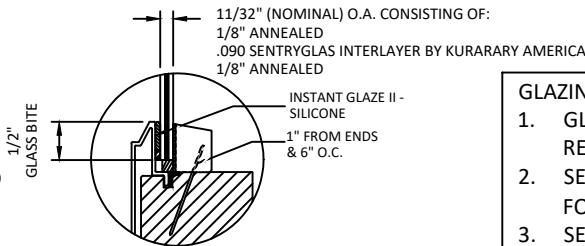


ANDERSEN CORPORATION

E-SERIES AWNING WINDOW (WZ3) (IMPACT)

GENERAL NOTES:

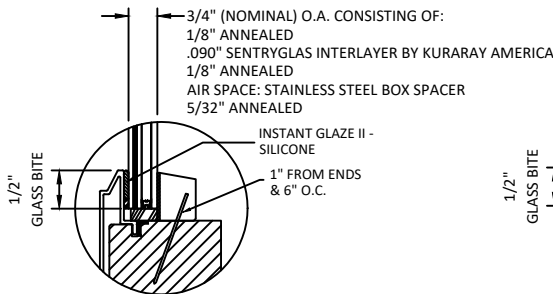
- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/I.S.2/A440-08
 - ASTM 1886-02
 - ASTM 1996-02
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 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.



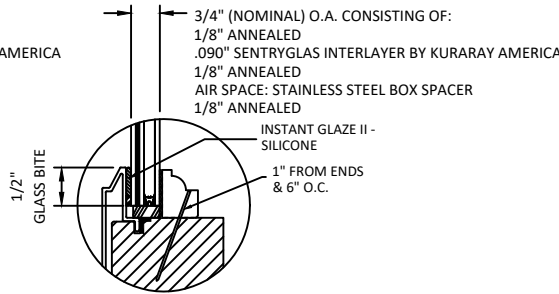
GLAZING DETAIL G1

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



GLAZING DETAIL G2



GLAZING DETAIL G3

WINDOW TYPE	OVERALL FRAME SIZE		OVERALL D.L.O. DIMENSION		GLASS TYPE	No. LOCK POINTS	DESIGN PRESSURE (PSF)	
	WIDTH (IN.)	HEIGHT (IN.)	WIDTH (IN.)	HEIGHT (IN.)			POS.	NEG.
SINGLE	48.0	66.0	41.87	59.87	G1, G2	3	+65	-65
SINGLE	48.0	60.0	41.87	41.87	G1, G2	2	+65	-70
SINGLE	48.0	36.0	41.87	29.87	G1, G3	1	+70	-80

TABLE OF CONTENTS

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



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

TITLE: E-SERIES AWNING WINDOW (WZ3) (IMPACT)

GENERAL NOTES

PREPARED BY:

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



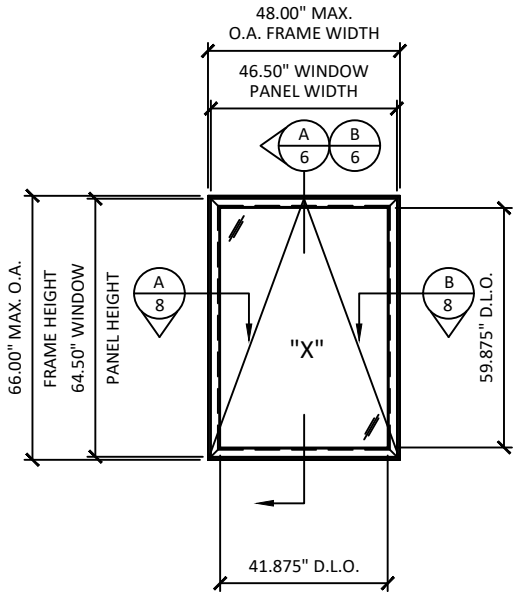
REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10/17
MULL TABLES UPDATE	HR	11/30
ZERO, 1/2", 1", 2" MULL UPDATE	HR	4/12
ADDED 3/16" MULL & DP CHARTS	LL	7/31

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 #:	FL24227
DATE:	10.08.17
DWG. BY:	CHK. BY:
RV	HFN
SCALE:	NTS
DWG. #:	AWD200
SHEET:	1 OF 28



ELEVATION
SINGLE UNIT

HEIGHT	PSF
66.0"	+65/-65
60.0"	+65/-70
36.0"	+70/-80



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
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E-SERIES AWNING WINDOW
(WZ3) (IMPACT)

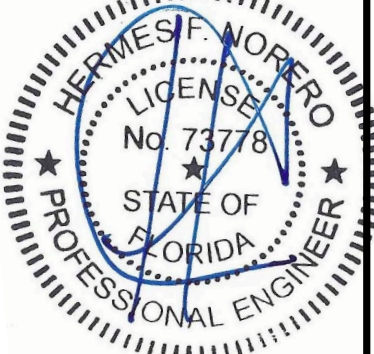
MULLED ELEVATIONS

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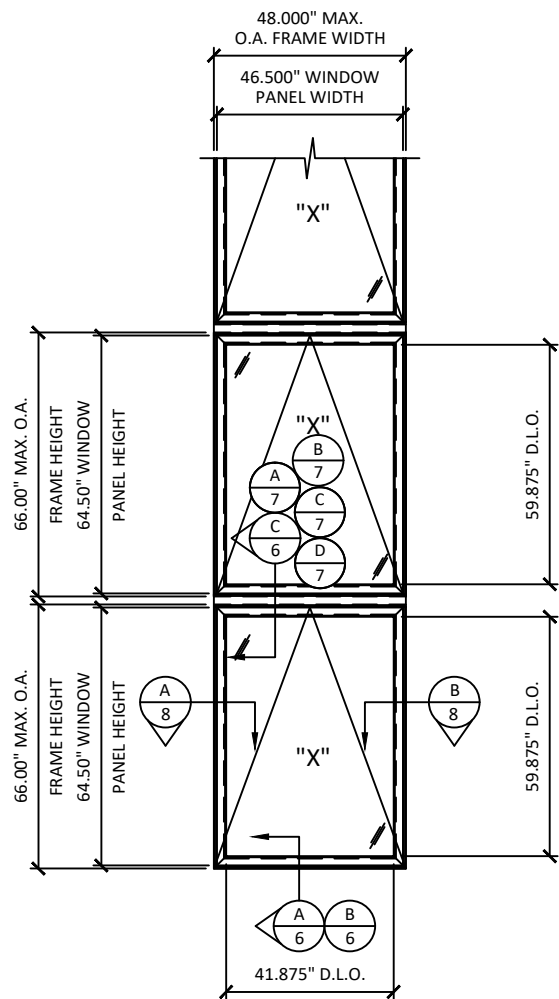
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DWG. BY: **RV** CHK. BY: **HFN**

SCALE: **NTS**

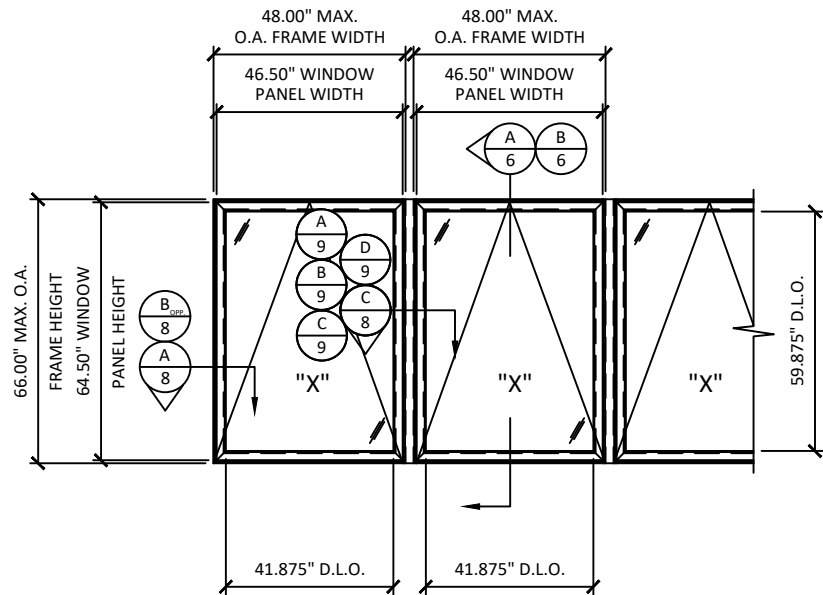
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ELEVATION
MULLED UNITS (WITH 2" MULLION)
VERTICAL CONFIGURATION

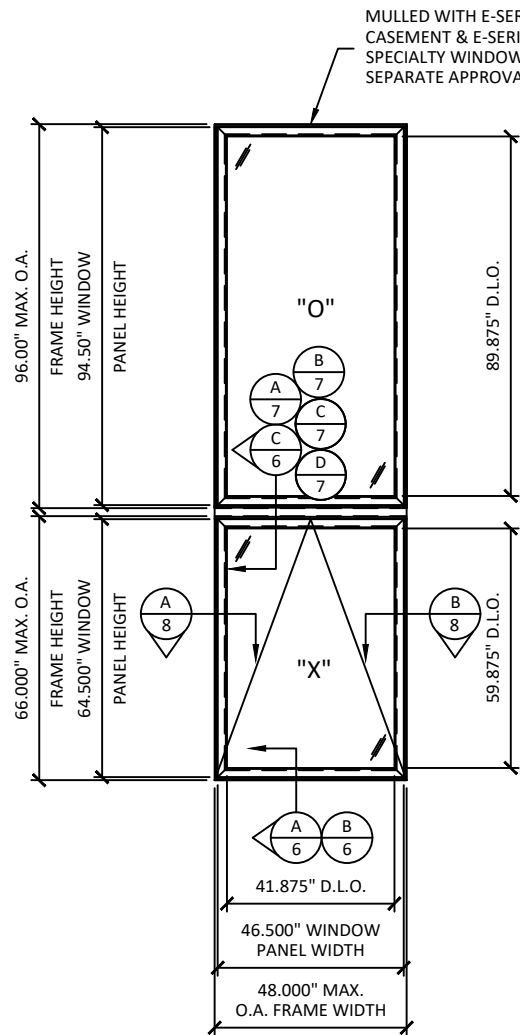
HEIGHT	PSF
66.0"	+65/-65
60.0"	+65/-70
36.0"	+70/-80



ELEVATION
MULLED UNITS (WITH 2" MULLION)
HORIZONTAL CONFIGURATION

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

HEIGHT	PSF
66.0"	+65/-65
60.0"	+65/-70
36.0"	+70/-80



ELEVATION
MULLED WITH E-SERIES FIXED CASEMENT OR E-SERIES
SPECIALTY WINDOW UNITS (WITH 2" MULLION)

HEIGHT	PSF
66.0"	+65/-65
60.0"	+65/-70
36.0"	+70/-75
96.0"	+65/-65
60.0"	+65/-70
48.0"	+70/-80



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TITLE: E-SERIES AWNING WINDOW
(WZ3) (IMPACT)

MULLED ELEVATIONS

PREPARED BY: BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744.4738
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REMARKS	BY	DATE
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ZERO, 1/2", 1", 2" MULL UPDATE	HR	4/12
ADDED 3/16" MULL & DP CHARTS	LL	7/31

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

FL #:
FL24227

DATE: **10.08.17**

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

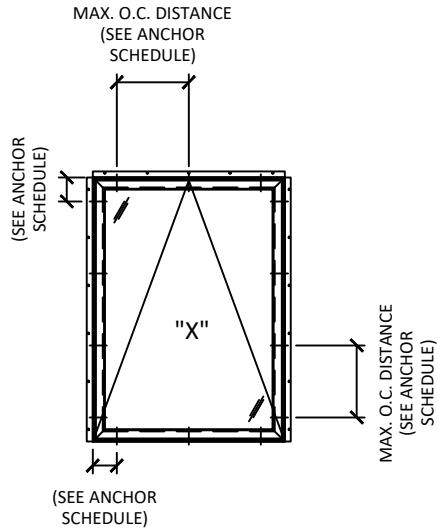
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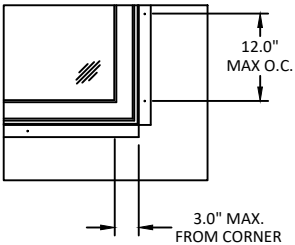
SHEET:

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OF 28



FRAME ANCHORING
SINGLE UNIT



ALUMINUM FIN ANCHORING
SINGLE UNIT

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



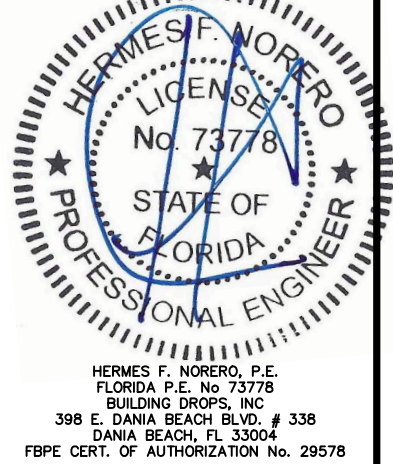
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
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E-SERIES AWNING WINDOW
(WZ3) (IMPACT)
MULLED ANCHOR LAYOUTS

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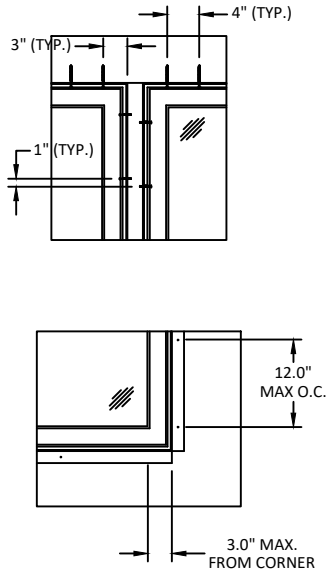
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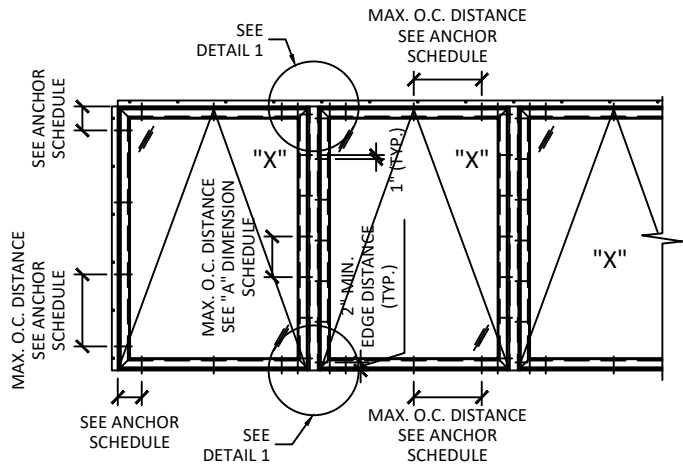
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OF 28

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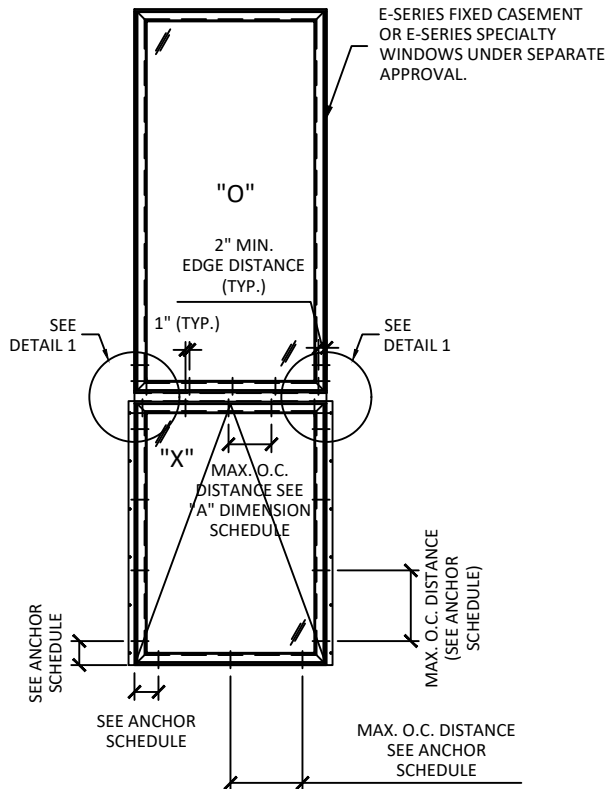


