

8/15/2019 3:40 PM

ANDERSEN CORPORATION

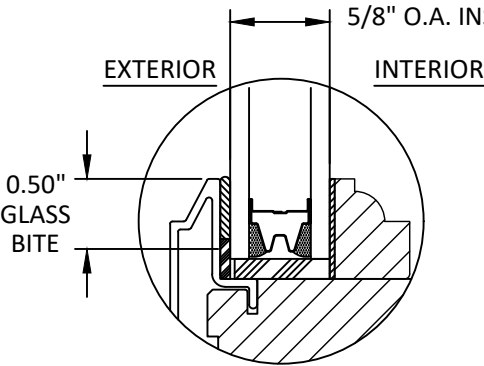
E-SERIES DOUBLE HUNG FULL FRAME WINDOW

(NON-HVHZ)(NON-IMPACT)

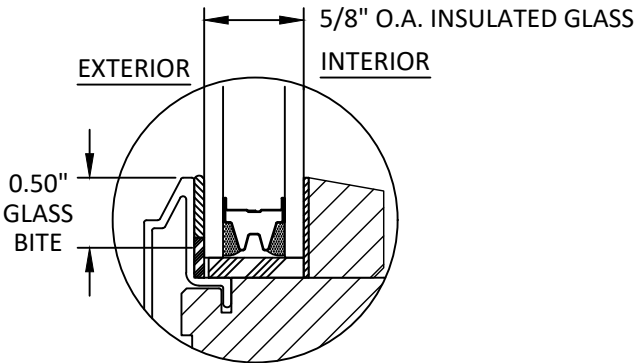
s:\projects\andersen windows\fbcc-19-0548-2 - fbc submittal - e-series mullion revisions\dwgs\174229-1 & -3\2018-12-05-awd203 - fl102939 5 6 7 8.dwg

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION (2017) FLORIDA BUILDING CODE (FBC) EXCLUDING HVHZ. ALL PRODUCTS UNDER THE SCOPE OF THIS DOCUMENT HAVE BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/I.S.2/A440-08/11
2. 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.
3. 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.
4. 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 IN NON-HVHZ AREAS. IN HVHZ AREAS, ONE TIME PRODUCT APPROVAL TO BE OBTAINED FROM MIAMI-DADE PERA OR AHJ.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. WINDOW/DOOR FRAME MATERIAL: *PONDEROSA PINE OR EQUIVALENT (S.G.=0.45).*
7. MULLION MATERIAL: *LAMINATED VENEER LUMBER.*
8. IN ACCORDANCE WITH CH24 OF CURRENT FLORIDA BUILDING CODE, WOOD COMPONENTS SHALL HAVE BEEN PRESERVATIVE TREATED OR SHALL BE OF A DURABLE SPECIES.
9. IN ACCORDANCE WITH THE CH20 OF CURRENT FLORIDA BUILDING CODE, DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED.
10. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
 - X: OPERABLE PANEL
 - O: FIXED PANEL
11. CUSTOM SIZES AVAILABLE UPON REQUEST. CUSTOM DESIGN PRESSURE WILL BE ASSIGNED EQUAL TO NEXT LARGER STANDARD SIZE.



GLAZING DETAIL, G1
SHOWN WITH COLONIAL GLASS STOP



GLAZING DETAIL, G2
SHOWN WITH CONTEMPORARY GLASS STOP

GLAZING NOTES:

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

OVERALL FRAME SIZE		OVERALL D.L.O. DIMENSION		GLASS TYPE	DESIGN PRESSURE (PSF)	
WIDTH (IN.)	HEIGHT (IN.)	WIDTH (IN.)	HEIGHT (IN.)		POS.	NEG.
44.0	78.0	37.0	34.0	G1 OR G2	+55.00	-55.00
54.0	102.0	47.0	46.0		+30.00	-30.00
48.0	72.0	41.0	31.0		+55.00	-55.00
40.0	84.0	33.0	37.0		+55.00	-55.00

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22	D	ZERO MULLION AND LOADS TABLE - ONE WAY
23	D	ZERO MULLION AND LOADS TABLE - TWO WAY
24	D	1/2" MULLION AND LOADS TABLE - ONE WAY
25	D	1/2" MULLION AND LOADS TABLE - TWO WAY
26	D	3/4" MULLION AND LOADS TABLE - ONE WAY
27	D	3/4" MULLION AND LOADS TABLE - TWO WAY
28	D	1" MULLION AND LOADS TABLE - ONE WAY
29	D	1" MULLION AND LOADS TABLE - TWO WAY
30	D	2" MULLION AND LOADS TABLE - ONE WAY
31	D	2" MULLION AND LOADS TABLE - TWO WAY

100 FOURTH AVE NORTH
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TITLE: E-SERIES DOUBLE HUNG FULL FRAME WINDOW
GENERAL NOTES AND GLAZING DETAILS

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

REMARKS	BY	DATE
6TH FBC EDITION	AG	10/17
VINYL FLANGE ADDITION	HR	12/14
ADDED ZERO, 1/2", 1" & 2" MULL	HR	4.12.19
ADDED 3/4" MULL & DP CHARTS	LL	7.31.19

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

FL #: **FL24229**

DATE: **10.09.17**

DWG. BY: AG	CHK. BY: HFN
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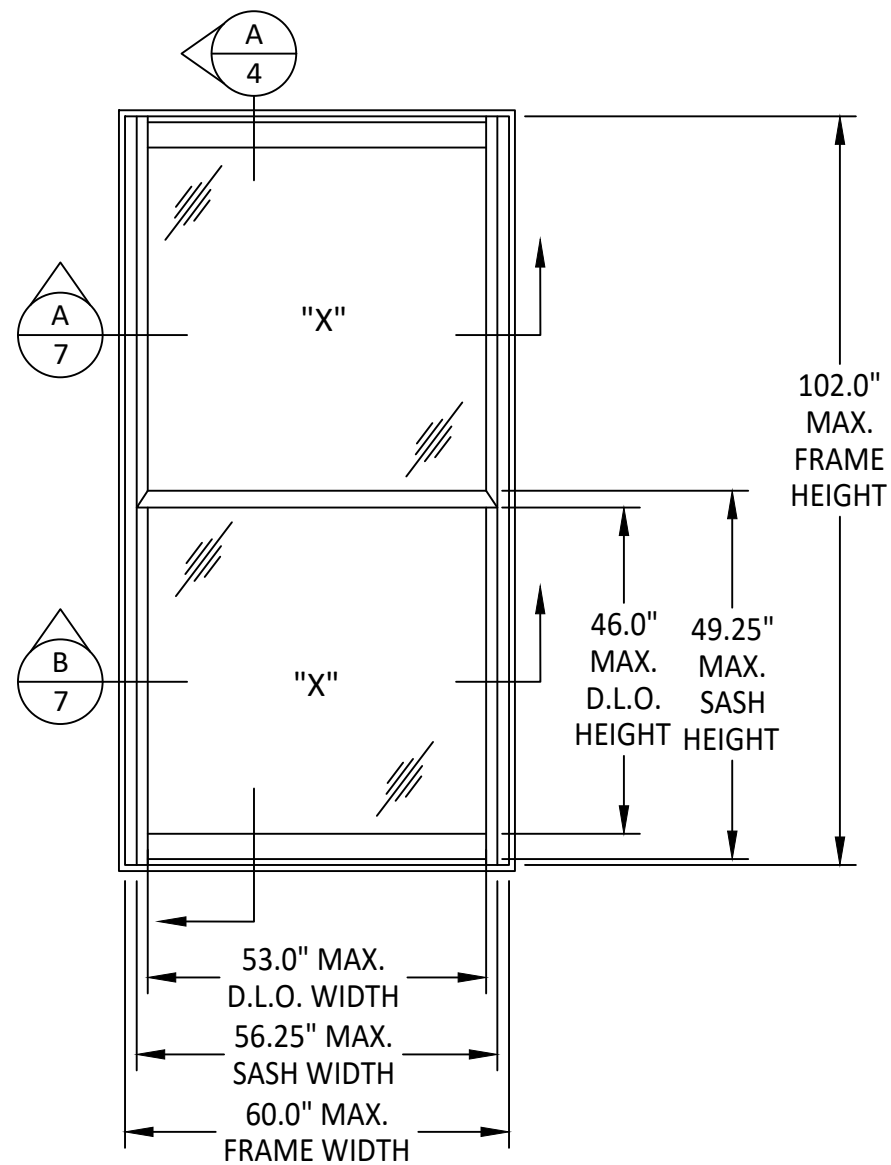
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DWG. #: **AWD203**

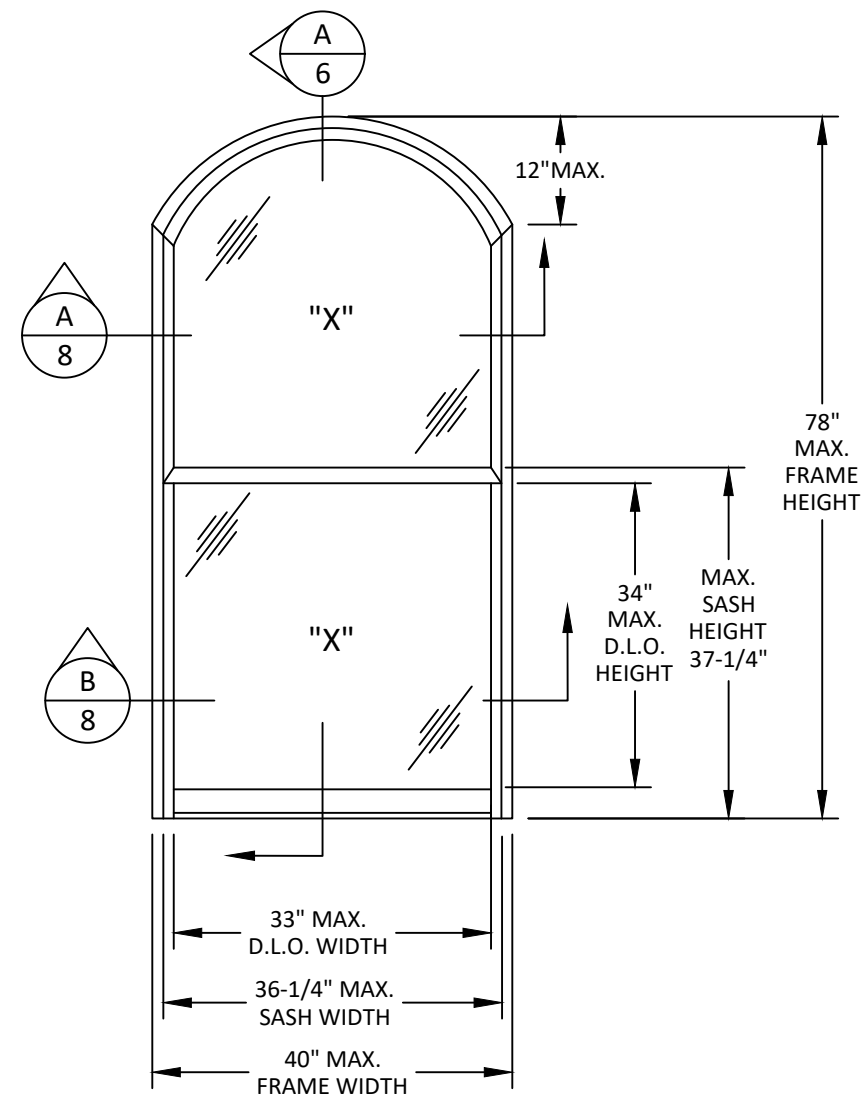
SHEET **1**

OF 31

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ELEVATION
SINGLE UNIT
RECTANGULAR/SQUARE UNIT



ELEVATION
SINGLE UNIT
RADIUS UNIT



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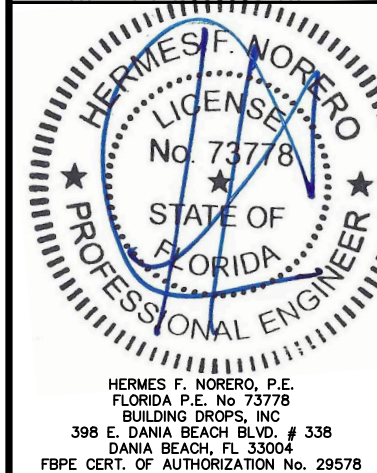
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FRAME WINDOW
ELEVATIONS

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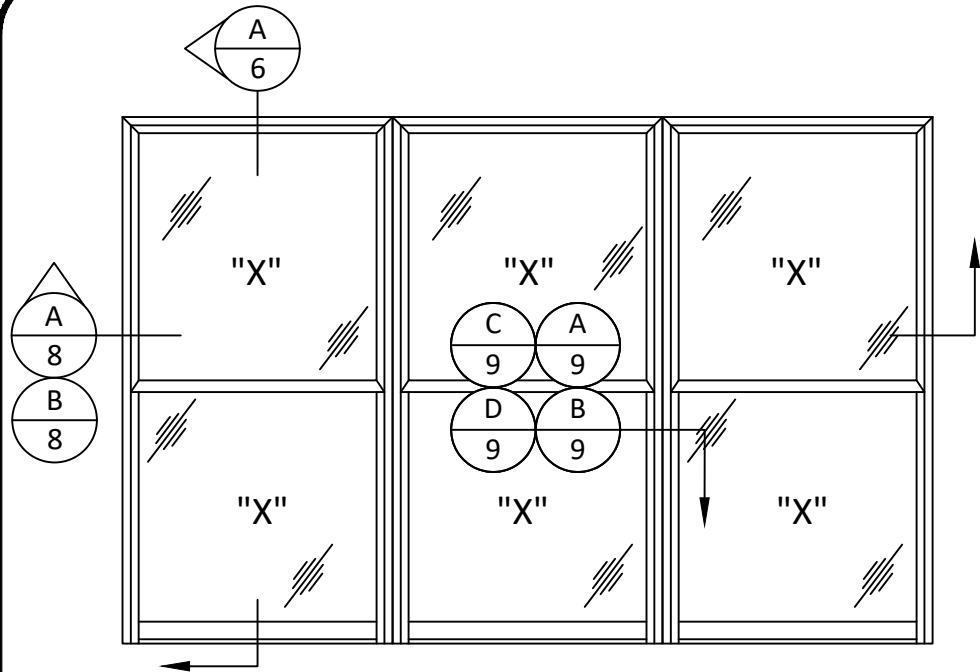


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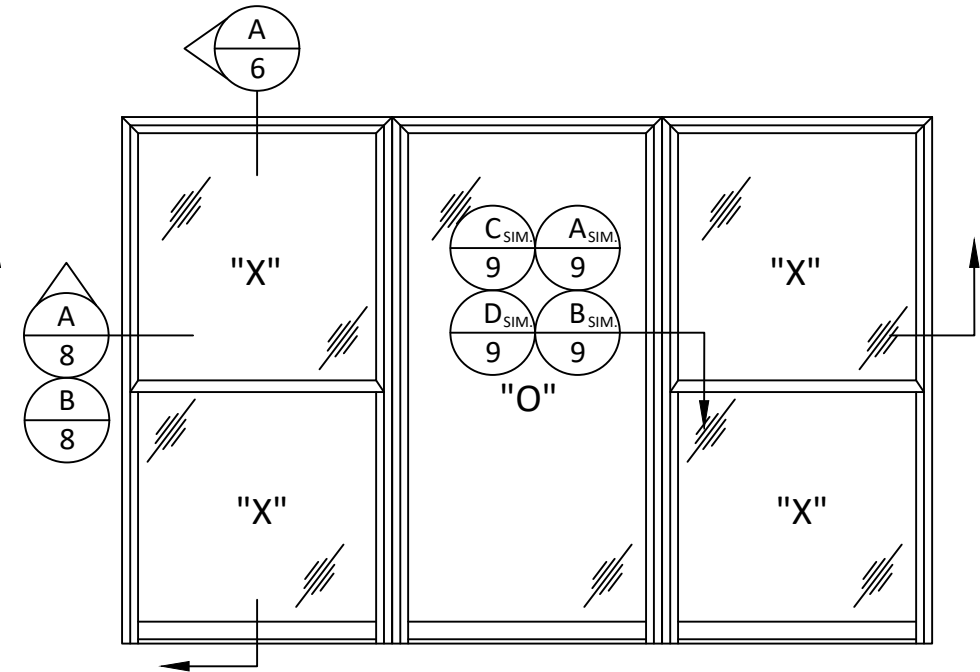
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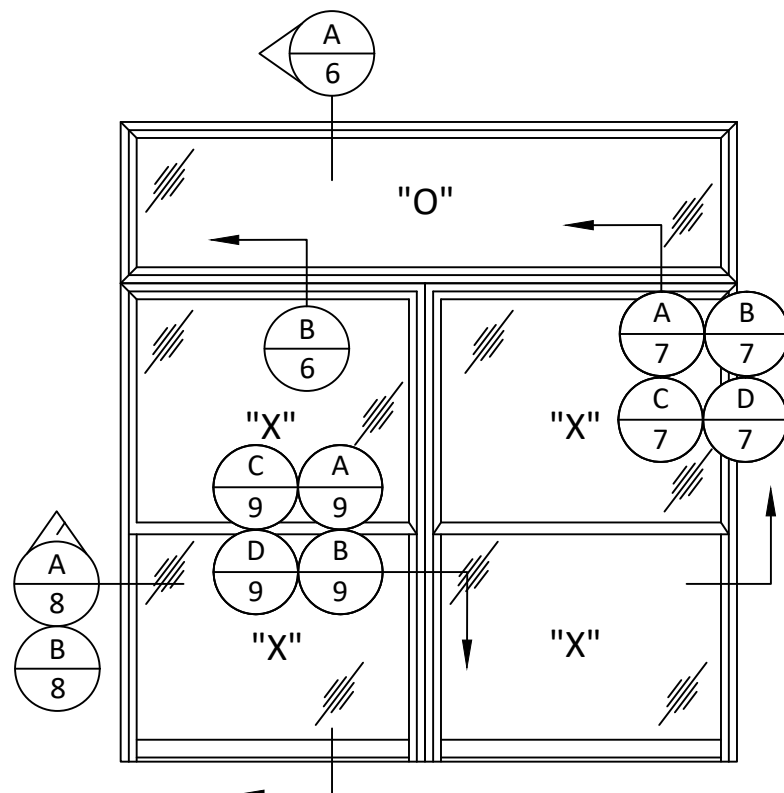
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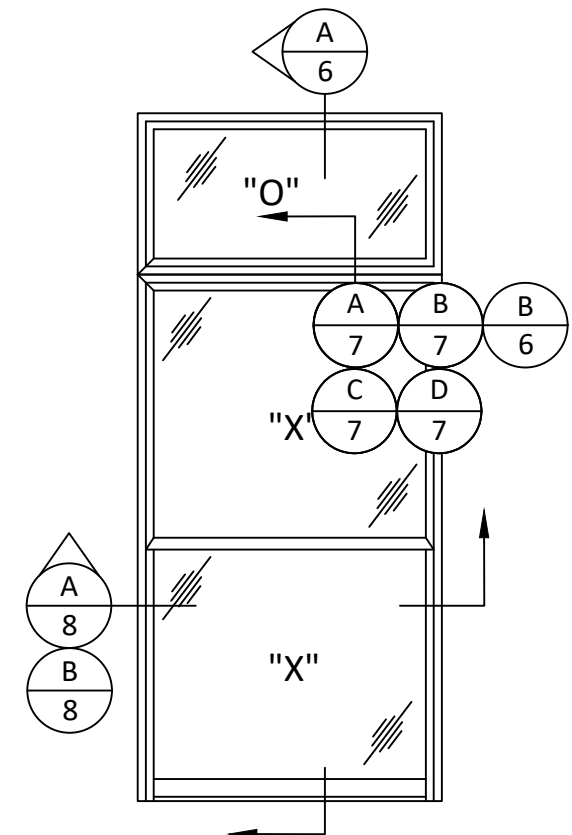
ELEVATION
MULLED UNIT
HORIZONTAL CONFIGURATION



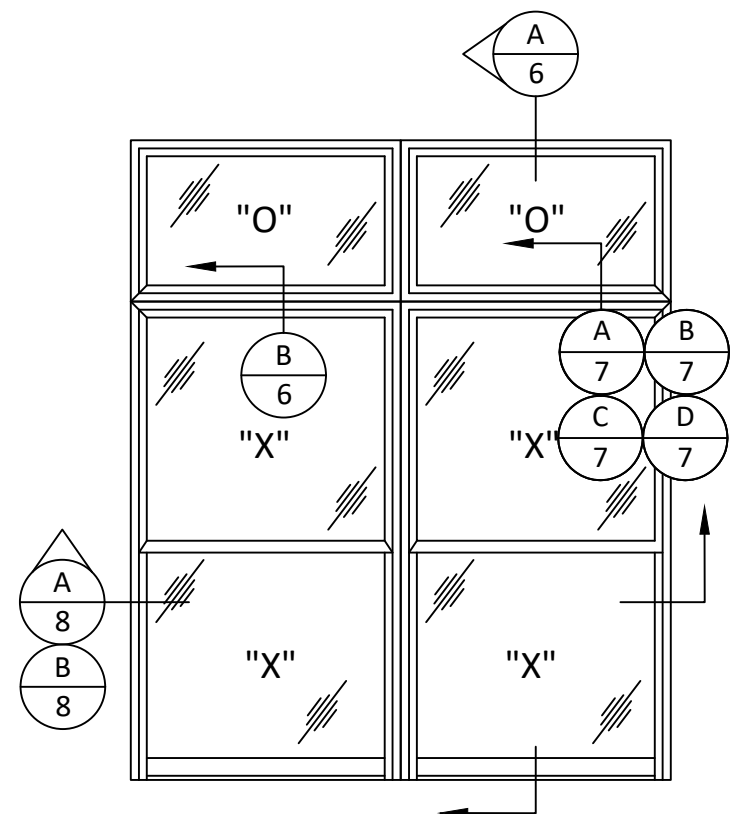
ELEVATION
MULLED UNIT
HORIZONTAL CONFIGURATION



ELEVATION
MULLED UNIT
HORIZONTAL WITH TRANSOM CONFIGURATION

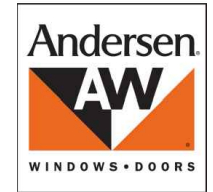


ELEVATION
MULLED UNIT
HORIZONTAL WITH TRANSOM CONFIGURATION



ELEVATION
MULLED UNIT
HORIZONTAL WITH TRANSOM CONFIGURATION

NOTE:
REFER TO SHEETS 11-31 FOR DESIGN
PRESSURES BASED ON CORRESPONDING
MULLION TYPES



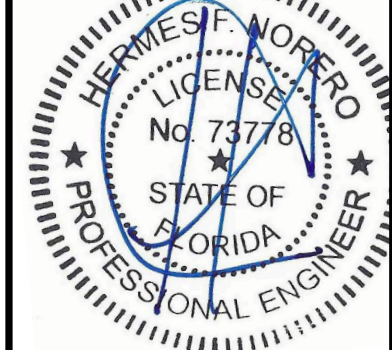
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE:
**E-SERIES DOUBLE HUNG FULL
FRAME WINDOW**
MULLED ELEVATIONS

