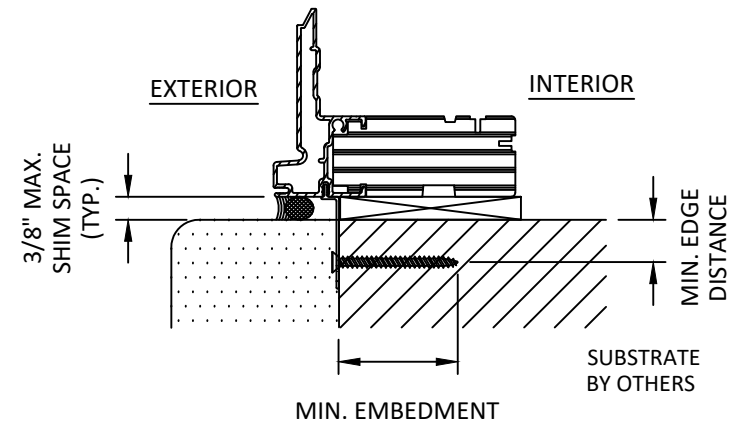
C
10
ANCHOR DETAIL
ALUM. NAIL FIN

SILL & JAMB HAVE A SIMILAR DETAIL.



E
10
ANCHOR DETAIL
VINYL NAIL FIN

HEAD DETAIL.



F
10
ANCHOR DETAIL
VINYL NAIL FIN

JAMB HAS A SIMILAR DETAIL.

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- 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 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.)	MAX. HEAD/SILL O.C. DISTANCE (IN.)	MAX. JAMB O.C. DISTANCE (IN.)	MAX. CORNER DISTANCE (IN.)
STRAP	1	WOOD	#8 WOOD ANCHOR	1.50	0.75	16.0	18.0	6.0
	1	CONCRETE/ MASONRY	3/16" ITW TAPCON	1.25	2.50			
	1	METAL STUD	#8 SELF-TAPPING SCREW	3 THREADS	0.75			
THRU FRAME	1	WOOD	#10 WOOD ANCHOR	1.50	0.75	16.0	18.0	6.0
	1	CONCRETE/ MASONRY	3/16" ITW TAPCON	1.25	2.50			
	1	METAL STUD	#10 SELF-TAPPING SCREW	3 THREADS	0.75			
THRU VINYL NAIL FIN	1	WOOD	11 GA. ROOFING NAIL	1.50	0.75	3.5	3.5	3.0
	1	WOOD	#8 WOOD ANCHOR	1.50	0.75			
	1	METAL STUD	#8 SELF-TAPPING SCREW	3 THREADS	0.75			
THRU ALUMINUM NAIL FIN	1	WOOD	11 GA. ROOFING NAIL	1.50	0.75	12.0	12.0	3.0
	1	WOOD	#8 WOOD ANCHOR	1.50	0.75			
	1	METAL STUD	#8 SELF-TAPPING SCREW	3 THREADS	0.75			



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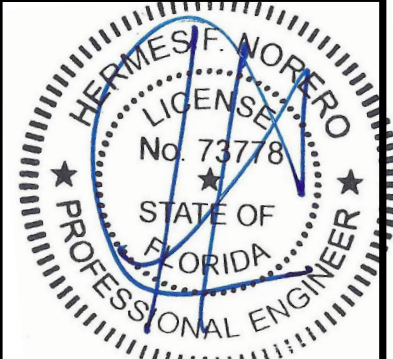
TITLE: E-SERIES FIXED CASEMENT WINDOW -
DIRECT SET (1-PC FRAME)
(W23) (IMPACT)
ANCHOR DETAILS

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REMARKS	BY	DATE
ADDED 5-3/16" MULL & DP CHARTS	LL	7.26.19

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DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL24230

DATE: **04.18.19**

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

DWG. #: **AWD251**

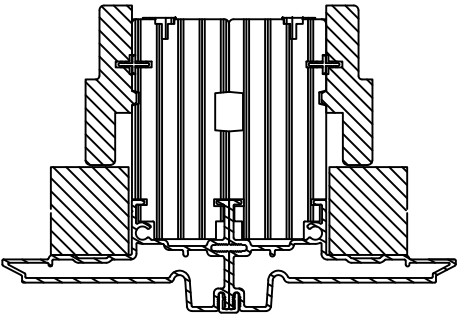
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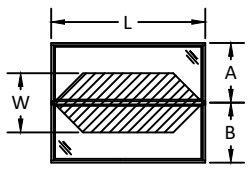
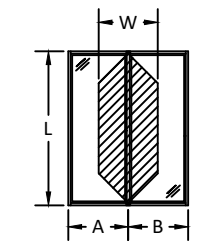
OF 28

s:\projects\andersen windows\lbc-19-0548-2 - fbc submittal - e-series mullion revisions\dwgs\l74230.4 & 5\awd251 - fl15440-series 13 casement, fixed-non-impact-(n-hvnlz).dwg 8/12/2019 3:40 PM

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



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

- 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.



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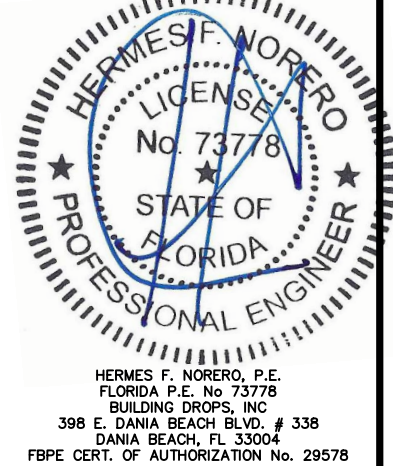
TITLE: E-SERIES FIXED CASEMENT WINDOW -
DIRECT SET (1-PC FRAME)
(W23) (IMPACT)
ZERO MULLION LOADS TABLE
ONE WAY