ALUMINUM FIN ANCHORING
SINGLE UNIT



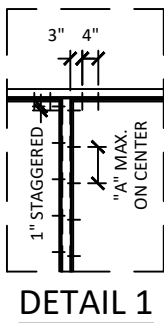
FRAME ANCHORING
MULLED UNITS (WITH 2" MULLION)
HORIZONTAL CONFIGURATION

NOTE:
1. ALL CONFIGURATIONS MAY VARY AS FIXED OR OPERABLE UNITS IN ANY COMBINATION

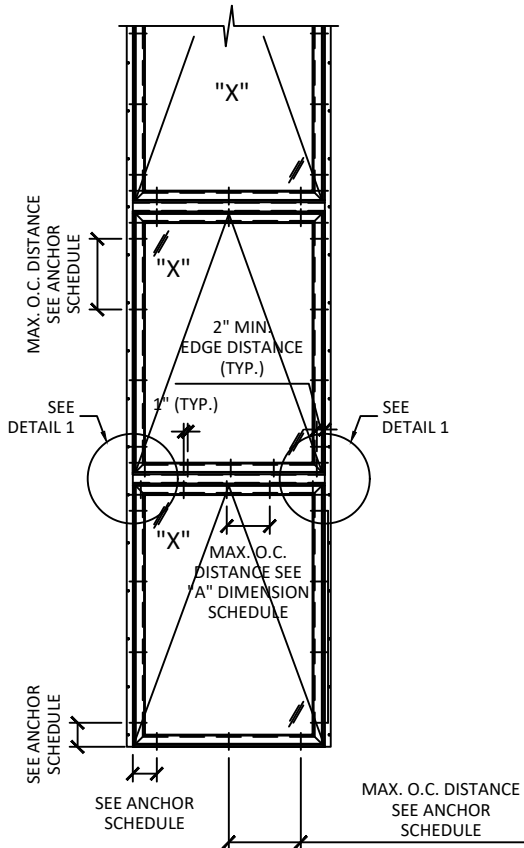


FRAME ANCHORING
MULLED WITH E-SERIES FIXED CASEMENT OR E-SERIES
SPECIALTY WINDOW UNITS (WITH 2" MULLION)

AWNING LOCKING POINTS ALONG JAMB:
48" x 66": 3 LOCKS LOCATED AT 11.5", 31.66" & 51.75" FROM SILL.
48" x 60": 2 LOCKS LOCATED AT 11.5" & 45.75" FROM SILL.
48" x 36": 1 LOCK LOCATED AT 27.75" FROM SILL.



DESIGN PRESSURE	"A" DIMENSION
UP TO 40 PSF	12" MAX. O.C.
UP TO 50 PSF	10" MAX. O.C.
UP TO 80 PSF	8" MAX. O.C.



FRAME ANCHORING
MULLED UNITS (WITH 2" MULLION)
VERTICAL CONFIGURATION



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

TITLE: E-SERIES AWNING WINDOW (WZ3) (IMPACT)

MULLED ANCHOR LAYOUTS

PREPARED BY:

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



REMARKS	BY	DATE
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ZERO, 1/2", 1", 2" MULL UPDATE	HR	4/12
ADDED 3/16" MULL & DP CHARTS	LL	7/31

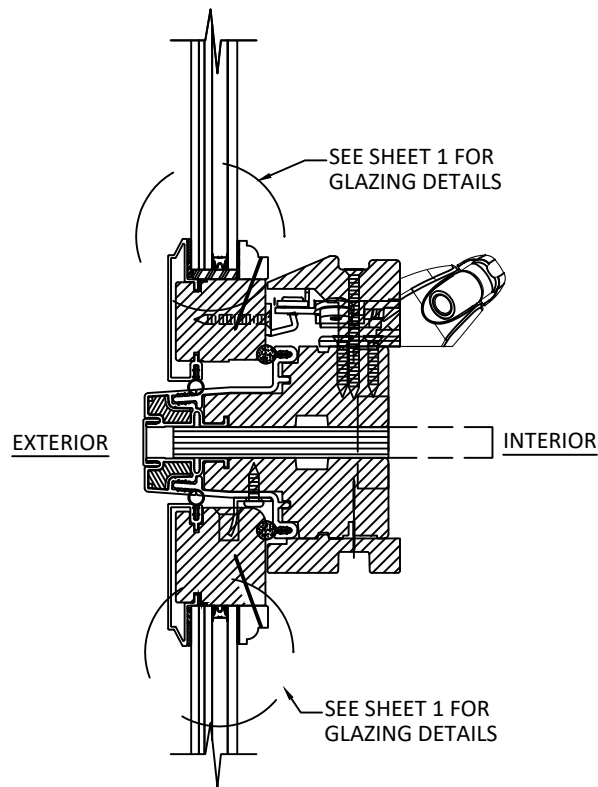
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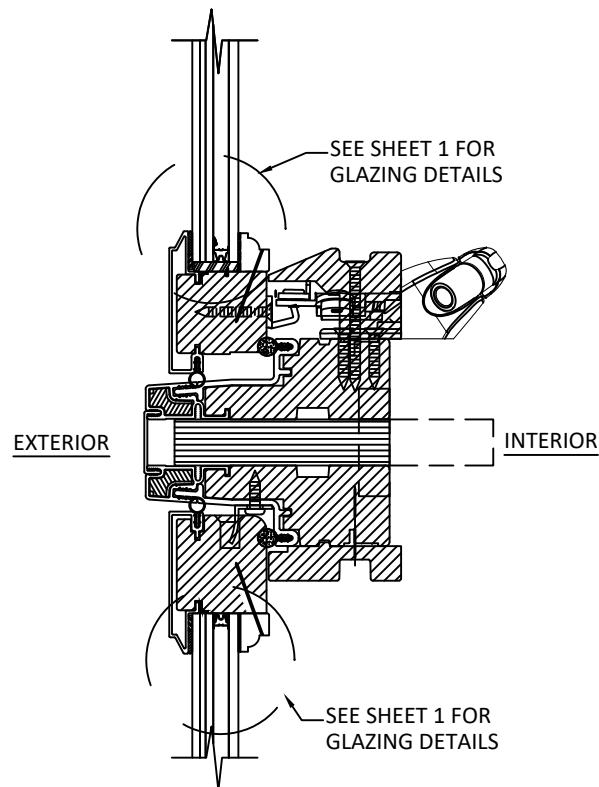
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DATE:	10.08.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD200
SHEET:	5



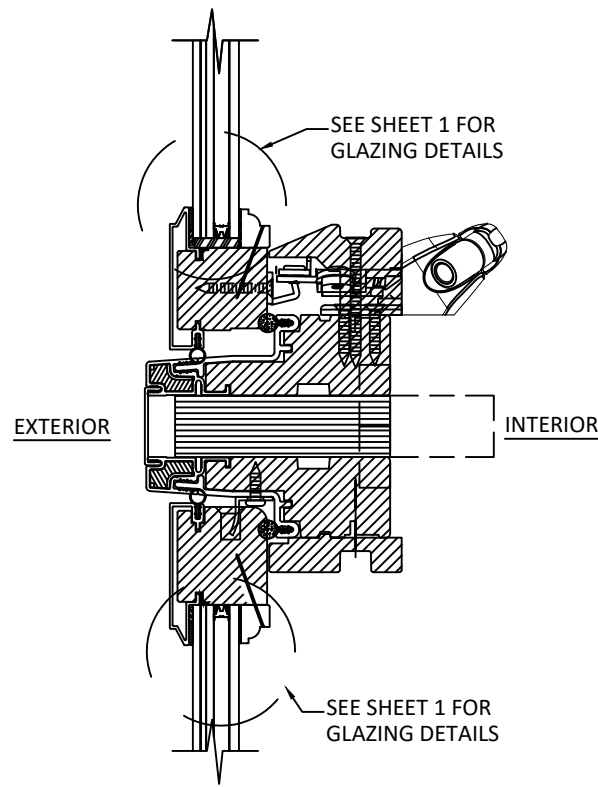
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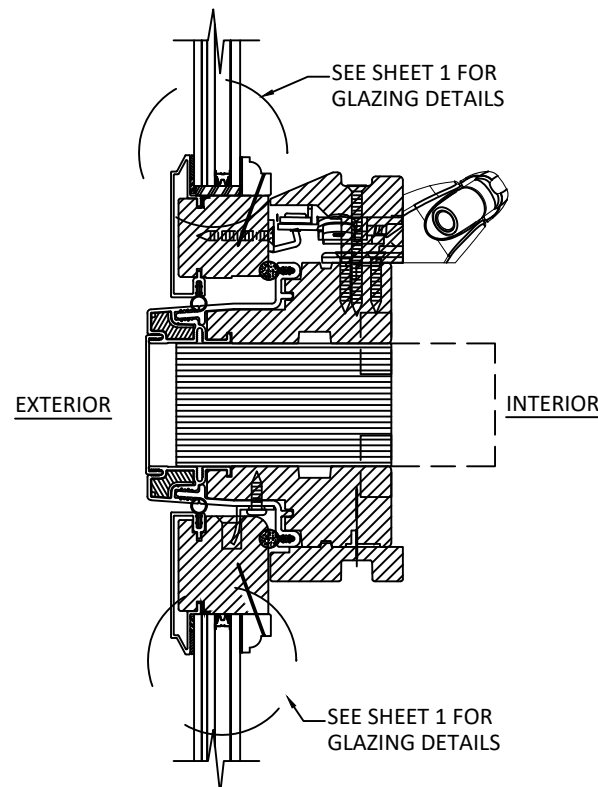
A
7 **VERTICAL SECTION**
INSULATED GLASS
1/2" X 3-1/2" MULLION
OR 1/2" X 5 3/16"



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



C
7 **VERTICAL SECTION**
INSULATED GLASS
1" X 3-1/2" MULLION
OR 1" X 5 3/16"



D
7 **VERTICAL SECTION**
INSULATED GLASS
2" X 3-1/2" MULLION
OR 2" X 5 3/16"

NOTE : LVL MULL 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 AWNING WINDOW
(WZ3) (IMPACT)

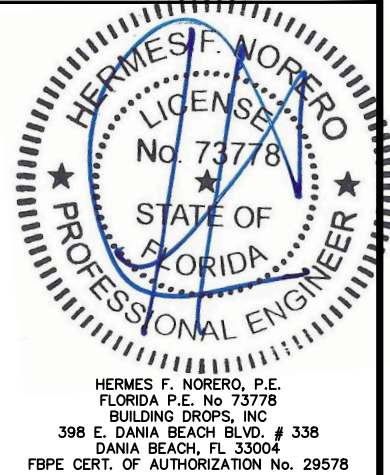
MULLED VERTICAL SECTIONS

PREPARED BY:

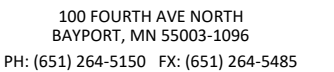
BUILDING DROPS, INC.
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SCALE:	NTS
DWG. #:	AWD200
SHEET:	7



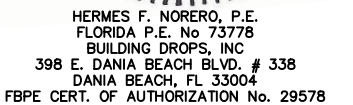
HORIZONTAL SECTIONS

DANIA BEACH BLVD., ST
DANIA BEACH, FL 33004
PH: (954)399-8478

FAX: (954) 744.4738
WEB: www.buildingdrops.com



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DWG. BY:
RV

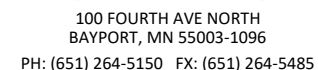
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HFN

DWG. #: AWD200

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OF 28





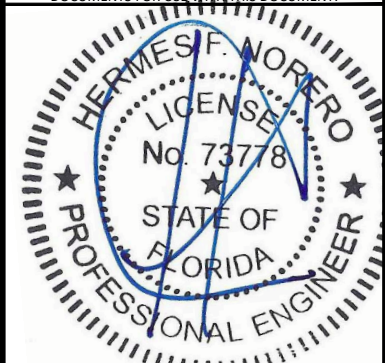
MULLED HORIZONTAL SECTIONS

UILDING DROPS,
398 E. DANIA BEACH BLVD., STEE
DANIA BEACH, FL 33004



REMARKS	BY	DATE
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FLORIDA P.E. No 73778
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DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL24227

DATE: 10.08.17

DWG. BY: RV	CHK. BY: HFN
-----------------------	------------------------

SCALE: NTS

DWG. #: AWD200

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C

OF 28

EXTERIOR

—SEE SHEET 1 FOR
GLAZING DETAILS

A9 HORIZONTAL SECTION

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

EXTERIOR

—SEE SHEET 1 FOR
GLAZING DETAILS

B HORIZONTAL SECTION

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

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

EXTERIOR

—SEE SHEET 1 FOR
GLAZING DETAILS

C9 HORIZONTAL SECTION

MONOLITHIC/INSULATED GLASS

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

EXTERIOR

— SEE SHEET 1 FOR
GLAZING DETAILS

D HORIZONTAL SECTION

9 MONOLITHIC/INSULATED GLASS

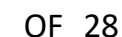
**MONOLITHIC/INSULATED GLASS
2" X 3-1/2" MULLION
OR 2" X 5 3/16"**



NOTE:

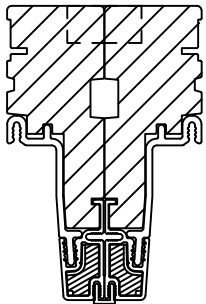
1. LOCATION OF BUCK OR WINDOW ANCHORS MAY BE ADJUSTED TO MAINTAIN 1" MIN. CENTER TO CENTER SPACING BETWEEN ANCHORS SUCH THAT MAX. O.C. SPACING SPECIFIED IS NOT EXCEEDED.
2. BUCK MAY BE FLUSH WITH FACE OF THE BLOCK.

ANCHOR SCHEDULE							
METHOD	SUBSTRATE	ANCHOR SCHEDULE	MIN EMBEDMENT	MIN. EDGE DISTANCE	FROM CORNERS	O.C. HEAD & SILL	O.C. JAMBS
THROUGH FRAME	WOOD: MIN. SG = 0.55	#10 WOOD SCREW	1.5"	0.75"	6"	18"	18"
	METAL: 18 GAUGE Steel, MIN. Fy = 33KSI	#10 TEK SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.75"	6"	18"	18"
	CONCRETE: f _c =3000PSI	1/4" ITW TAPCON	1.75"	2.5"	6"	18"	18"
	MASONRY: CMU per ASTM C90 MIN. 2000 PSI	1/4" ITW TAPCON	1.75"	2.5"	6"	18"	18"
STRAP ANCHOR	WOOD: MIN. SG = 0.55	#8 WOOD SCREW	1.5"	0.75"	6"	18"	18"
	METAL: 18 GAUGE Steel, MIN. Fy = 33KSI	#10 TEK SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.75"	6"	18"	18"
ALUMINUM NAILING FIN	WOOD: MIN. SG = 0.55	#8 WOOD SCREW	1.5"	0.75"	3"	12"	12"
	METAL: 18 GAUGE Steel, MIN. Fy = 33KSI	#10 TEK SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.75"	3"	12"	12"

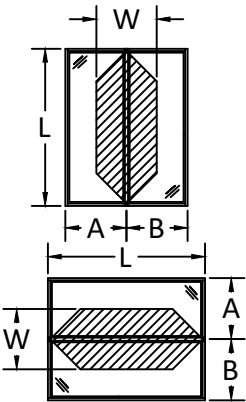


s:\projects\andersen windows\lbc-19-0548-2 - fbc submittal - e-series mullion revisions\dwgs\l74227-2 & 3\awd200 - flb554-impact-clad vent awning window.dwg
8/14/2019 6:37 PM