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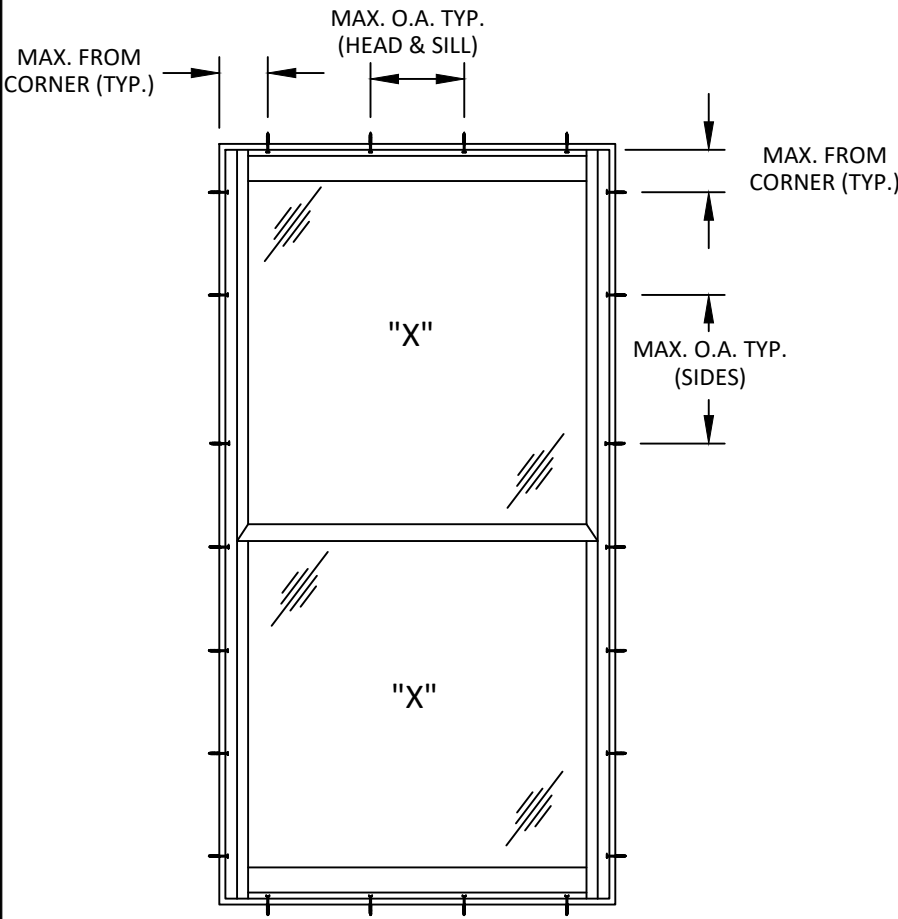
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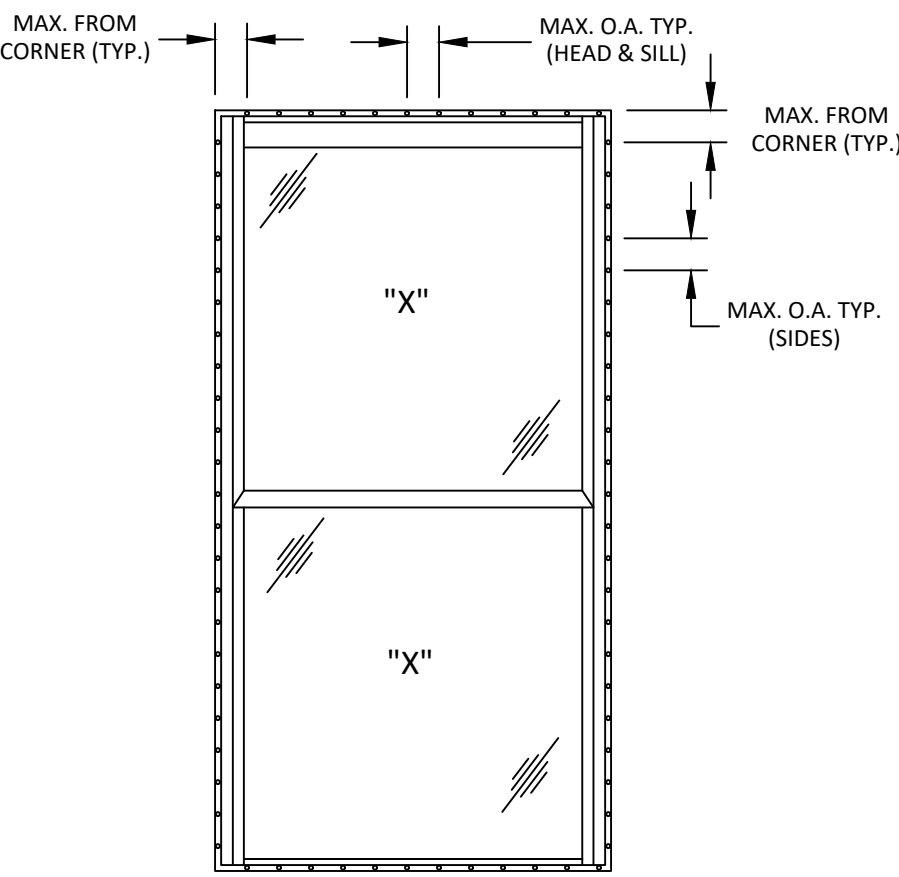
HERMES F. NORERO, P.E.
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FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL24229
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DWG. BY:	AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD203
SHEET	3

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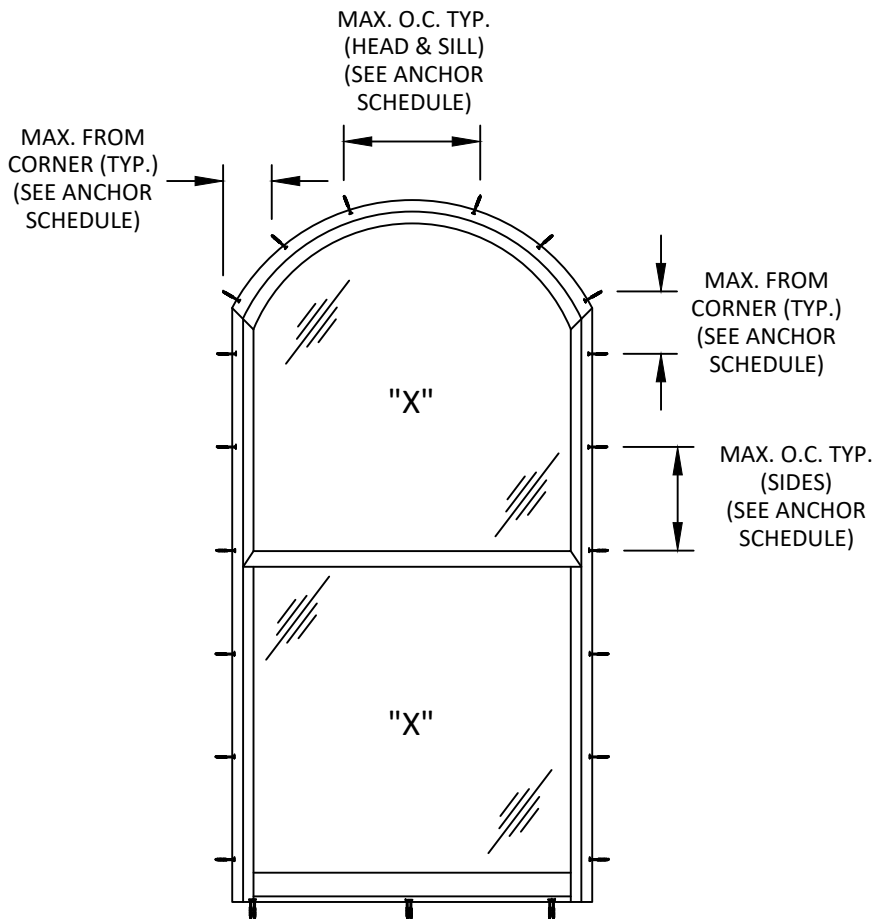


ANCHOR LAYOUT
THROUGH FRAME OR STRAP



ANCHOR LAYOUT
THROUGH FIN

NOTE :
FOR MORE ANCHOR INFORMATION
(INSTALLATION TYPE, SPACING,
QUANTITY, TYPE, QUALIFIED
SUBSTRATES) SEE SHEET 10-11



ANCHOR LAYOUT
RADIUS SINGLE UNIT



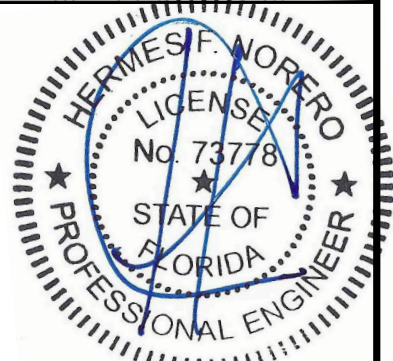
100 FOURTH AVE NORTH
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TITLE:
E-SERIES DOUBLE HUNG FULL
FRAME WINDOW
ANCHOR LAYOUTS

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DWG. BY: AG CHK. BY: HFN

SCALE: NTS

DWG. #: AWD203

SHEET

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OF 31

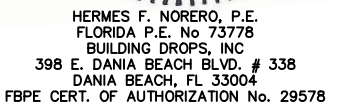
MULLED ANCHOR LAYOUTS

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FL24229

DWG. BY:
AG

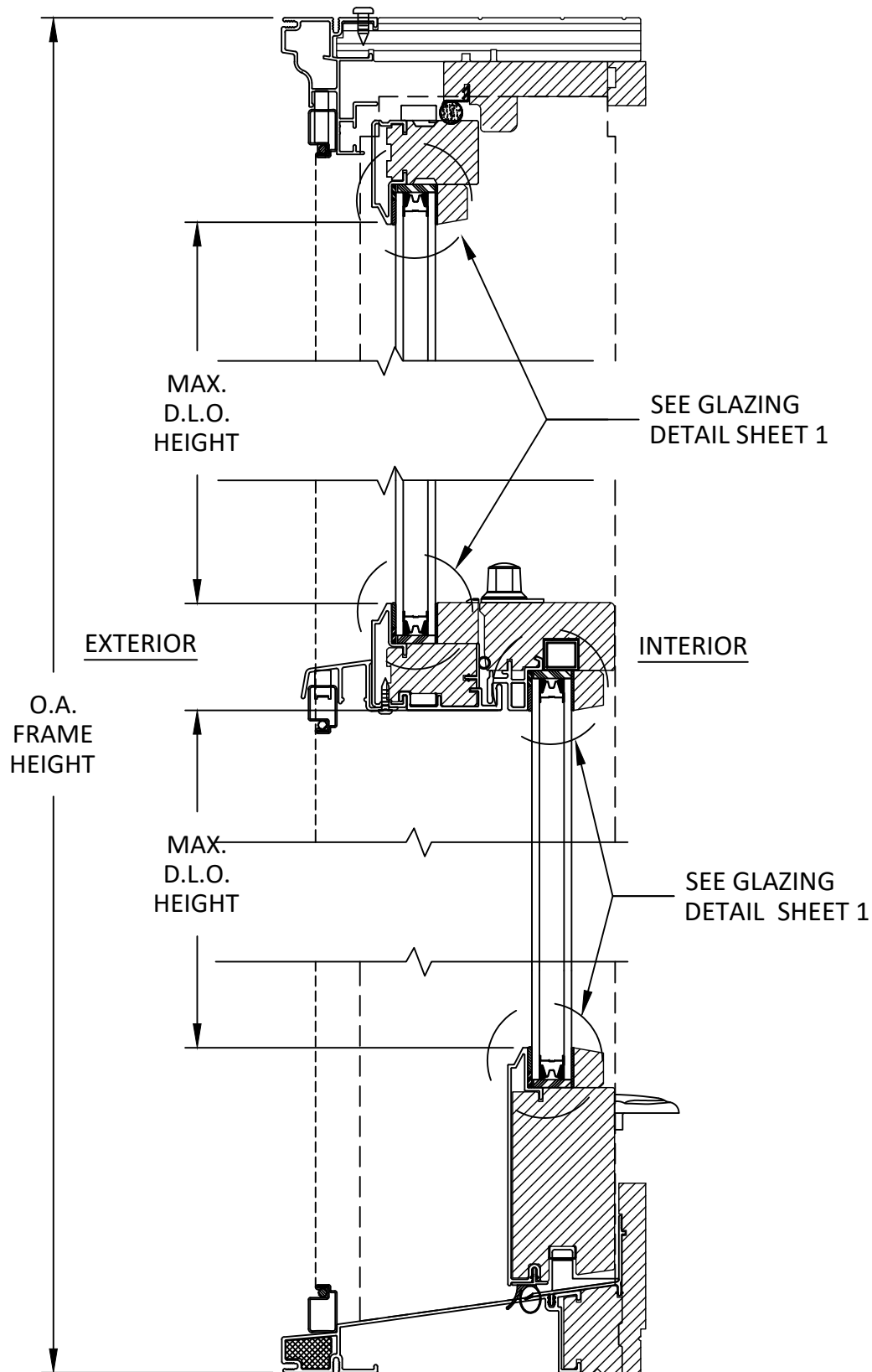
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HFN

DWG. #: AWD203

5

OF 31

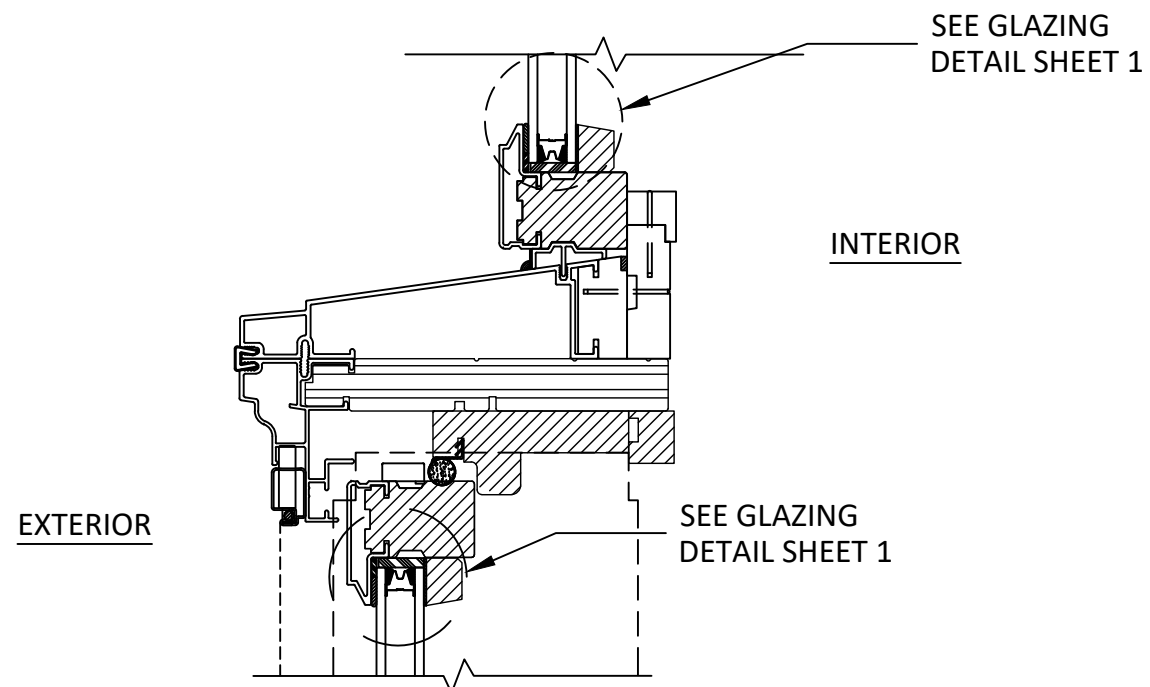




A
6

VERTICAL SECTION

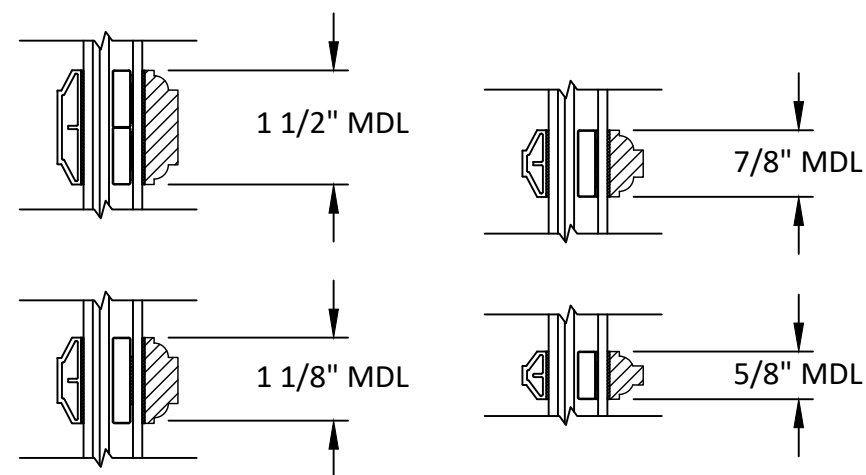
INSULATED GLASS



B
6

VERTICAL SECTION

INSULATED GLASS
ZERO MULLION



OPTIONAL MUNTIN BAR ATTACHEMENT TO GLASS



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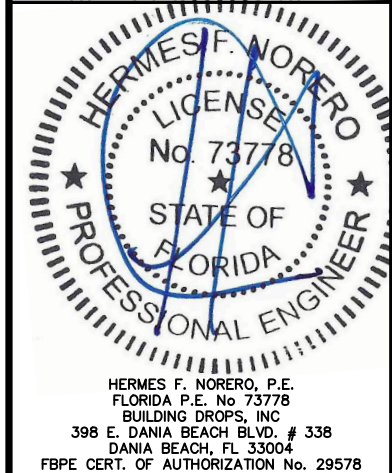
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E-SERIES DOUBLE HUNG FULL
FRAME WINDOW
VERTICAL SECTIONS

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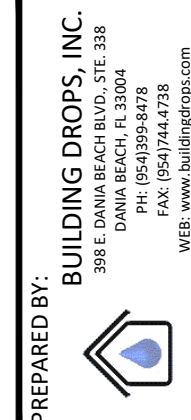
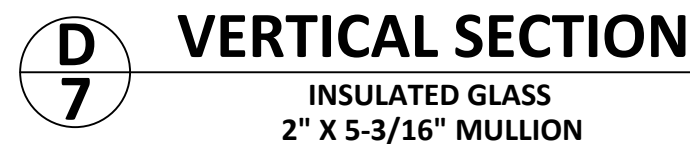
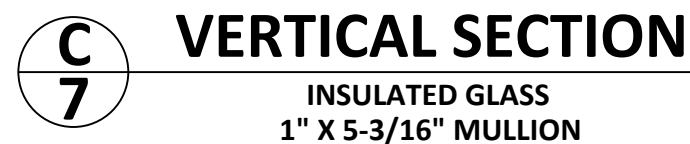
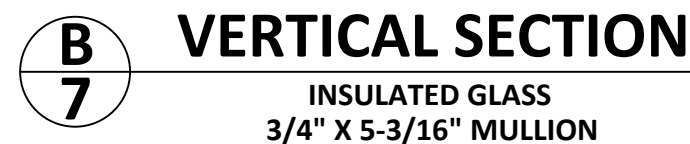
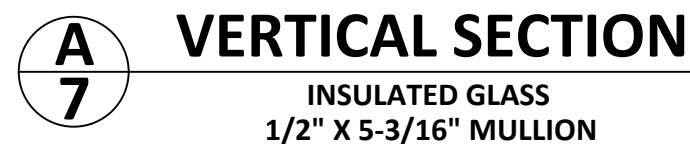
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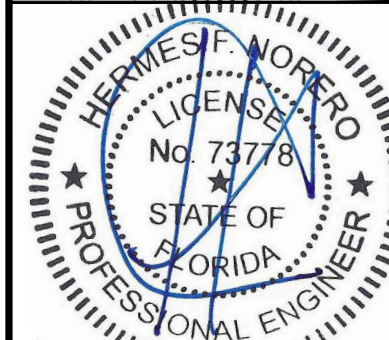
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6
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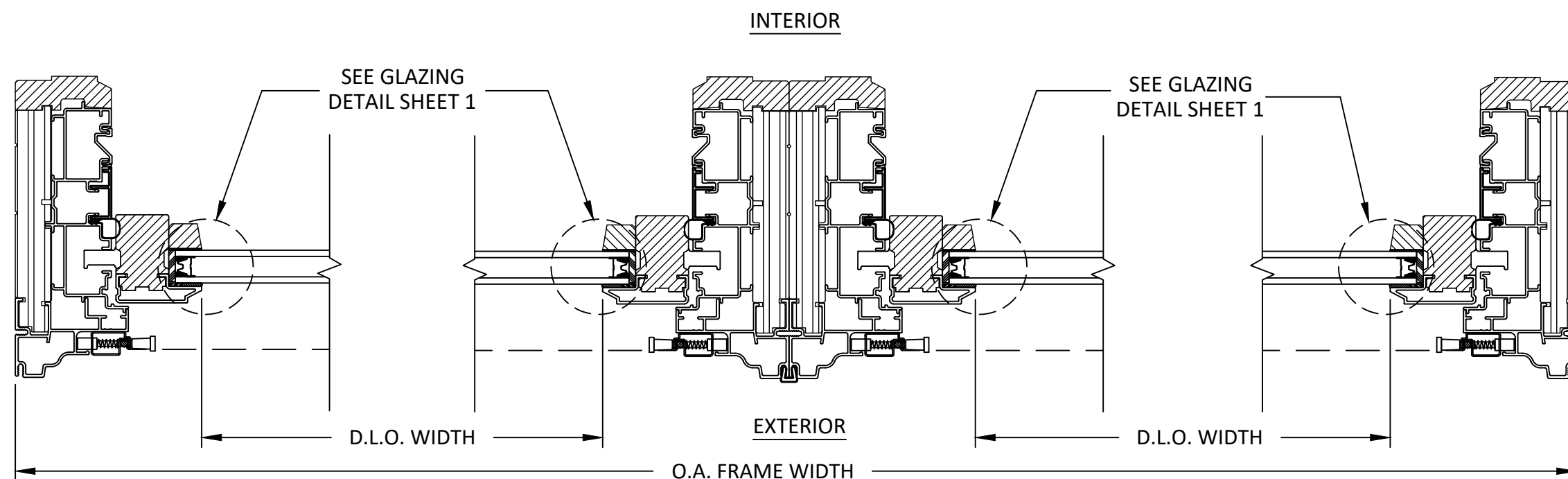
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SCALE: NTS

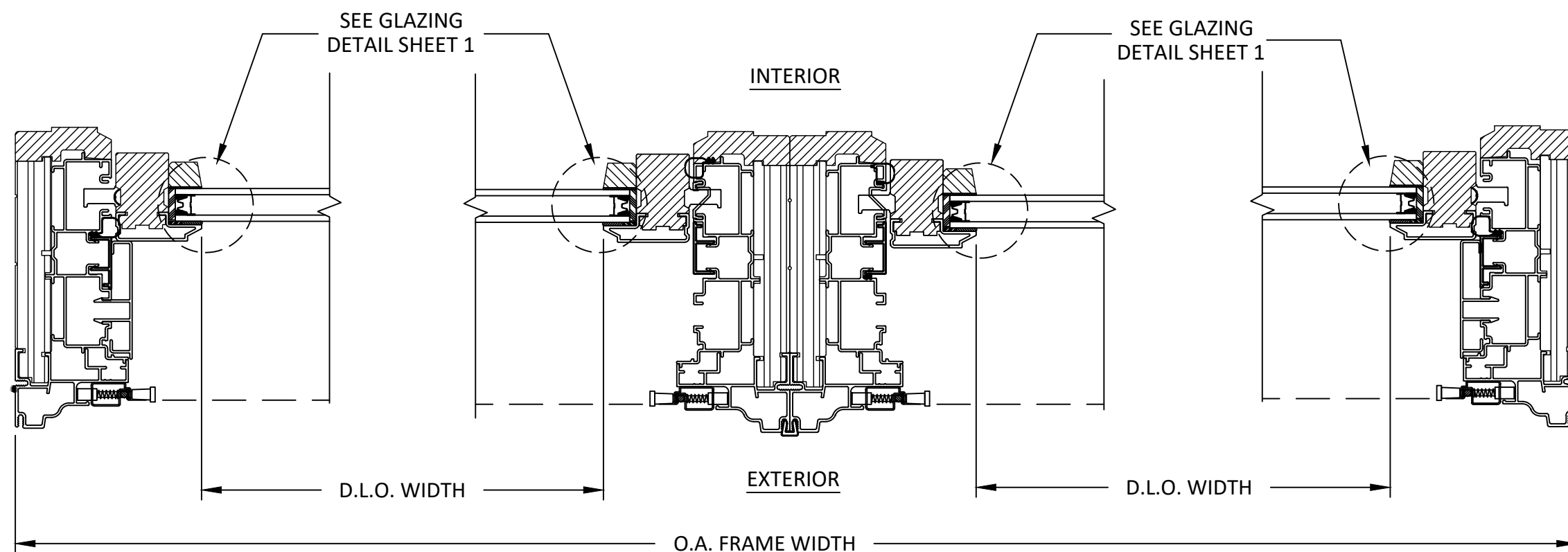
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SHEET



A HORIZONTAL SECTION

8 INSULATED GLASS
ZERO MULLION



B HORIZONTAL SECTION

8 INSULATED GLASS ZERO MULLION



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FRAME WINDOW*
HORIZONTAL SECTIONS

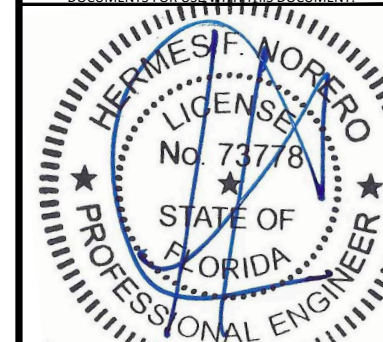


PREPARED BY:

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

FL #: **FL24229**

DATE: 10.09.17

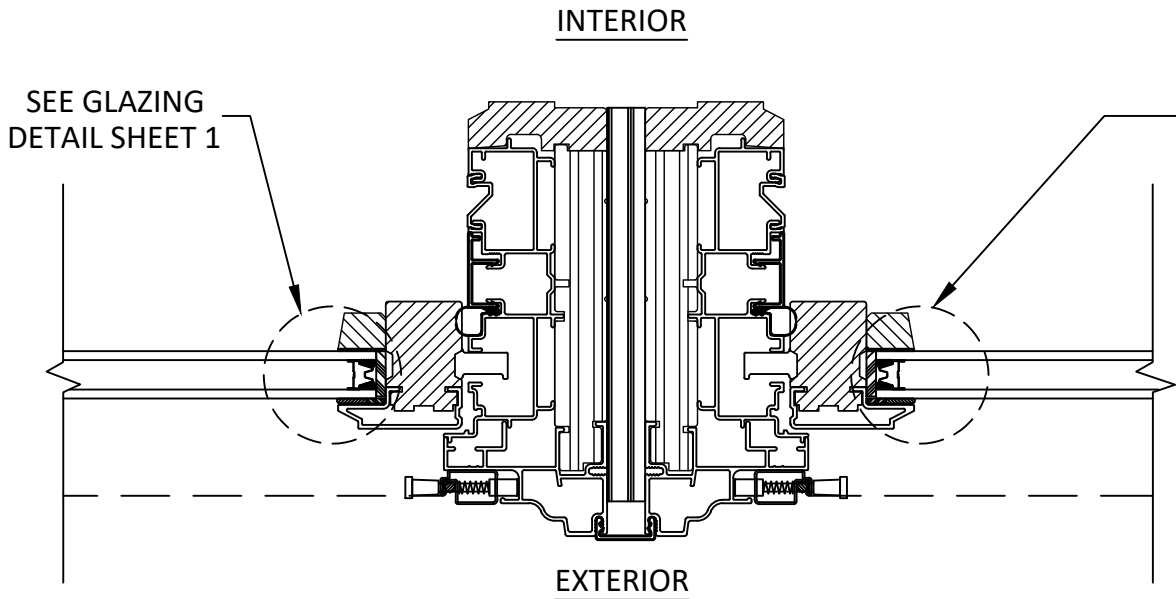
DWG. BY: AG	CHK. BY: HFN
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SCALE: NTS

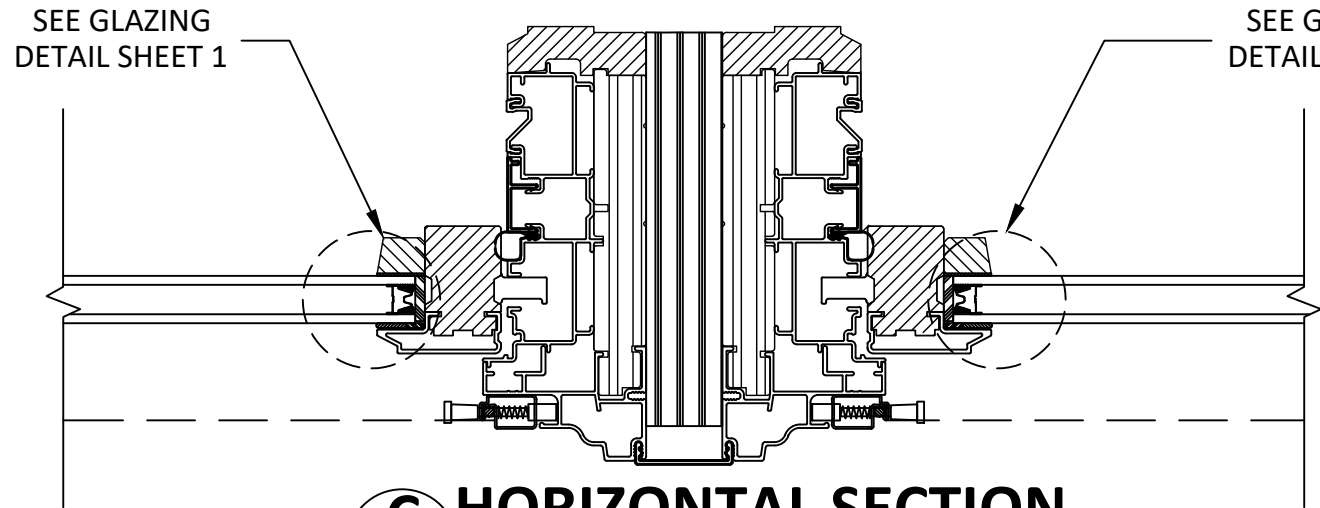
DWG. #: **AWD203**

SHEET

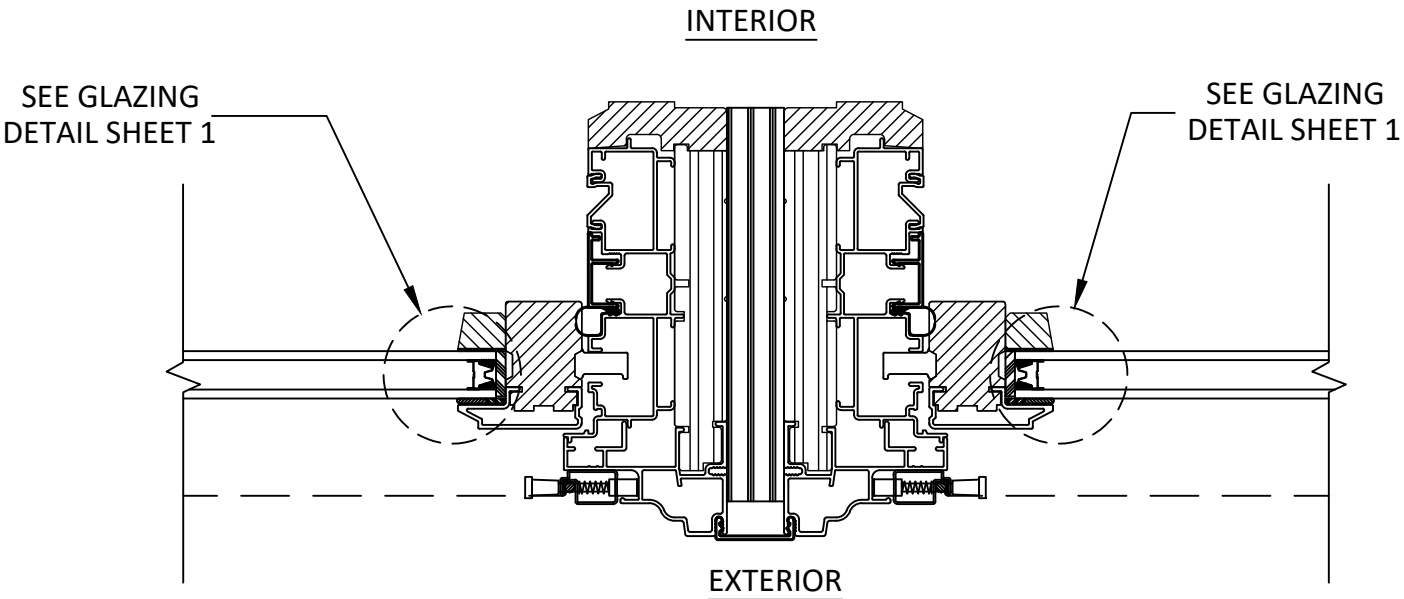
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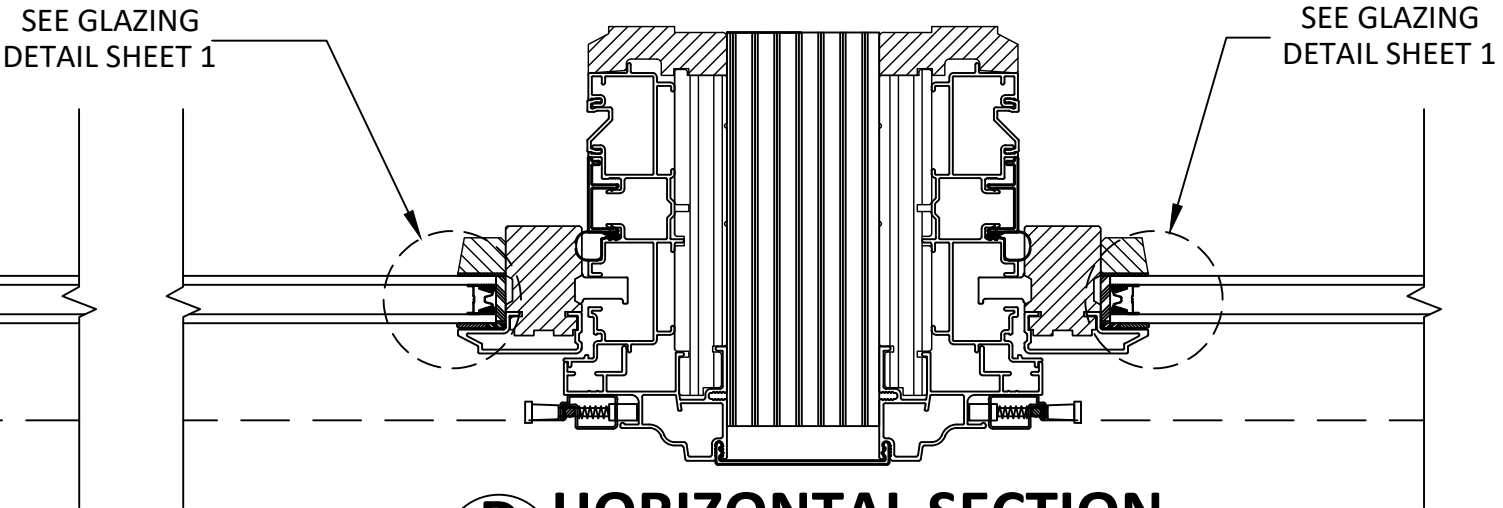
A
9 **HORIZONTAL SECTION**
INSULATED GLASS
1/2" X 5-3/16" MULLION



C
9 **HORIZONTAL SECTION**
INSULATED GLASS
1" X 5-3/16" MULLION



B
9 **HORIZONTAL SECTION**
INSULATED GLASS
3/4" X 5-3/16" MULLION



D
9 **HORIZONTAL SECTION**
INSULATED GLASS
2" X 5-3/16" MULLION



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

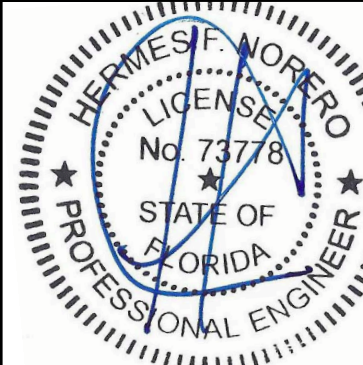
TITLE:
E-SERIES DOUBLE HUNG FULL
FRAME WINDOW
MULLED HORIZONTAL SECTIONS

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



REMARKS	BY	DATE
6TH FBC EDITION	AG	10/17
VINYL FLANGE ADDITION	HR	12/14
ADDED ZERO, 1/2", 1" & 2" MULL	HR	4.12.19
ADDED 3/4" MULL & DP CHARTS	LL	7.31.19

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



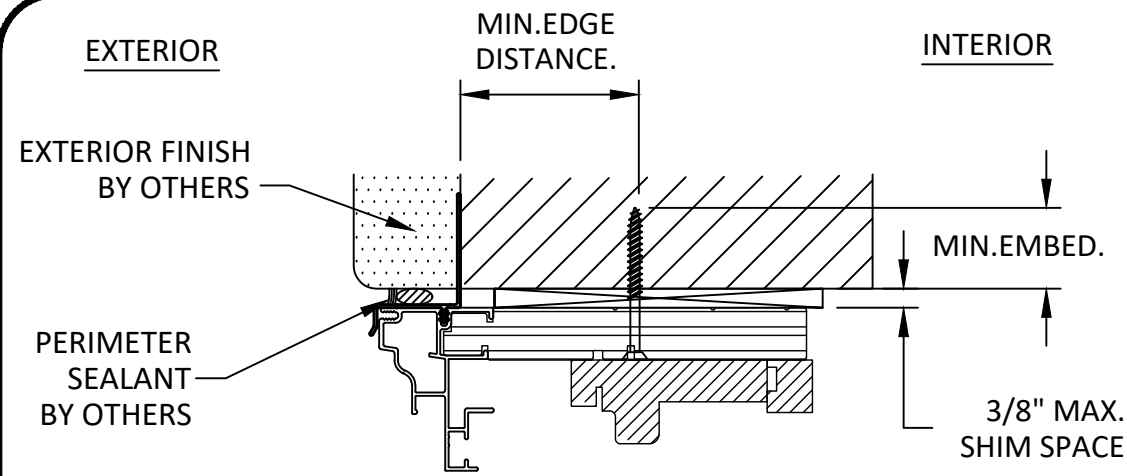
HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL24229
DATE:	10.09.17
DWG. BY:	AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD203

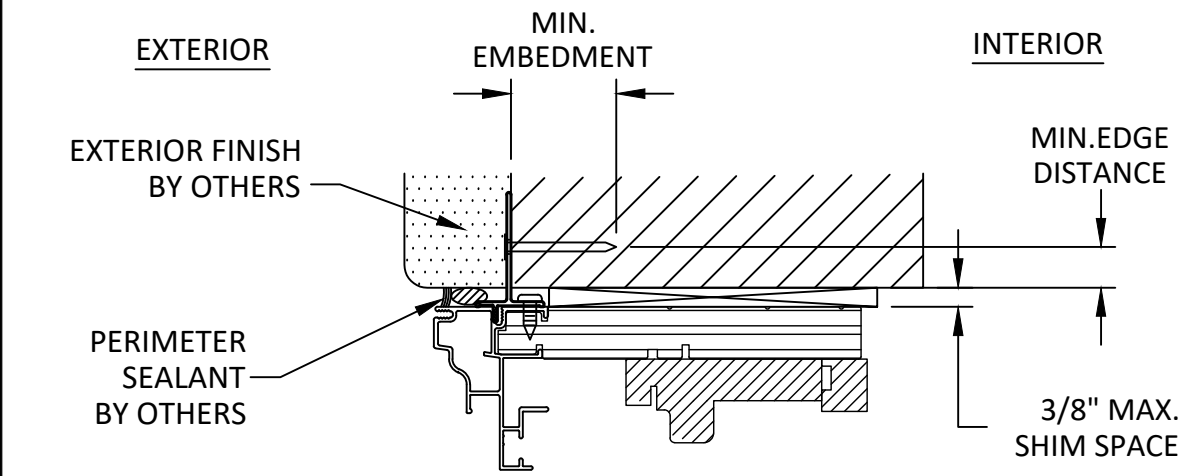
SHEET
9
OF 31

8/15/2019 3:40 PM

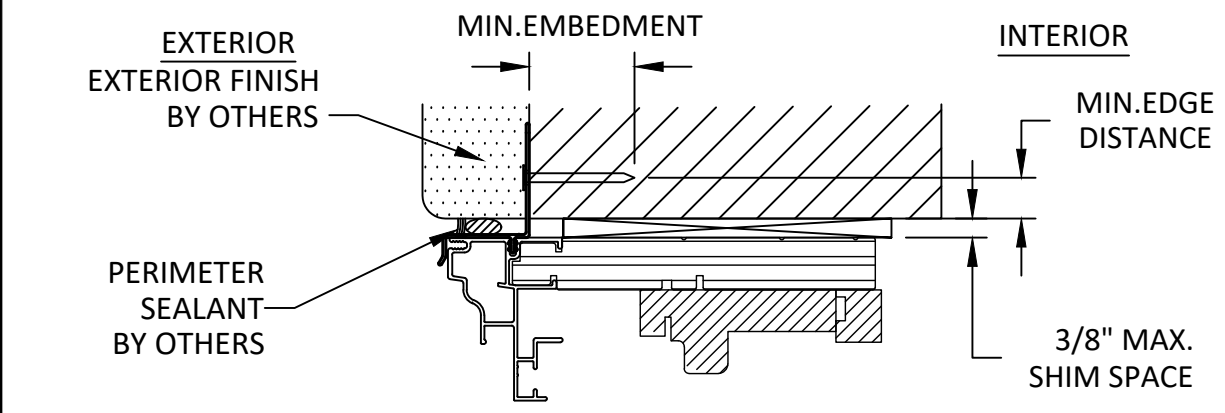
s:\projects\andersen windows\lbc-19-0548.2 - fbc submittal - e-series mullion revisions\dwgs\l74229.1 & .3\2018-12-05-awd203 - fl0239 5 6 7 8.dwg



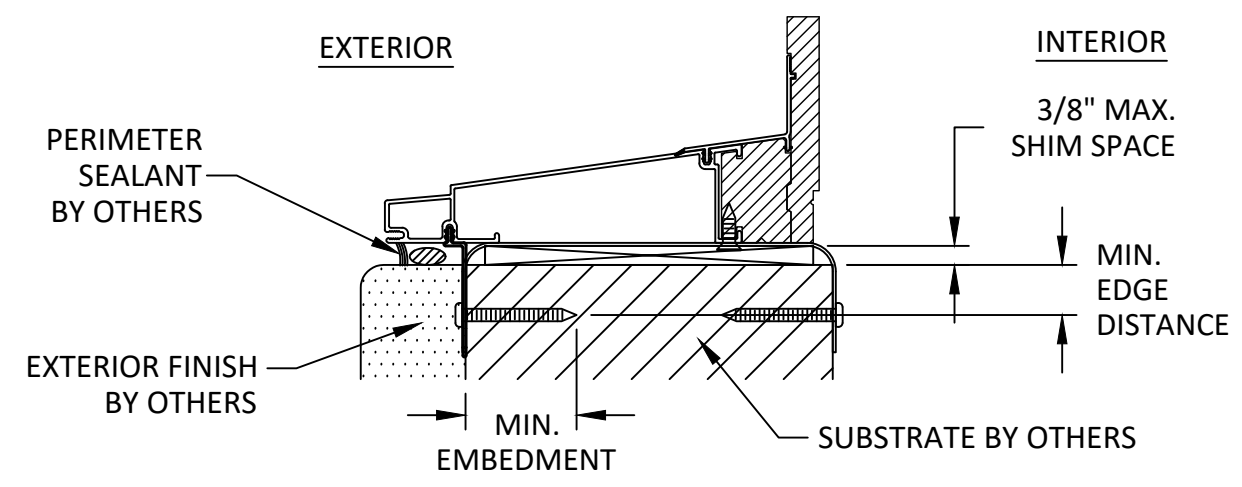
A
10
ANCHOR DETAILS
THROUGH FRAME
(HEAD AND SIDES ONLY)



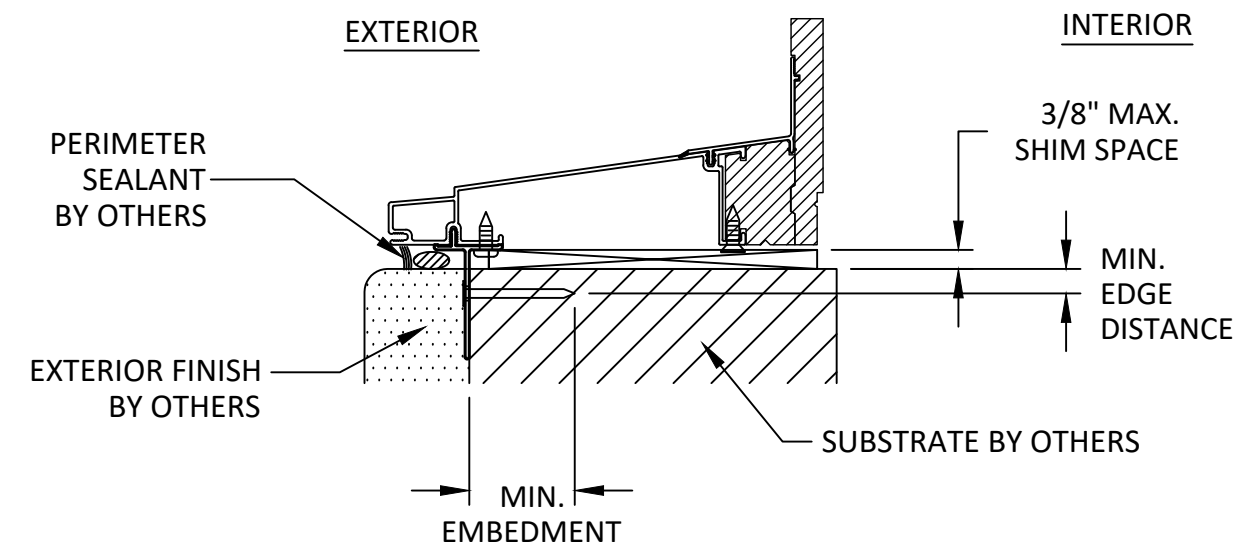
C
10
ANCHOR DETAILS
THROUGH ALUMINUM FIN
(HEAD AND SIDES ONLY)



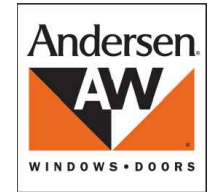
E
10
ANCHOR DETAILS
THROUGH VINYL FIN
(HEAD AND SIDES ONLY)



B
10
ANCHOR DETAILS
STRAP ANCHOR
(SILL, HEAD, AND SIDES)



D
10
ANCHOR DETAILS
THROUGH ALUMINUM FIN
SILL



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

TITLE: E-SERIES DOUBLE HUNG FULL FRAME WINDOW ANCHOR DETAILS
PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

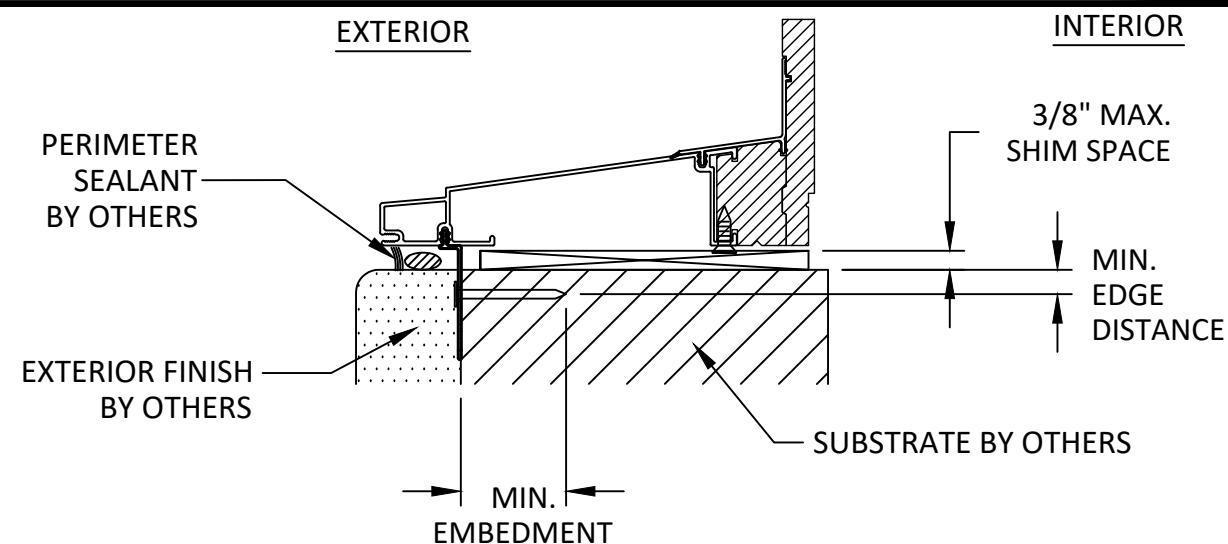
REMARKS	BY	DATE
6TH FBC EDITION	AG	10/17
VINYL FLANGE ADDITION	HR	12/14
ADDED ZERO, 1/2", 1" & 2" MULL	HR	4.12.19
ADDED 3/4" MULL & DP CHARTS	LL	7.31.19

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



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FLORIDA P.E. No. 73778
BUILDING DROPS, INC
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DANIA BEACH, FL 33004
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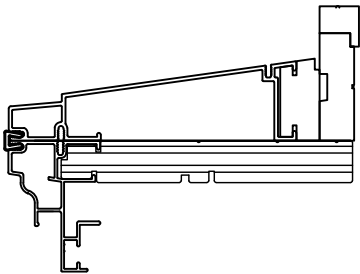
FL #:	FL24229
DATE:	10.09.17
DWG. BY:	AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD203
SHEET	10
	OF 31



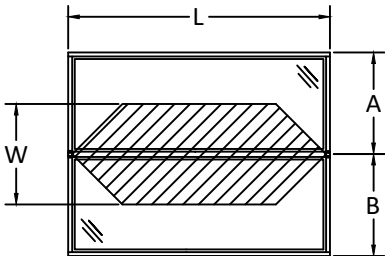
B 11 ANCHOR DETAILS THROUGH VINYL FIN SILL