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SCALE: **NTS**

DWG. #: **AWD251**

SHEET: **11**

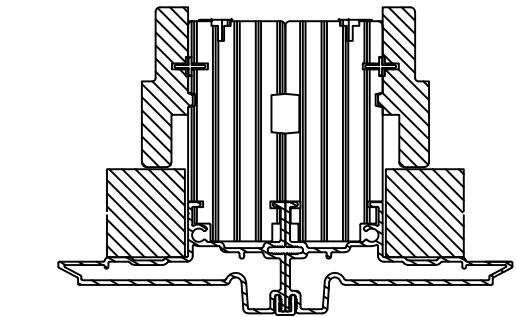
OF 28

s:\projects\andersen windows\lbc-19-0548-2 - fbc submittal - e-series mullion revisions\dwgs\l74230.4 & 5\awd251 - fl15440-series 13 casement fixed-non-impact-(n-hvnl).dwg 8/12/2019 3:40 PM

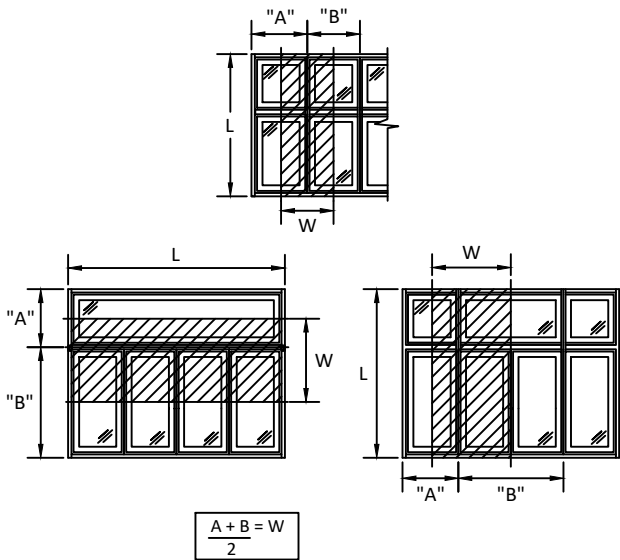
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF) ZERO STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	63.52	54.45	47.64	42.35	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

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.



ZERO MULLION PROFILE



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

TITLE: E-SERIES FIXED CASEMENT WINDOW -
DIRECT SET (1-PC FRAME)
(W23) (IMPACT)

ZERO MULLION LOADS TABLE
TWO WAY

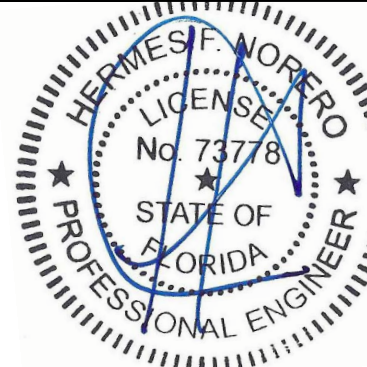
PREPARED BY:

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
ADDED 5-3/16" MULL & DP CHARTS	LL	7.26.19

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

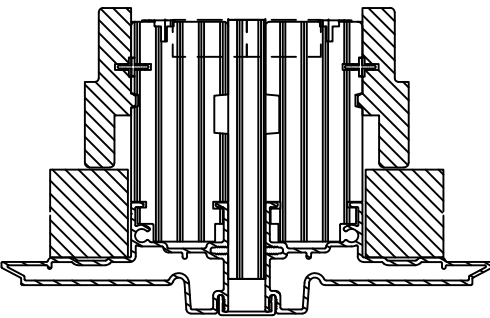


HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

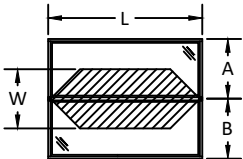
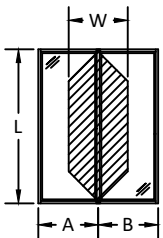
FL #:	FL24230
DATE:	04.18.19
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD251
SHEET:	12

s:\projects\andersen windows\lbc-19-0548-2 - fbc submittal - e-series mullion revisions\dwgs\l74230.4 & 5\awd251 - fl15440-series 13 casement fixed-non-impact-(n-hvnlz).dwg 8/12/2019 3:40 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 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 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 (1-PC FRAME)
(W/23) (IMPACT)

1/2" X 3-1/2" MULLION LOADS TABLE
ONE WAY

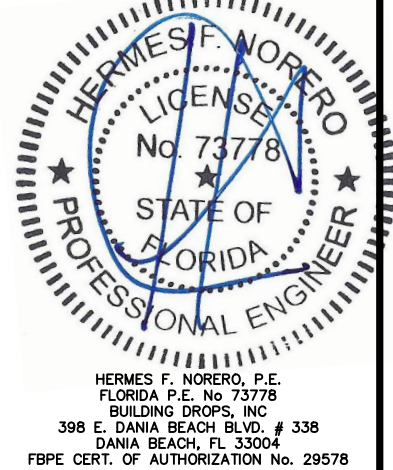
PREPARED BY:

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
ADDED 5-3/16" MULL & DP CHARTS	LL	7.26.19

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: **04.18.19**

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

SCALE: **NTS**

DWG. #: **AWD251**

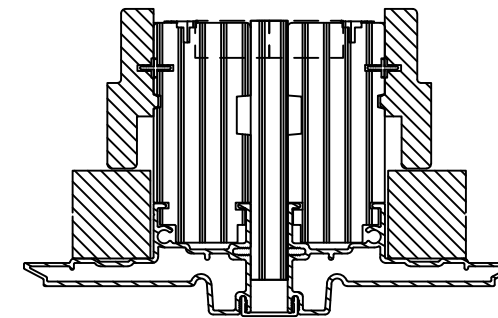
SHEET:

13

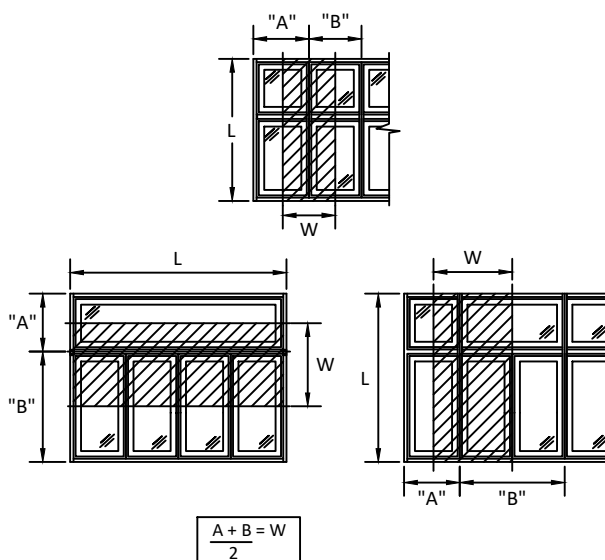
OF 28

s:\projects\andersen windows\lbc-19-0548-2 - fbc submittal - e-series mullion revisions\dwgs\l74230.4 & 5\lwd251 - fl15440-series 13 casement fixed-non-impact-(n-hvnlz).dwg 8/12/2019 3:40 PM

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



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.



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

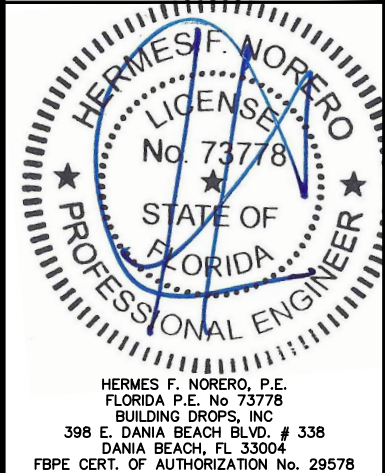
TITLE: E-SERIES FIXED CASEMENT WINDOW -
DIRECT SET (1-PC FRAME)
(W23) (IMPACT)

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
ADDED 5-3/16" MULL & DP CHARTS	LL	7.26.19

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: **04.18.19**

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

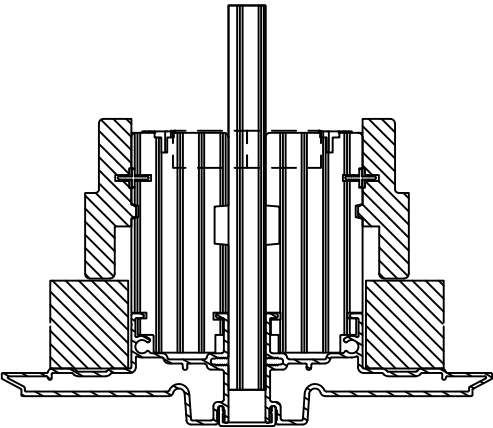
SCALE: **NTS**

DWG. #: **AWD251**

SHEET:
14
OF 28

s:\projects\andersen windows\lbc-19-0548-2 - fbc submittal - e-series mullion revisions\dwgs\l74230.4 & 5\awd251 - fl15440-series 13 casement fixed-non-impact-(n-hvnlz).dwg 8/12/2019 3:40 PM

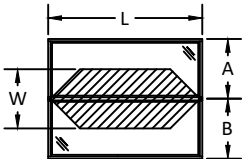
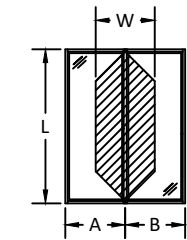
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1/2" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	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

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.



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



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

TITLE: E-SERIES FIXED CASEMENT WINDOW -
DIRECT SET (1-PC FRAME)
(W23) (IMPACT)

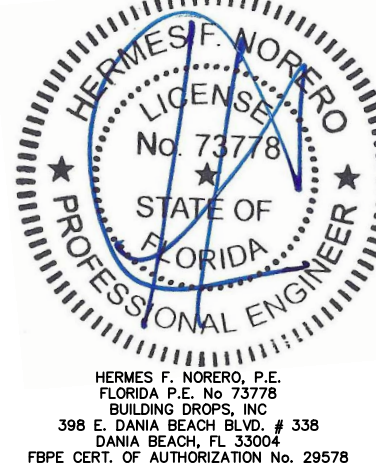
1/2" X 5-3/16" MULLION LOADS TABLE
ONE WAY

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
ADDED 5-3/16" MULL & DP CHARTS	LL	7.26.19

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FL #: **FL24230**

DATE: **04.18.19**

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

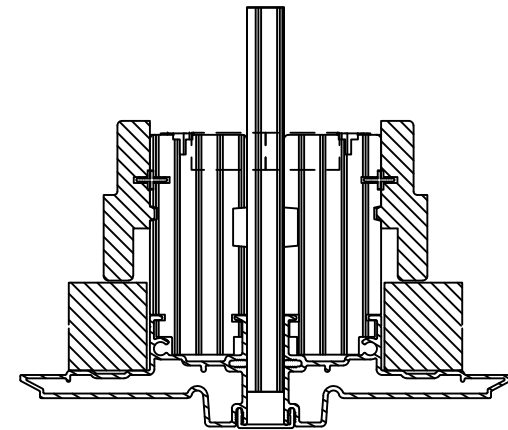
SCALE: **NTS**

DWG. #: **AWD251**

SHEET: **15** OF **28**

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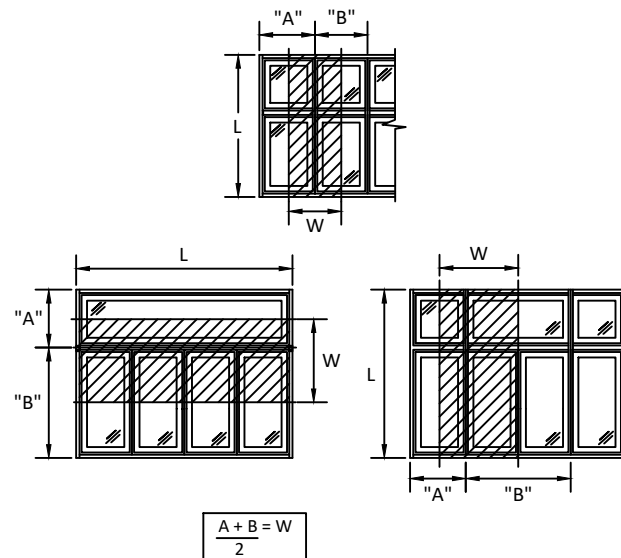
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1/2" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	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

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.