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	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
30.0	47.60	44.95	44.95	44.95	44.95	44.95	44.95	44.95	44.95	44.95	44.95	44.95	44.95	44.95	44.95
36.0	30.52	26.01	26.01	26.01	26.01	26.01	26.01	26.01	26.01	26.01	26.01	26.01	26.01	26.01	26.01
42.0	21.43	16.87	16.38	16.38	16.38	16.38	16.38	16.38	16.38	16.38	16.38	16.38	16.38	16.38	16.38
48.0	15.96	12.00	10.97	10.97	10.97	10.97	10.97	10.97	10.97	10.97	10.97	10.97	10.97	10.97	10.97
54.0	12.37	9.04	7.85	7.71	7.71	7.71	7.71	7.71	7.71	7.71	7.71	7.71	7.71	7.71	7.71
60.0	9.89	7.09	5.95	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62	5.62
66.0	8.10	5.72	4.70	4.27	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22
72.0	6.75	4.73	3.81	3.38	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
78.0	5.72	3.98	3.17	2.76	2.58	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
84.0	4.91	3.39	2.68	2.30	2.11	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05
90.0	4.26	2.93	2.30	1.95	1.76	1.68	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66
96.0	3.74	2.56	1.99	1.68	1.50	1.40	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37
102.0	3.30	2.25	1.75	1.46	1.29	1.20	1.15	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
108.0	2.94	2.00	1.55	1.29	1.13	1.03	0.98	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
114.0	2.63	1.79	1.38	1.14	1.00	0.90	0.85	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
120.0	2.37	1.61	1.24	1.02	0.89	0.80	0.74	0.71	0.70	0.70	0.70	0.70	0.70	0.70	0.70
126.0	2.15	1.46	1.12	0.92	0.79	0.71	0.66	0.62	0.61	0.61	0.61	0.61	0.61	0.61	0.61
132.0	1.96	1.32	1.01	0.83	0.72	0.64	0.59	0.55	0.53	0.53	0.53	0.53	0.53	0.53	0.53
138.0	1.79	1.21	0.92	0.76	0.65	0.58	0.53	0.49	0.47	0.46	0.46	0.46	0.46	0.46	0.46
144.0	1.64	1.11	0.84	0.69	0.59	0.52	0.48	0.44	0.42	0.41	0.41	0.41	0.41	0.41	0.41
150.0	1.51	1.02	0.78	0.63	0.54	0.48	0.43	0.40	0.38	0.37	0.36	0.36	0.36	0.36	0.36
156.0	1.40	0.94	0.72	0.58	0.50	0.44	0.40	0.37	0.34	0.33	0.32	0.32	0.32	0.32	0.32
162.0	1.29	0.87	0.66	0.54	0.46	0.40	0.36	0.33	0.31	0.30	0.29	0.29	0.29	0.29	0.29
168.0	1.20	0.81	0.61	0.50	0.42	0.37	0.33	0.31	0.29	0.27	0.26	0.26	0.26	0.26	0.26
174.0	1.12	0.75	0.57	0.46	0.39	0.34	0.31	0.28	0.26	0.25	0.24	0.23	0.23	0.23	0.23
180.0	1.05	0.70	0.53	0.43	0.37	0.32	0.29	0.26	0.24	0.23	0.22	0.21	0.21	0.21	0.21
186.0	0.98	0.66	0.50	0.40	0.34	0.30	0.27	0.24	0.23	0.21	0.20	0.20	0.19	0.19	0.19
192.0	0.92	0.62	0.47	0.38	0.32	0.28	0.25	0.23	0.21	0.20	0.19	0.18	0.18	0.17	0.17



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 E-SERIES WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL APPROVAL.
 - 5) MULLION CHART APPLIES TO THE 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

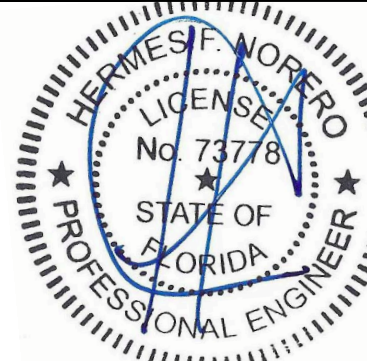
TITLE:
E-SERIES AWNING WINDOW
(WZ3) (IMPACT)
ZERO MULLION LOADS TABLE
ONE WAY

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



REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10/17
MULL TABLES UPDATE	HR	11/30
ZERO, 1/2", 1", 2" MULL UPDATE	HR	4/12
ADDED 3/16" MULL & DP CHARTS	LL	7/31

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.

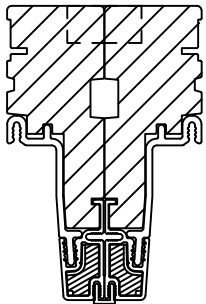


HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

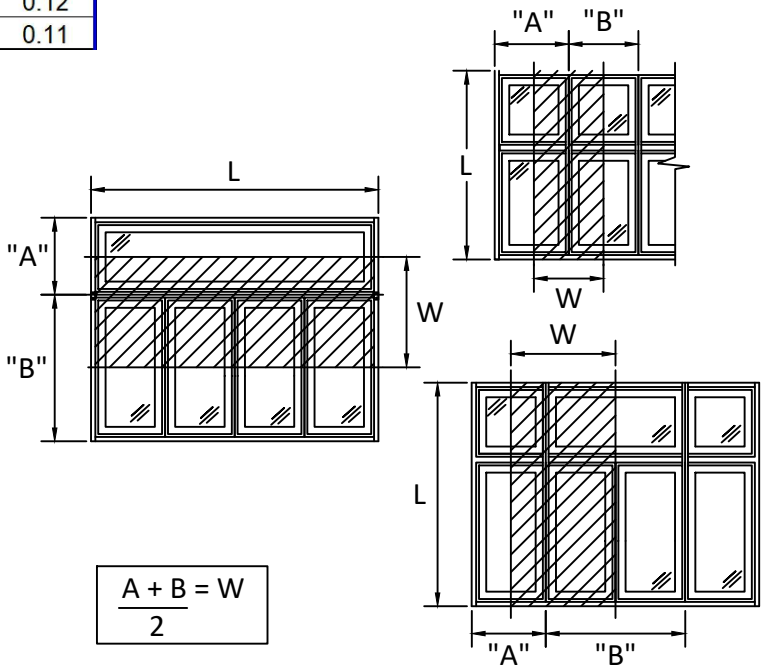
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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD200
SHEET:	11

s:\projects\andersen windows\lbc-19-0548-2 - fbc submittal - e-series mullion revisions\dwgs\lbc190548-2 & 3\awd200 - flb554-impact-clad vent awning window.dwg 8/14/2019 6:37 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	58.52	39.02	29.26	23.41	19.51	16.72	14.63	13.01	11.70	10.64	9.75	9.00	8.36	7.80	7.32
30.0	37.46	24.97	18.73	14.98	12.49	10.70	9.36	8.32	7.49	6.81	6.24	5.76	5.35	4.99	4.68
36.0	26.01	17.34	13.01	10.40	8.67	7.43	6.50	5.78	5.20	4.73	4.34	4.00	3.72	3.47	3.25
42.0	19.11	12.74	9.56	7.64	6.37	5.46	4.78	4.25	3.82	3.47	3.19	2.94	2.73	2.55	2.39
48.0	14.63	9.75	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
54.0	11.56	7.71	5.78	4.62	3.85	3.30	2.89	2.57	2.31	2.10	1.93	1.78	1.65	1.54	1.45
60.0	9.36	6.24	4.68	3.75	3.12	2.68	2.34	2.08	1.87	1.70	1.56	1.44	1.34	1.25	1.17
66.0	7.74	5.16	3.87	3.10	2.58	2.21	1.93	1.72	1.55	1.41	1.29	1.19	1.11	1.03	0.97
72.0	6.50	4.34	3.25	2.60	2.17	1.86	1.63	1.45	1.30	1.18	1.08	1.00	0.93	0.87	0.81
78.0	5.54	3.69	2.77	2.22	1.85	1.58	1.39	1.23	1.11	1.01	0.92	0.85	0.79	0.74	0.69
84.0	4.78	3.19	2.39	1.91	1.59	1.37	1.19	1.06	0.96	0.87	0.80	0.74	0.68	0.64	0.60
90.0	4.16	2.77	2.08	1.66	1.39	1.19	1.04	0.92	0.83	0.76	0.69	0.64	0.59	0.55	0.52
96.0	3.66	2.44	1.83	1.46	1.22	1.05	0.91	0.81	0.73	0.67	0.61	0.56	0.52	0.49	0.46
102.0	3.24	2.16	1.62	1.30	1.08	0.93	0.81	0.72	0.65	0.59	0.54	0.50	0.46	0.43	0.41
108.0	2.89	1.93	1.45	1.16	0.96	0.83	0.72	0.64	0.58	0.53	0.48	0.44	0.41	0.39	0.36
114.0	2.59	1.73	1.30	1.04	0.86	0.74	0.65	0.58	0.52	0.47	0.43	0.40	0.37	0.35	0.32
120.0	2.34	1.56	1.17	0.94	0.78	0.67	0.59	0.52	0.47	0.43	0.39	0.36	0.33	0.31	0.29
126.0	2.12	1.42	1.06	0.85	0.71	0.61	0.53	0.47	0.42	0.39	0.35	0.33	0.30	0.28	0.27
132.0	1.93	1.29	0.97	0.77	0.64	0.55	0.48	0.43	0.39	0.35	0.32	0.30	0.28	0.26	0.24
138.0	1.77	1.18	0.89	0.71	0.59	0.51	0.44	0.39	0.35	0.32	0.30	0.27	0.25	0.24	0.22
144.0	1.63	1.08	0.81	0.65	0.54	0.46	0.41	0.36	0.33	0.30	0.27	0.25	0.23	0.22	0.20
150.0	1.50	1.00	0.75	0.60	0.50	0.43	0.37	0.33	0.30	0.27	0.25	0.23	0.21	0.20	0.19
156.0	1.39	0.92	0.69	0.55	0.46	0.40	0.35	0.31	0.28	0.25	0.23	0.21	0.20	0.18	0.17
162.0	1.28	0.86	0.64	0.51	0.43	0.37	0.32	0.29	0.26	0.23	0.21	0.20	0.18	0.17	0.16
168.0	1.19	0.80	0.60	0.48	0.40	0.34	0.30	0.27	0.24	0.22	0.20	0.18	0.17	0.16	0.15
174.0	1.11	0.74	0.56	0.45	0.37	0.32	0.28	0.25	0.22	0.20	0.19	0.17	0.16	0.15	0.14
180.0	1.04	0.69	0.52	0.42	0.35	0.30	0.26	0.23	0.21	0.19	0.17	0.16	0.15	0.14	0.13
186.0	0.97	0.65	0.49	0.39	0.32	0.28	0.24	0.22	0.19	0.18	0.16	0.15	0.14	0.13	0.12
192.0	0.91	0.61	0.46	0.37	0.30	0.26	0.23	0.20	0.18	0.17	0.15	0.14	0.13	0.12	0.11



ZERO MULLION PROFILE



- 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 E-SERIES WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL APPROVAL.
 - 5) MULLION CHART APPLIES TO THE INSTALLATION CONDITIONS LISTED ON SHEET 10
 - 6) TRIBUTARY WIDTH = W = (A+B)/2
 - 8) 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

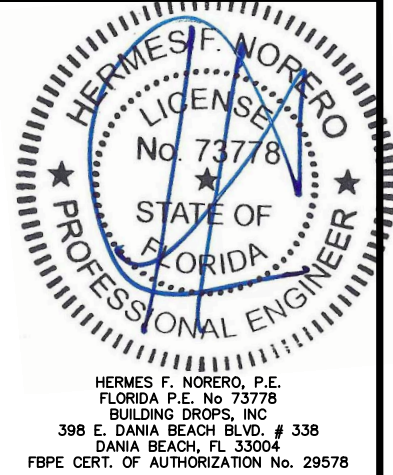
TITLE:
E-SERIES AWNING WINDOW
(WZ3) (IMPACT)
ZERO MULLION LOADS TABLE
TWO WAY

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



REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10/17
MULL TABLES UPDATE	HR	11/30
ZERO, 1/2", 1", 2" MULL UPDATE	HR	4/12
ADDED 3/16" MULL & DP CHARTS	LL	7/31

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.



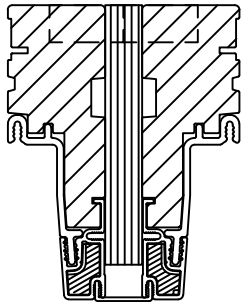
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CHK. BY:	HFN
SCALE:	NTS
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SHEET:	12

s:\projects\andersen windows\lbc-19-0548-2 - fbc submittal - e-series mullion revisions\dwgs\l74227-2 & 3\awd200 - flb554-impact-clad vent awning window.dwg 8/14/2019 6:37 PM

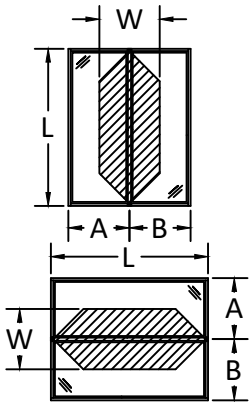
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)																
1/2" X 3-1/2" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION																
L - Mull Length (in)	W - Tributary Width (in)															
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0	
24.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
30.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
36.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
42.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
48.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
54.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
60.0	65.00	64.52	54.15	51.13	51.13	51.13	51.13	51.13	51.13	51.13	51.13	51.13	51.13	51.13	51.13	51.13
66.0	65.00	52.09	42.73	38.89	38.41	38.41	38.41	38.41	38.41	38.41	38.41	38.41	38.41	38.41	38.41	38.41
72.0	61.46	43.02	34.71	30.80	29.59	29.59	29.59	29.59	29.59	29.59	29.59	29.59	29.59	29.59	29.59	29.59
78.0	48.37	33.86	27.23	23.95	22.56	22.38	22.38	22.38	22.38	22.38	22.38	22.38	22.38	22.38	22.38	22.38
84.0	38.52	26.79	21.32	18.48	17.08	16.64	16.64	16.64	16.64	16.64	16.64	16.64	16.64	16.64	16.64	16.64
90.0	31.18	21.57	17.03	14.59	13.28	12.70	12.62	12.62	12.62	12.62	12.62	12.62	12.62	12.62	12.62	12.62
96.0	25.60	17.63	13.83	11.74	10.56	9.95	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75
102.0	21.28	14.60	11.40	9.61	8.55	7.96	7.69	7.65	7.65	7.65	7.65	7.65	7.65	7.65	7.65	7.65
108.0	17.88	12.23	9.51	7.97	7.04	6.48	6.19	6.09	6.09	6.09	6.09	6.09	6.09	6.09	6.09	6.09
114.0	15.17	10.35	8.02	6.68	5.87	5.36	5.06	4.92	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90
120.0	12.98	8.84	6.82	5.67	4.95	4.49	4.20	4.05	3.99	3.99	3.99	3.99	3.99	3.99	3.99	3.99
126.0	11.20	7.61	5.86	4.85	4.21	3.80	3.53	3.37	3.30	3.29	3.29	3.29	3.29	3.29	3.29	3.29
132.0	9.72	6.60	5.07	4.18	3.62	3.25	3.00	2.85	2.76	2.73	2.73	2.73	2.73	2.73	2.73	2.73
138.0	8.50	5.76	4.42	3.63	3.13	2.80	2.57	2.43	2.33	2.29	2.28	2.28	2.28	2.28	2.28	2.28
144.0	7.47	5.06	3.87	3.18	2.73	2.43	2.23	2.09	2.00	1.94	1.93	1.93	1.93	1.93	1.93	1.93
150.0	6.61	4.46	3.41	2.80	2.40	2.13	1.94	1.81	1.72	1.67	1.64	1.64	1.64	1.64	1.64	1.64
156.0	5.87	3.96	3.02	2.47	2.12	1.87	1.70	1.58	1.50	1.44	1.41	1.40	1.40	1.40	1.40	1.40
162.0	5.24	3.53	2.69	2.20	1.88	1.66	1.50	1.39	1.31	1.26	1.22	1.21	1.20	1.20	1.20	1.20
168.0	4.69	3.16	2.41	1.96	1.67	1.47	1.33	1.23	1.15	1.10	1.07	1.05	1.04	1.04	1.04	1.04
174.0	4.22	2.84	2.16	1.76	1.50	1.32	1.19	1.09	1.02	0.97	0.94	0.92	0.91	0.90	0.90	0.90
180.0	3.81	2.56	1.95	1.59	1.35	1.18	1.06	0.98	0.91	0.86	0.83	0.81	0.79	0.79	0.79	0.79
186.0	3.45	2.32	1.76	1.43	1.22	1.07	0.96	0.88	0.82	0.77	0.74	0.72	0.70	0.69	0.69	0.69
192.0	3.14	2.11	1.60	1.30	1.10	0.96	0.86	0.79	0.73	0.69	0.66	0.64	0.62	0.61	0.61	0.61

NOTE:

- MULLION CHART APPLIES TO 1/2" 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 E-SERIES WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL APPROVAL.
- MULLION CHART APPLIES TO THE 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.