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	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
36.0	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
42.0	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
48.0	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
54.0	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
60.0	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
66.0	70.00	70.00	66.86	62.40	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88
72.0	70.00	69.33	58.50	53.49	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00
78.0	70.00	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	70.00	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	70.00	52.00	42.55	37.44	34.67	33.43	33.28	33.28	33.28	33.28	33.28	33.28	33.28	33.28	33.28
96.0	66.86	48.00	39.00	34.04	31.20	29.71	29.25	29.25	29.25	29.25	29.25	29.25	29.25	29.25	29.25
102.0	62.40	44.57	36.00	31.20	28.12	25.98	24.97	24.84	24.84	24.84	24.84	24.84	24.84	24.84	24.84
108.0	58.50	40.73	31.65	26.52	23.43	21.58	20.60	20.27	20.27	20.27	20.27	20.27	20.27	20.27	20.27
114.0	50.51	34.47	26.69	22.25	19.53	17.84	16.86	16.40	16.33	16.33	16.33	16.33	16.33	16.33	16.33
120.0	43.23	29.43	22.72	18.87	16.47	14.94	13.99	13.48	13.30	13.30	13.30	13.30	13.30	13.30	13.30
126.0	37.28	25.33	19.51	16.14	14.02	12.65	11.76	11.23	10.98	10.94	10.94	10.94	10.94	10.94	10.94
132.0	32.38	21.97	16.88	13.92	12.05	10.81	9.99	9.47	9.19	9.08	9.08	9.08	9.08	9.08	9.08
138.0	28.30	19.17	14.70	12.10	10.43	9.32	8.57	8.07	7.77	7.63	7.60	7.60	7.60	7.60	7.60
144.0	24.88	16.84	12.89	10.58	9.10	8.10	7.41	6.95	6.64	6.47	6.41	6.41	6.41	6.41	6.41
150.0	22.00	14.86	11.36	9.31	7.98	7.09	6.46	6.02	5.73	5.55	5.46	5.45	5.45	5.45	5.45
156.0	19.54	13.19	10.07	8.23	7.05	6.24	5.67	5.26	4.98	4.80	4.69	4.66	4.66	4.66	4.66
162.0	17.43	11.76	8.96	7.32	6.25	5.52	5.00	4.63	4.36	4.18	4.07	4.01	4.00	4.00	4.00
168.0	15.62	10.53	8.02	6.54	5.57	4.91	4.44	4.09	3.85	3.67	3.55	3.49	3.46	3.46	3.46
174.0	14.05	9.46	7.20	5.86	4.99	4.39	3.96	3.64	3.41	3.24	3.12	3.05	3.01	3.01	3.01
180.0	12.69	8.54	6.49	5.28	4.49	3.94	3.54	3.25	3.04	2.88	2.76	2.69	2.64	2.63	2.63
186.0	11.49	7.73	5.87	4.77	4.05	3.55	3.19	2.92	2.72	2.57	2.46	2.38	2.33	2.31	2.30
192.0	10.44	7.02	5.33	4.32	3.67	3.21	2.88	2.63	2.44	2.30	2.20	2.12	2.07	2.04	2.03

- NOTE:**
- 1) MULLION CHART APPLIES TO ZERO MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEETS 10-11
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



**ZERO MULLION
HORIZONTAL TRANSOM**



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



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

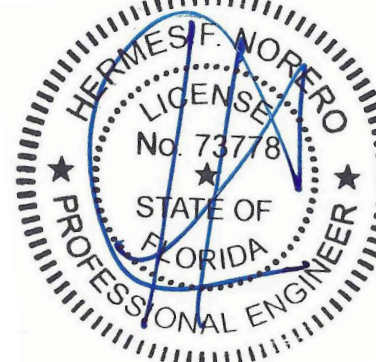
TITLE:
E-SERIES DOUBLE HUNG FULL
FRAME WINDOW
ZERO MULLION LOAD TABLES
ONE WAY

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 EDITION	AG	10/17
VINYL FLANGE ADDITION	HR	12/14
ADDED ZERO, 1/2", 1" & 2" MULL	HR	4.12.19
ADDED 3/4" MULL & DP CHARTS	LL	7.31.19

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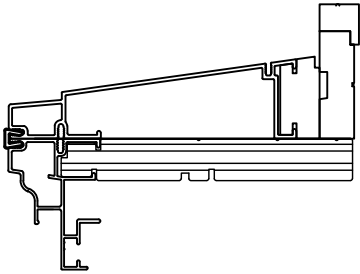


HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
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398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

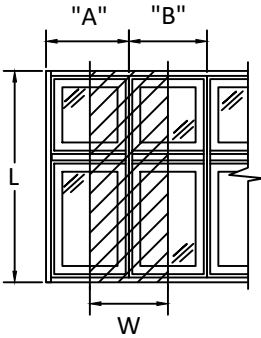
FL #:	FL24229
DATE:	10.09.17
DWG. BY:	AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD203
SHEET	12
	OF 31

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	70.00	70.00	70.00	70.00	70.00	70.00	70.00	68.44	61.60	56.00	51.33	47.38	44.00	41.07	38.50
30.0	70.00	70.00	70.00	70.00	70.00	70.00	61.60	54.76	49.28	44.80	41.07	37.91	35.20	32.85	30.80
36.0	70.00	70.00	70.00	70.00	68.44	58.67	51.33	45.63	41.07	37.33	34.22	31.59	29.33	27.38	25.67
42.0	70.00	70.00	70.00	70.00	58.67	50.29	44.00	39.11	35.20	32.00	29.33	27.08	25.14	23.47	22.00
48.0	70.00	70.00	70.00	61.60	51.33	44.00	38.50	34.22	30.80	28.00	25.67	23.69	22.00	20.53	19.25
54.0	70.00	70.00	68.44	54.76	45.63	39.11	34.22	30.42	27.38	24.89	22.81	21.06	19.56	18.25	17.11
60.0	70.00	70.00	61.60	49.28	41.07	35.20	30.80	27.38	24.64	22.40	20.53	18.95	17.60	16.43	15.40
66.0	70.00	70.00	56.00	44.80	37.33	32.00	28.00	24.89	22.40	20.36	18.67	17.23	16.00	14.93	14.00
72.0	70.00	68.44	51.33	41.07	34.22	29.33	25.67	22.81	20.53	18.67	17.11	15.79	14.67	13.69	12.83
78.0	70.00	63.18	47.38	37.91	31.59	27.08	23.69	21.06	18.95	17.23	15.79	14.58	13.54	12.64	11.85
84.0	70.00	58.67	44.00	35.20	29.33	25.14	22.00	19.56	17.60	16.00	14.67	13.54	12.57	11.73	11.00
90.0	70.00	54.76	41.07	32.85	27.38	23.47	20.53	18.25	16.43	14.93	13.69	12.64	11.73	10.95	10.27
96.0	70.00	51.33	38.50	30.80	25.67	22.00	19.25	17.11	15.40	14.00	12.83	11.85	11.00	10.27	9.63
102.0	69.30	46.20	34.65	27.72	23.10	19.80	17.33	15.40	13.86	12.60	11.55	10.66	9.90	9.24	8.66
108.0	58.38	38.92	29.19	23.35	19.46	16.68	14.60	12.97	11.68	10.61	9.73	8.98	8.34	7.78	7.30
114.0	49.64	33.09	24.82	19.86	16.55	14.18	12.41	11.03	9.93	9.03	8.27	7.64	7.09	6.62	6.21
120.0	42.56	28.37	21.28	17.02	14.19	12.16	10.64	9.46	8.51	7.74	7.09	6.55	6.08	5.67	5.32
126.0	36.77	24.51	18.38	14.71	12.26	10.50	9.19	8.17	7.35	6.68	6.13	5.66	5.25	4.90	4.60
132.0	31.98	21.32	15.99	12.79	10.66	9.14	7.99	7.11	6.40	5.81	5.33	4.92	4.57	4.26	4.00
138.0	27.98	18.66	13.99	11.19	9.33	8.00	7.00	6.22	5.60	5.09	4.66	4.31	4.00	3.73	3.50
144.0	24.63	16.42	12.31	9.85	8.21	7.04	6.16	5.47	4.93	4.48	4.10	3.79	3.52	3.28	3.08
150.0	21.79	14.53	10.90	8.72	7.26	6.23	5.45	4.84	4.36	3.96	3.63	3.35	3.11	2.91	2.72
156.0	19.37	12.91	9.69	7.75	6.46	5.53	4.84	4.30	3.87	3.52	3.23	2.98	2.77	2.58	2.42
162.0	17.30	11.53	8.65	6.92	5.77	4.94	4.32	3.84	3.46	3.15	2.88	2.66	2.47	2.31	2.16
168.0	15.51	10.34	7.76	6.20	5.17	4.43	3.88	3.45	3.10	2.82	2.59	2.39	2.22	2.07	1.94
174.0	13.96	9.31	6.98	5.58	4.65	3.99	3.49	3.10	2.79	2.54	2.33	2.15	1.99	1.86	1.75
180.0	12.61	8.41	6.31	5.04	4.20	3.60	3.15	2.80	2.52	2.29	2.10	1.94	1.80	1.68	1.58
186.0	11.43	7.62	5.71	4.57	3.81	3.27	2.86	2.54	2.29	2.08	1.90	1.76	1.63	1.52	1.43
192.0	10.39	6.93	5.20	4.16	3.46	2.97	2.60	2.31	2.08	1.89	1.73	1.60	1.48	1.39	1.30

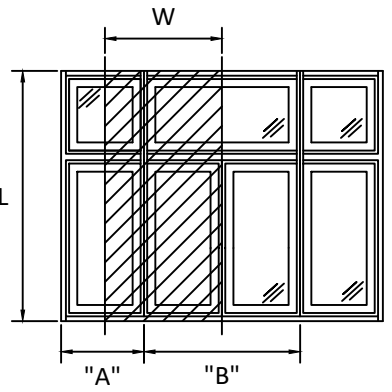
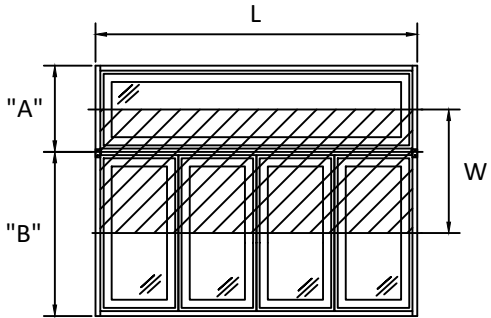
- NOTE:**
- 1) MULLION CHART APPLIES TO ZERO MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEETS 10-11
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



**ZERO MULLION
HORIZONTAL TRANSOM**



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



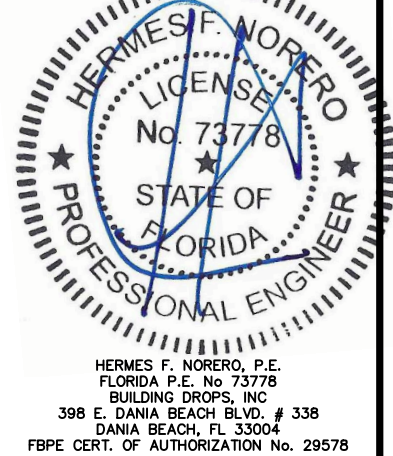
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE:
**E-SERIES DOUBLE HUNG FULL
FRAME WINDOW**
ZERO MULLION LOAD TABLES
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 EDITION	AG	10/17
VINYL FLANGE ADDITION	HR	12/14
ADDED ZERO MULL	HR	4.12.19
ADDED 3/4" MULL & DP CHARTS	LL	7.31.19

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

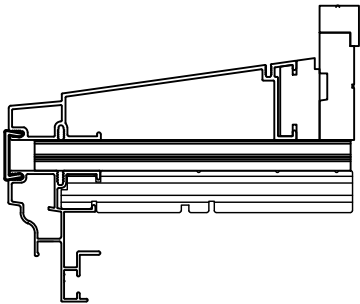


FL #:	FL24229
DATE:	10.09.17
DWG. BY:	AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD203
SHEET	13
	OF 31

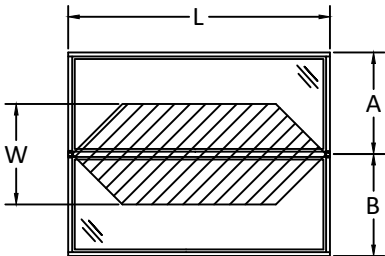
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1/2" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
30.0	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
36.0	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
42.0	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
48.0	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
54.0	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
60.0	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
66.0	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
72.0	70.00	70.00	70.00	70.00	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44
78.0	70.00	70.00	68.44	61.60	58.67	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32
84.0	70.00	70.00	61.60	54.76	51.33	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29
90.0	70.00	68.44	56.00	49.28	45.63	44.00	43.80	43.80	43.80	43.80	43.80	43.80	43.80	43.80	43.80
96.0	70.00	63.18	51.33	44.47	39.68	37.12	36.29	36.29	36.29	36.29	36.29	36.29	36.29	36.29	36.29
102.0	70.00	58.67	46.26	38.73	34.24	31.64	30.41	30.25	30.25	30.25	30.25	30.25	30.25	30.25	30.25
108.0	70.00	52.94	40.91	34.07	29.90	27.35	25.95	25.49	25.49	25.49	25.49	25.49	25.49	25.49	25.49
114.0	69.44	47.33	36.46	30.23	26.37	23.93	22.46	21.76	21.67	21.67	21.67	21.67	21.67	21.67	21.67
120.0	59.43	40.46	31.24	25.94	22.64	20.54	19.24	18.53	18.29	18.29	18.29	18.29	18.29	18.29	18.29
126.0	51.26	34.83	26.82	22.19	19.28	17.39	16.17	15.44	15.10	15.04	15.04	15.04	15.04	15.04	15.04
132.0	44.52	30.20	23.20	19.14	16.56	14.86	13.74	13.02	12.63	12.49	12.49	12.49	12.49	12.49	12.49
138.0	38.91	26.36	20.21	16.63	14.34	12.82	11.78	11.10	10.69	10.49	10.45	10.45	10.45	10.45	10.45
144.0	34.21	23.15	17.72	14.54	12.51	11.14	10.19	9.55	9.14	8.90	8.82	8.82	8.82	8.82	8.82
150.0	30.24	20.44	15.62	12.80	10.98	9.74	8.88	8.28	7.88	7.63	7.51	7.49	7.49	7.49	7.49
156.0	26.86	18.13	13.84	11.32	9.69	8.57	7.79	7.24	6.85	6.60	6.45	6.40	6.40	6.40	6.40
162.0	23.97	16.17	12.32	10.06	8.60	7.59	6.88	6.36	6.00	5.75	5.59	5.52	5.51	5.51	5.51
168.0	21.48	14.47	11.02	8.99	7.66	6.75	6.10	5.63	5.29	5.05	4.89	4.79	4.76	4.76	4.76
174.0	19.32	13.01	9.90	8.06	6.86	6.03	5.44	5.00	4.69	4.46	4.30	4.20	4.15	4.14	4.14
180.0	17.44	11.74	8.92	7.26	6.17	5.42	4.87	4.47	4.17	3.96	3.80	3.70	3.63	3.61	3.61
186.0	15.80	10.63	8.07	6.56	5.57	4.88	4.38	4.01	3.74	3.53	3.38	3.27	3.21	3.17	3.17
192.0	14.36	9.65	7.32	5.95	5.04	4.41	3.96	3.62	3.36	3.17	3.02	2.92	2.85	2.81	2.79

NOTE:

- 1) MULLION CHART APPLIES TO 1/2" MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEETS 10-11
- 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.



1/2" X 5 3/16" MULLION
HORIZONTAL TRANSOM



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



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

TITLE:
E-SERIES DOUBLE HUNG FULL
FRAME WINDOW
1/2" MULLION LOAD TABLES
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 EDITION	AG	10/17
VINYL FLANGE ADDITION	HR	12/14
ADDED 1/2" MULLION	HR	4.12.19
ADDED 3/4" MULL & DP CHARTS	LL	7.31.19

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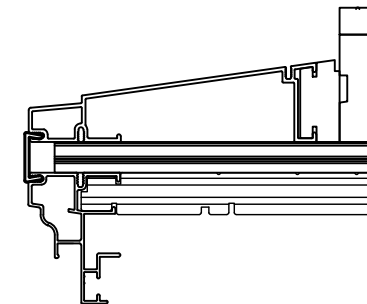
HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL24229
DATE:	10.09.17
DWG. BY:	AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD203
SHEET	14
	OF 31

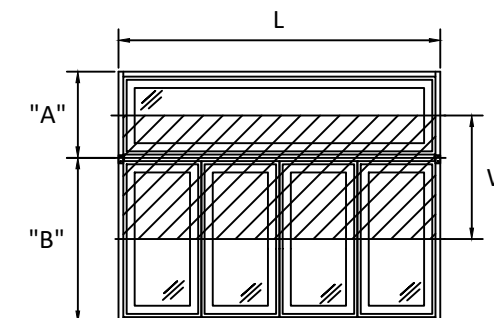
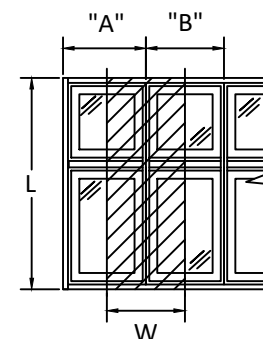
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1/2" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	70.00	70.00	70.00	68.44	61.60	56.00	51.33	47.38	44.00	41.07	38.50
30.0	70.00	70.00	70.00	70.00	70.00	70.00	61.60	54.76	49.28	44.80	41.07	37.91	35.20	32.85	30.80
36.0	70.00	70.00	70.00	70.00	68.44	58.67	51.33	45.63	41.07	37.33	34.22	31.59	29.33	27.38	25.67
42.0	70.00	70.00	70.00	70.00	58.67	50.29	44.00	39.11	35.20	32.00	29.33	27.08	25.14	23.47	22.00
48.0	70.00	70.00	70.00	61.60	51.33	44.00	38.50	34.22	30.80	28.00	25.67	23.69	22.00	20.53	19.25
54.0	70.00	70.00	68.44	54.76	45.63	39.11	34.22	30.42	27.38	24.89	22.81	21.06	19.56	18.25	17.11
60.0	70.00	70.00	61.60	49.28	41.07	35.20	30.80	27.38	24.64	22.40	20.53	18.95	17.60	16.43	15.40
66.0	70.00	70.00	56.00	44.80	37.33	32.00	28.00	24.89	22.40	20.36	18.67	17.23	16.00	14.93	14.00
72.0	70.00	68.44	51.33	41.07	34.22	29.33	25.67	22.81	20.53	18.67	17.11	15.79	14.67	13.69	12.83
78.0	70.00	63.18	47.38	37.91	31.59	27.08	23.69	21.06	18.95	17.23	15.79	14.58	13.54	12.64	11.85
84.0	70.00	58.67	44.00	35.20	29.33	25.14	22.00	19.56	17.60	16.00	14.67	13.54	12.57	11.73	11.00
90.0	70.00	54.76	41.07	32.85	27.38	23.47	20.53	18.25	16.43	14.93	13.69	12.64	11.73	10.95	10.27
96.0	70.00	51.33	38.50	30.80	25.67	22.00	19.25	17.11	15.40	14.00	12.83	11.85	11.00	10.27	9.63
102.0	70.00	48.31	36.24	28.99	24.16	20.71	18.12	16.10	14.49	13.18	12.08	11.15	10.35	9.66	9.06
108.0	68.44	45.63	34.22	27.38	22.81	19.56	17.11	15.21	13.69	12.44	11.41	10.53	9.78	9.13	8.56
114.0	64.84	43.23	32.42	25.94	21.61	18.53	16.21	14.41	12.97	11.79	10.81	9.98	9.26	8.65	8.11
120.0	58.51	39.01	29.26	23.41	19.50	16.72	14.63	13.00	11.70	10.64	9.75	9.00	8.36	7.80	7.31
126.0	50.55	33.70	25.27	20.22	16.85	14.44	12.64	11.23	10.11	9.19	8.42	7.78	7.22	6.74	6.32
132.0	43.96	29.31	21.98	17.59	14.65	12.56	10.99	9.77	8.79	7.99	7.33	6.76	6.28	5.86	5.50
138.0	38.47	25.65	19.24	15.39	12.82	10.99	9.62	8.55	7.69	7.00	6.41	5.92	5.50	5.13	4.81
144.0	33.86	22.57	16.93	13.54	11.29	9.67	8.47	7.52	6.77	6.16	5.64	5.21	4.84	4.51	4.23
150.0	29.96	19.97	14.98	11.98	9.99	8.56	7.49	6.66	5.99	5.45	4.99	4.61	4.28	3.99	3.74
156.0	26.63	17.76	13.32	10.65	8.88	7.61	6.66	5.92	5.33	4.84	4.44	4.10	3.80	3.55	3.33
162.0	23.78	15.86	11.89	9.51	7.93	6.80	5.95	5.29	4.76	4.32	3.96	3.66	3.40	3.17	2.97
168.0	21.32	14.22	10.66	8.53	7.11	6.09	5.33	4.74	4.26	3.88	3.55	3.28	3.05	2.84	2.67
174.0	19.19	12.80	9.60	7.68	6.40	5.48	4.80	4.27	3.84	3.49	3.20	2.95	2.74	2.56	2.40
180.0	17.34	11.56	8.67	6.94	5.78	4.95	4.33	3.85	3.47	3.15	2.89	2.67	2.48	2.31	2.17
186.0	15.71	10.48	7.86	6.29	5.24	4.49	3.93	3.49	3.14	2.86	2.62	2.42	2.24	2.10	1.96
192.0	14.29	9.52	7.14	5.71	4.76	4.08	3.57	3.17	2.86	2.60	2.38	2.20	2.04	1.90	1.79

NOTE:

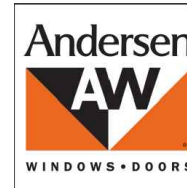
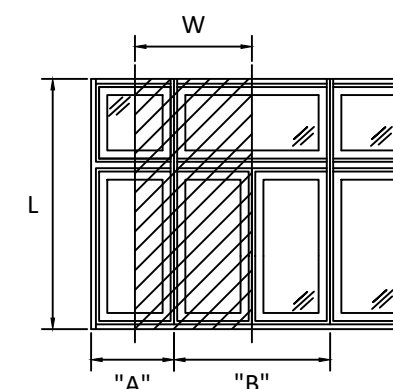
- 1) MULLION CHART APPLIES TO 1/2" MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEETS 10-11
- 6) $\text{TRIBUTARY WIDTH} = W = (A+B)/2$
- 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.