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

TITLE: E-SERIES FIXED CASEMENT WINDOW -
DIRECT SET (1-PC FRAME)
(W23) (IMPACT)

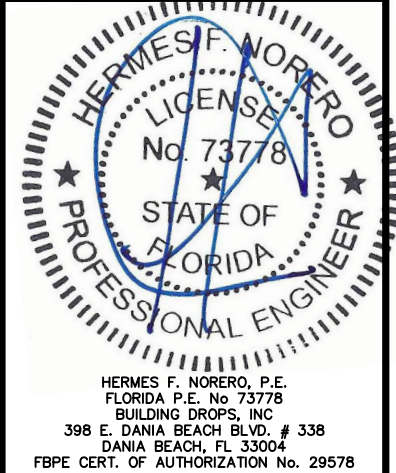
1/2" X 5-3/16" MULLION LOADS TABLE
TWO WAY

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
ADDED 5-3/16" MULL & DP CHARTS	LL	7.26.19

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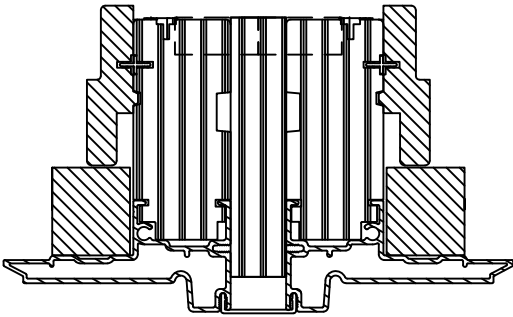


FL #:	FL24230
DATE:	04.18.19
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD251
SHEET:	16
	OF 28

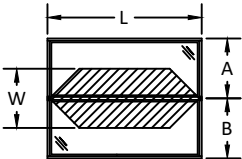
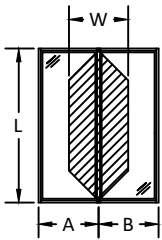
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
3/4" x 3-1/2" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	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

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.



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



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



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

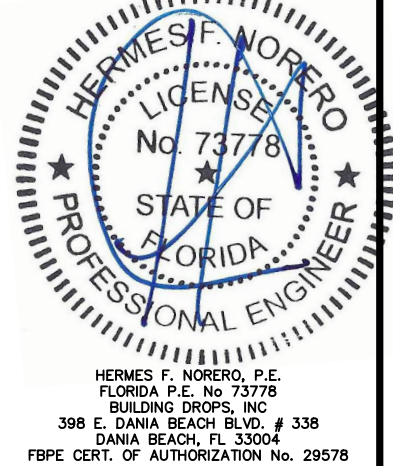
TITLE: E-SERIES FIXED CASEMENT WINDOW -
DIRECT SET (1-PC FRAME)
(W/23) (IMPACT)
3/4" X 3-1/2" MULLION LOADS TABLE
ONE WAY

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



REMARKS	BY	DATE
ADDED 5-3/16" MULL & DP CHARTS	LL	7.26.19

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:
04.18.19

DWG. BY:
RV

CHK. BY:
HFN

SCALE:
NTS

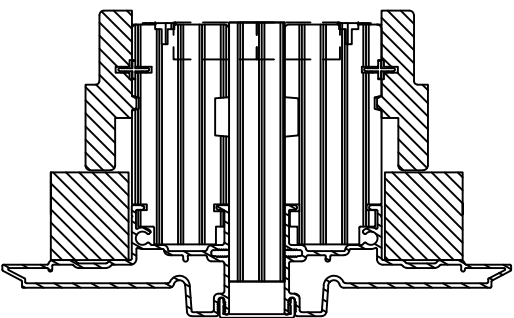
DWG. #:
AWD251

SHEET:
17

OF 28

s:\projects\andersen windows\lbc-19-0548-2 - lbc submittal - e-series mullion revisions\dwgs\l74230.4 & 5\awd251 - fl15440-series 13 casement fixed-non-impact-(n-hvnlz).dwg 8/12/2019 3:40 PM

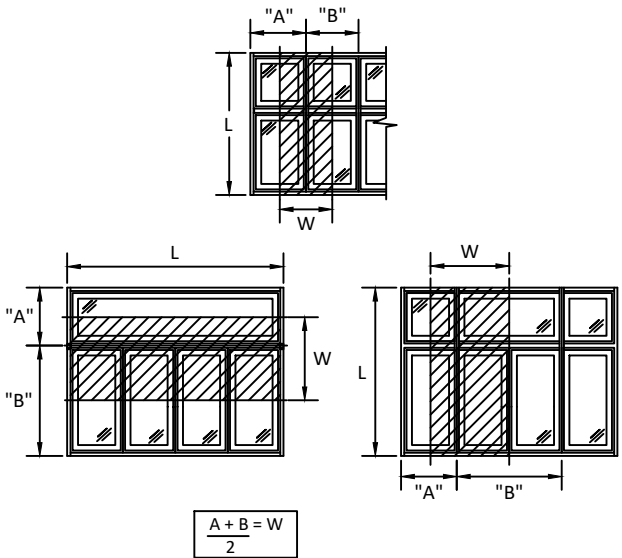
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
3/4" X 3-1/2" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	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

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 (1-PC FRAME)
(W23) (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
ADDED 5-3/16" MULL & DP CHARTS	LL	7.26.19

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: 04.18.19

DWG. BY: RV CHK. BY: HFN

SCALE: NTS

DWG. #: AWD251

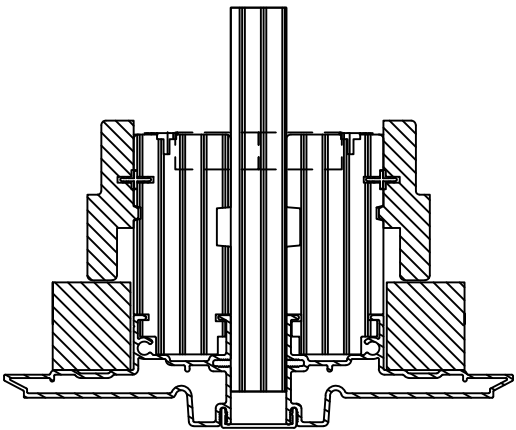
SHEET:

18

OF 28

s:\projects\andersen windows\lbc-19-0548-2 - fbc submittal - e-series mullion revisions\dwgs\l74230.4 & 5\awd251 - fl15440-series 13 casement fixed-non-impact-(n-hvz).dwg 8/12/2019 3:40 PM

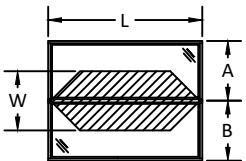
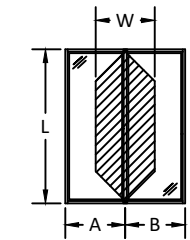
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
3/4" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	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

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.



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



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

TITLE: E-SERIES FIXED CASEMENT WINDOW -
DIRECT SET (1-PC FRAME)
(W23) (IMPACT)

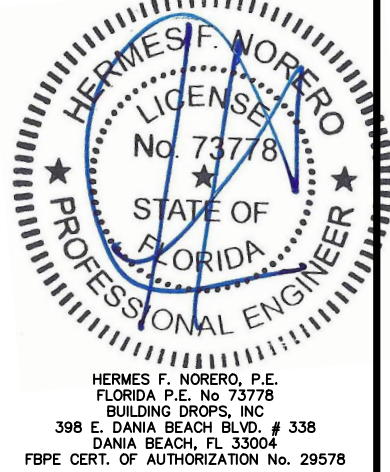
3/4" X 5-3/16" MULLION LOADS TABLE
ONE WAY

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
ADDED 5-3/16" MULL & DP CHARTS	LL	7.26.19

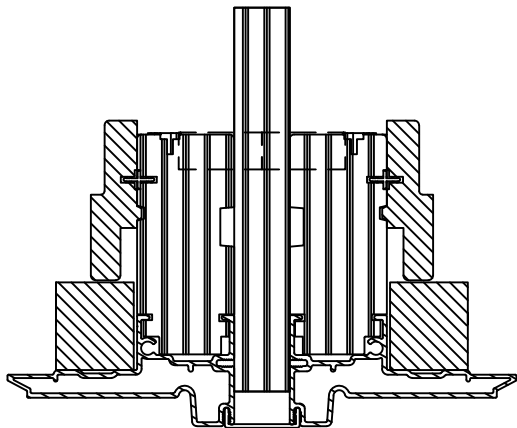
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL #:	FL24230
DATE:	04.18.19
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD251
SHEET:	19

s:\projects\andersen windows\lbc-19-0548-2 - fbc submittal - e-series mullion revisions\dwgs\l74230.4 & 5\lwd251 - fl15440-series 13 casement fixed-non-impact-(n-hvnlz).dwg 8/12/2019 3:40 PM

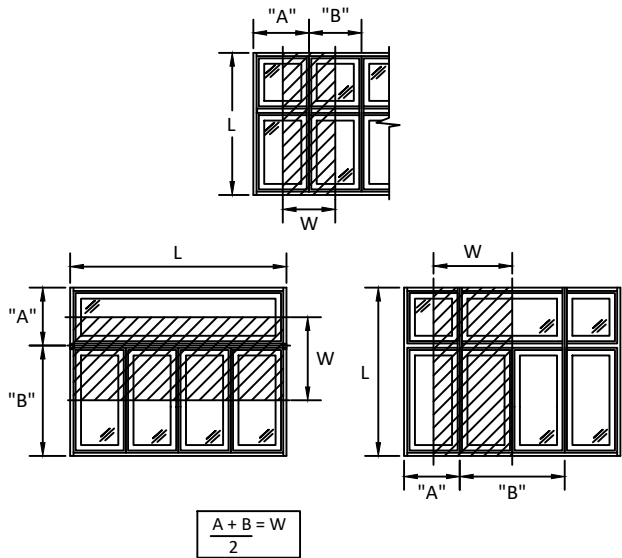
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
3/4" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	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

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.



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

TITLE: E-SERIES FIXED CASEMENT WINDOW -
DIRECT SET (1-PC FRAME)
(W23) (IMPACT)

3/4"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
ADDED 5-3/16" MULL & DP CHARTS	LL	7.26.19

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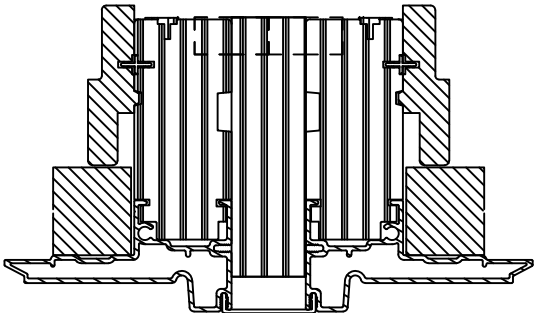


FL #:	FL24230
DATE:	04.18.19
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD251
SHEET:	20

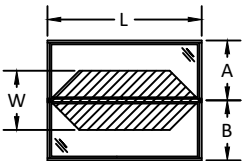
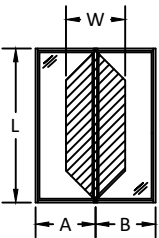
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MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1" X 3-1/2" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	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



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

- 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 (1-PC FRAME)
(W/23) (IMPACT)

1" X 3-1/2" MULLION LOADS TABLE
ONE WAY

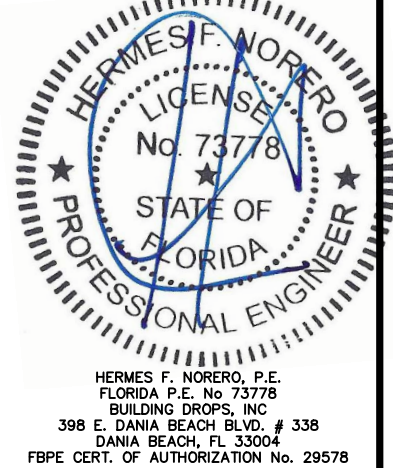
PREPARED BY:

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



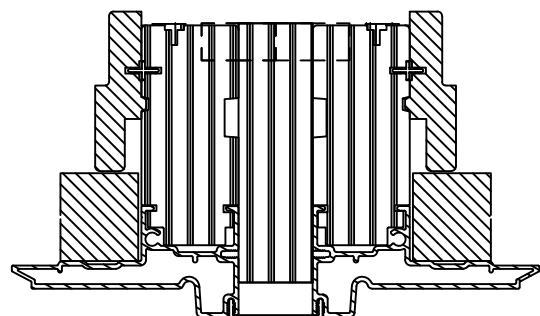
REMARKS	BY	DATE
ADDED 5-3/16" MULL & DP CHARTS	LL	7.26.19

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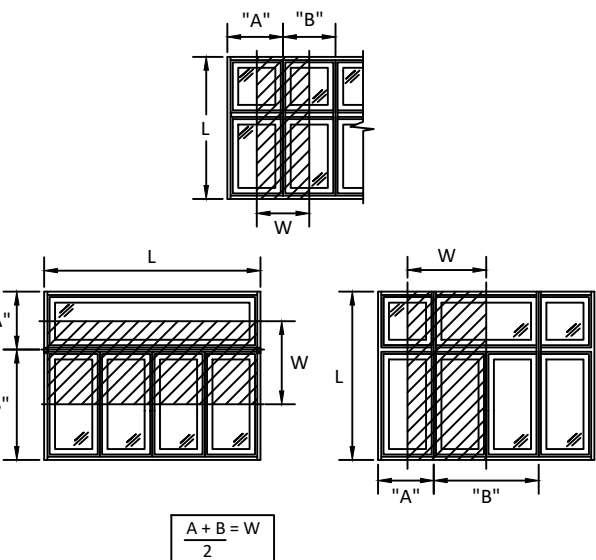


FL #:	FL24230
DATE:	04.18.19
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD251
SHEET:	21

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 MULL PROFILE



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

TITLE: E-SERIES FIXED CASEMENT WINDOW -
DIRECT SET (1-PC FRAME)
(WZ3) (IMPACT)

1" X 3-1/2" MULLION LOADS TABLE
TWO WAY

PREPARED BY: BUILDING DROPS, INC.

BUILDING DROPS, INC.
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
ADDED 5-3/16" MULL & DP CHARTS	LL	7.26.19

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



HERMES F. NORERO, P.E.
FLORIDA P.E. No 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL24230

DATE: 04.18.19

DWG. BY:
RV

CHK. BY:
HFN

SCALE: NTS

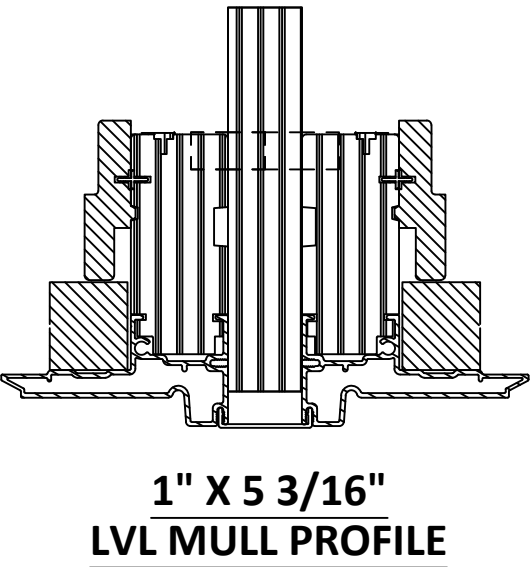
DWG. #: AWD251

SHEET:

22

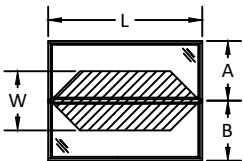
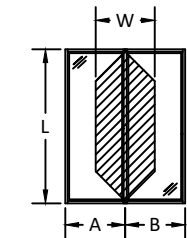
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MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	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



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.



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



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

TITLE: E-SERIES FIXED CASEMENT WINDOW -
DIRECT SET (1-PC FRAME)
(W23) (IMPACT)

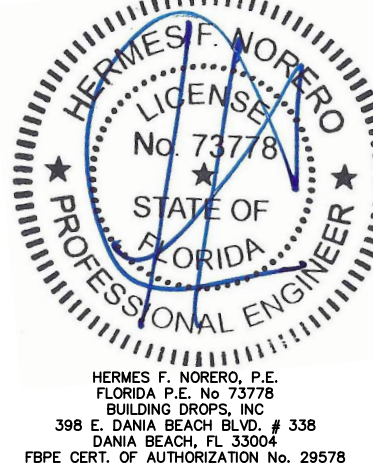
1" X 5-3/16" MULLION LOADS TABLE
ONE WAY

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
ADDED 5-3/16" MULL & DP CHARTS	LL	7.26.19

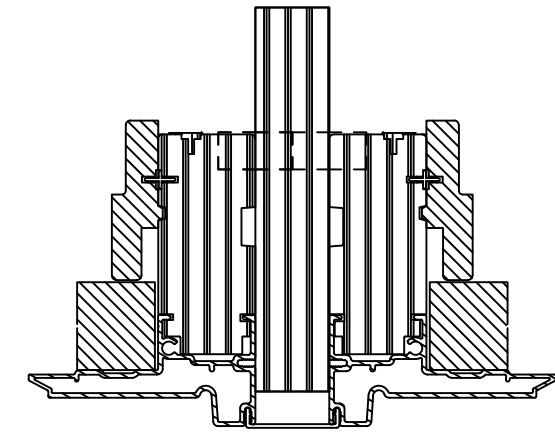
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