1/2" 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

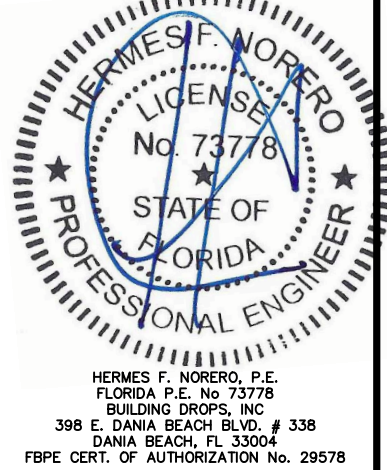
TITLE: E-SERIES AWNING WINDOW
(WZ3) (IMPACT)
1/2"X 3-1/2" MULLION LOADS TABLE
ONE WAY

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



REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10/17
MULL TABLES UPDATE	HR	11/30
ZERO, 1/2", 1", 2" MULL UPDATE	HR	4/12
ADDED 3/16" MULL & DP CHARTS	LL	7/31

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FL #:
FL24227

DATE: **10.08.17**

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

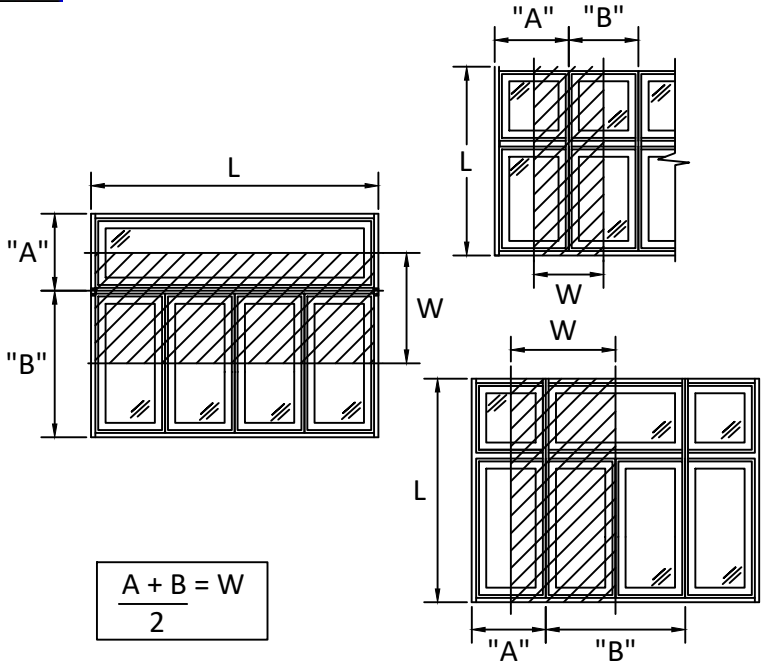
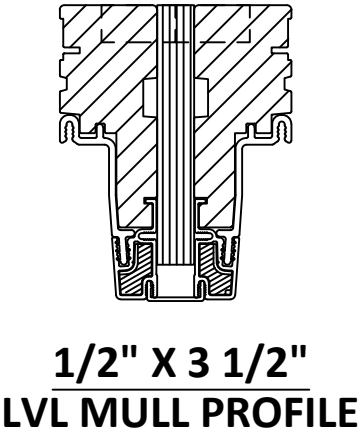
SCALE: **NTS**

DWG. #: **AWD200**

SHEET:
13
OF 28

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1/2" X 3-1/2" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	65.00	65.00	65.00	65.00	65.00	65.00	58.50	52.00	46.80	42.55	39.00	36.00	33.43	31.20	29.25
30.0	65.00	65.00	65.00	65.00	62.40	53.49	46.80	41.60	37.44	34.04	31.20	28.80	26.74	24.96	23.40
36.0	65.00	65.00	65.00	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	65.00	65.00	65.00	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	65.00	65.00	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	65.00	65.00	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	65.00	56.81	42.61	34.09	28.41	24.35	21.30	18.94	17.04	15.49	14.20	13.11	12.17	11.36	10.65
66.0	65.00	46.95	35.21	28.17	23.48	20.12	17.61	15.65	14.09	12.80	11.74	10.83	10.06	9.39	8.80
72.0	59.18	39.45	29.59	23.67	19.73	16.91	14.79	13.15	11.84	10.76	9.86	9.10	8.45	7.89	7.40
78.0	46.55	31.03	23.27	18.62	15.52	13.30	11.64	10.34	9.31	8.46	7.76	7.16	6.65	6.21	5.82
84.0	37.27	24.84	18.63	14.91	12.42	10.65	9.32	8.28	7.45	6.78	6.21	5.73	5.32	4.97	4.66
90.0	30.30	20.20	15.15	12.12	10.10	8.66	7.57	6.73	6.06	5.51	5.05	4.66	4.33	4.04	3.79
96.0	24.97	16.64	12.48	9.99	8.32	7.13	6.24	5.55	4.99	4.54	4.16	3.84	3.57	3.33	3.12
102.0	20.81	13.88	10.41	8.33	6.94	5.95	5.20	4.63	4.16	3.78	3.47	3.20	2.97	2.78	2.60
108.0	17.53	11.69	8.77	7.01	5.84	5.01	4.38	3.90	3.51	3.19	2.92	2.70	2.50	2.34	2.19
114.0	14.91	9.94	7.45	5.96	4.97	4.26	3.73	3.31	2.98	2.71	2.48	2.29	2.13	1.99	1.86
120.0	12.78	8.52	6.39	5.11	4.26	3.65	3.20	2.84	2.56	2.32	2.13	1.97	1.83	1.70	1.60
126.0	11.04	7.36	5.52	4.42	3.68	3.15	2.76	2.45	2.21	2.01	1.84	1.70	1.58	1.47	1.38
132.0	9.60	6.40	4.80	3.84	3.20	2.74	2.40	2.13	1.92	1.75	1.60	1.48	1.37	1.28	1.20
138.0	8.40	5.60	4.20	3.36	2.80	2.40	2.10	1.87	1.68	1.53	1.40	1.29	1.20	1.12	1.05
144.0	7.40	4.93	3.70	2.96	2.47	2.11	1.85	1.64	1.48	1.34	1.23	1.14	1.06	0.99	0.92
150.0	6.54	4.36	3.27	2.62	2.18	1.87	1.64	1.45	1.31	1.19	1.09	1.01	0.93	0.87	0.82
156.0	5.82	3.88	2.91	2.33	1.94	1.66	1.45	1.29	1.16	1.06	0.97	0.90	0.83	0.78	0.73
162.0	5.20	3.46	2.60	2.08	1.73	1.48	1.30	1.15	1.04	0.94	0.87	0.80	0.74	0.69	0.65
168.0	4.66	3.11	2.33	1.86	1.55	1.33	1.16	1.04	0.93	0.85	0.78	0.72	0.67	0.62	0.58
174.0	4.19	2.80	2.10	1.68	1.40	1.20	1.05	0.93	0.84	0.76	0.70	0.65	0.60	0.56	0.52
180.0	3.79	2.52	1.89	1.51	1.26	1.08	0.95	0.84	0.76	0.69	0.63	0.58	0.54	0.50	0.47
186.0	3.43	2.29	1.72	1.37	1.14	0.98	0.86	0.76	0.69	0.62	0.57	0.53	0.49	0.46	0.43
192.0	3.12	2.08	1.56	1.25	1.04	0.89	0.78	0.69	0.62	0.57	0.52	0.48	0.45	0.42	0.39

- 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 E-SERIES WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL APPROVAL.
 - 5) MULLION CHART APPLIES TO THE 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 AWNING WINDOW (WZ3) (IMPACT)

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

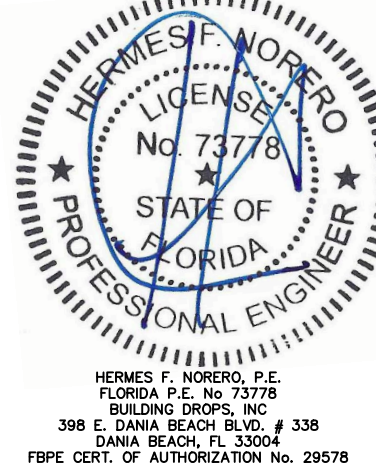
PREPARED BY: BUILDING DROPS, INC.

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



REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10/17
MULL TABLES UPDATE	HR	11/30
ZERO, 1/2", 1", 2" MULL UPDATE	HR	4/12
ADDED 3/16" MULL & DP CHARTS	LL	7/31

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.



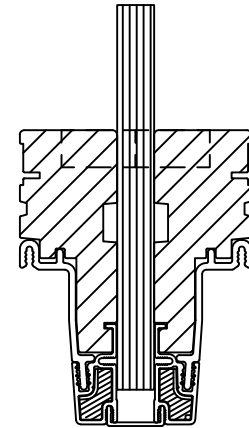
FL #:	FL24227
DATE:	10.08.17
DWG. BY:	CHK. BY:
RV	HFN
SCALE:	NTS
DWG. #:	AWD200
SHEET:	14

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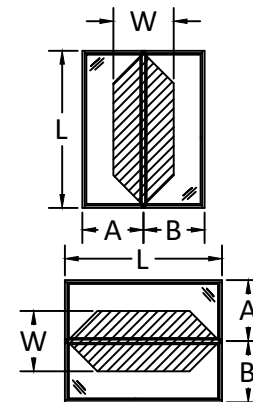
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF) 1/2" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
30.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
36.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
42.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
48.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
54.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
60.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
66.0	65.00	65.00	65.00	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	65.00	65.00	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	65.00	62.40	50.78	44.65	42.07	41.73	41.73	41.73	41.73	41.73	41.73	41.73	41.73	41.73	41.73
84.0	65.00	49.95	39.76	34.46	31.85	31.02	31.02	31.02	31.02	31.02	31.02	31.02	31.02	31.02	31.02
90.0	58.14	40.22	31.76	27.21	24.77	23.69	23.54	23.54	23.54	23.54	23.54	23.54	23.54	23.54	23.54
96.0	47.74	32.87	25.80	21.90	19.69	18.56	18.19	18.19	18.19	18.19	18.19	18.19	18.19	18.19	18.19
102.0	39.68	27.23	21.25	17.91	15.95	14.85	14.34	14.27	14.27	14.27	14.27	14.27	14.27	14.27	14.27
108.0	33.34	22.81	17.73	14.85	13.12	12.09	11.54	11.35	11.35	11.35	11.35	11.35	11.35	11.35	11.35
114.0	28.29	19.30	14.95	12.46	10.94	9.99	9.44	9.18	9.15	9.15	9.15	9.15	9.15	9.15	9.15
120.0	24.21	16.48	12.73	10.57	9.22	8.37	7.84	7.55	7.45	7.45	7.45	7.45	7.45	7.45	7.45
126.0	20.88	14.19	10.93	9.04	7.85	7.08	6.59	6.29	6.15	6.13	6.13	6.13	6.13	6.13	6.13
132.0	18.13	12.30	9.45	7.80	6.75	6.06	5.60	5.31	5.14	5.09	5.09	5.09	5.09	5.09	5.09
138.0	15.85	10.74	8.23	6.77	5.84	5.22	4.80	4.52	4.35	4.27	4.26	4.26	4.26	4.26	4.26
144.0	13.94	9.43	7.22	5.92	5.10	4.54	4.15	3.89	3.72	3.63	3.59	3.59	3.59	3.59	3.59
150.0	12.32	8.33	6.36	5.21	4.47	3.97	3.62	3.37	3.21	3.11	3.06	3.05	3.05	3.05	3.05
156.0	10.94	7.39	5.64	4.61	3.95	3.49	3.17	2.95	2.79	2.69	2.63	2.61	2.61	2.61	2.61
162.0	9.76	6.59	5.02	4.10	3.50	3.09	2.80	2.59	2.44	2.34	2.28	2.25	2.24	2.24	2.24
168.0	8.75	5.90	4.49	3.66	3.12	2.75	2.49	2.29	2.15	2.06	1.99	1.95	1.94	1.94	1.94
174.0	7.87	5.30	4.03	3.28	2.80	2.46	2.22	2.04	1.91	1.81	1.75	1.71	1.69	1.69	1.69
180.0	7.11	4.78	3.63	2.96	2.51	2.21	1.98	1.82	1.70	1.61	1.55	1.51	1.48	1.47	1.47
186.0	6.44	4.33	3.29	2.67	2.27	1.99	1.79	1.64	1.52	1.44	1.38	1.33	1.31	1.29	1.29
192.0	5.85	3.93	2.98	2.42	2.05	1.80	1.61	1.47	1.37	1.29	1.23	1.19	1.16	1.14	1.14

NOTE:

- MULLION CHART APPLIES TO 1/2" X 5 3/16" LVL MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
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1/2" 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 AWNING WINDOW (WZ3) (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

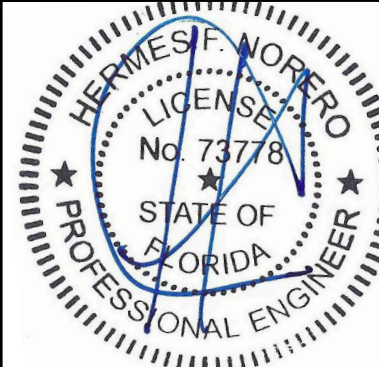
PH: (954)399-8478
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WEB: www.buildingdrops.com



REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10/17
MULL TABLES UPDATE	HR	11/30
ZERO, 1/2", 1", 2" MULL UPDATE	HR	4/12
ADDED 3/16" MULL & DP CHARTS	LL	7/31

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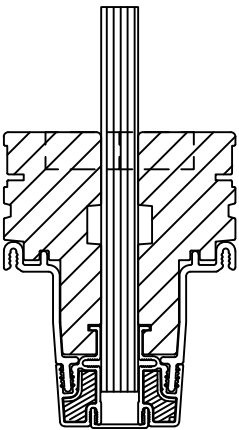


HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

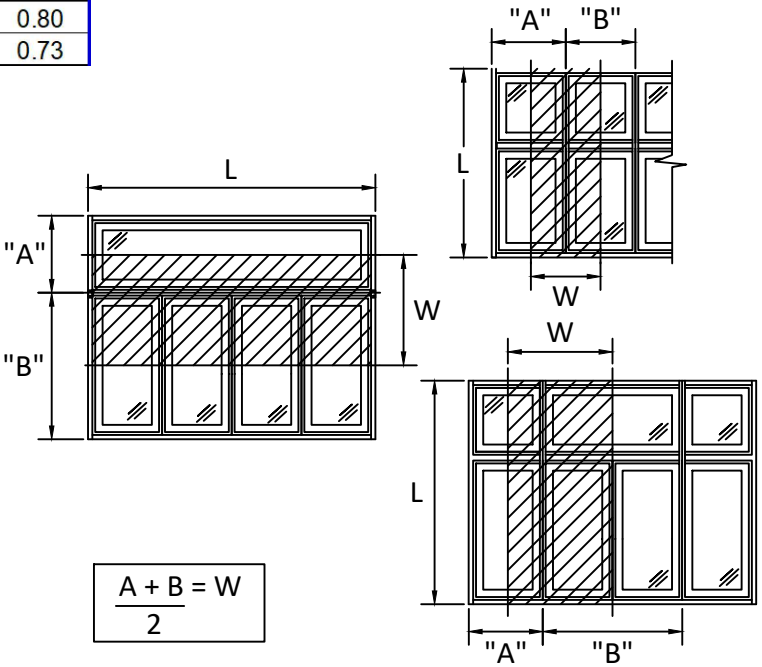
FL #:	FL24227
DATE:	10.08.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD200
SHEET:	15

s:\projects\andersen windows\lbc-19-0548-2 - fbc submittal - e-series mullion revisions\dwgs\l74227-2 & 3\awd200 - flb554-impact-clad vent awning window.dwg 8/14/2019 6:37 PM