1/2" X 5 3/16" MULLION
HORIZONTAL TRANSOM



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



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

TITLE:
***E-SERIES DOUBLE HUNG FULL
FRAME WINDOW***
**1/2" MULLION LOAD TABLES
TWO WAY**

PREPARED BY:



BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33094
PH: (954)395-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
6TH FBC EDITION	AG	10/17
VINYL FLANGE ADDITION	HR	12/14
ADDED 1/2", 1 1/2" & 2" MULL	HR	4.12.19
ADDED 3/4" 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 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 #: **FL24229**

DATE: 10.09.17

DWG. BY: AG	CHK. BY: HFN
-----------------------	------------------------

SCALE: NTS

DWG. #: AWD203

SHEET

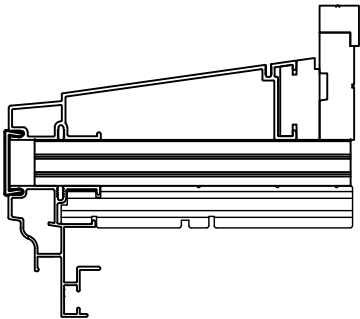
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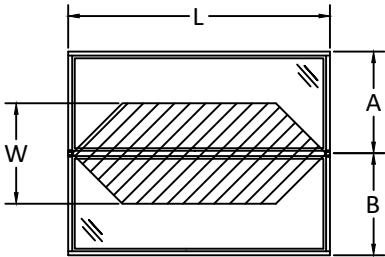
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)																
3/4" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION																
L - Mull Length (in)	W - Tributary Width (in)															
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0	
24.0	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
30.0	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	70.00
36.0	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	70.00
42.0	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	70.00
48.0	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	70.00
54.0	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	70.00
60.0	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	70.00
66.0	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	70.00
72.0	70.00	70.00	70.00	70.00	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44
78.0	70.00	70.00	68.44	61.60	58.67	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32
84.0	70.00	70.00	61.60	54.76	51.33	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29
90.0	70.00	68.44	56.00	49.28	45.63	44.00	43.80	43.80	43.80	43.80	43.80	43.80	43.80	43.80	43.80	43.80
96.0	70.00	63.18	51.33	44.80	41.07	39.11	38.50	38.50	38.50	38.50	38.50	38.50	38.50	38.50	38.50	38.50
102.0	70.00	58.67	47.38	41.07	37.33	35.20	34.22	34.10	34.10	34.10	34.10	34.10	34.10	34.10	34.10	34.10
108.0	70.00	54.76	44.00	37.91	33.98	31.08	29.49	28.96	28.96	28.96	28.96	28.96	28.96	28.96	28.96	28.96
114.0	70.00	51.33	41.07	34.35	29.96	27.19	25.52	24.73	24.62	24.62	24.62	24.62	24.62	24.62	24.62	24.62
120.0	67.53	45.98	35.50	29.47	25.73	23.34	21.86	21.06	20.78	20.78	20.78	20.78	20.78	20.78	20.78	20.78
126.0	58.24	39.58	30.48	25.22	21.91	19.76	18.37	17.55	17.15	17.09	17.09	17.09	17.09	17.09	17.09	17.09
132.0	50.59	34.32	26.37	21.75	18.82	16.89	15.61	14.80	14.35	14.19	14.19	14.19	14.19	14.19	14.19	14.19
138.0	44.22	29.95	22.97	18.90	16.30	14.56	13.39	12.62	12.14	11.92	11.88	11.88	11.88	11.88	11.88	11.88
144.0	38.88	26.30	20.13	16.53	14.21	12.65	11.58	10.85	10.38	10.12	10.02	10.02	10.02	10.02	10.02	10.02
150.0	34.36	23.22	17.75	14.54	12.47	11.07	10.09	9.41	8.95	8.67	8.53	8.51	8.51	8.51	8.51	8.51
156.0	30.52	20.61	15.73	12.86	11.01	9.74	8.85	8.22	7.79	7.50	7.33	7.28	7.28	7.28	7.28	7.28
162.0	27.24	18.37	14.00	11.43	9.77	8.62	7.81	7.23	6.82	6.53	6.36	6.27	6.26	6.26	6.26	6.26
168.0	24.41	16.45	12.52	10.21	8.71	7.67	6.93	6.40	6.01	5.73	5.55	5.45	5.41	5.41	5.41	5.41
174.0	21.95	14.78	11.25	9.16	7.80	6.86	6.18	5.69	5.32	5.06	4.88	4.77	4.71	4.70	4.70	4.70
180.0	19.82	13.34	10.14	8.25	7.01	6.15	5.54	5.08	4.74	4.50	4.32	4.20	4.13	4.10	4.10	4.10
186.0	17.96	12.08	9.17	7.45	6.33	5.55	4.98	4.56	4.25	4.01	3.84	3.72	3.64	3.61	3.61	3.60
192.0	16.32	10.97	8.32	6.76	5.73	5.02	4.50	4.11	3.82	3.60	3.43	3.32	3.24	3.19	3.17	3.17

NOTE:

- 1) MULLION CHART APPLIES TO 3/4" MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEETS 10-11
- 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" MULLION
HORIZONTAL TRANSOM



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



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

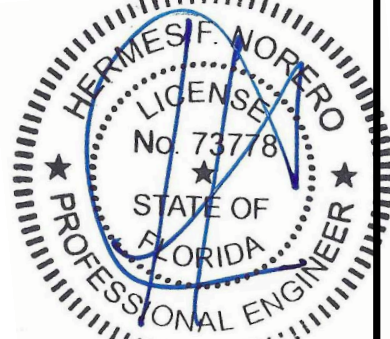
TITLE:
E-SERIES DOUBLE HUNG FULL
FRAME WINDOW
3/4" MULLION LOAD TABLES
ONE WAY

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 EDITION	AG	10/17
VINYL FLANGE ADDITION	HR	12/14
ADDED ZERO, 1/2", 1" & 2" MULL	HR	4.12.19
ADDED 3/4" MULL & DP CHARTS	LL	7.31.19

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



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

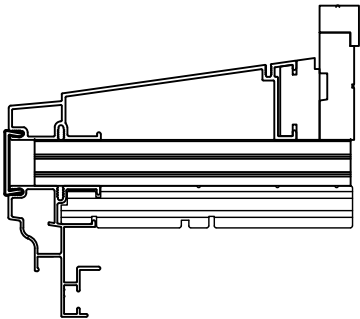
FL #:	FL24229
DATE:	10.09.17
DWG. BY:	AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD203

SHEET
16
OF 31

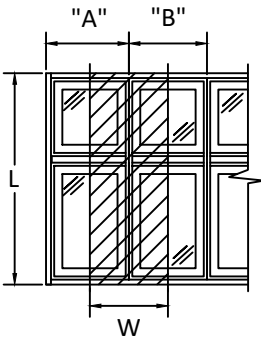
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
3/4" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	70.00	70.00	70.00	68.44	61.60	56.00	51.33	47.38	44.00	41.07	38.50
30.0	70.00	70.00	70.00	70.00	70.00	70.00	61.60	54.76	49.28	44.80	41.07	37.91	35.20	32.85	30.80
36.0	70.00	70.00	70.00	70.00	68.44	58.67	51.33	45.63	41.07	37.33	34.22	31.59	29.33	27.38	25.67
42.0	70.00	70.00	70.00	62.81	52.34	44.86	39.26	34.89	31.40	28.55	26.17	24.16	22.43	20.94	19.63
48.0	70.00	70.00	60.11	48.09	40.07	34.35	30.05	26.72	24.04	21.86	20.04	18.50	17.17	16.03	15.03
54.0	70.00	63.33	47.49	38.00	31.66	27.14	23.75	21.11	19.00	17.27	15.83	14.61	13.57	12.67	11.87
60.0	70.00	51.29	38.47	30.78	25.65	21.98	19.24	17.10	15.39	13.99	12.82	11.84	10.99	10.26	9.62
66.0	63.59	42.39	31.79	25.43	21.20	18.17	15.90	14.13	12.72	11.56	10.60	9.78	9.08	8.48	7.95
72.0	53.43	35.62	26.72	21.37	17.81	15.27	13.36	11.87	10.69	9.71	8.91	8.22	7.63	7.12	6.68
78.0	45.53	30.35	22.76	18.21	15.18	13.01	11.38	10.12	9.11	8.28	7.59	7.00	6.50	6.07	5.69
84.0	39.26	26.17	19.63	15.70	13.09	11.22	9.81	8.72	7.85	7.14	6.54	6.04	5.61	5.23	4.91
90.0	34.20	22.80	17.10	13.68	11.40	9.77	8.55	7.60	6.84	6.22	5.70	5.26	4.89	4.56	4.27
96.0	30.05	20.04	15.03	12.02	10.02	8.59	7.51	6.68	6.01	5.46	5.01	4.62	4.29	4.01	3.76
102.0	26.62	17.75	13.31	10.65	8.87	7.61	6.66	5.92	5.32	4.84	4.44	4.10	3.80	3.55	3.33
108.0	23.75	15.83	11.87	9.50	7.92	6.78	5.94	5.28	4.75	4.32	3.96	3.65	3.39	3.17	2.97
114.0	21.31	14.21	10.66	8.53	7.10	6.09	5.33	4.74	4.26	3.88	3.55	3.28	3.04	2.84	2.66
120.0	19.24	12.82	9.62	7.69	6.41	5.50	4.81	4.27	3.85	3.50	3.21	2.96	2.75	2.56	2.40
126.0	17.45	11.63	8.72	6.98	5.82	4.98	4.36	3.88	3.49	3.17	2.91	2.68	2.49	2.33	2.18
132.0	15.90	10.60	7.95	6.36	5.30	4.54	3.97	3.53	3.18	2.89	2.65	2.45	2.27	2.12	1.99
138.0	14.54	9.70	7.27	5.82	4.85	4.16	3.64	3.23	2.91	2.64	2.42	2.24	2.08	1.94	1.82
144.0	13.36	8.91	6.68	5.34	4.45	3.82	3.34	2.97	2.67	2.43	2.23	2.06	1.91	1.78	1.67
150.0	12.31	8.21	6.16	4.92	4.10	3.52	3.08	2.74	2.46	2.24	2.05	1.89	1.76	1.64	1.54
156.0	11.38	7.59	5.69	4.55	3.79	3.25	2.85	2.53	2.28	2.07	1.90	1.75	1.63	1.52	1.42
162.0	10.55	7.04	5.28	4.22	3.52	3.02	2.64	2.35	2.11	1.92	1.76	1.62	1.51	1.41	1.32
168.0	9.81	6.54	4.91	3.93	3.27	2.80	2.45	2.18	1.96	1.78	1.64	1.51	1.40	1.31	1.23
174.0	9.15	6.10	4.57	3.66	3.05	2.61	2.29	2.03	1.83	1.66	1.52	1.41	1.31	1.22	1.14
180.0	8.55	5.70	4.27	3.42	2.85	2.44	2.14	1.90	1.71	1.55	1.42	1.32	1.22	1.14	1.07
186.0	8.01	5.34	4.00	3.20	2.67	2.29	2.00	1.78	1.60	1.46	1.33	1.23	1.14	1.07	1.00
192.0	7.51	5.01	3.76	3.01	2.50	2.15	1.88	1.67	1.50	1.37	1.25	1.16	1.07	1.00	0.94

NOTE:

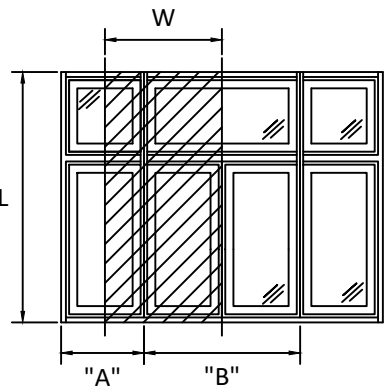
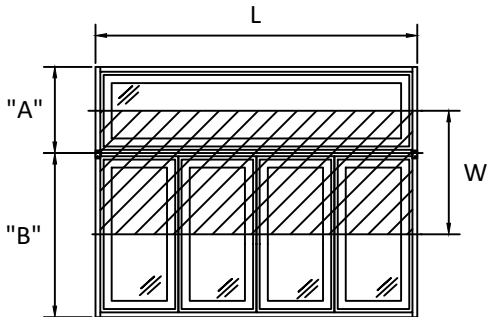
- 1) MULLION CHART APPLIES TO 3/4" MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEETS 10-11
- 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" MULLION
HORIZONTAL TRANSOM



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



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

TITLE:
E-SERIES DOUBLE HUNG FULL
FRAME WINDOW
3/4" MULLION LOAD TABLES
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 EDITION	AG	10/17
VINYL FLANGE ADDITION	HR	12/14
ADDED 2012 FBC 12" MULL	HR	4.12.19
ADDED 3/4" MULL & DP CHARTS	LL	7.31.19

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



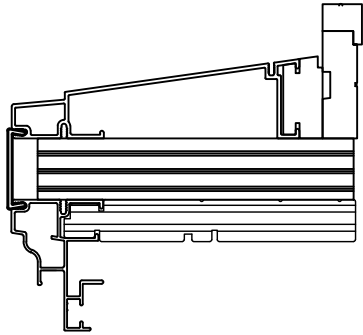
HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL24229
DATE:	10.09.17
DWG. BY:	AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD203
SHEET	17

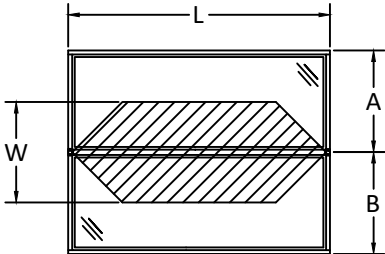
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
30.0	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
36.0	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
42.0	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
48.0	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
54.0	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
60.0	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
66.0	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
72.0	70.00	70.00	70.00	70.00	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44
78.0	70.00	70.00	68.44	61.60	58.67	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32
84.0	70.00	70.00	61.60	54.76	51.33	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29
90.0	70.00	68.44	56.00	49.28	45.63	44.00	43.80	43.80	43.80	43.80	43.80	43.80	43.80	43.80	43.80
96.0	70.00	63.18	51.33	44.80	41.07	39.11	38.50	38.50	38.50	38.50	38.50	38.50	38.50	38.50	38.50
102.0	70.00	58.67	47.38	41.07	37.33	35.20	34.22	34.10	34.10	34.10	34.10	34.10	34.10	34.10	34.10
108.0	70.00	54.76	44.00	37.91	34.22	32.00	30.80	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42
114.0	70.00	51.33	41.07	35.20	31.59	29.33	28.00	27.38	27.30	27.30	27.30	27.30	27.30	27.30	27.30
120.0	68.44	48.31	38.50	32.85	28.81	26.14	24.48	23.58	23.27	23.27	23.27	23.27	23.27	23.27	23.27
126.0	64.84	44.33	34.13	28.24	24.54	22.13	20.58	19.65	19.21	19.15	19.15	19.15	19.15	19.15	19.15
132.0	56.66	38.44	29.53	24.36	21.08	18.92	17.48	16.58	16.07	15.89	15.89	15.89	15.89	15.89	15.89
138.0	49.52	33.55	25.72	21.16	18.25	16.31	15.00	14.13	13.60	13.35	13.31	13.31	13.31	13.31	13.31
144.0	43.54	29.46	22.55	18.51	15.92	14.17	12.97	12.15	11.63	11.33	11.22	11.22	11.22	11.22	11.22
150.0	38.49	26.01	19.88	16.28	13.97	12.40	11.30	10.54	10.03	9.71	9.56	9.53	9.53	9.53	9.53
156.0	34.19	23.08	17.61	14.40	12.33	10.91	9.91	9.21	8.72	8.40	8.21	8.15	8.15	8.15	8.15
162.0	30.50	20.58	15.68	12.81	10.94	9.66	8.75	8.10	7.63	7.32	7.12	7.02	7.01	7.01	7.01
168.0	27.33	18.42	14.03	11.44	9.75	8.59	7.76	7.16	6.73	6.42	6.22	6.10	6.06	6.06	6.06
174.0	24.59	16.56	12.59	10.26	8.73	7.68	6.92	6.37	5.96	5.67	5.47	5.34	5.28	5.26	5.26
180.0	22.20	14.94	11.35	9.24	7.85	6.89	6.20	5.69	5.31	5.03	4.84	4.70	4.63	4.60	4.60
186.0	20.11	13.53	10.27	8.35	7.09	6.21	5.58	5.11	4.76	4.49	4.30	4.17	4.08	4.04	4.03
192.0	18.27	12.28	9.32	7.57	6.42	5.62	5.04	4.60	4.28	4.03	3.85	3.71	3.62	3.57	3.55

NOTE:

- 1) MULLION CHART APPLIES TO 1" MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
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- 6) TRIBUTARY WIDTH = $W = (A+B)/2$
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1" X 5 3/16" MULLION
HORIZONTAL TRANSOM



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



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

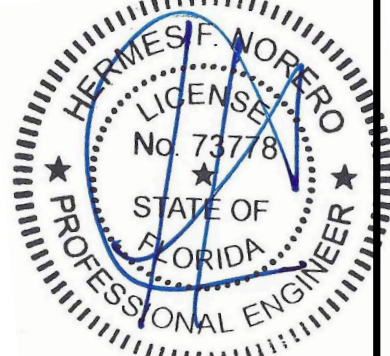
TITLE:
E-SERIES DOUBLE HUNG FULL
FRAME WINDOW
1" MULLION LOAD TABLES
ONE WAY

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 EDITION	AG	10/17
VINYL FLANGE ADDITION	HR	12/14
ADDED ZERO, 1/2", 1" & 2" MULL	HR	4.12.19
ADDED 3/4" MULL & DP CHARTS	LL	7.31.19

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



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

FL #:	FL24229
DATE:	10.09.17
DWG. BY:	CHK. BY:
AG	HFN
SCALE:	NTS
DWG. #:	AWD203
SHEET	

18

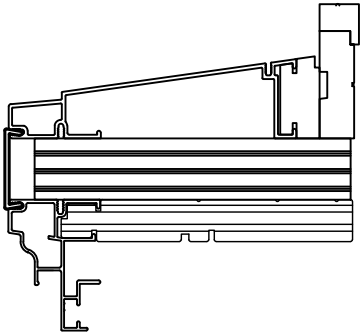
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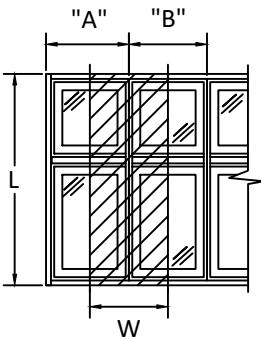
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	70.00	70.00	70.00	68.44	61.60	56.00	51.33	47.38	44.00	41.07	38.50
30.0	70.00	70.00	70.00	70.00	70.00	70.00	61.60	54.76	49.28	44.80	41.07	37.91	35.20	32.85	30.80
36.0	70.00	70.00	70.00	70.00	68.44	58.67	51.33	45.63	41.07	37.33	34.22	31.59	29.33	27.38	25.67
42.0	70.00	70.00	70.00	70.00	58.67	50.29	44.00	39.11	35.20	32.00	29.33	27.08	25.14	23.47	22.00
48.0	70.00	70.00	70.00	61.60	51.33	44.00	38.50	34.22	30.80	28.00	25.67	23.69	22.00	20.53	19.25
54.0	70.00	70.00	68.44	54.76	45.63	39.11	34.22	30.42	27.38	24.89	22.81	21.06	19.56	18.25	17.11
60.0	70.00	70.00	61.60	49.28	41.07	35.20	30.80	27.38	24.64	22.40	20.53	18.95	17.60	16.43	15.40
66.0	70.00	68.65	51.49	41.19	34.33	29.42	25.75	22.88	20.60	18.72	17.16	15.84	14.71	13.73	12.87
72.0	70.00	57.69	43.27	34.61	28.84	24.72	21.63	19.23	17.31	15.73	14.42	13.31	12.36	11.54	10.82
78.0	70.00	49.16	36.87	29.49	24.58	21.07	18.43	16.39	14.75	13.41	12.29	11.34	10.53	9.83	9.22
84.0	62.28	41.52	31.14	24.91	20.76	17.79	15.57	13.84	12.46	11.32	10.38	9.58	8.90	8.30	7.78
90.0	50.63	33.76	25.32	20.25	16.88	14.47	12.66	11.25	10.13	9.21	8.44	7.79	7.23	6.75	6.33
96.0	41.72	27.81	20.86	16.69	13.91	11.92	10.43	9.27	8.34	7.59	6.95	6.42	5.96	5.56	5.22
102.0	34.78	23.19	17.39	13.91	11.59	9.94	8.70	7.73	6.96	6.32	5.80	5.35	4.97	4.64	4.35
108.0	29.30	19.53	14.65	11.72	9.77	8.37	7.33	6.51	5.86	5.33	4.88	4.51	4.19	3.91	3.66
114.0	24.91	16.61	12.46	9.97	8.30	7.12	6.23	5.54	4.98	4.53	4.15	3.83	3.56	3.32	3.11
120.0	21.36	14.24	10.68	8.54	7.12	6.10	5.34	4.75	4.27	3.88	3.56	3.29	3.05	2.85	2.67
126.0	18.45	12.30	9.23	7.38	6.15	5.27	4.61	4.10	3.69	3.36	3.08	2.84	2.64	2.46	2.31
132.0	16.05	10.70	8.02	6.42	5.35	4.59	4.01	3.57	3.21	2.92	2.67	2.47	2.29	2.14	2.01
138.0	14.05	9.36	7.02	5.62	4.68	4.01	3.51	3.12	2.81	2.55	2.34	2.16	2.01	1.87	1.76
144.0	12.36	8.24	6.18	4.94	4.12	3.53	3.09	2.75	2.47	2.25	2.06	1.90	1.77	1.65	1.55
150.0	10.94	7.29	5.47	4.37	3.65	3.12	2.73	2.43	2.19	1.99	1.82	1.68	1.56	1.46	1.37
156.0	9.72	6.48	4.86	3.89	3.24	2.78	2.43	2.16	1.94	1.77	1.62	1.50	1.39	1.30	1.22
162.0	8.68	5.79	4.34	3.47	2.89	2.48	2.17	1.93	1.74	1.58	1.45	1.34	1.24	1.16	1.09
168.0	7.78	5.19	3.89	3.11	2.59	2.22	1.95	1.73	1.56	1.42	1.30	1.20	1.11	1.04	0.97
174.0	7.01	4.67	3.50	2.80	2.34	2.00	1.75	1.56	1.40	1.27	1.17	1.08	1.00	0.93	0.88
180.0	6.33	4.22	3.16	2.53	2.11	1.81	1.58	1.41	1.27	1.15	1.05	0.97	0.90	0.84	0.79
186.0	5.74	3.82	2.87	2.29	1.91	1.64	1.43	1.27	1.15	1.04	0.96	0.88	0.82	0.76	0.72
192.0	5.22	3.48	2.61	2.09	1.74	1.49	1.30	1.16	1.04	0.95	0.87	0.80	0.75	0.70	0.65

NOTE:

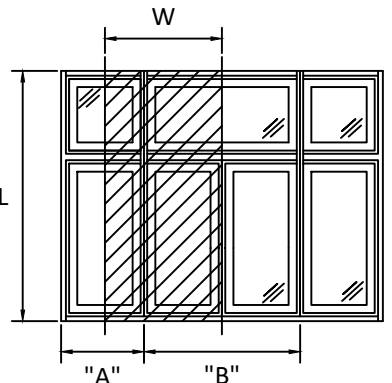
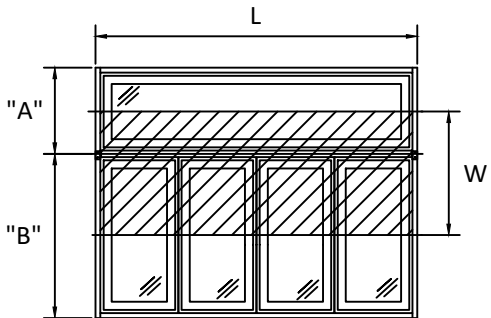
- 1) MULLION CHART APPLIES TO 1" MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEETS 10-11
- 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" MULLION
HORIZONTAL TRANSOM



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



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

TITLE:
E-SERIES DOUBLE HUNG FULL
FRAME WINDOW
1" MULLION LOAD TABLES
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 EDITION	AG	10/17
VINYL FLANGE ADDITION	HR	12/14
ADDED 2000 1/2" MULL	HR	4.12.19
ADDED 3/4" MULL & DP CHARTS	LL	7.31.19

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

FL #:	FL24229
DATE:	10.09.17
DWG. BY:	AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD203

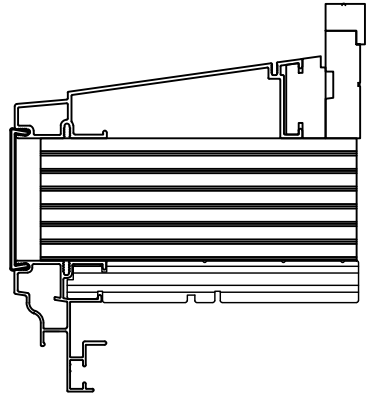
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OF 31

s:\projects\andersen windows\lbc-19-0548.2 - fbc submittal - e-series mullion revisions\dwgs\l74229.1 & .3\2018-12-05-awd203 - fl0239 5 6 7 8.dwg 8/15/2019 3:40 PM