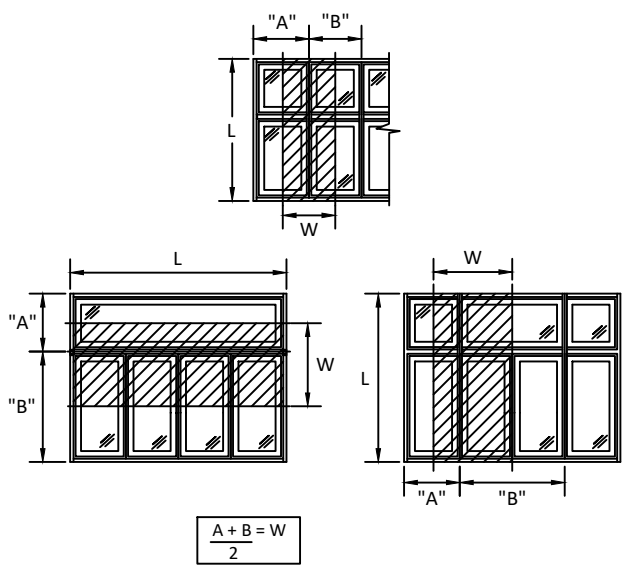
FL #:	FL24230
DATE:	04.18.19
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD251
SHEET:	23

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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 MULL 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.



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

TITLE: E-SERIES FIXED CASEMENT WINDOW -
DIRECT SET (1-PC FRAME)
(W23) (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

REMARKS	BY	DATE
ADDED 5-3/16" MULL & DP CHARTS	LL	7.26.19

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

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL24230

DATE: **04.18.19**

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

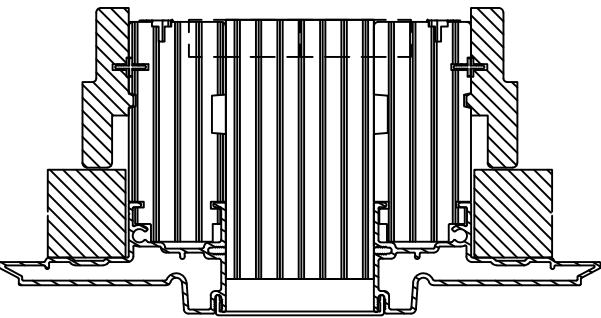
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DWG. #: **AWD251**

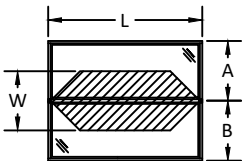
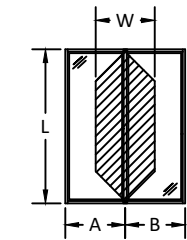
SHEET:
24
OF 28

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	

- NOTE:
- MULLION CHART APPLIES TO 2" X 3-1/2" LVL MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
 - DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 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.
 - MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS LISTED ON SHEET 10.
 - TRIBUTARY WIDTH = $W = (A+B)/2$
 - 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.



2" X 3 1/2"
LVL MULL PROFILE



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



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

TITLE: E-SERIES FIXED CASEMENT WINDOW -
DIRECT SET (1-PC FRAME)
(W/23) (IMPACT)

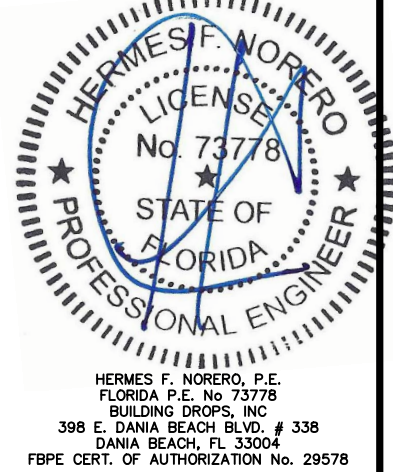
2" X 3 1/2" MULLION LOADS TABLE
ONE WAY

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
ADDED 5-3/16" MULL & DP CHARTS	LL	7.26.19

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:	04.18.19
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD251
SHEET:	25



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

TITLE: E-SERIES FIXED CASEMENT WINDOW -
DIRECT SET (1-PC FRAME)
(W23) (IMPACT)

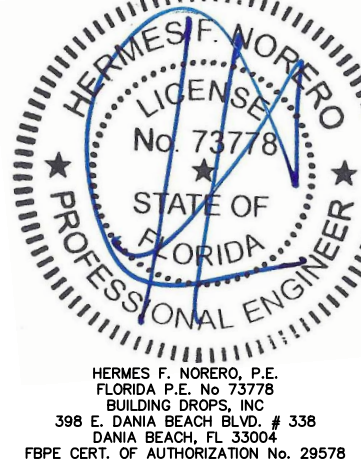
2" X 3 1/2" MULLION LOADS TABLE
TWO WAY

PREPARED BY:

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

REMARKS	BY	DATE
ADDED 5-3/16" MULL & DP CHARTS	LL	7.26.19

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: **04.18.19**

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

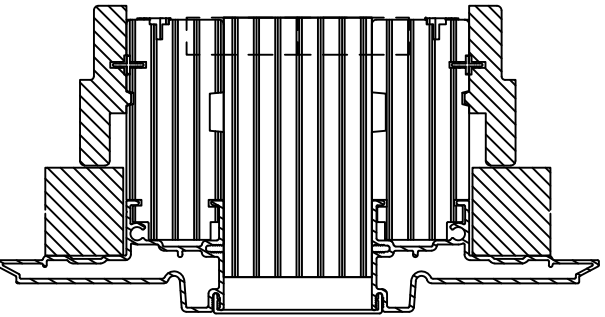
SCALE: **NTS**

DWG. #: **AWD251**

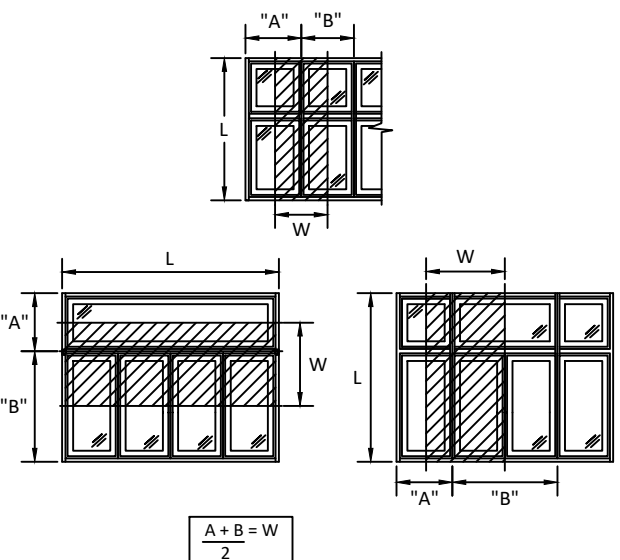
SHEET: **26** OF 28

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

- 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.