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	65.00	65.00	65.00	65.00	65.00	65.00	58.50	52.00	46.80	42.55	39.00	36.00	33.43	31.20	29.25
30.0	65.00	65.00	65.00	65.00	62.40	53.49	46.80	41.60	37.44	34.04	31.20	28.80	26.74	24.96	23.40
36.0	65.00	65.00	65.00	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	65.00	65.00	65.00	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	65.00	65.00	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	65.00	65.00	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	65.00	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	65.00	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	65.00	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	65.00	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	65.00	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	56.50	37.67	28.25	22.60	18.83	16.14	14.13	12.56	11.30	10.27	9.42	8.69	8.07	7.53	7.06
96.0	46.56	31.04	23.28	18.62	15.52	13.30	11.64	10.35	9.31	8.46	7.76	7.16	6.65	6.21	5.82
102.0	38.81	25.88	19.41	15.53	12.94	11.09	9.70	8.63	7.76	7.06	6.47	5.97	5.54	5.18	4.85
108.0	32.70	21.80	16.35	13.08	10.90	9.34	8.17	7.27	6.54	5.94	5.45	5.03	4.67	4.36	4.09
114.0	27.80	18.53	13.90	11.12	9.27	7.94	6.95	6.18	5.56	5.05	4.63	4.28	3.97	3.71	3.48
120.0	23.84	15.89	11.92	9.53	7.95	6.81	5.96	5.30	4.77	4.33	3.97	3.67	3.41	3.18	2.98
126.0	20.59	13.73	10.30	8.24	6.86	5.88	5.15	4.58	4.12	3.74	3.43	3.17	2.94	2.75	2.57
132.0	17.91	11.94	8.95	7.16	5.97	5.12	4.48	3.98	3.58	3.26	2.98	2.76	2.56	2.39	2.24
138.0	15.67	10.45	7.84	6.27	5.22	4.48	3.92	3.48	3.13	2.85	2.61	2.41	2.24	2.09	1.96
144.0	13.79	9.20	6.90	5.52	4.60	3.94	3.45	3.07	2.76	2.51	2.30	2.12	1.97	1.84	1.72
150.0	12.20	8.14	6.10	4.88	4.07	3.49	3.05	2.71	2.44	2.22	2.03	1.88	1.74	1.63	1.53
156.0	10.85	7.23	5.42	4.34	3.62	3.10	2.71	2.41	2.17	1.97	1.81	1.67	1.55	1.45	1.36
162.0	9.69	6.46	4.84	3.88	3.23	2.77	2.42	2.15	1.94	1.76	1.61	1.49	1.38	1.29	1.21
168.0	8.69	5.79	4.34	3.47	2.90	2.48	2.17	1.93	1.74	1.58	1.45	1.34	1.24	1.16	1.09
174.0	7.82	5.21	3.91	3.13	2.61	2.23	1.95	1.74	1.56	1.42	1.30	1.20	1.12	1.04	0.98
180.0	7.06	4.71	3.53	2.83	2.35	2.02	1.77	1.57	1.41	1.28	1.18	1.09	1.01	0.94	0.88
186.0	6.40	4.27	3.20	2.56	2.13	1.83	1.60	1.42	1.28	1.16	1.07	0.98	0.91	0.85	0.80
192.0	5.82	3.88	2.91	2.33	1.94	1.66	1.45	1.29	1.16	1.06	0.97	0.90	0.83	0.78	0.73



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 E-SERIES WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL APPROVAL.
 - 5) MULLION CHART APPLIES TO THE 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

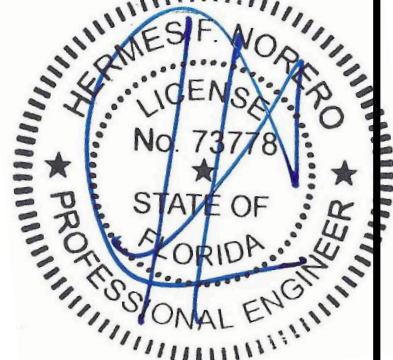
TITLE: E-SERIES AWNING WINDOW (WZ3) (IMPACT)
1/2" X 5-3/16" MULLION LOADS TABLE
TWO WAY

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



REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10/17
MULL TABLES UPDATE	HR	11/30
ZERO, 1/2", 1", 2" MULL UPDATE	HR	4/12
ADDED 3/16" MULL & DP CHARTS	LL	7/31

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

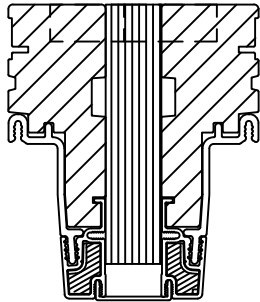
FL #: FL24227
DATE: 10.08.17
DWG. BY: RV CHK. BY: HFN
SCALE: NTS
DWG. #: AWD200
SHEET: 16 OF 28

s:\projects\andersen windows\lbc-19-0548-2 - fbc submittal - e-series mullion revisions\dwgs\l74227-2 & 3\awd200 - flb554-impact-clad vent awning window.dwg
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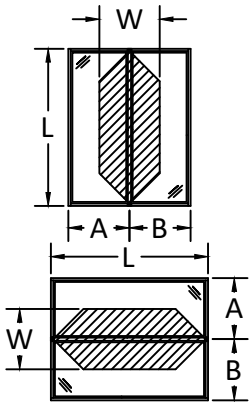
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
3/4" X 3-1/2" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
30.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
36.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
42.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
48.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
54.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
60.0	65.00	65.00	64.53	60.93	60.93	60.93	60.93	60.93	60.93	60.93	60.93	60.93	60.93	60.93	60.93
66.0	65.00	62.08	50.92	46.34	45.78	45.78	45.78	45.78	45.78	45.78	45.78	45.78	45.78	45.78	45.78
72.0	65.00	51.27	41.37	36.70	35.26	35.26	35.26	35.26	35.26	35.26	35.26	35.26	35.26	35.26	35.26
78.0	57.64	40.35	32.45	28.54	26.88	26.67	26.67	26.67	26.67	26.67	26.67	26.67	26.67	26.67	26.67
84.0	45.90	31.92	25.41	22.02	20.35	19.83	19.83	19.83	19.83	19.83	19.83	19.83	19.83	19.83	19.83
90.0	37.16	25.70	20.30	17.39	15.83	15.14	15.04	15.04	15.04	15.04	15.04	15.04	15.04	15.04	15.04
96.0	30.51	21.01	16.48	14.00	12.59	11.86	11.62	11.62	11.62	11.62	11.62	11.62	11.62	11.62	11.62
102.0	25.36	17.40	13.58	11.45	10.19	9.49	9.17	9.12	9.12	9.12	9.12	9.12	9.12	9.12	9.12
108.0	21.31	14.58	11.33	9.49	8.39	7.73	7.37	7.26	7.26	7.26	7.26	7.26	7.26	7.26	7.26
114.0	18.08	12.34	9.55	7.96	6.99	6.39	6.03	5.87	5.84	5.84	5.84	5.84	5.84	5.84	5.84
120.0	15.47	10.53	8.13	6.75	5.89	5.35	5.01	4.82	4.76	4.76	4.76	4.76	4.76	4.76	4.76
126.0	13.34	9.07	6.98	5.78	5.02	4.53	4.21	4.02	3.93	3.92	3.92	3.92	3.92	3.92	3.92
132.0	11.59	7.86	6.04	4.98	4.31	3.87	3.58	3.39	3.29	3.25	3.25	3.25	3.25	3.25	3.25
138.0	10.13	6.86	5.26	4.33	3.73	3.34	3.07	2.89	2.78	2.73	2.72	2.72	2.72	2.72	2.72
144.0	8.91	6.03	4.61	3.79	3.26	2.90	2.65	2.49	2.38	2.32	2.30	2.30	2.30	2.30	2.30
150.0	7.87	5.32	4.07	3.33	2.86	2.54	2.31	2.16	2.05	1.99	1.95	1.95	1.95	1.95	1.95
156.0	6.99	4.72	3.60	2.95	2.52	2.23	2.03	1.88	1.78	1.72	1.68	1.67	1.67	1.67	1.67
162.0	6.24	4.21	3.21	2.62	2.24	1.98	1.79	1.66	1.56	1.50	1.46	1.44	1.43	1.43	1.43
168.0	5.59	3.77	2.87	2.34	2.00	1.76	1.59	1.47	1.38	1.31	1.27	1.25	1.24	1.24	1.24
174.0	5.03	3.39	2.58	2.10	1.79	1.57	1.42	1.30	1.22	1.16	1.12	1.09	1.08	1.08	1.08
180.0	4.54	3.06	2.32	1.89	1.61	1.41	1.27	1.16	1.09	1.03	0.99	0.96	0.95	0.94	0.94
186.0	4.11	2.77	2.10	1.71	1.45	1.27	1.14	1.04	0.97	0.92	0.88	0.85	0.84	0.83	0.82
192.0	3.74	2.51	1.91	1.55	1.31	1.15	1.03	0.94	0.87	0.82	0.79	0.76	0.74	0.73	0.73

NOTE:

- MULLION CHART APPLIES TO 3/4" 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 E-SERIES WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL APPROVAL.
- MULLION CHART APPLIES TO THE 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.



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 AWNING WINDOW
(WZ3) (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
6TH FBC CODE CHANGE	RV	10/17
MULL TABLES UPDATE	HR	11/30
ZERO, 1/2", 1", 2" MULL UPDATE	HR	4/12
ADDED 3/16" MULL & DP CHARTS	LL	7/31

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.



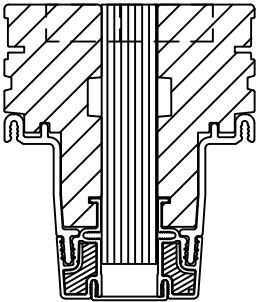
HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL24227
DATE:	10.08.17
DWG. BY:	CHK. BY:
RV	HFN
SCALE:	NTS
DWG. #:	AWD200
SHEET:	

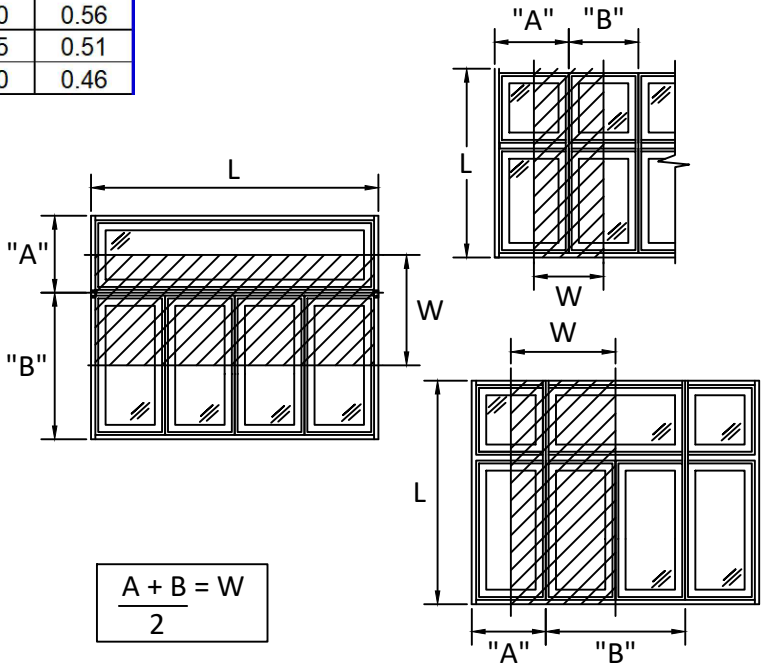
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MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
3/4" X 3-1/2" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	65.00	65.00	65.00	65.00	65.00	65.00	58.50	52.00	46.80	42.55	39.00	36.00	33.43	31.20	29.25
30.0	65.00	65.00	65.00	65.00	62.40	53.49	46.80	41.60	37.44	34.04	31.20	28.80	26.74	24.96	23.40
36.0	65.00	65.00	65.00	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	65.00	65.00	65.00	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	65.00	65.00	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	65.00	65.00	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	65.00	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	65.00	55.94	41.96	33.57	27.97	23.98	20.98	18.65	16.78	15.26	13.99	12.91	11.99	11.19	10.49
72.0	65.00	47.01	35.26	28.20	23.50	20.15	17.63	15.67	14.10	12.82	11.75	10.85	10.07	9.40	8.81
78.0	55.47	36.98	27.73	22.19	18.49	15.85	13.87	12.33	11.09	10.08	9.24	8.53	7.92	7.40	6.93
84.0	44.41	29.61	22.20	17.76	14.80	12.69	11.10	9.87	8.88	8.07	7.40	6.83	6.34	5.92	5.55
90.0	36.11	24.07	18.05	14.44	12.04	10.32	9.03	8.02	7.22	6.56	6.02	5.55	5.16	4.81	4.51
96.0	29.75	19.83	14.88	11.90	9.92	8.50	7.44	6.61	5.95	5.41	4.96	4.58	4.25	3.97	3.72
102.0	24.80	16.54	12.40	9.92	8.27	7.09	6.20	5.51	4.96	4.51	4.13	3.82	3.54	3.31	3.10
108.0	20.89	13.93	10.45	8.36	6.96	5.97	5.22	4.64	4.18	3.80	3.48	3.21	2.98	2.79	2.61
114.0	17.77	11.84	8.88	7.11	5.92	5.08	4.44	3.95	3.55	3.23	2.96	2.73	2.54	2.37	2.22
120.0	15.23	10.15	7.62	6.09	5.08	4.35	3.81	3.38	3.05	2.77	2.54	2.34	2.18	2.03	1.90
126.0	13.16	8.77	6.58	5.26	4.39	3.76	3.29	2.92	2.63	2.39	2.19	2.02	1.88	1.75	1.64
132.0	11.44	7.63	5.72	4.58	3.81	3.27	2.86	2.54	2.29	2.08	1.91	1.76	1.63	1.53	1.43
138.0	10.02	6.68	5.01	4.01	3.34	2.86	2.50	2.23	2.00	1.82	1.67	1.54	1.43	1.34	1.25
144.0	8.82	5.88	4.41	3.53	2.94	2.52	2.20	1.96	1.76	1.60	1.47	1.36	1.26	1.18	1.10
150.0	7.80	5.20	3.90	3.12	2.60	2.23	1.95	1.73	1.56	1.42	1.30	1.20	1.11	1.04	0.97
156.0	6.93	4.62	3.47	2.77	2.31	1.98	1.73	1.54	1.39	1.26	1.16	1.07	0.99	0.92	0.87
162.0	6.19	4.13	3.10	2.48	2.06	1.77	1.55	1.38	1.24	1.13	1.03	0.95	0.88	0.83	0.77
168.0	5.55	3.70	2.78	2.22	1.85	1.59	1.39	1.23	1.11	1.01	0.93	0.85	0.79	0.74	0.69
174.0	5.00	3.33	2.50	2.00	1.67	1.43	1.25	1.11	1.00	0.91	0.83	0.77	0.71	0.67	0.62
180.0	4.51	3.01	2.26	1.81	1.50	1.29	1.13	1.00	0.90	0.82	0.75	0.69	0.64	0.60	0.56
186.0	4.09	2.73	2.05	1.64	1.36	1.17	1.02	0.91	0.82	0.74	0.68	0.63	0.58	0.55	0.51
192.0	3.72	2.48	1.86	1.49	1.24	1.06	0.93	0.83	0.74	0.68	0.62	0.57	0.53	0.50	0.46



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 E-SERIES WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL APPROVAL.
 - 5) MULLION CHART APPLIES TO THE 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

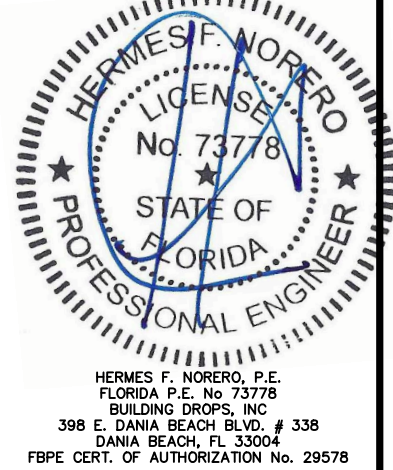
TITLE:
E-SERIES AWNING WINDOW
(WZ3) (IMPACT)
3/4" X 3-1/2" MULLION LOADS TABLE
TWO WAY

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



REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10/17
MULL TABLES UPDATE	HR	11/30
ZERO, 1/2", 1", 2" MULL UPDATE	HR	4/12
ADDED 3/16" MULL & DP CHARTS	LL	7/31

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.