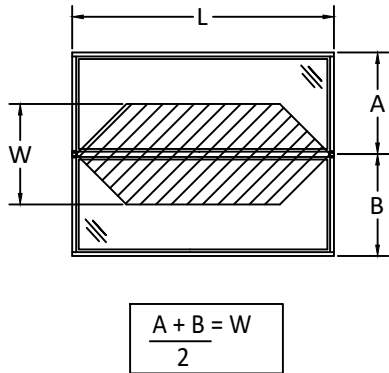
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
2" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
30.0	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
36.0	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
42.0	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
48.0	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
54.0	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
60.0	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
66.0	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
72.0	70.00	70.00	70.00	70.00	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44
78.0	70.00	70.00	68.44	61.60	58.67	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32
84.0	70.00	70.00	61.60	54.76	51.33	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29
90.0	70.00	68.44	56.00	49.28	45.63	44.00	43.80	43.80	43.80	43.80	43.80	43.80	43.80	43.80	43.80
96.0	70.00	63.18	51.33	44.80	41.07	39.11	38.50	38.50	38.50	38.50	38.50	38.50	38.50	38.50	38.50
102.0	70.00	58.67	47.38	41.07	37.33	35.20	34.22	34.10	34.10	34.10	34.10	34.10	34.10	34.10	34.10
108.0	70.00	54.76	44.00	37.91	34.22	32.00	30.80	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42
114.0	70.00	51.33	41.07	35.20	31.59	29.33	28.00	27.38	27.30	27.30	27.30	27.30	27.30	27.30	27.30
120.0	68.44	48.31	38.50	32.85	29.33	27.08	25.67	24.89	24.64	24.64	24.64	24.64	24.64	24.64	24.64
126.0	64.84	45.63	36.24	30.80	27.38	25.14	23.69	22.81	22.40	22.35	22.35	22.35	22.35	22.35	22.35
132.0	61.60	43.23	34.22	28.99	25.67	23.47	22.00	21.06	20.53	20.36	20.36	20.36	20.36	20.36	20.36
138.0	58.67	41.07	32.42	27.38	24.16	22.00	20.53	19.56	18.95	18.67	18.63	18.63	18.63	18.63	18.63
144.0	56.00	39.11	30.80	25.94	22.74	20.24	18.53	17.36	16.61	16.18	16.03	16.03	16.03	16.03	16.03
150.0	53.57	37.15	28.39	23.26	19.96	17.71	16.15	15.06	14.33	13.87	13.65	13.62	13.62	13.62	13.62
156.0	48.83	32.97	25.16	20.58	17.61	15.59	14.16	13.15	12.45	12.00	11.73	11.64	11.64	11.64	11.64
162.0	43.58	29.39	22.40	18.29	15.63	13.80	12.50	11.57	10.91	10.45	10.17	10.03	10.01	10.01	10.01
168.0	39.05	26.31	20.04	16.34	13.93	12.27	11.09	10.23	9.61	9.17	8.88	8.72	8.65	8.65	8.65
174.0	35.12	23.65	17.99	14.65	12.48	10.97	9.89	9.10	8.52	8.10	7.81	7.63	7.54	7.52	7.52
180.0	31.71	21.34	16.22	13.19	11.22	9.85	8.86	8.13	7.59	7.19	6.91	6.72	6.61	6.57	6.57
186.0	28.73	19.32	14.67	11.92	10.12	8.87	7.97	7.30	6.79	6.42	6.14	5.95	5.83	5.77	5.76
192.0	26.10	17.55	13.31	10.81	9.17	8.03	7.19	6.58	6.11	5.76	5.49	5.30	5.18	5.10	5.07

NOTE:

- 1) MULLION CHART APPLIES TO 2" MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEETS 10-11
- 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" MULLION
HORIZONTAL TRANSOM



Andersen

AW

WINDOWS • DOORS

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

TITLE:
E-SERIES DOUBLE HUNG FULL
FRAME WINDOW
2" MULLION LOAD TABLES
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 EDITION

AG

10/17

VINYL FLANGE ADDITION

HR

12/14

ADDED ZERO, 1/2", 1" & 2" MULL

HR

4.12.19

ADDED 3/4" MULL & DP CHARTS

LL

7.31.19

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HERMES F. NORERO

LICENSE

No. 73778

STATE OF FLORIDA

PROFESSIONAL ENGINEER

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 #:

FL24229

DATE:

10.09.17

DWG. BY:

AG

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

AWD203

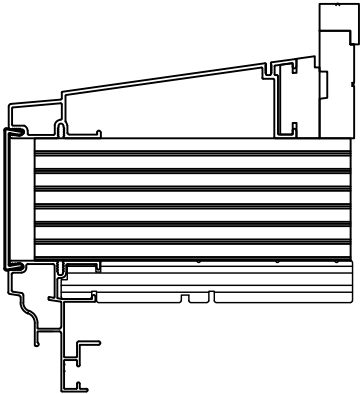
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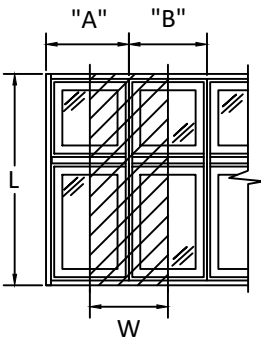
OF 31

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
2" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	70.00	70.00	70.00	68.44	61.60	56.00	51.33	47.38	44.00	41.07	38.50
30.0	70.00	70.00	70.00	70.00	70.00	70.00	61.60	54.76	49.28	44.80	41.07	37.91	35.20	32.85	30.80
36.0	70.00	70.00	70.00	70.00	68.44	58.67	51.33	45.63	41.07	37.33	34.22	31.59	29.33	27.38	25.67
42.0	70.00	70.00	70.00	70.00	58.67	50.29	44.00	39.11	35.20	32.00	29.33	27.08	25.14	23.47	22.00
48.0	70.00	70.00	70.00	61.60	51.33	44.00	38.50	34.22	30.80	28.00	25.67	23.69	22.00	20.53	19.25
54.0	70.00	70.00	68.44	54.76	45.63	39.11	34.22	30.42	27.38	24.89	22.81	21.06	19.56	18.25	17.11
60.0	70.00	70.00	61.60	49.28	41.07	35.20	30.80	27.38	24.64	22.40	20.53	18.95	17.60	16.43	15.40
66.0	70.00	70.00	56.00	44.80	37.33	32.00	28.00	24.89	22.40	20.36	18.67	17.23	16.00	14.93	14.00
72.0	70.00	68.44	51.33	41.07	34.22	29.33	25.67	22.81	20.53	18.67	17.11	15.79	14.67	13.69	12.83
78.0	70.00	63.18	47.38	37.91	31.59	27.08	23.69	21.06	18.95	17.23	15.79	14.58	13.54	12.64	11.85
84.0	70.00	58.67	44.00	35.20	29.33	25.14	22.00	19.56	17.60	16.00	14.67	13.54	12.57	11.73	11.00
90.0	70.00	54.76	41.07	32.85	27.38	23.47	20.53	18.25	16.43	14.93	13.69	12.64	11.73	10.95	10.27
96.0	70.00	46.85	35.14	28.11	23.43	20.08	17.57	15.62	14.06	12.78	11.71	10.81	10.04	9.37	8.78
102.0	58.59	39.06	29.29	23.44	19.53	16.74	14.65	13.02	11.72	10.65	9.76	9.01	8.37	7.81	7.32
108.0	49.36	32.90	24.68	19.74	16.45	14.10	12.34	10.97	9.87	8.97	8.23	7.59	7.05	6.58	6.17
114.0	41.97	27.98	20.98	16.79	13.99	11.99	10.49	9.33	8.39	7.63	6.99	6.46	6.00	5.60	5.25
120.0	35.98	23.99	17.99	14.39	11.99	10.28	9.00	8.00	7.20	6.54	6.00	5.54	5.14	4.80	4.50
126.0	31.08	20.72	15.54	12.43	10.36	8.88	7.77	6.91	6.22	5.65	5.18	4.78	4.44	4.14	3.89
132.0	27.03	18.02	13.52	10.81	9.01	7.72	6.76	6.01	5.41	4.92	4.51	4.16	3.86	3.60	3.38
138.0	23.66	15.77	11.83	9.46	7.89	6.76	5.91	5.26	4.73	4.30	3.94	3.64	3.38	3.15	2.96
144.0	20.82	13.88	10.41	8.33	6.94	5.95	5.21	4.63	4.16	3.79	3.47	3.20	2.97	2.78	2.60
150.0	18.42	12.28	9.21	7.37	6.14	5.26	4.61	4.09	3.68	3.35	3.07	2.83	2.63	2.46	2.30
156.0	16.38	10.92	8.19	6.55	5.46	4.68	4.09	3.64	3.28	2.98	2.73	2.52	2.34	2.18	2.05
162.0	14.62	9.75	7.31	5.85	4.87	4.18	3.66	3.25	2.92	2.66	2.44	2.25	2.09	1.95	1.83
168.0	13.11	8.74	6.56	5.25	4.37	3.75	3.28	2.91	2.62	2.38	2.19	2.02	1.87	1.75	1.64
174.0	11.80	7.87	5.90	4.72	3.93	3.37	2.95	2.62	2.36	2.15	1.97	1.82	1.69	1.57	1.48
180.0	10.66	7.11	5.33	4.26	3.55	3.05	2.67	2.37	2.13	1.94	1.78	1.64	1.52	1.42	1.33
186.0	9.66	6.44	4.83	3.86	3.22	2.76	2.42	2.15	1.93	1.76	1.61	1.49	1.38	1.29	1.21
192.0	8.78	5.86	4.39	3.51	2.93	2.51	2.20	1.95	1.76	1.60	1.46	1.35	1.25	1.17	1.10

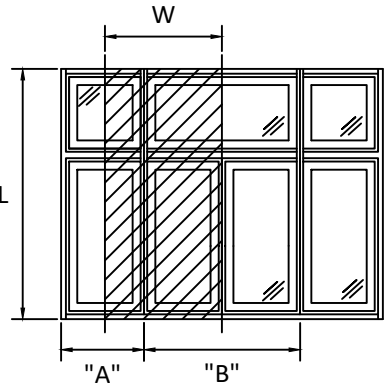
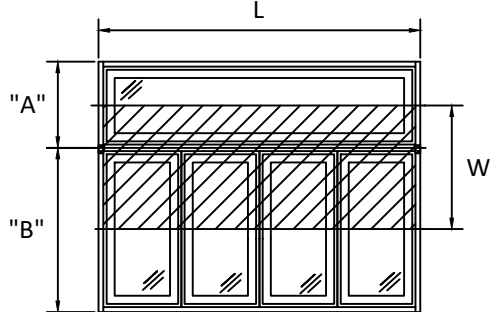
- NOTE:**
- 1) MULLION CHART APPLIES TO 2" MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEETS 10-11
 - 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" MULLION
HORIZONTAL TRANSOM



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



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

TITLE:
E-SERIES DOUBLE HUNG FULL
FRAME WINDOW
2" MULLION LOAD TABLES
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 EDITION	AG	10/17
VINYL FLANGE ADDITION	HR	12/14
ADDED ZERO, 1/2", 1" & 2" MULL	HR	4.12.19
ADDED 3/4" MULL & DP CHARTS	LL	7.31.19

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



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

FL #: **FL24229**

DATE: **10.09.17**

DWG. BY: **AG** CHK. BY: **HFN**

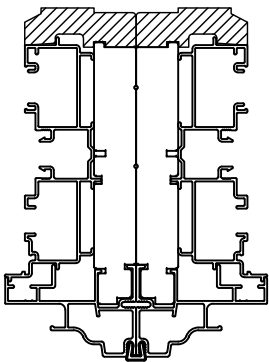
SCALE: **NTS**

DWG. #: **AWD203**

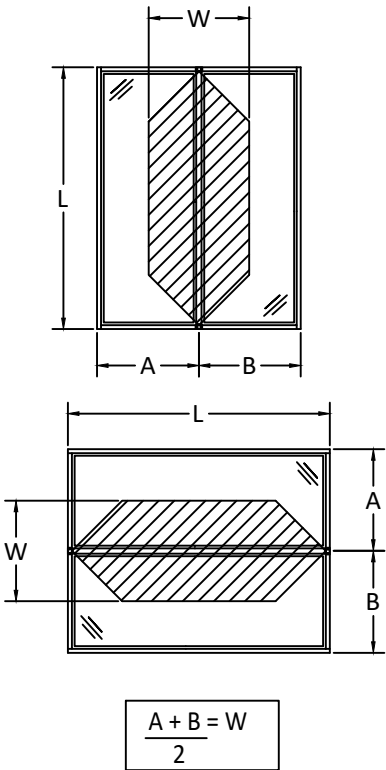
SHEET **21** OF 31

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	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
36.0	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
42.0	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
48.0	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
54.0	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
60.0	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
66.0	70.00	70.00	66.86	62.40	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88	61.88
72.0	70.00	69.33	58.50	53.49	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00
78.0	70.00	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	70.00	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	70.00	52.00	42.55	37.44	34.67	33.43	33.28	33.28	33.28	33.28	33.28	33.28	33.28	33.28	33.28
96.0	66.86	48.00	39.00	34.04	31.20	29.71	29.25	29.25	29.25	29.25	29.25	29.25	29.25	29.25	29.25
102.0	62.40	44.57	36.00	31.20	28.12	25.98	24.97	24.84	24.84	24.84	24.84	24.84	24.84	24.84	24.84
108.0	58.50	40.73	31.65	26.52	23.43	21.58	20.60	20.27	20.27	20.27	20.27	20.27	20.27	20.27	20.27
114.0	50.51	34.47	26.69	22.25	19.53	17.84	16.86	16.40	16.33	16.33	16.33	16.33	16.33	16.33	16.33
120.0	43.23	29.43	22.72	18.87	16.47	14.94	13.99	13.48	13.30	13.30	13.30	13.30	13.30	13.30	13.30
126.0	37.28	25.33	19.51	16.14	14.02	12.65	11.76	11.23	10.98	10.94	10.94	10.94	10.94	10.94	10.94
132.0	32.38	21.97	16.88	13.92	12.05	10.81	9.99	9.47	9.19	9.08	9.08	9.08	9.08	9.08	9.08
138.0	28.30	19.17	14.70	12.10	10.43	9.32	8.57	8.07	7.77	7.63	7.60	7.60	7.60	7.60	7.60
144.0	24.88	16.84	12.89	10.58	9.10	8.10	7.41	6.95	6.64	6.47	6.41	6.41	6.41	6.41	6.41
150.0	22.00	14.86	11.36	9.31	7.98	7.09	6.46	6.02	5.73	5.55	5.46	5.45	5.45	5.45	5.45
156.0	19.54	13.19	10.07	8.23	7.05	6.24	5.67	5.26	4.98	4.80	4.69	4.66	4.66	4.66	4.66
162.0	17.43	11.76	8.96	7.32	6.25	5.52	5.00	4.63	4.36	4.18	4.07	4.01	4.00	4.00	4.00
168.0	15.62	10.53	8.02	6.54	5.57	4.91	4.44	4.09	3.85	3.67	3.55	3.49	3.46	3.46	3.46
174.0	14.05	9.46	7.20	5.86	4.99	4.39	3.96	3.64	3.41	3.24	3.12	3.05	3.01	3.01	3.01
180.0	12.69	8.54	6.49	5.28	4.49	3.94	3.54	3.25	3.04	2.88	2.76	2.69	2.64	2.63	2.63
186.0	11.49	7.73	5.87	4.77	4.05	3.55	3.19	2.92	2.72	2.57	2.46	2.38	2.33	2.31	2.30
192.0	10.44	7.02	5.33	4.32	3.67	3.21	2.88	2.63	2.44	2.30	2.20	2.12	2.07	2.04	2.03

- NOTE:**
- 1) MULLION CHART APPLIES TO ZERO MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEETS 10-11
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



ZERO MULLION



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

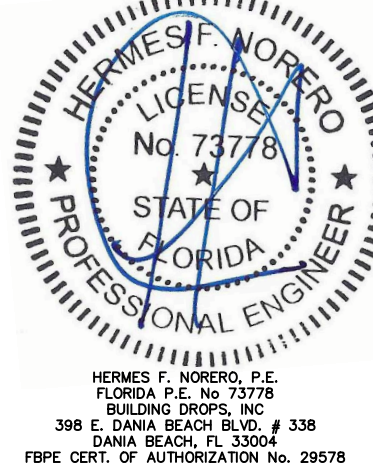
TITLE:
E-SERIES DOUBLE HUNG FULL
FRAME WINDOW
ZERO MULLION LOAD TABLES
ONE WAY

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 EDITION	AG	10/17
VINYL FLANGE ADDITION	HR	12/14
ADDED ZERO, 1/2", 1" & 2" MULL	HR	4.12.19
ADDED 3/4" MULL & DP CHARTS	LL	7.31.19

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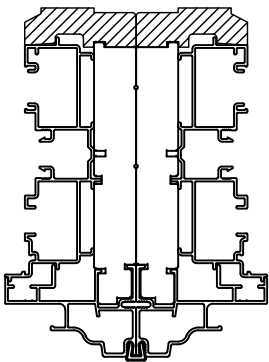


FL #:	FL24229
DATE:	10.09.17
DWG. BY:	AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD203

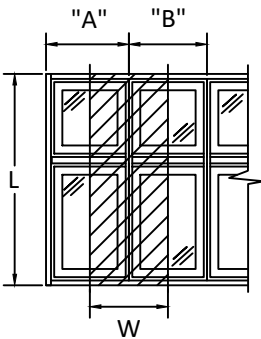
SHEET
22
OF 31

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	70.00	70.00	70.00	70.00	70.00	70.00	70.00	68.44	61.60	56.00	51.33	47.38	44.00	41.07	38.50
30.0	70.00	70.00	70.00	70.00	70.00	70.00	61.60	54.76	49.28	44.80	41.07	37.91	35.20	32.85	30.80
36.0	70.00	70.00	70.00	70.00	68.44	58.67	51.33	45.63	41.07	37.33	34.22	31.59	29.33	27.38	25.67
42.0	70.00	70.00	70.00	70.00	58.67	50.29	44.00	39.11	35.20	32.00	29.33	27.08	25.14	23.47	22.00
48.0	70.00	70.00	70.00	61.60	51.33	44.00	38.50	34.22	30.80	28.00	25.67	23.69	22.00	20.53	19.25
54.0	70.00	70.00	68.44	54.76	45.63	39.11	34.22	30.42	27.38	24.89	22.81	21.06	19.56	18.25	17.11
60.0	70.00	70.00	61.60	49.28	41.07	35.20	30.80	27.38	24.64	22.40	20.53	18.95	17.60	16.43	15.40
66.0	70.00	70.00	56.00	44.80	37.33	32.00	28.00	24.89	22.40	20.36	18.67	17.23	16.00	14.93	14.00
72.0	70.00	68.44	51.33	41.07	34.22	29.33	25.67	22.81	20.53	18.67	17.11	15.79	14.67	13.69	12.83
78.0	70.00	63.18	47.38	37.91	31.59	27.08	23.69	21.06	18.95	17.23	15.79	14.58	13.54	12.64	11.85
84.0	70.00	58.67	44.00	35.20	29.33	25.14	22.00	19.56	17.60	16.00	14.67	13.54	12.57	11.73	11.00
90.0	70.00	54.76	41.07	32.85	27.38	23.47	20.53	18.25	16.43	14.93	13.69	12.64	11.73	10.95	10.27
96.0	70.00	51.33	38.50	30.80	25.67	22.00	19.25	17.11	15.40	14.00	12.83	11.85	11.00	10.27	9.63
102.0	69.30	46.20	34.65	27.72	23.10	19.80	17.33	15.40	13.86	12.60	11.55	10.66	9.90	9.24	8.66
108.0	58.38	38.92	29.19	23.35	19.46	16.68	14.60	12.97	11.68	10.61	9.73	8.98	8.34	7.78	7.30
114.0	49.64	33.09	24.82	19.86	16.55	14.18	12.41	11.03	9.93	9.03	8.27	7.64	7.09	6.62	6.21
120.0	42.56	28.37	21.28	17.02	14.19	12.16	10.64	9.46	8.51	7.74	7.09	6.55	6.08	5.67	5.32
126.0	36.77	24.51	18.38	14.71	12.26	10.50	9.19	8.17	7.35	6.68	6.13	5.66	5.25	4.90	4.60
132.0	31.98	21.32	15.99	12.79	10.66	9.14	7.99	7.11	6.40	5.81	5.33	4.92	4.57	4.26	4.00
138.0	27.98	18.66	13.99	11.19	9.33	8.00	7.00	6.22	5.60	5.09	4.66	4.31	4.00	3.73	3.50
144.0	24.63	16.42	12.31	9.85	8.21	7.04	6.16	5.47	4.93	4.48	4.10	3.79	3.52	3.28	3.08
150.0	21.79	14.53	10.90	8.72	7.26	6.23	5.45	4.84	4.36	3.96	3.63	3.35	3.11	2.91	2.72
156.0	19.37	12.91	9.69	7.75	6.46	5.53	4.84	4.30	3.87	3.52	3.23	2.98	2.77	2.58	2.42
162.0	17.30	11.53	8.65	6.92	5.77	4.94	4.32	3.84	3.46	3.15	2.88	2.66	2.47	2.31	2.16
168.0	15.51	10.34	7.76	6.20	5.17	4.43	3.88	3.45	3.10	2.82	2.59	2.39	2.22	2.07	1.94
174.0	13.96	9.31	6.98	5.58	4.65	3.99	3.49	3.10	2.79	2.54	2.33	2.15	1.99	1.86	1.75
180.0	12.61	8.41	6.31	5.04	4.20	3.60	3.15	2.80	2.52	2.29	2.10	1.94	1.80	1.68	1.58
186.0	11.43	7.62	5.71	4.57	3.81	3.27	2.86	2.54	2.29	2.08	1.90	1.76	1.63	1.52	1.43
192.0	10.39	6.93	5.20	4.16	3.46	2.97	2.60	2.31	2.08	1.89	1.73	1.60	1.48	1.39	1.30

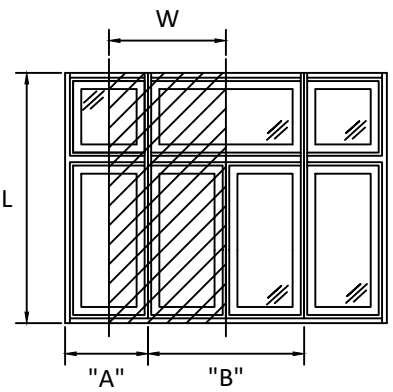
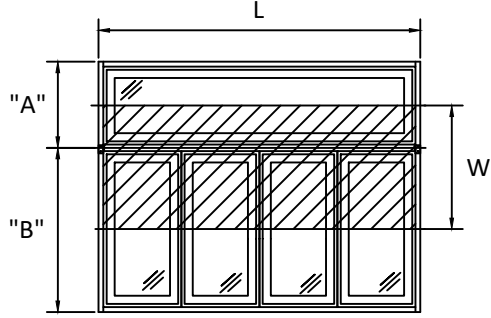
- NOTE:**
- 1) MULLION CHART APPLIES TO ZERO MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEETS 10-11
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



ZERO MULLION



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



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

TITLE:
**E-SERIES DOUBLE HUNG FULL
FRAME WINDOW**
ZERO MULLION LOAD TABLES
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 EDITION	AG	10/17
VINYL FLANGE ADDITION	HR	12/14
ADDED ZERO MULLION	HR	4.12.19
ADDED 3/4" MULL & DP CHARTS	LL	7.31.19

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

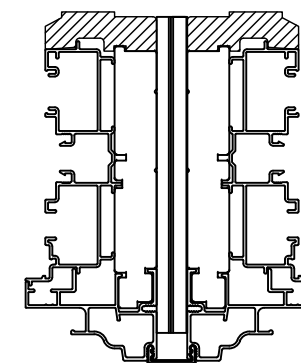
FL #:	FL24229
DATE:	10.09.17
DWG. BY:	AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD203

SHEET
23
OF 31

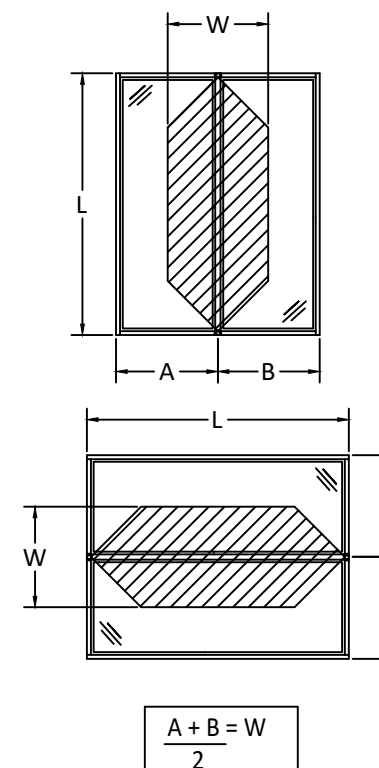
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1/2" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
30.0	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
36.0	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
42.0	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
48.0	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
54.0	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
60.0	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
66.0	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
72.0	70.00	70.00	70.00	70.00	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44
78.0	70.00	70.00	68.44	61.60	58.67	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32
84.0	70.00	70.00	61.60	54.76	51.33	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29
90.0	70.00	68.44	56.00	49.28	45.63	44.00	43.80	43.80	43.80	43.80	43.80	43.80	43.80	43.80	43.80
96.0	70.00	63.18	51.33	44.47	39.68	37.12	36.29	36.29	36.29	36.29	36.29	36.29	36.29	36.29	36.29
102.0	70.00	58.67	46.26	38.73	34.24	31.64	30.41	30.25	30.25	30.25	30.25	30.25	30.25	30.25	30.25
108.0	70.00	52.94	40.91	34.07	29.90	27.35	25.95	25.49	25.49	25.49	25.49	25.49	25.49	25.49	25.49
114.0	69.44	47.33	36.46	30.23	26.37	23.93	22.46	21.76	21.67	21.67	21.67	21.67	21.67	21.67	21.67
120.0	59.43	40.46	31.24	25.94	22.64	20.54	19.24	18.53	18.29	18.29	18.29	18.29	18.29	18.29	18.29
126.0	51.26	34.83	26.82	22.19	19.28	17.39	16.17	15.44	15.10	15.04	15.04	15.04	15.04	15.04	15.04
132.0	44.52	30.20	23.20	19.14	16.56	14.86	13.74	13.02	12.63	12.49	12.49	12.49	12.49	12.49	12.49
138.0	38.91	26.36	20.21	16.63	14.34	12.82	11.78	11.10	10.69	10.49	10.45	10.45	10.45	10.45	10.45
144.0	34.21	23.15	17.72	14.54	12.51	11.14	10.19	9.55	9.14	8.90	8.82	8.82	8.82	8.82	8.82
150.0	30.24	20.44	15.62	12.80	10.98	9.74	8.88	8.28	7.88	7.63	7.51	7.49	7.49	7.49	7.49
156.0	26.86	18.13	13.84	11.32	9.69	8.57	7.79	7.24	6.85	6.60	6.45	6.40	6.40	6.40	6.40
162.0	23.97	16.17	12.32	10.06	8.60	7.59	6.88	6.36	6.00	5.75	5.59	5.52	5.51	5.51	5.51
168.0	21.48	14.47	11.02	8.99	7.66	6.75	6.10	5.63	5.29	5.05	4.89	4.79	4.76	4.76	4.76
174.0	19.32	13.01	9.90	8.06	6.86	6.03	5.44	5.00	4.69	4.46	4.30	4.20	4.15	4.14	4.14
180.0	17.44	11.74	8.92	7.26	6.17	5.42	4.87	4.47	4.17	3.96	3.80	3.70	3.63	3.61	3.61
186.0	15.80	10.63	8.07	6.56	5.57	4.88	4.38	4.01	3.74	3.53	3.38	3.27	3.21	3.17	3.17
192.0	14.36	9.65	7.32	5.95	5.04	4.41	3.96	3.62	3.36	3.17	3.02	2.92	2.85	2.81	2.79

NOTE:

- 1) MULLION CHART APPLIES TO 1/2" MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEETS 10-11
- 6) $\text{TRIBUTARY WIDTH} = W = (A+B)/2$
- 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.