2" X 3 1/2"
LVL MULL PROFILE

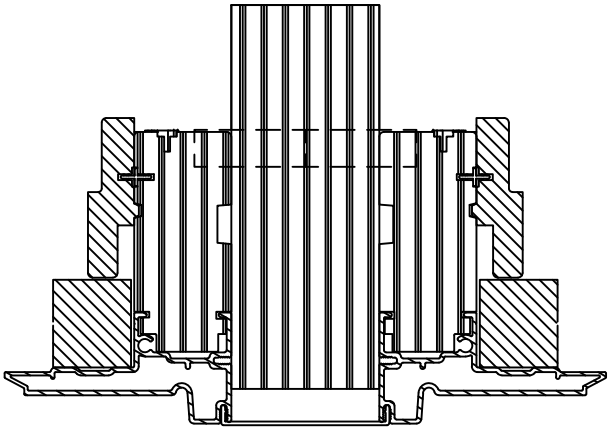


s:\projects\andersen windows\lbc-19-0548-2 - fbc submittal - e-series mullion revisions\dwgs\l74230.4 & 5\awd251 - fl15440-series 13 casement fixed-non-impact-(n-hvz).dwg 8/12/2019 3:40 PM

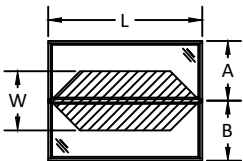
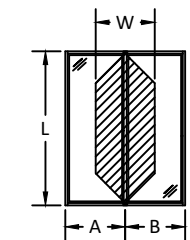
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF) 2" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	75.00	75.00	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

NOTE:

- MULLION CHART APPLIES TO 2" X 5-3/16" LVL MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
- DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 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.
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2" X 5 3/16"
LVL MULL PROFILE



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



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

TITLE: E-SERIES FIXED CASEMENT WINDOW -
DIRECT SET (1-PC FRAME)
(W23) (IMPACT)

2" X 5-3/16" MULLION LOADS TABLE
ONE WAY

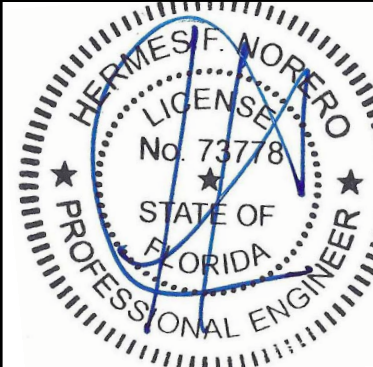
PREPARED BY:

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
ADDED 5-3/16" MULL & DP CHARTS	LL	7.26.19

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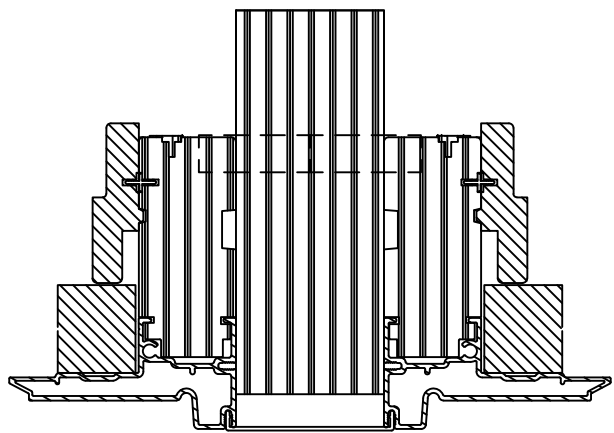
HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL24230
DATE:	04.18.19
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD251
SHEET:	27

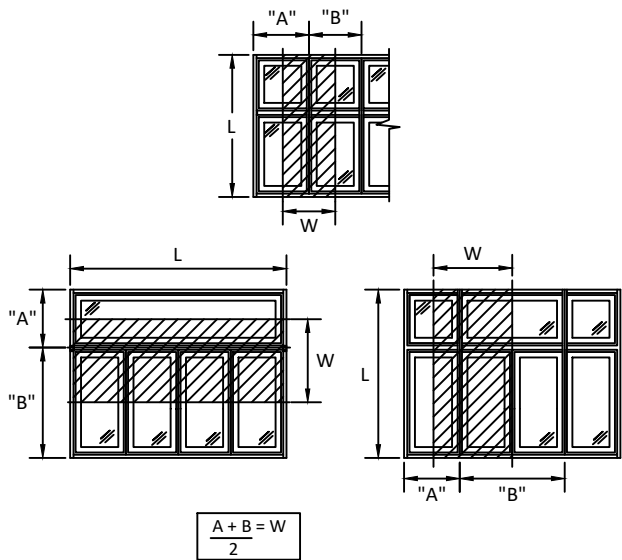
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
2" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	75.00	75.00	75.00	75.00	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

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.



2" X 5 3/16"
LVL MULL PROFILE



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**TITLE: E-SERIES FIXED CASEMENT WINDOW -
DIRECT SET (1-PC FRAME)
(WZ3) (IMPACT)**

2" X 5-3/16" MULLION LOADS TABLE
TWO WAY

PREPARED BY:
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REMARKS	BY	DATE
ADDED 5-3/16" MULL & DP CHARTS	LL	7.26.19

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FL #:

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DWG. BY:
RV

CHK. BY:
HFN

SCALE: NTS

DWG. #: AWD251

SHEET:

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