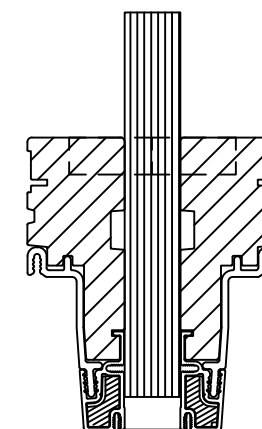


FL #:	FL24227
DATE:	10.08.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD200
SHEET:	18

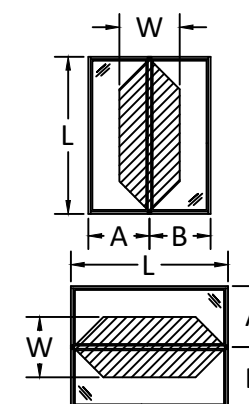
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
3/4" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
30.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
36.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
42.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
48.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
54.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
60.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
66.0	65.00	65.00	65.00	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	65.00	65.00	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	65.00	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	65.00	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	65.00	52.00	42.39	36.32	33.06	31.62	31.42	31.42	31.42	31.42	31.42	31.42	31.42	31.42	31.42
96.0	63.71	43.88	34.43	29.23	26.29	24.77	24.27	24.27	24.27	24.27	24.27	24.27	24.27	24.27	24.27
102.0	52.96	36.34	28.36	23.91	21.29	19.81	19.14	19.04	19.04	19.04	19.04	19.04	19.04	19.04	19.04
108.0	44.50	30.44	23.66	19.82	17.51	16.13	15.40	15.15	15.15	15.15	15.15	15.15	15.15	15.15	15.15
114.0	37.75	25.76	19.95	16.63	14.60	13.34	12.60	12.26	12.21	12.21	12.21	12.21	12.21	12.21	12.21
120.0	32.31	22.00	16.98	14.10	12.31	11.17	10.46	10.07	9.94	9.94	9.94	9.94	9.94	9.94	9.94
126.0	27.87	18.94	14.58	12.06	10.48	9.45	8.79	8.40	8.21	8.18	8.18	8.18	8.18	8.18	8.18
132.0	24.20	16.42	12.61	10.41	9.01	8.08	7.47	7.08	6.87	6.79	6.79	6.79	6.79	6.79	6.79
138.0	21.16	14.33	10.99	9.04	7.80	6.97	6.41	6.04	5.81	5.70	5.68	5.68	5.68	5.68	5.68
144.0	18.60	12.58	9.63	7.91	6.80	6.05	5.54	5.19	4.97	4.84	4.79	4.79	4.79	4.79	4.79
150.0	16.44	11.11	8.49	6.96	5.97	5.30	4.83	4.50	4.28	4.15	4.08	4.07	4.07	4.07	4.07
156.0	14.60	9.86	7.52	6.15	5.27	4.66	4.24	3.93	3.72	3.59	3.51	3.48	3.48	3.48	3.48
162.0	13.03	8.79	6.70	5.47	4.67	4.13	3.74	3.46	3.26	3.13	3.04	3.00	2.99	2.99	2.99
168.0	11.68	7.87	5.99	4.89	4.17	3.67	3.32	3.06	2.87	2.74	2.66	2.61	2.59	2.59	2.59
174.0	10.50	7.07	5.38	4.38	3.73	3.28	2.96	2.72	2.55	2.42	2.34	2.28	2.25	2.25	2.25
180.0	9.48	6.38	4.85	3.95	3.35	2.94	2.65	2.43	2.27	2.15	2.07	2.01	1.98	1.96	1.96
186.0	8.59	5.78	4.39	3.57	3.03	2.65	2.38	2.18	2.03	1.92	1.84	1.78	1.74	1.73	1.72
192.0	7.81	5.25	3.98	3.23	2.74	2.40	2.15	1.97	1.83	1.72	1.64	1.59	1.55	1.53	1.52

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 E-SERIES WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL APPROVAL.
- 5) MULLION CHART APPLIES TO THE 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 5 3/16"
LVL MULL PROFILE



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



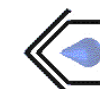
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES AWNING WINDOW
(WZ3) (IMPACT)

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

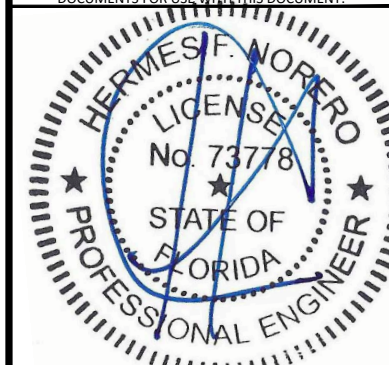
PREPARED BY:

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
6TH FBC CODE CHANGE	RV	10/17/16
MULL TABLES UPDATE	HR	11/30/16
ZERO, 1/2", 1", 2" MULL UPDATE	HR	4/12/17
ADDED 3/16" MULL & DP CHARTS	LL	7/31/17

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

#:
FL24227

DATE: 10.08.17

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

DWG. #: AWD200

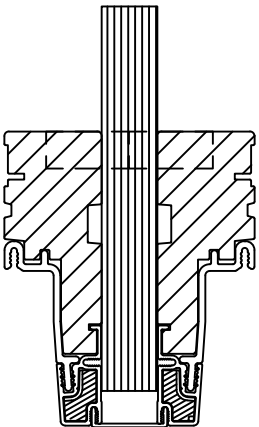
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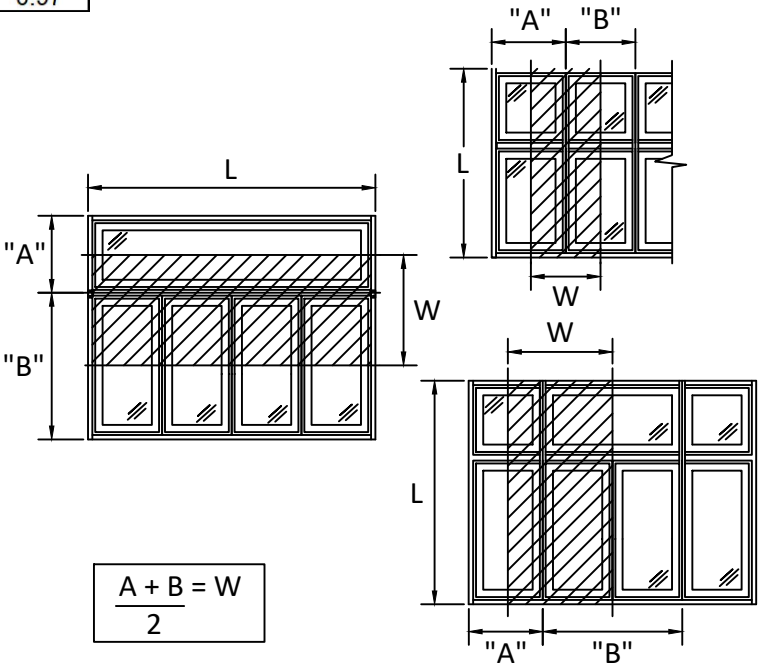
OF 28

s:\projects\andersen windows\lbc-19-0548-2 - fbc submittal - e-series mullion revisions\dwgs\l74227-2 & 3\awd200 - flb554-impact-cad vent awning window.dwg 8/14/2019 6:37 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	65.00	65.00	65.00	65.00	65.00	65.00	58.50	52.00	46.80	42.55	39.00	36.00	33.43	31.20	29.25
30.0	65.00	65.00	65.00	65.00	62.40	53.49	46.80	41.60	37.44	34.04	31.20	28.80	26.74	24.96	23.40
36.0	65.00	65.00	65.00	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	65.00	65.00	65.00	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	65.00	65.00	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	65.00	65.00	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	65.00	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	65.00	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	65.00	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	65.00	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	65.00	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	51.80	34.53	25.90	20.72	17.27	14.80	12.95	11.51	10.36	9.42	8.63	7.97	7.40	6.91	6.48
108.0	43.64	29.09	21.82	17.46	14.55	12.47	10.91	9.70	8.73	7.93	7.27	6.71	6.23	5.82	5.45
114.0	37.11	24.74	18.55	14.84	12.37	10.60	9.28	8.25	7.42	6.75	6.18	5.71	5.30	4.95	4.64
120.0	31.81	21.21	15.91	12.73	10.60	9.09	7.95	7.07	6.36	5.78	5.30	4.89	4.54	4.24	3.98
126.0	27.48	18.32	13.74	10.99	9.16	7.85	6.87	6.11	5.50	5.00	4.58	4.23	3.93	3.66	3.44
132.0	23.90	15.93	11.95	9.56	7.97	6.83	5.98	5.31	4.78	4.35	3.98	3.68	3.41	3.19	2.99
138.0	20.92	13.95	10.46	8.37	6.97	5.98	5.23	4.65	4.18	3.80	3.49	3.22	2.99	2.79	2.61
144.0	18.41	12.27	9.21	7.36	6.14	5.26	4.60	4.09	3.68	3.35	3.07	2.83	2.63	2.45	2.30
150.0	16.29	10.86	8.14	6.52	5.43	4.65	4.07	3.62	3.26	2.96	2.71	2.51	2.33	2.17	2.04
156.0	14.48	9.65	7.24	5.79	4.83	4.14	3.62	3.22	2.90	2.63	2.41	2.23	2.07	1.93	1.81
162.0	12.93	8.62	6.47	5.17	4.31	3.69	3.23	2.87	2.59	2.35	2.16	1.99	1.85	1.72	1.62
168.0	11.59	7.73	5.80	4.64	3.86	3.31	2.90	2.58	2.32	2.11	1.93	1.78	1.66	1.55	1.45
174.0	10.44	6.96	5.22	4.17	3.48	2.98	2.61	2.32	2.09	1.90	1.74	1.61	1.49	1.39	1.30
180.0	9.43	6.28	4.71	3.77	3.14	2.69	2.36	2.09	1.89	1.71	1.57	1.45	1.35	1.26	1.18
186.0	8.54	5.70	4.27	3.42	2.85	2.44	2.14	1.90	1.71	1.55	1.42	1.31	1.22	1.14	1.07
192.0	7.77	5.18	3.88	3.11	2.59	2.22	1.94	1.73	1.55	1.41	1.29	1.19	1.11	1.04	0.97



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 E-SERIES WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL APPROVAL.
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 - 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 AWNING WINDOW (WZ3) (IMPACT)

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

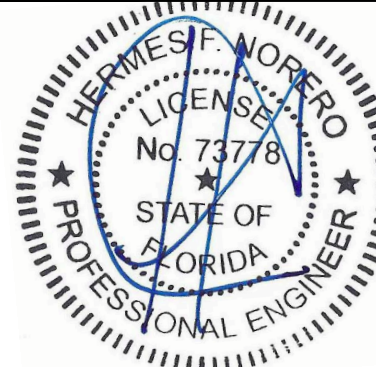
PREPARED BY: BUILDING DROPS, INC.

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



REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10/17
MULL TABLES UPDATE	HR	11/30
ZERO, 1/2", 1", 2" MULL UPDATE	HR	4/12
ADDED 3/16" MULL & DP CHARTS	LL	7/31

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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

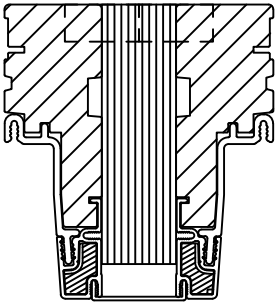
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DATE:	10.08.17
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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD200

SHEET:	20
	OF 28

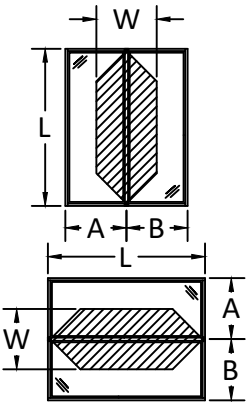
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MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)																
1" X 3-1/2" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION																
L - Mull Length (in)	W - Tributary Width (in)															
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0	
24.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
30.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
36.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
42.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
48.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
54.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
60.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
66.0	65.00	65.00	59.11	53.79	53.14	53.14	53.14	53.14	53.14	53.14	53.14	53.14	53.14	53.14	53.14	53.14
72.0	65.00	59.51	48.02	42.60	40.93	40.93	40.93	40.93	40.93	40.93	40.93	40.93	40.93	40.93	40.93	40.93
78.0	65.00	46.84	37.67	33.13	31.21	30.96	30.96	30.96	30.96	30.96	30.96	30.96	30.96	30.96	30.96	30.96
84.0	53.29	37.05	29.50	25.56	23.62	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01	23.01
90.0	43.13	29.83	23.56	20.18	18.37	17.57	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46	17.46
96.0	35.41	24.39	19.14	16.25	14.61	13.77	13.49	13.49	13.49	13.49	13.49	13.49	13.49	13.49	13.49	13.49
102.0	29.43	20.20	15.77	13.29	11.83	11.01	10.64	10.59	10.59	10.59	10.59	10.59	10.59	10.59	10.59	10.59
108.0	24.73	16.92	13.15	11.02	9.73	8.97	8.56	8.42	8.42	8.42	8.42	8.42	8.42	8.42	8.42	8.42
114.0	20.98	14.32	11.09	9.25	8.11	7.41	7.00	6.81	6.78	6.78	6.78	6.78	6.78	6.78	6.78	6.78
120.0	17.96	12.23	9.44	7.84	6.84	6.21	5.81	5.60	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53
126.0	15.49	10.53	8.10	6.71	5.83	5.25	4.89	4.67	4.56	4.55	4.55	4.55	4.55	4.55	4.55	4.55
132.0	13.45	9.13	7.01	5.78	5.01	4.49	4.15	3.94	3.82	3.77	3.77	3.77	3.77	3.77	3.77	3.77
138.0	11.76	7.97	6.11	5.03	4.33	3.87	3.56	3.35	3.23	3.17	3.16	3.16	3.16	3.16	3.16	3.16
144.0	10.34	6.99	5.35	4.39	3.78	3.37	3.08	2.89	2.76	2.69	2.66	2.66	2.66	2.66	2.66	2.66
150.0	9.14	6.18	4.72	3.87	3.32	2.94	2.68	2.50	2.38	2.31	2.27	2.26	2.26	2.26	2.26	2.26
156.0	8.12	5.48	4.18	3.42	2.93	2.59	2.35	2.19	2.07	1.99	1.95	1.93	1.93	1.93	1.93	1.93
162.0	7.24	4.89	3.72	3.04	2.60	2.29	2.08	1.92	1.81	1.74	1.69	1.67	1.66	1.66	1.66	1.66
168.0	6.49	4.37	3.33	2.72	2.32	2.04	1.84	1.70	1.60	1.52	1.48	1.45	1.44	1.44	1.44	1.44
174.0	5.84	3.93	2.99	2.44	2.07	1.82	1.64	1.51	1.42	1.35	1.30	1.27	1.25	1.25	1.25	1.25
180.0	5.27	3.55	2.70	2.19	1.86	1.64	1.47	1.35	1.26	1.20	1.15	1.12	1.10	1.09	1.09	1.09
186.0	4.77	3.21	2.44	1.98	1.68	1.48	1.32	1.21	1.13	1.07	1.02	0.99	0.97	0.96	0.96	0.96
192.0	4.34	2.92	2.21	1.80	1.52	1.33	1.20	1.09	1.02	0.96	0.91	0.88	0.86	0.85	0.84	0.84



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 E-SERIES WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL APPROVAL.
 - 5) MULLION CHART APPLIES TO THE 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

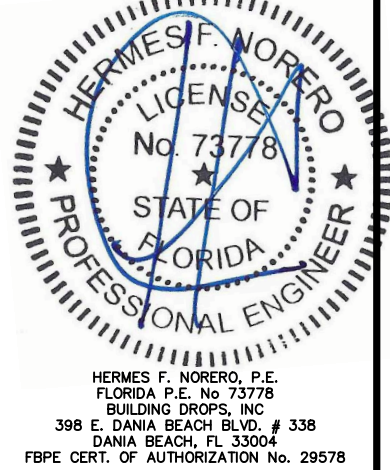
TITLE: E-SERIES AWNING WINDOW (WZ3) (IMPACT)
1" X 3-1/2" MULLION LOADS TABLE ONE WAY

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
6TH FBC CODE CHANGE	RV	10/17
MULL TABLES UPDATE	HR	11/30
ZERO, 1/2", 1", 2" MULL UPDATE	HR	4/12
ADDED 3/16" MULL & DP CHARTS	LL	7/31