1/2" X 5 3/16" MULLION



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

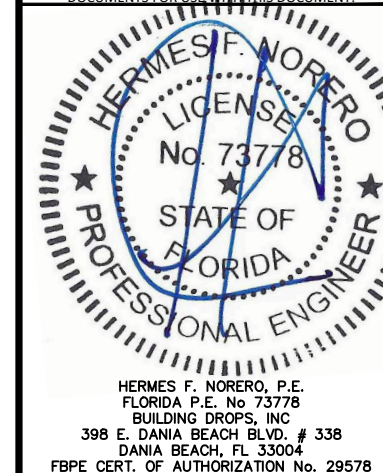
TITLE:
***E-SERIES DOUBLE HUNG FULL
FRAME WINDOW***
**1 1/2" MULLION LOAD TABLES
ONE WAY**

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 EDITION	AG	10/17/14
VINYL FLANGE ADDITION	HR	12/14/14
ADDED 3/8" 1/2" M & 1/2" MULL	HR	4.12.15
ADDED 3/4" MULL & DP CHARTS	LL	7.31.15

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.



FL #: **FL24229**

DATE: 10.09.17

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

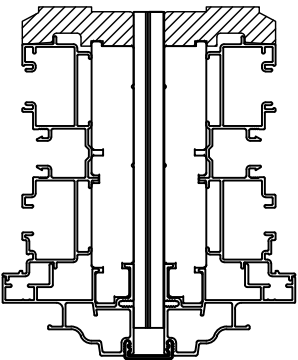
DWG. #: AWD203

SHEET

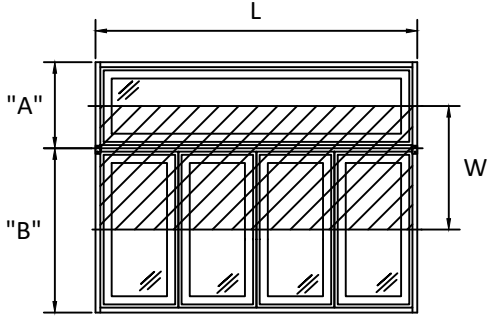
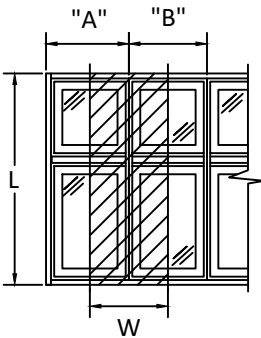
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1/2" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	70.00	70.00	70.00	68.44	61.60	56.00	51.33	47.38	44.00	41.07	38.50
30.0	70.00	70.00	70.00	70.00	70.00	70.00	61.60	54.76	49.28	44.80	41.07	37.91	35.20	32.85	30.80
36.0	70.00	70.00	70.00	70.00	68.44	58.67	51.33	45.63	41.07	37.33	34.22	31.59	29.33	27.38	25.67
42.0	70.00	70.00	70.00	70.00	58.67	50.29	44.00	39.11	35.20	32.00	29.33	27.08	25.14	23.47	22.00
48.0	70.00	70.00	70.00	61.60	51.33	44.00	38.50	34.22	30.80	28.00	25.67	23.69	22.00	20.53	19.25
54.0	70.00	70.00	68.44	54.76	45.63	39.11	34.22	30.42	27.38	24.89	22.81	21.06	19.56	18.25	17.11
60.0	70.00	70.00	61.60	49.28	41.07	35.20	30.80	27.38	24.64	22.40	20.53	18.95	17.60	16.43	15.40
66.0	70.00	70.00	56.00	44.80	37.33	32.00	28.00	24.89	22.40	20.36	18.67	17.23	16.00	14.93	14.00
72.0	70.00	68.44	51.33	41.07	34.22	29.33	25.67	22.81	20.53	18.67	17.11	15.79	14.67	13.69	12.83
78.0	70.00	63.18	47.38	37.91	31.59	27.08	23.69	21.06	18.95	17.23	15.79	14.58	13.54	12.64	11.85
84.0	70.00	58.67	44.00	35.20	29.33	25.14	22.00	19.56	17.60	16.00	14.67	13.54	12.57	11.73	11.00
90.0	70.00	54.76	41.07	32.85	27.38	23.47	20.53	18.25	16.43	14.93	13.69	12.64	11.73	10.95	10.27
96.0	70.00	51.33	38.50	30.80	25.67	22.00	19.25	17.11	15.40	14.00	12.83	11.85	11.00	10.27	9.63
102.0	70.00	48.31	36.24	28.99	24.16	20.71	18.12	16.10	14.49	13.18	12.08	11.15	10.35	9.66	9.06
108.0	68.44	45.63	34.22	27.38	22.81	19.56	17.11	15.21	13.69	12.44	11.41	10.53	9.78	9.13	8.56
114.0	64.84	43.23	32.42	25.94	21.61	18.53	16.21	14.41	12.97	11.79	10.81	9.98	9.26	8.65	8.11
120.0	58.51	39.01	29.26	23.41	19.50	16.72	14.63	13.00	11.70	10.64	9.75	9.00	8.36	7.80	7.31
126.0	50.55	33.70	25.27	20.22	16.85	14.44	12.64	11.23	10.11	9.19	8.42	7.78	7.22	6.74	6.32
132.0	43.96	29.31	21.98	17.59	14.65	12.56	10.99	9.77	8.79	7.99	7.33	6.76	6.28	5.86	5.50
138.0	38.47	25.65	19.24	15.39	12.82	10.99	9.62	8.55	7.69	7.00	6.41	5.92	5.50	5.13	4.81
144.0	33.86	22.57	16.93	13.54	11.29	9.67	8.47	7.52	6.77	6.16	5.64	5.21	4.84	4.51	4.23
150.0	29.96	19.97	14.98	11.98	9.99	8.56	7.49	6.66	5.99	5.45	4.99	4.61	4.28	3.99	3.74
156.0	26.63	17.76	13.32	10.65	8.88	7.61	6.66	5.92	5.33	4.84	4.44	4.10	3.80	3.55	3.33
162.0	23.78	15.86	11.89	9.51	7.93	6.80	5.95	5.29	4.76	4.32	3.96	3.66	3.40	3.17	2.97
168.0	21.32	14.22	10.66	8.53	7.11	6.09	5.33	4.74	4.26	3.88	3.55	3.28	3.05	2.84	2.67
174.0	19.19	12.80	9.60	7.68	6.40	5.48	4.80	4.27	3.84	3.49	3.20	2.95	2.74	2.56	2.40
180.0	17.34	11.56	8.67	6.94	5.78	4.95	4.33	3.85	3.47	3.15	2.89	2.67	2.48	2.31	2.17
186.0	15.71	10.48	7.86	6.29	5.24	4.49	3.93	3.49	3.14	2.86	2.62	2.42	2.24	2.10	1.96
192.0	14.29	9.52	7.14	5.71	4.76	4.08	3.57	3.17	2.86	2.60	2.38	2.20	2.04	1.90	1.79

NOTE:

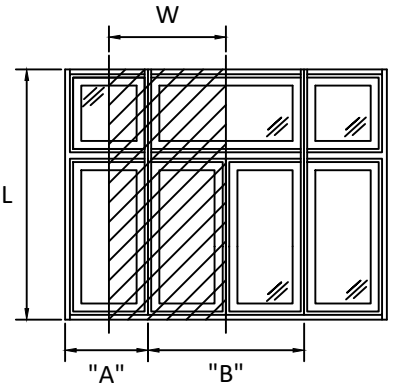
- 1) MULLION CHART APPLIES TO 1/2" MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEETS 10-11
- 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.



1/2" X 5 3/16" MULLION



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



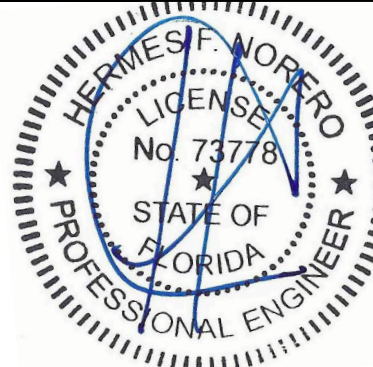
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: ***E-SERIES DOUBLE HUNG FULL
FRAME WINDOW***
**1/2" MULLION LOAD TABLE
TWO WAY**

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
5TH FBC EDITION	AG	10/17
VINYL FLANGE ADDITION	HR	12/14
ADDED 2X8, 1/2" M & 2" MULL	HR	4.12.19
ADDED 3/4" MULL & DP CHARTS	LL	7.31.19

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



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

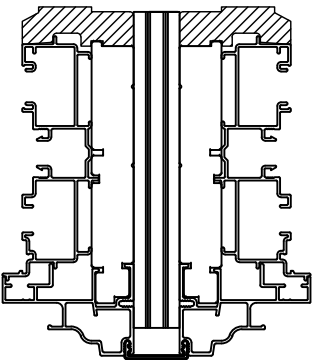
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FL24229	
DATE: 10.09.17	
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SCALE: NTS	
DWG. #: AWD203	
SHEET	

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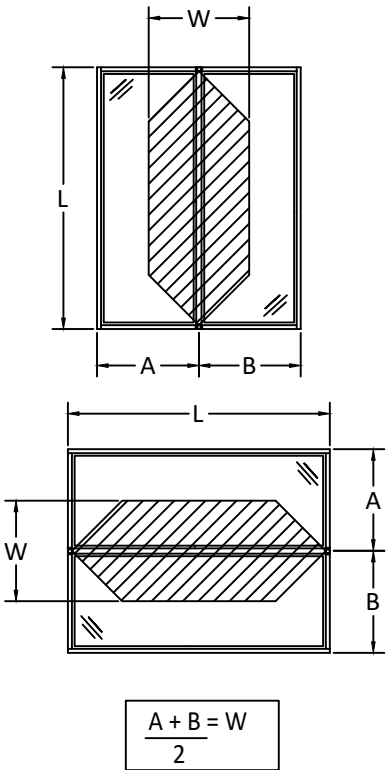
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)																
3/4" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION																
L - Mull Length (in)	W - Tributary Width (in)															
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0	
24.0	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
30.0	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	70.00
36.0	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	70.00
42.0	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	70.00
48.0	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	70.00
54.0	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	70.00
60.0	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	70.00
66.0	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	70.00
72.0	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	70.00
78.0	70.00	70.00	68.44	61.60	58.67	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32
84.0	70.00	70.00	61.60	54.76	51.33	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29
90.0	70.00	68.44	56.00	49.28	45.63	44.00	43.80	43.80	43.80	43.80	43.80	43.80	43.80	43.80	43.80	43.80
96.0	70.00	63.18	51.33	44.80	41.07	39.11	38.50	38.50	38.50	38.50	38.50	38.50	38.50	38.50	38.50	38.50
102.0	70.00	58.67	47.38	41.07	37.33	35.20	34.22	34.10	34.10	34.10	34.10	34.10	34.10	34.10	34.10	34.10
108.0	70.00	54.76	44.00	37.91	33.98	31.08	29.49	28.96	28.96	28.96	28.96	28.96	28.96	28.96	28.96	28.96
114.0	70.00	51.33	41.07	34.35	29.96	27.19	25.52	24.73	24.62	24.62	24.62	24.62	24.62	24.62	24.62	24.62
120.0	67.53	45.98	35.50	29.47	25.73	23.34	21.86	21.06	20.78	20.78	20.78	20.78	20.78	20.78	20.78	20.78
126.0	58.24	39.58	30.48	25.22	21.91	19.76	18.37	17.55	17.15	17.09	17.09	17.09	17.09	17.09	17.09	17.09
132.0	50.59	34.32	26.37	21.75	18.82	16.89	15.61	14.80	14.35	14.19	14.19	14.19	14.19	14.19	14.19	14.19
138.0	44.22	29.95	22.97	18.90	16.30	14.56	13.39	12.62	12.14	11.92	11.88	11.88	11.88	11.88	11.88	11.88
144.0	38.88	26.30	20.13	16.53	14.21	12.65	11.58	10.85	10.38	10.12	10.02	10.02	10.02	10.02	10.02	10.02
150.0	34.36	23.22	17.75	14.54	12.47	11.07	10.09	9.41	8.95	8.67	8.53	8.51	8.51	8.51	8.51	8.51
156.0	30.52	20.61	15.73	12.86	11.01	9.74	8.85	8.22	7.79	7.50	7.33	7.28	7.28	7.28	7.28	7.28
162.0	27.24	18.37	14.00	11.43	9.77	8.62	7.81	7.23	6.82	6.53	6.36	6.27	6.26	6.26	6.26	6.26
168.0	24.41	16.45	12.52	10.21	8.71	7.67	6.93	6.40	6.01	5.73	5.55	5.45	5.41	5.41	5.41	5.41
174.0	21.95	14.78	11.25	9.16	7.80	6.86	6.18	5.69	5.32	5.06	4.88	4.77	4.71	4.70	4.70	4.70
180.0	19.82	13.34	10.14	8.25	7.01	6.15	5.54	5.08	4.74	4.50	4.32	4.20	4.13	4.10	4.10	4.10
186.0	17.96	12.08	9.17	7.45	6.33	5.55	4.98	4.56	4.25	4.01	3.84	3.72	3.64	3.61	3.61	3.60
192.0	16.32	10.97	8.32	6.76	5.73	5.02	4.50	4.11	3.82	3.60	3.43	3.32	3.24	3.19	3.17	3.17

NOTE:

- 1) MULLION CHART APPLIES TO 3/4" MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEETS 10-11
- 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" MULLION



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

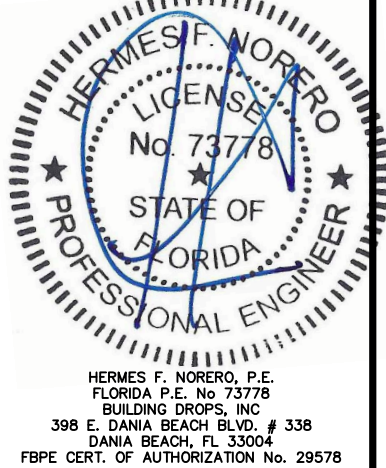
TITLE:
E-SERIES DOUBLE HUNG FULL
FRAME WINDOW
3/4" MULLION LOAD TABLES
ONE WAY

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 EDITION	AG	10/17
VINYL FLANGE ADDITION	HR	12/14
ADDED ZERO, 1/2", 1" & 2" MULL	HR	4.12.19
ADDED 3/4" MULL & DP CHARTS	LL	7.31.19

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

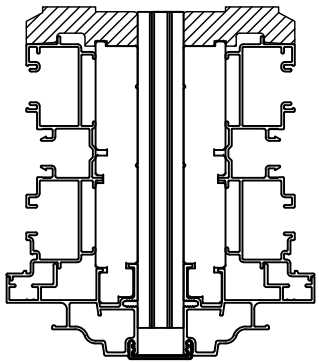


FL #:	FL24229
DATE:	10.09.17
DWG. BY:	AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD203
SHEET	26

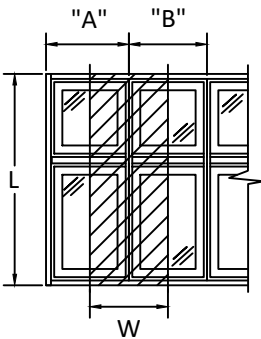
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
3/4" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	70.00	70.00	70.00	68.44	61.60	56.00	51.33	47.38	44.00	41.07	38.50
30.0	70.00	70.00	70.00	70.00	70.00	70.00	61.60	54.76	49.28	44.80	41.07	37.91	35.20	32.85	30.80
36.0	70.00	70.00	70.00	70.00	68.44	58.67	51.33	45.63	41.07	37.33	34.22	31.59	29.33	27.38	25.67
42.0	70.00	70.00	70.00	62.81	52.34	44.86	39.26	34.89	31.40	28.55	26.17	24.16	22.43	20.94	19.63
48.0	70.00	70.00	60.11	48.09	40.07	34.35	30.05	26.72	24.04	21.86	20.04	18.50	17.17	16.03	15.03
54.0	70.00	63.33	47.49	38.00	31.66	27.14	23.75	21.11	19.00	17.27	15.83	14.61	13.57	12.67	11.87
60.0	70.00	51.29	38.47	30.78	25.65	21.98	19.24	17.10	15.39	13.99	12.82	11.84	10.99	10.26	9.62
66.0	63.59	42.39	31.79	25.43	21.20	18.17	15.90	14.13	12.72	11.56	10.60	9.78	9.08	8.48	7.95
72.0	53.43	35.62	26.72	21.37	17.81	15.27	13.36	11.87	10.69	9.71	8.91	8.22	7.63	7.12	6.68
78.0	45.53	30.35	22.76	18.21	15.18	13.01	11.38	10.12	9.11	8.28	7.59	7.00	6.50	6.07	5.69
84.0	39.26	26.17	19.63	15.70	13.09	11.22	9.81	8.72	7.85	7.14	6.54	6.04	5.61	5.23	4.91
90.0	34.20	22.80	17.10	13.68	11.40	9.77	8.55	7.60	6.84	6.22	5.70	5.26	4.89	4.56	4.27
96.0	30.05	20.04	15.03	12.02	10.02	8.59	7.51	6.68	6.01	5.46	5.01	4.62	4.29	4.01	3.76
102.0	26.62	17.75	13.31	10.65	8.87	7.61	6.66	5.92	5.32	4.84	4.44	4.10	3.80	3.55	3.33
108.0	23.75	15.83	11.87	9.50	7.92	6.78	5.94	5.28	4.75	4.32	3.96	3.65	3.39	3.17	2.97
114.0	21.31	14.21	10.66	8.53	7.10	6.09	5.33	4.74	4.26	3.88	3.55	3.28	3.04	2.84	2.66
120.0	19.24	12.82	9.62	7.69	6.41	5.50	4.81	4.27	3.85	3.50	3.21	2.96	2.75	2.56	2.40
126.0	17.45	11.63	8.72	6.98	5.82	4.98	4.36	3.88	3.49	3.17	2.91	2.68	2.49	2.33	2.18
132.0	15.90	10.60	7.95	6.36	5.30	4.54	3.97	3.53	3.18	2.89	2.65	2.45	2.27	2.12	1.99
138.0	14.54	9.70	7.27	5.82	4.85	4.16	3.64	3.23	2.91	2.64	2.42	2.24	2.08	1.94	1.82
144.0	13.36	8.91	6.68	5.34	4.45	3.82	3.34	2.97	2.67	2.43	2.23	2.06	1.91	1.78	1.67
150.0	12.31	8.21	6.16	4.92	4.10	3.52	3.08	2.74	2.46	2.24	2.05	1.89	1.76	1.64	1.54
156.0	11.38	7.59	5.69	4.55	3.79	3.25	2.85	2.53	2.28	2.07	1.90	1.75	1.63	1.52	1.42
162.0	10.55	7.04	5.28	4.22	3.52	3.02	2.64	2.35	2.11	1.92	1.76	1.62	1.51	1.41	1.32
168.0	9.81	6.54	4.91	3.93	3.27	2.80	2.45	2.18	1.96	1.78	1.64	1.51	1.40	1.31	1.23
174.0	9.15	6.10	4.57	3.66	3.05	2.61	2.29	2.03	1.83	1.66	1.52	1.41	1.31	1.22	1.14
180.0	8.55	5.70	4.27	3.42	2.85	2.44	2.14	1.90	1.71	1.55	1.42	1.32	1.22	1.14	1.07
186.0	8.01	5.34	4.00	3.20	2.67	2.29	2.00	1.78	1.60	1.46	1.33	1.23	1.14	1.07	1.00
192.0	7.51	5.01	3.76	3.01	2.50	2.15	1.88	1.67	1.50	1.37	1.25	1.16	1.07	1.00	0.94

NOTE:

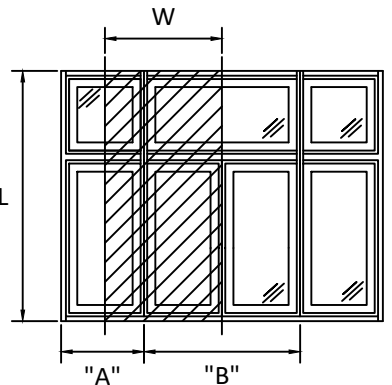
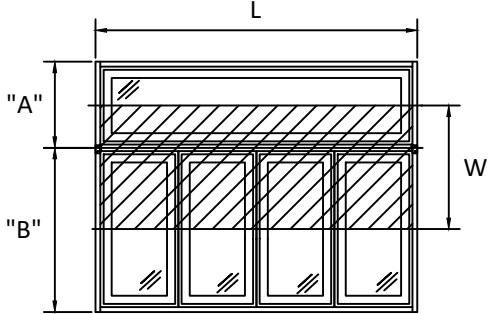
- 1) MULLION CHART APPLIES TO 3/4" MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEETS 10-11
- 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" MULLION



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



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

TITLE:
E-SERIES DOUBLE HUNG FULL
FRAME WINDOW
3/4" MULLION LOAD TABLES
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 EDITION	AG	10/17
VINYL FLANGE ADDITION	HR	12/14
ADDED 2012 FBC 12" MULL	HR	4.12.19
ADDED 3/4" MULL & DP CHARTS	LL	7.31.19

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



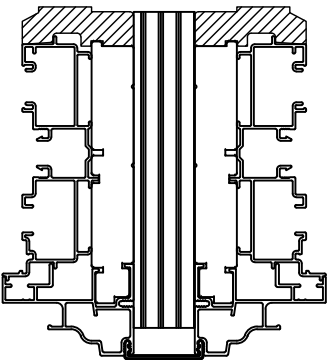
HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL24229
DATE:	10.09.17
DWG. BY:	AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD203

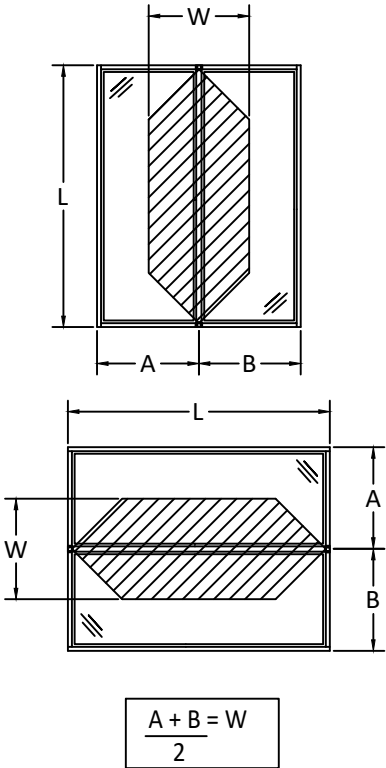
SHEET
27
OF 31

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	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	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
36.0	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
42.0	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
48.0	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
54.0	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
60.0	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
66.0	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
72.0	70.00	70.00	70.00	70.00	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44
78.0	70.00	70.00	68.44	61.60	58.67	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32
84.0	70.00	70.00	61.60	54.76	51.33	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29
90.0	70.00	68.44	56.00	49.28	45.63	44.00	43.80	43.80	43.80	43.80	43.80	43.80	43.80	43.80	43.80
96.0	70.00	63.18	51.33	44.80	41.07	39.11	38.50	38.50	38.50	38.50	38.50	38.50	38.50	38.50	38.50
102.0	70.00	58.67	47.38	41.07	37.33	35.20	34.22	34.10	34.10	34.10	34.10	34.10	34.10	34.10	34.10
108.0	70.00	54.76	44.00	37.91	34.22	32.00	30.80	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42
114.0	70.00	51.33	41.07	35.20	31.59	29.33	28.00	27.38	27.30	27.30	27.30	27.30	27.30	27.30	27.30
120.0	68.44	48.31	38.50	32.85	28.81	26.14	24.48	23.58	23.27	23.27	23.27	23.27	23.27	23.27	23.27
126.0	64.84	44.33	34.13	28.24	24.54	22.13	20.58	19.65	19.21	19.15	19.15	19.15	19.15	19.15	19.15
132.0	56.66	38.44	29.53	24.36	21.08	18.92	17.48	16.58	16.07	15.89	15.89	15.89	15.89	15.89	15.89
138.0	49.52	33.55	25.72	21.16	18.25	16.31	15.00	14.13	13.60	13.35	13.31	13.31	13.31	13.31	13.31
144.0	43.54	29.46	22.55	18.51	15.92	14.17	12.97	12.15	11.63	11.33	11.22	11.22	11.22	11.22	11.22
150.0	38.49	26.01	19.88	16.28	13.97	12.40	11.30	10.54	10.03	9.71	9.56	9.53	9.53	9.53	9.53
156.0	34.19	23.08	17.61	14.40	12.33	10.91	9.91	9.21	8.72	8.40	8.21	8.15	8.15	8.15	8.15
162.0	30.50	20.58	15.68	12.81	10.94	9.66	8.75	8.10	7.63	7.32	7.12	7.02	7.01	7.01	7.01
168.0	27.33	18.42	14.03	11.44	9.75	8.59	7.76	7.16	6.73	6.42	6.22	6.10	6.06	6.06	6.06
174.0	24.59	16.56	12.59	10.26	8.73	7.68	6.92	6.37	5.96	5.67	5.47	5.34	5.28	5.26	5.26
180.0	22.20	14.94	11.35	9.24	7.85	6.89	6.20	5.69	5.31	5.03	4.84	4.70	4.63	4.60	4.60
186.0	20.11	13.53	10.27	8.35	7.09	6.21	5.58	5.11	4.76	4.49	4.30	4.17	4.08	4.04	4.03
192.0	18.27	12.28	9.32	7.57	6.42	5.62	5.04	4.60	4.28	4.03	3.85	3.71	3.62	3.57	3.55

- NOTE:**
- 1) MULLION CHART APPLIES TO 1" MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
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 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
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1" X 5 3/16" MULLION



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

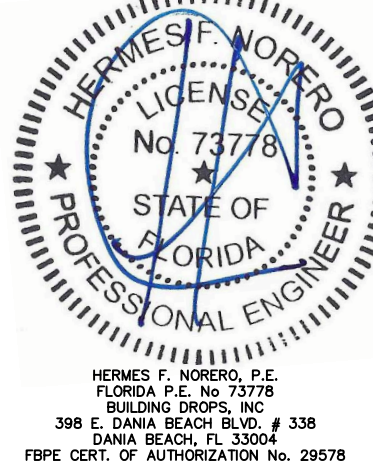
TITLE:
E-SERIES DOUBLE HUNG FULL
FRAME WINDOW
1" MULLION LOAD TABLES
ONE WAY

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 EDITION	AG	10/17
VINYL FLANGE ADDITION	HR	12/14
ADDED ZERO, 1/2", 1" & 2" MULL	HR	4.12.19
ADDED 3/4" MULL & DP CHARTS	LL	7.31.19

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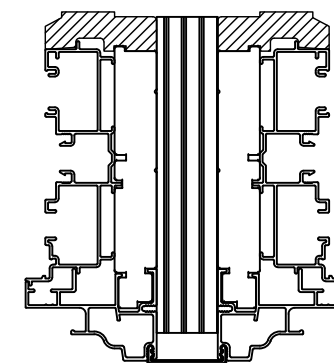
FL #:	FL24229
DATE:	10.09.17
DWG. BY:	AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD203

SHEET
28
OF 31

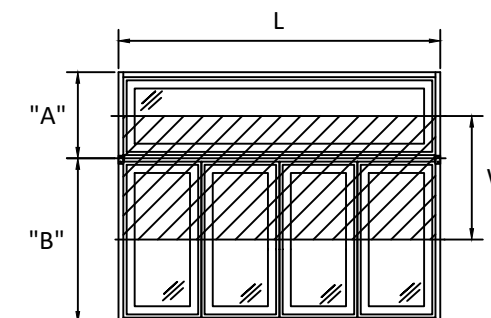
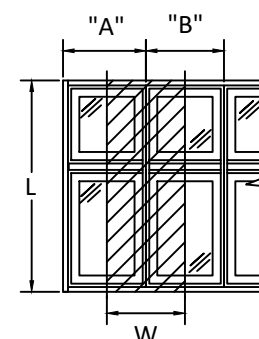
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	70.00	70.00	70.00	68.44	61.60	56.00	51.33	47.38	44.00	41.07	38.50
30.0	70.00	70.00	70.00	70.00	70.00	70.00	61.60	54.76	49.28	44.80	41.07	37.91	35.20	32.85	30.80
36.0	70.00	70.00	70.00	70.00	68.44	58.67	51.33	45.63	41.07	37.33	34.22	31.59	29.33	27.38	25.67
42.0	70.00	70.00	70.00	70.00	58.67	50.29	44.00	39.11	35.20	32.00	29.33	27.08	25.14	23.47	22.00
48.0	70.00	70.00	70.00	61.60	51.33	44.00	38.50	34.22	30.80	28.00	25.67	23.69	22.00	20.53	19.25
54.0	70.00	70.00	68.44	54.76	45.63	39.11	34.22	30.42	27.38	24.89	22.81	21.06	19.56	18.25	17.11
60.0	70.00	70.00	61.60	49.28	41.07	35.20	30.80	27.38	24.64	22.40	20.53	18.95	17.60	16.43	15.40
66.0	70.00	68.65	51.49	41.19	34.33	29.42	25.75	22.88	20.60	18.72	17.16	15.84	14.71	13.73	12.87
72.0	70.00	57.69	43.27	34.61	28.84	24.72	21.63	19.23	17.31	15.73	14.42	13.31	12.36	11.54	10.82
78.0	70.00	49.16	36.87	29.49	24.58	21.07	18.43	16.39	14.75	13.41	12.29	11.34	10.53	9.83	9.22
84.0	62.28	41.52	31.14	24.91	20.76	17.79	15.57	13.84	12.46	11.32	10.38	9.58	8.90	8.30	7.78
90.0	50.63	33.76	25.32	20.25	16.88	14.47	12.66	11.25	10.13	9.21	8.44	7.79	7.23	6.75	6.33
96.0	41.72	27.81	20.86	16.69	13.91	11.92	10.43	9.27	8.34	7.59	6.95	6.42	5.96	5.56	5.22
102.0	34.78	23.19	17.39	13.91	11.59	9.94	8.70	7.73	6.96	6.32	5.80	5.35	4.97	4.64	4.35
108.0	29.30	19.53	14.65	11.72	9.77	8.37	7.33	6.51	5.86	5.33	4.88	4.51	4.19	3.91	3.66
114.0	24.91	16.61	12.46	9.97	8.30	7.12	6.23	5.54	4.98	4.53	4.15	3.83	3.56	3.32	3.11
120.0	21.36	14.24	10.68	8.54	7.12	6.10	5.34	4.75	4.27	3.88	3.56	3.29	3.05	2.85	2.67
126.0	18.45	12.30	9.23	7.38	6.15	5.27	4.61	4.10	3.69	3.36	3.08	2.84	2.64	2.46	2.31
132.0	16.05	10.70	8.02	6.42	5.35	4.59	4.01	3.57	3.21	2.92	2.67	2.47	2.29	2.14	2.01
138.0	14.05	9.36	7.02	5.62	4.68	4.01	3.51	3.12	2.81	2.55	2.34	2.16	2.01	1.87	1.76
144.0	12.36	8.24	6.18	4.94	4.12	3.53	3.09	2.75	2.47	2.25	2.06	1.90	1.77	1.65	1.55
150.0	10.94	7.29	5.47	4.37	3.65	3.12	2.73	2.43	2.19	1.99	1.82	1.68	1.56	1.46	1.37
156.0	9.72	6.48	4.86	3.89	3.24	2.78	2.43	2.16	1.94	1.77	1.62	1.50	1.39	1.30	1.22
162.0	8.68	5.79	4.34	3.47	2.89	2.48	2.17	1.93	1.74	1.58	1.45	1.34	1.24	1.16	1.09
168.0	7.78	5.19	3.89	3.11	2.59	2.22	1.95	1.73	1.56	1.42	1.30	1.20	1.11	1.04	0.97
174.0	7.01	4.67	3.50	2.80	2.34	2.00	1.75	1.56	1.40	1.27	1.17	1.08	1.00	0.93	0.88
180.0	6.33	4.22	3.16	2.53	2.11	1.81	1.58	1.41	1.27	1.15	1.05	0.97	0.90	0.84	0.79
186.0	5.74	3.82	2.87	2.29	1.91	1.64	1.43	1.27	1.15	1.04	0.96	0.88	0.82	0.76	0.72
192.0	5.22	3.48	2.61	2.09	1.74	1.49	1.30	1.16	1.04	0.95	0.87	0.80	0.75	0.70	0.65

NOTE:

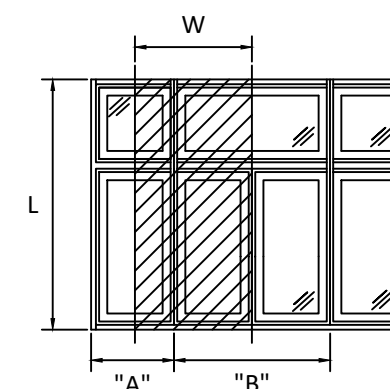
- 1) MULLION CHART APPLIES TO 1" MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEETS 10-11
- 6) $\text{TRIBUTARY WIDTH} = W = (A+B)/2$
- 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" MULLION



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



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

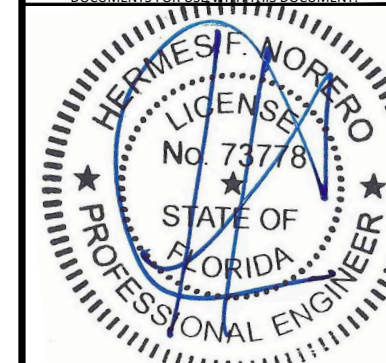
TITLE:
***E-SERIES DOUBLE HUNG FULL
FRAME WINDOW***
**1" MULLION LOAD TABLES
TWO WAY**

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 EDITION	AG	10/17/14
VINYL FLANGE ADDITION	HR	12/14/14
ADDED 2x8 @ 12" MULL & 2" MULL	HR	4.12.15
ADDED 3/4" MULL & DP CHARTS	LL	7.31.15

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 #: **FL24229**

DATE: 10.09.17

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

DWG. #: AWD203

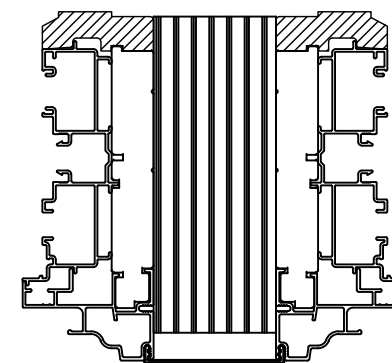
SHEET

29

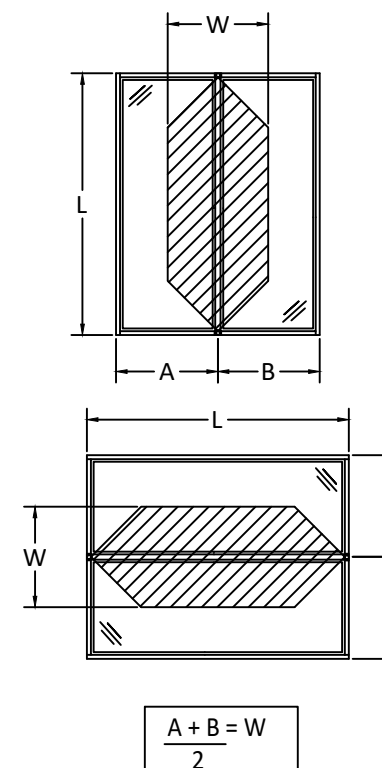
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
2" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
30.0	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
36.0	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
42.0	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
48.0	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
54.0	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
60.0	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
66.0	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
72.0	70.00	70.00	70.00	70.00	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44	68.44
78.0	70.00	70.00	68.44	61.60	58.67	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32	58.32
84.0	70.00	70.00	61.60	54.76	51.33	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29	50.29
90.0	70.00	68.44	56.00	49.28	45.63	44.00	43.80	43.80	43.80	43.80	43.80	43.80	43.80	43.80	43.80
96.0	70.00	63.18	51.33	44.80	41.07	39.11	38.50	38.50	38.50	38.50	38.50	38.50	38.50	38.50	38.50
102.0	70.00	58.67	47.38	41.07	37.33	35.20	34.22	34.10	34.10	34.10	34.10	34.10	34.10	34.10	34.10
108.0	70.00	54.76	44.00	37.91	34.22	32.00	30.80	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42
114.0	70.00	51.33	41.07	35.20	31.59	29.33	28.00	27.38	27.30	27.30	27.30	27.30	27.30	27.30	27.30
120.0	68.44	48.31	38.50	32.85	29.33	27.08	25.67	24.89	24.64	24.64	24.64	24.64	24.64	24.64	24.64
126.0	64.84	45.63	36.24	30.80	27.38	25.14	23.69	22.81	22.40	22.35	22.35	22.35	22.35	22.35	22.35
132.0	61.60	43.23	34.22	28.99	25.67	23.47	22.00	21.06	20.53	20.36	20.36	20.36	20.36	20.36	20.36
138.0	58.67	41.07	32.42	27.38	24.16	22.00	20.53	19.56	18.95	18.67	18.63	18.63	18.63	18.63	18.63
144.0	56.00	39.11	30.80	25.94	22.74	20.24	18.53	17.36	16.61	16.18	16.03	16.03	16.03	16.03	16.03
150.0	53.57	37.15	28.39	23.26	19.96	17.71	16.15	15.06	14.33	13.87	13.65	13.62	13.62	13.62	13.62
156.0	48.83	32.97	25.16	20.58	17.61	15.59	14.16	13.15	12.45	12.00	11.73	11.64	11.64	11.64	11.64
162.0	43.58	29.39	22.40	18.29	15.63	13.80	12.50	11.57	10.91	10.45	10.17	10.03	10.01	10.01	10.01
168.0	39.05	26.31	20.04	16.34	13.93	12.27	11.09	10.23	9.61	9.17	8.88	8.72	8.65	8.65	8.65
174.0	35.12	23.65	17.99	14.65	12.48	10.97	9.89	9.10	8.52	8.10	7.81	7.63	7.54	7.52	7.52
180.0	31.71	21.34	16.22	13.19	11.22	9.85	8.86	8.13	7.59	7.19	6.91	6.72	6.61	6.57	6.57
186.0	28.73	19.32	14.67	11.92	10.12	8.87	7.97	7.30	6.79	6.42	6.14	5.95	5.83	5.77	5.76
192.0	26.10	17.55	13.31	10.81	9.17	8.03	7.19	6.58	6.11	5.76	5.49	5.30	5.18	5.10	5.07

NOTE:

- 1) MULLION CHART APPLIES TO 2" MULL ASSEMBLIES, WHEN MULLED IN ONE-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO $L/175$.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEETS 10-11
- 6) $\text{TRIBUTARY WIDTH} = W = (A+B)/2$
- 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" MULLION



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

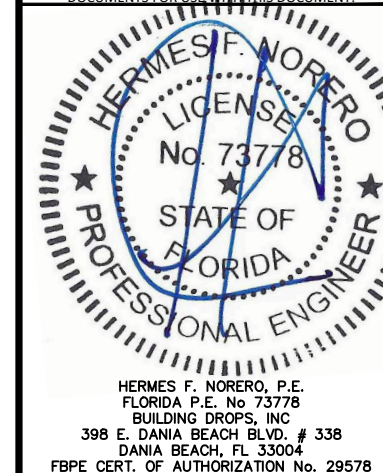
TITLE:
**E-SERIES DOUBLE HUNG FULL
FRAME WINDOW**
2" MULLION LOAD TABLES
ONE WAY

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 EDITION	AG	10/17/14
VINYL FLANGE ADDITION	HR	12/14/14
ADDED ZERO, 1/2", 1" & 2" MULL	HR	4.12.15
ADDED 3/4" MULL & DP CHARTS	LL	7.31.15

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.



FL #: **FL24229**

DATE: 10.09.17

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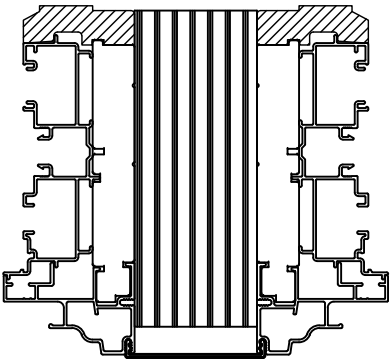
SCALE: NTS

DWG. #: AWD203

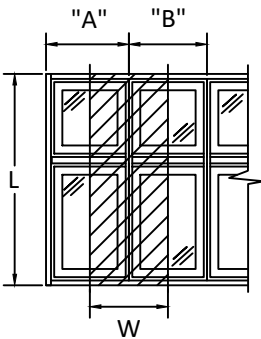
SHEET

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
2" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	70.00	70.00	70.00	68.44	61.60	56.00	51.33	47.38	44.00	41.07	38.50
30.0	70.00	70.00	70.00	70.00	70.00	70.00	61.60	54.76	49.28	44.80	41.07	37.91	35.20	32.85	30.80
36.0	70.00	70.00	70.00	70.00	68.44	58.67	51.33	45.63	41.07	37.33	34.22	31.59	29.33	27.38	25.67
42.0	70.00	70.00	70.00	70.00	58.67	50.29	44.00	39.11	35.20	32.00	29.33	27.08	25.14	23.47	22.00
48.0	70.00	70.00	70.00	61.60	51.33	44.00	38.50	34.22	30.80	28.00	25.67	23.69	22.00	20.53	19.25
54.0	70.00	70.00	68.44	54.76	45.63	39.11	34.22	30.42	27.38	24.89	22.81	21.06	19.56	18.25	17.11
60.0	70.00	70.00	61.60	49.28	41.07	35.20	30.80	27.38	24.64	22.40	20.53	18.95	17.60	16.43	15.40
66.0	70.00	70.00	56.00	44.80	37.33	32.00	28.00	24.89	22.40	20.36	18.67	17.23	16.00	14.93	14.00
72.0	70.00	68.44	51.33	41.07	34.22	29.33	25.67	22.81	20.53	18.67	17.11	15.79	14.67	13.69	12.83
78.0	70.00	63.18	47.38	37.91	31.59	27.08	23.69	21.06	18.95	17.23	15.79	14.58	13.54	12.64	11.85
84.0	70.00	58.67	44.00	35.20	29.33	25.14	22.00	19.56	17.60	16.00	14.67	13.54	12.57	11.73	11.00
90.0	70.00	54.76	41.07	32.85	27.38	23.47	20.53	18.25	16.43	14.93	13.69	12.64	11.73	10.95	10.27
96.0	70.00	46.85	35.14	28.11	23.43	20.08	17.57	15.62	14.06	12.78	11.71	10.81	10.04	9.37	8.78
102.0	58.59	39.06	29.29	23.44	19.53	16.74	14.65	13.02	11.72	10.65	9.76	9.01	8.37	7.81	7.32
108.0	49.36	32.90	24.68	19.74	16.45	14.10	12.34	10.97	9.87	8.97	8.23	7.59	7.05	6.58	6.17
114.0	41.97	27.98	20.98	16.79	13.99	11.99	10.49	9.33	8.39	7.63	6.99	6.46	6.00	5.60	5.25
120.0	35.98	23.99	17.99	14.39	11.99	10.28	9.00	8.00	7.20	6.54	6.00	5.54	5.14	4.80	4.50
126.0	31.08	20.72	15.54	12.43	10.36	8.88	7.77	6.91	6.22	5.65	5.18	4.78	4.44	4.14	3.89
132.0	27.03	18.02	13.52	10.81	9.01	7.72	6.76	6.01	5.41	4.92	4.51	4.16	3.86	3.60	3.38
138.0	23.66	15.77	11.83	9.46	7.89	6.76	5.91	5.26	4.73	4.30	3.94	3.64	3.38	3.15	2.96
144.0	20.82	13.88	10.41	8.33	6.94	5.95	5.21	4.63	4.16	3.79	3.47	3.20	2.97	2.78	2.60
150.0	18.42	12.28	9.21	7.37	6.14	5.26	4.61	4.09	3.68	3.35	3.07	2.83	2.63	2.46	2.30
156.0	16.38	10.92	8.19	6.55	5.46	4.68	4.09	3.64	3.28	2.98	2.73	2.52	2.34	2.18	2.05
162.0	14.62	9.75	7.31	5.85	4.87	4.18	3.66	3.25	2.92	2.66	2.44	2.25	2.09	1.95	1.83
168.0	13.11	8.74	6.56	5.25	4.37	3.75	3.28	2.91	2.62	2.38	2.19	2.02	1.87	1.75	1.64
174.0	11.80	7.87	5.90	4.72	3.93	3.37	2.95	2.62	2.36	2.15	1.97	1.82	1.69	1.57	1.48
180.0	10.66	7.11	5.33	4.26	3.55	3.05	2.67	2.37	2.13	1.94	1.78	1.64	1.52	1.42	1.33
186.0	9.66	6.44	4.83	3.86	3.22	2.76	2.42	2.15	1.93	1.76	1.61	1.49	1.38	1.29	1.21
192.0	8.78	5.86	4.39	3.51	2.93	2.51	2.20	1.95	1.76	1.60	1.46	1.35	1.25	1.17	1.10

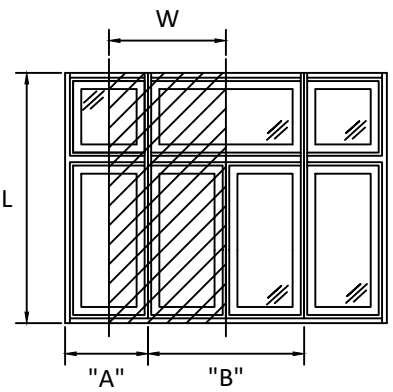
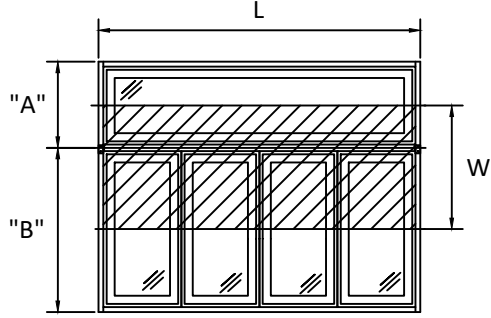
- NOTE:**
- 1) MULLION CHART APPLIES TO 2" MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
 - 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS OR DOORS SHALL BE UNDER SEPARATE FL OR MIAMI-DADE APPROVAL.
 - 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEETS 10-11
 - 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" MULLION



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



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

TITLE:
E-SERIES DOUBLE HUNG FULL
FRAME WINDOW
2" MULLION LOAD TABLES
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 EDITION	AG	10/17
VINYL FLANGE ADDITION	HR	12/14
ADDED ZERO, 1/2", 1" & 2" MULL	HR	4.12.19
ADDED 3/4" MULL & DP CHARTS	LL	7.31.19

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



FL #: **FL24229**

DATE: **10.09.17**

DWG. BY: **AG** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **AWD203**

SHEET **31** OF 31