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 #: FL24227

DATE: 10.08.17

DWG. BY: RV
CHK. BY: HFN

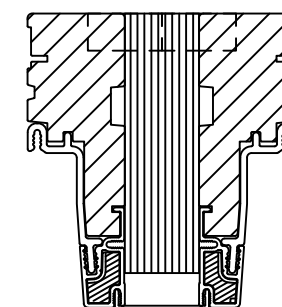
SCALE: NTS

DWG. #: AWD200

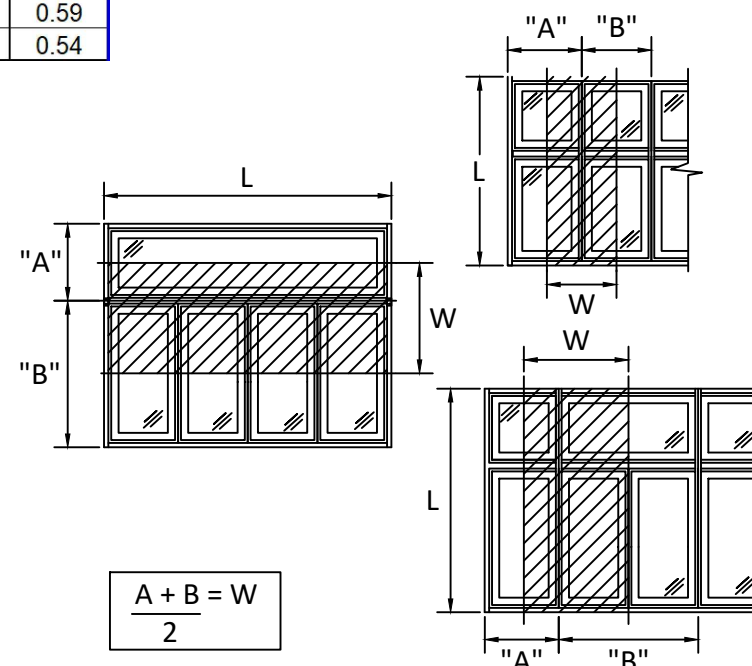
SHEET:

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	65.00	65.00	65.00	65.00	65.00	65.00	58.50	52.00	46.80	42.55	39.00	36.00	33.43	31.20	29.25
30.0	65.00	65.00	65.00	65.00	62.40	53.49	46.80	41.60	37.44	34.04	31.20	28.80	26.74	24.96	23.40
36.0	65.00	65.00	65.00	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	65.00	65.00	65.00	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	65.00	65.00	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	65.00	65.00	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	65.00	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	65.00	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	65.00	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	64.39	42.93	32.19	25.76	21.46	18.40	16.10	14.31	12.88	11.71	10.73	9.91	9.20	8.59	8.05
84.0	51.55	34.37	25.78	20.62	17.18	14.73	12.89	11.46	10.31	9.37	8.59	7.93	7.36	6.87	6.44
90.0	41.91	27.94	20.96	16.77	13.97	11.98	10.48	9.31	8.38	7.62	6.99	6.45	5.99	5.59	5.24
96.0	34.54	23.02	17.27	13.81	11.51	9.87	8.63	7.67	6.91	6.28	5.76	5.31	4.93	4.60	4.32
102.0	28.79	19.20	14.40	11.52	9.60	8.23	7.20	6.40	5.76	5.24	4.80	4.43	4.11	3.84	3.60
108.0	24.26	16.17	12.13	9.70	8.09	6.93	6.06	5.39	4.85	4.41	4.04	3.73	3.47	3.23	3.03
114.0	20.62	13.75	10.31	8.25	6.87	5.89	5.16	4.58	4.12	3.75	3.44	3.17	2.95	2.75	2.58
120.0	17.68	11.79	8.84	7.07	5.89	5.05	4.42	3.93	3.54	3.21	2.95	2.72	2.53	2.36	2.21
126.0	15.27	10.18	7.64	6.11	5.09	4.36	3.82	3.39	3.05	2.78	2.55	2.35	2.18	2.04	1.91
132.0	13.29	8.86	6.64	5.31	4.43	3.80	3.32	2.95	2.66	2.42	2.21	2.04	1.90	1.77	1.66
138.0	11.63	7.75	5.81	4.65	3.88	3.32	2.91	2.58	2.33	2.11	1.94	1.79	1.66	1.55	1.45
144.0	10.23	6.82	5.12	4.09	3.41	2.92	2.56	2.27	2.05	1.86	1.71	1.57	1.46	1.36	1.28
150.0	9.05	6.04	4.53	3.62	3.02	2.59	2.26	2.01	1.81	1.65	1.51	1.39	1.29	1.21	1.13
156.0	8.05	5.37	4.02	3.22	2.68	2.30	2.01	1.79	1.61	1.46	1.34	1.24	1.15	1.07	1.01
162.0	7.19	4.79	3.59	2.87	2.40	2.05	1.80	1.60	1.44	1.31	1.20	1.11	1.03	0.96	0.90
168.0	6.44	4.30	3.22	2.58	2.15	1.84	1.61	1.43	1.29	1.17	1.07	0.99	0.92	0.86	0.81
174.0	5.80	3.87	2.90	2.32	1.93	1.66	1.45	1.29	1.16	1.05	0.97	0.89	0.83	0.77	0.73
180.0	5.24	3.49	2.62	2.10	1.75	1.50	1.31	1.16	1.05	0.95	0.87	0.81	0.75	0.70	0.65
186.0	4.75	3.17	2.37	1.90	1.58	1.36	1.19	1.06	0.95	0.86	0.79	0.73	0.68	0.63	0.59
192.0	4.32	2.88	2.16	1.73	1.44	1.23	1.08	0.96	0.86	0.78	0.72	0.66	0.62	0.58	0.54



1" X 3 1/2"
LVL MULL PROFILE



NOTE:

- 1) MULLION CHART APPLIES TO 1" X 3 1/2" LVL MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT E-SERIES WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL APPROVAL.
- 5) MULLION CHART APPLIES TO THE 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.



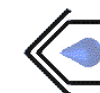
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES AWNING WINDOW
(WZ3) (IMPACT)

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

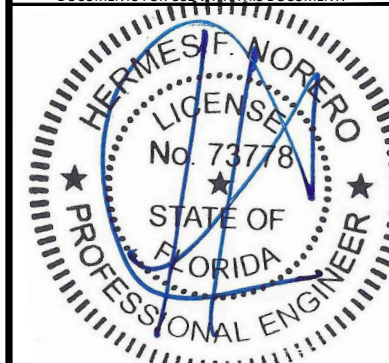
OPERATIONS DIV.

BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10/17/18
MULL TABLES UPDATE	HR	11/30/18
ZERO, 1/2", 1", 2" MULL UPDATE	HR	4/12/19
ADDED 3/16" MULL & DP CHARTS	LL	7/31/19

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 #:

FL24227

DATE: 10.08.17

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

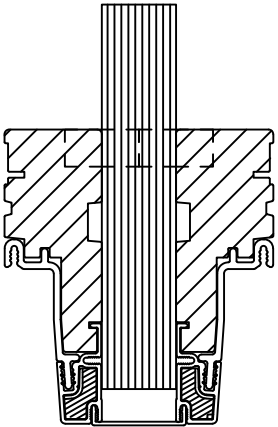
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SHEET:

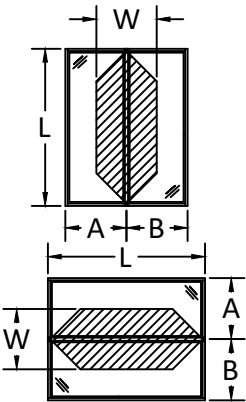
22

OF 28

- 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 E-SERIES WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL APPROVAL.
- 5) MULLION CHART APPLIES TO THE 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.



1" 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 AWNING WINDOW
(WZ3) (IMPACT)*

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

PREPARED BY: BUILDING DROPS INC

38 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004

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



REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10/17
MULL TABLES UPDATE	HR	11/30
ZERO, 1/2", 1", 2" MULL UPDATE	HR	4/12
ADDED 3/16" MULL & DP CHARTS	LL	7/31

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
BPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL24227

DATE: 10.08.17

DWG. BY:
RV

CHK. BY:
HFN

SCALE: NTS

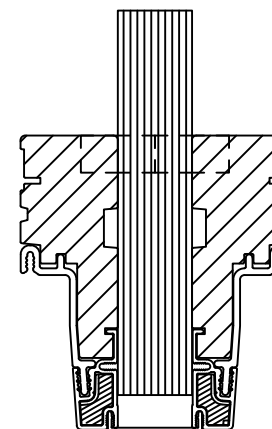
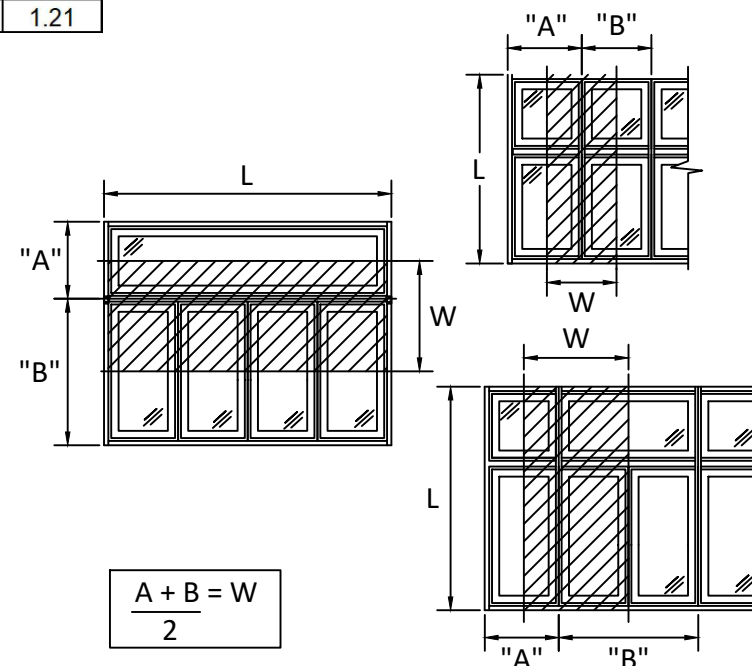
DWG. #: **AWD200**

SHEET:

23

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	65.00	65.00	65.00	65.00	65.00	65.00	58.50	52.00	46.80	42.55	39.00	36.00	33.43	31.20	29.25
30.0	65.00	65.00	65.00	65.00	62.40	53.49	46.80	41.60	37.44	34.04	31.20	28.80	26.74	24.96	23.40
36.0	65.00	65.00	65.00	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	65.00	65.00	65.00	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	65.00	65.00	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	65.00	65.00	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	65.00	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	65.00	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	65.00	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	65.00	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	65.00	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	46.41	30.94	23.20	18.56	15.47	13.26	11.60	10.31	9.28	8.44	7.73	7.14	6.63	6.19	5.80
120.0	39.79	26.53	19.90	15.92	13.26	11.37	9.95	8.84	7.96	7.23	6.63	6.12	5.68	5.31	4.97
126.0	34.37	22.91	17.19	13.75	11.46	9.82	8.59	7.64	6.87	6.25	5.73	5.29	4.91	4.58	4.30
132.0	29.89	19.93	14.95	11.96	9.96	8.54	7.47	6.64	5.98	5.44	4.98	4.60	4.27	3.99	3.74
138.0	26.16	17.44	13.08	10.47	8.72	7.48	6.54	5.81	5.23	4.76	4.36	4.03	3.74	3.49	3.27
144.0	23.03	15.35	11.51	9.21	7.68	6.58	5.76	5.12	4.61	4.19	3.84	3.54	3.29	3.07	2.88
150.0	20.37	13.58	10.19	8.15	6.79	5.82	5.09	4.53	4.07	3.70	3.40	3.13	2.91	2.72	2.55
156.0	18.11	12.07	9.06	7.24	6.04	5.17	4.53	4.02	3.62	3.29	3.02	2.79	2.59	2.41	2.26
162.0	16.17	10.78	8.09	6.47	5.39	4.62	4.04	3.59	3.23	2.94	2.70	2.49	2.31	2.16	2.02
168.0	14.50	9.67	7.25	5.80											

- 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 E-SERIES WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL APPROVAL.
- 5) MULLION CHART APPLIES TO THE 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.



1" X 5 3/16"
LVL MULL PROFILE



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

TITLE: E-SERIES AWNING WINDOW
(WZ3) (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
6TH FBC CODE CHANGE	RV	10/17/11
MULL TABLES UPDATE	HR	11/30/11
ZERO, 1/2", 1", 2" MULL UPDATE	HR	4/12/12
ADDED 3/16" MULL & DP CHARTS	LL	7/31/12

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERAL IN NATURE AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC PROJECT OR 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 #:

FL24227

DATE: 10.08.17

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

DWG. #: AWD200

SHEET:

24

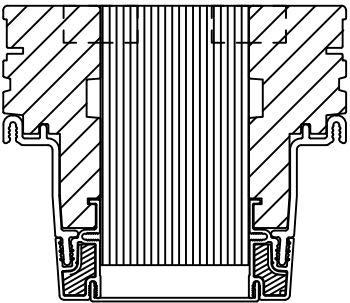
OF 28

s:\projects\andersen windows\lbc-19-0548-2 - fbc submittal - e-series mullion revisions\dwgs\l74227-2 & 3\awd200 - flb554-impact-clad vent awning window.dwg 8/14/2019 6:37 PM

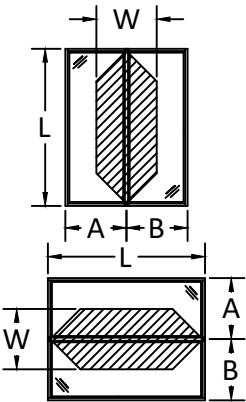
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF) 2" X 3-1/2" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
30.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
36.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
42.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
48.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
54.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
60.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00
66.0	65.00	65.00	65.00	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	65.00	65.00	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	65.00	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	65.00	56.73	45.84	39.73	36.72	35.77	35.77	35.77	35.77	35.77	35.77	35.77	35.77	35.77	35.77
90.0	65.00	46.37	36.62	31.37	28.56	27.31	27.14	27.14	27.14	27.14	27.14	27.14	27.14	27.14	27.14
96.0	55.04	37.90	29.74	25.25	22.71	21.40	20.97	20.97	20.97	20.97	20.97	20.97	20.97	20.97	20.97
102.0	45.75	31.39	24.50	20.65	18.39	17.12	16.54	16.45	16.45	16.45	16.45	16.45	16.45	16.45	16.45
108.0	38.44	26.30	20.44	17.13	15.13	13.94	13.30	13.09	13.09	13.09	13.09	13.09	13.09	13.09	13.09
114.0	32.61	22.26	17.23	14.37	12.61	11.52	10.88	10.59	10.54	10.54	10.54	10.54	10.54	10.54	10.54
120.0	27.91	19.00	14.67	12.18	10.63	9.65	9.04	8.70	8.59	8.59	8.59	8.59	8.59	8.59	8.59
126.0	24.07	16.36	12.60	10.42	9.06	8.17	7.59	7.25	7.09	7.07	7.07	7.07	7.07	7.07	7.07
132.0	20.91	14.18	10.90	8.99	7.78	6.98	6.45	6.12	5.93	5.87	5.87	5.87	5.87	5.87	5.87
138.0	18.28	12.38	9.49	7.81	6.74	6.02	5.53	5.21	5.02	4.93	4.91	4.91	4.91	4.91	4.91
144.0	16.07	10.87	8.32	6.83	5.87	5.23	4.79	4.49	4.29	4.18	4.14	4.14	4.14	4.14	4.14
150.0	14.20	9.60	7.34	6.01	5.16	4.58	4.17	3.89	3.70	3.58	3.53	3.52	3.52	3.52	3.52
156.0	12.62	8.52	6.50	5.32	4.55	4.03	3.66	3.40	3.22	3.10	3.03	3.01	3.01	3.01	3.01
162.0	11.26	7.59	5.79	4.73	4.04	3.56	3.23	2.99	2.82	2.70	2.63	2.59	2.59	2.59	2.59
168.0	10.09	6.80	5.18	4.22	3.60	3.17	2.87	2.64	2.48	2.37	2.29	2.25	2.24	2.24	2.24
174.0	9.07	6.11	4.65	3.79	3.22	2.83	2.55	2.35	2.20	2.09	2.02	1.97	1.95	1.94	1.94
180.0	8.19	5.51	4.19	3.41	2.90	2.54	2.29	2.10	1.96	1.86	1.78	1.74	1.71	1.70	1.70
186.0	7.42	4.99	3.79	3.08	2.62	2.29	2.06	1.89	1.76	1.66	1.59	1.54	1.51	1.49	1.49
192.0	6.74	4.53	3.44	2.79	2.37	2.07	1.86	1.70	1.58	1.49	1.42	1.37	1.34	1.32	1.31

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 E-SERIES WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL APPROVAL.
- MULLION CHART APPLIES TO THE 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

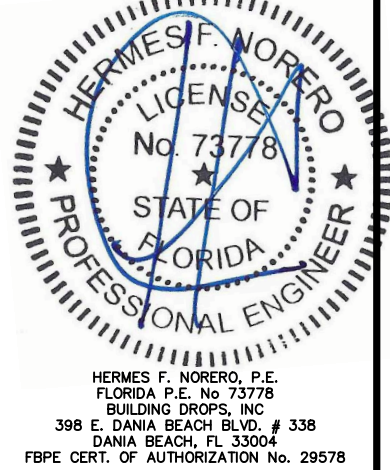
TITLE: E-SERIES AWNING WINDOW
(WZ3) (IMPACT)
2" X 3 1/2" MULLION LOADS TABLE
ONE WAY

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
6TH FBC CODE CHANGE	RV	10/17
MULL TABLES UPDATE	HR	11/30
ZERO, 1/2", 1", 2" MULL UPDATE	HR	4/12
ADDED 3/16" MULL & DP CHARTS	LL	7/31

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.

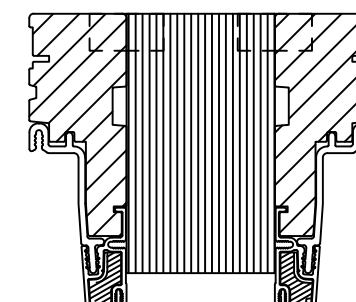
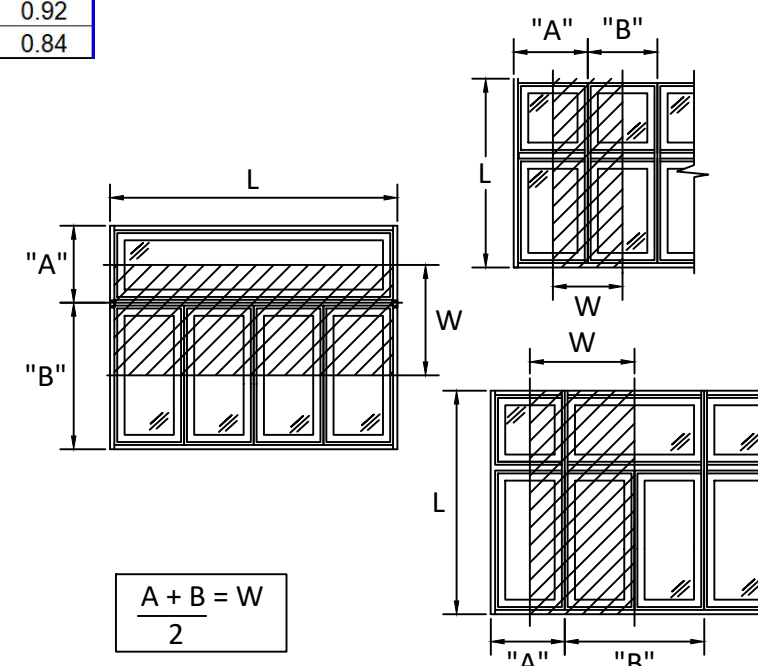


FL #:	FL24227
DATE:	10.08.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD200
SHEET:	25

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	65.00	65.00	65.00	65.00	65.00	65.00	58.50	52.00	46.80	42.55	39.00	36.00	33.43	31.20	29.25
30.0	65.00	65.00	65.00	65.00	62.40	53.49	46.80	41.60	37.44	34.04	31.20	28.80	26.74	24.96	23.40
36.0	65.00	65.00	65.00	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	65.00	65.00	65.00	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	65.00	65.00	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	65.00	65.00	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	65.00	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	65.00	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	65.00	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	65.00	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	65.00	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	53.68	35.78	26.84	21.47	17.89	15.34	13.42	11.93	10.74	9.76	8.95	8.26	7.67	7.16	6.71
102.0	44.75	29.83	22.38	17.90	14.92	12.79	11.19	9.94	8.95	8.14	7.46	6.88	6.39	5.97	5.59
108.0	37.70	25.13	18.85	15.08	12.57	10.77	9.42	8.38	7.54	6.85	6.28	5.80	5.39	5.03	4.71
114.0	32.05	21.37	16.03	12.82	10.68	9.16	8.01	7.12	6.41	5.83	5.34	4.93	4.58	4.27	4.01
120.0	27.48	18.32	13.74	10.99	9.16	7.85	6.87	6.11	5.50	5.00	4.58	4.23	3.93	3.66	3.44
126.0	23.74	15.83	11.87	9.50	7.91	6.78	5.94	5.28	4.75	4.32	3.96	3.65	3.39	3.17	2.97
132.0	20.65	13.77	10.32	8.26	6.88	5.90	5.16	4.59	4.13	3.75	3.44	3.18	2.95	2.75	2.58
138.0	18.07	12.05	9.04	7.23	6.02	5.16	4.52	4.02	3.61	3.29	3.01	2.78	2.58	2.41	2.26
144.0	15.90	10.60	7.95	6.36	5.30	4.54	3.98	3.53	3.18	2.89	2.65	2.45	2.27	2.12	1.99
150.0	14.07	9.38	7.04	5.63	4.69	4.02	3.52	3.13	2.81	2.56	2.35	2.16	2.01	1.88	1.76
156.0	12.51	8.34	6.25	5.00	4.17	3.57	3.13	2.78	2.50	2.27	2.08	1.92	1.79	1.67	1.56
162.0	11.17	7.45	5.59	4.47	3.72	3.19	2.79	2.48	2.23	2.03	1.86	1.72	1.60	1.49	1.40
168.0	10.02	6.68	5.01	4.01	3.34	2.86	2.50	2.23	2.00	1.82	1.67	1.54	1.43	1.34	1.25
174.0	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
180.0	8.14	5.43	4.07	3.26	2.71	2.33	2.04	1.81	1.63	1.48	1.36	1.25	1.16	1.09	1.02
186.0	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
192.0	6.71	4.47	3.35	2.68	2.24	1.92	1.68	1.49	1.34	1.22	1.12	1.03	0.96	0.89	0.84

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 E-SERIES WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL APPROVAL.
- 5) MULLION CHART APPLIES TO THE 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



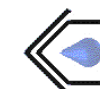
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES AWNING WINDOW
(WZ3) (IMPACT)

2" X 3 1/2" MULLION LOADS TABLE
TWO WAY
(WZ3) (IMPACT)

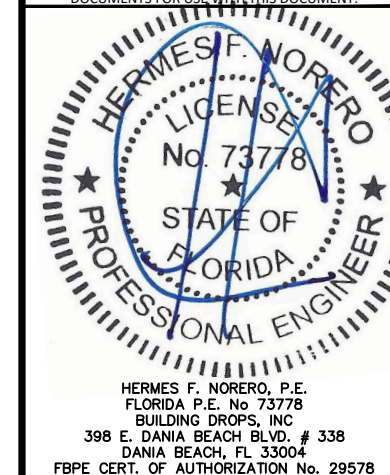
PREPARED BY:

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



REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10/17/18
MULL TABLES UPDATE	HR	11/30/18
ZERO, 1/2", 1", 2" MULL UPDATE	HR	4/12/19
ADDED 3/16" MULL & DP CHARTS	LL	7/31/19

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



FL #:

#:
FL24227

DATE: 10.08.17

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

DWG. #: AWD200

SHEET:

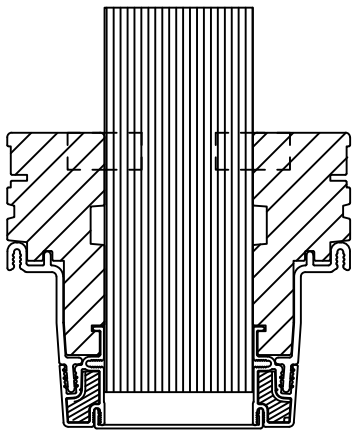
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OF 28

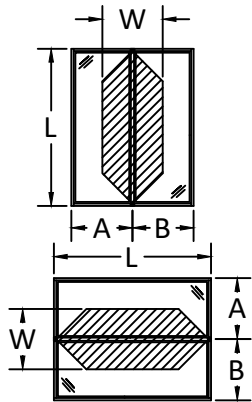
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MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)																
2" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION																
L - Mull Length (in)	W - Tributary Width (in)															
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0	
24.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	
30.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	
36.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	
42.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	
48.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	
54.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	
60.0	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	65.00	
66.0	65.00	65.00	65.00	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	65.00	65.00	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	65.00	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	65.00	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	65.00	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	65.00	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	15.96	15.47	15.30	15.30	15.30	15.30	15.30	15.30	
138.0	44.57	31.20	24.63	20.38	17.58	15.70	14.44	13.60	13.09	12.85	12.81	12.81	12.81	12.81	12.81	
144.0	41.92	28.36	21.71	17.82	15.33	13.64	12.49	11.70	11.19	10.91	10.81	10.81	10.81	10.81	10.81	
150.0	37.05	25.04	19.14	15.68	13.45	11.94	10.88	10.15	9.66	9.35	9.20	9.18	9.18	9.18	9.18	
156.0	32.91	22.22	16.96	13.87	11.87	10.51	9.55	8.87	8.39	8.09	7.91	7.84	7.84	7.84	7.84	
162.0	29.37	19.81	15.10	12.33	10.53	9.30	8.42	7.80	7.35	7.05	6.86	6.76	6.75	6.75	6.75	
168.0	26.32	17.74	13.50	11.01	9.39	8.27	7.47	6.90	6.48	6.18	5.99	5.87	5.83	5.83	5.83	
174.0	23.67	15.94	12.13	9.88	8.41	7.39	6.67	6.13	5.74	5.46	5.26	5.14	5.08	5.07	5.07	
180.0	21.37	14.38	10.93	8.89	7.56	6.64	5.97	5.48	5.12	4.85	4.66	4.53	4.45	4.43	4.43	
186.0	19.36	13.02	9.89	8.04	6.82	5.98	5.37	4.92	4.58	4.33	4.14	4.01	3.93	3.89	3.88	
192.0	17.59	11.83	8.97	7.29	6.18	5.41	4.85	4.43	4.12	3.88	3.70	3.57	3.49	3.44	3.42	

- NOTE:
- 1) MULLION CHART APPLIES TO 2" X 5 3/16"LVL MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT E-SERIES WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL APPROVAL.
 - 5) MULLION CHART APPLIES TO THE 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



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



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

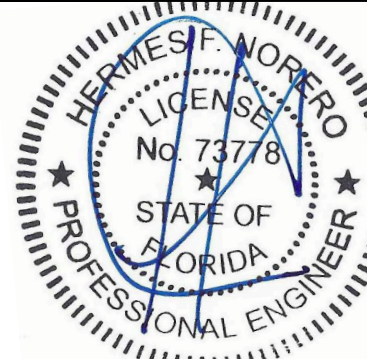
TITLE:
E-SERIES AWNING WINDOW
(WZ3) (IMPACT)
2" X 5-3/16" MULLION LOADS TABLE
ONE WAY

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
6TH FBC CODE CHANGE	RV	10/17
MULL TABLES UPDATE	HR	11/30
ZERO, 1/2", 1", 2" MULL UPDATE	HR	4/12
ADDED 3/16" MULL & DP CHARTS	LL	7/31

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.

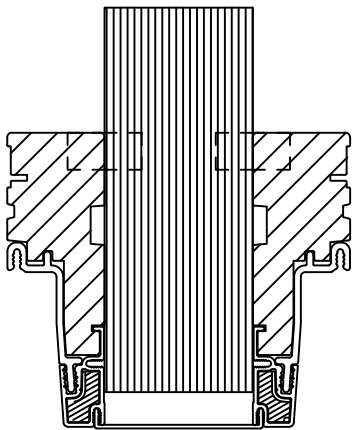


HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

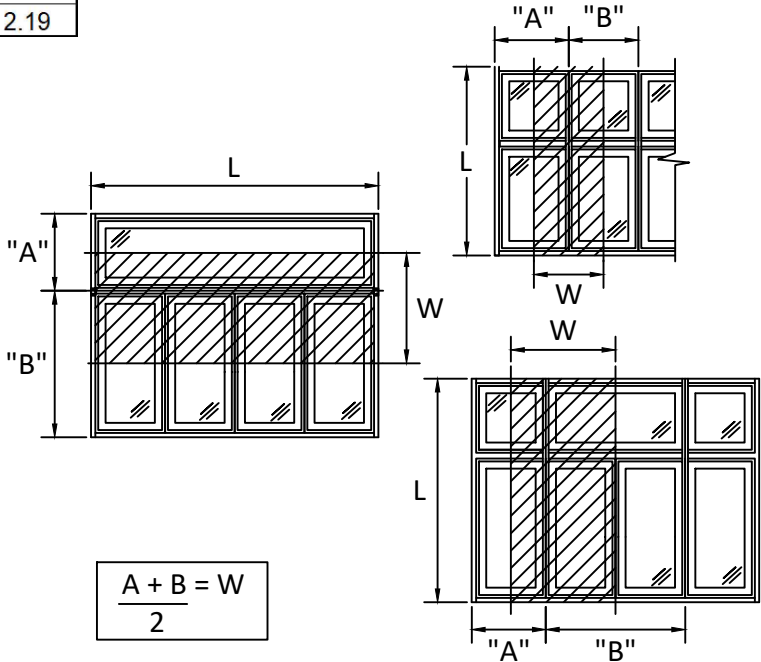
FL #:	FL24227
DATE:	10.08.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD200
SHEET:	27

s:\projects\andersen windows\lbc-19-0548-2 - fbc submittal - e-series mullion revisions\dwgs\l74227-2 & 3\awd200 - flb554-impact-clad vent awning window.dwg 8/14/2019 6:37 PM

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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
150.0	36.71	24.47	18.35	14.68	12.24	10.49	9.18	8.16	7.34	6.67	6.12	5.65	5.24	4.89
156.0	32.63	21.76	16.32	13.05	10.88	9.32	8.16	7.25	6.53	5.93	5.44	5.02	4.66	4.35
162.0	29.14	19.43	14.57	11.66	9.71	8.33	7.29	6.48	5.83	5.30	4.86	4.48	4.16	3.89
168.0	26.13	17.42	13.06	10.45	8.71	7.47	6.53	5.81	5.23	4.75	4.35	4.02	3.73	3.48
174.0	23.52	15.68	11.76	9.41	7.84	6.72	5.88	5.23	4.70	4.28	3.92	3.62	3.36	3.14
180.0	21.24	14.16	10.62	8.50	7.08	6.07	5.31	4.72	4.25	3.86	3.54	3.27	3.03	2.83
186.0	19.25	12.84	9.63	7.70	6.42	5.50	4.81	4.28	3.85	3.50	3.21	2.96	2.75	2.57
192.0	17.50	11.67	8.75	7.00	5.83	5.00	4.38	3.89	3.50	3.18	2.92	2.69	2.50	2.33



2" X 5 3/16"
LVL MULL PROFILE



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

TITLE: E-SERIES AWNING WINDOW (WZ3) (IMPACT)

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

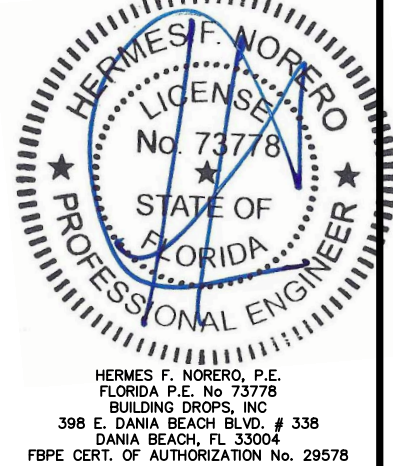
PREPARED BY: BUILDING DROPS, INC.

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REMARKS	BY	DATE
6TH FBC CODE CHANGE	RV	10/17
MULL TABLES UPDATE	HR	11/30
ZERO, 1/2", 1", 2" MULL UPDATE	HR	4/12
ADDED 3/16" MULL & DP CHARTS	LL	7/31

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FL #:	FL24227
DATE:	10.08.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD200
SHEET:	28
	OF 28