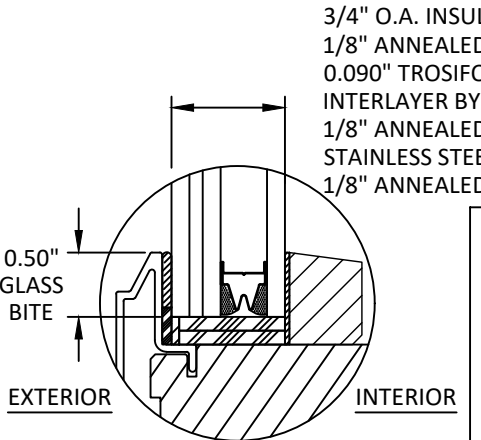


ANDERSEN CORPORATION

E-SERIES DOUBLE HUNG FULL FRAME WINDOW (WZ3)(IMPACT)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT 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
 - ASTM E1886-02
 - ASTM E1996-02
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.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4.
7. WINDOW/DOOR FRAME MATERIAL: *PONDEROSA PINE OR EQUIVALENT (S.G.=0.45).*
8. MULLION MATERIAL: *LAMINATED VENEER LUMBER.*
9. IN ACCORDANCE WITH CH23, WOOD COMPONENTS SHALL HAVE BEEN PRESERVATIVE TREATED OR SHALL BE OF A DURABLE SPECIES.
10. IN ACCORDANCE WITH THE CH20, DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED.
11. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:
X: OPERABLE PANEL
O: FIXED PANEL
12. CUSTOM SIZES AVAILABLE UPON REQUEST. CUSTOM DESIGN PRESSURE WILL BE ASSIGNED EQUAL TO NEXT LARGER STANDARD SIZE.

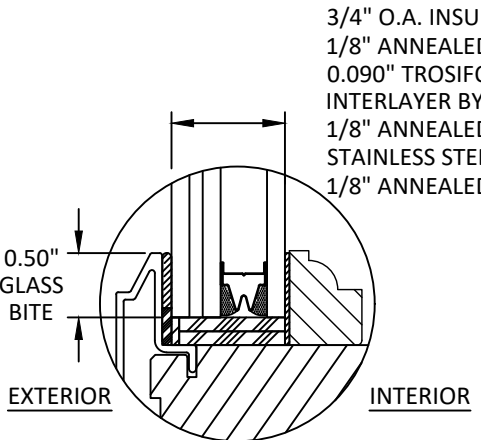


GLAZING DETAIL

SHOWN WITH CONTEMPORARY GLASS STOP

GLAZING NOTES:

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



GLAZING DETAIL

SHOWN WITH COLONIAL GLASS STOP

OVERALL FRAME SIZE		OVERALL D.L.O. DIMENSION		GLASS TYPE	DESIGN PRESSURE (PSF)	
WIDTH (IN.)	HEIGHT (IN.)	WIDTH (IN.)	HEIGHT (IN.)		POS.	NEG.
40.0	78.0	33.0	34.0	G1	+55	-65

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20	C	2" MULLION AND LOADS TABLE - TWO WAY (TRANSOM)
21	C	ZERO MULLION AND LOADS TABLE - ONE WAY
22	C	ZERO MULLION AND LOADS TABLE - TWO WAY
23	C	1/2" MULLION AND LOADS TABLE - ONE WAY
24	C	1/2" MULLION AND LOADS TABLE - TWO WAY
25	C	3/4" MULLION AND LOADS TABLE - ONE WAY
26	C	3/4" MULLION AND LOADS TABLE - TWO WAY
27	C	1" MULLION AND LOADS TABLE - ONE WAY
28	C	1" MULLION AND LOADS TABLE - TWO WAY
29	C	2" MULLION AND LOADS TABLE - ONE WAY
30	C	2" MULLION AND LOADS TABLE - TWO WAY



100 FOURTH AVE NORTH
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TITLE: E-SERIES DOUBLE HUNG FULL FRAME WINDOW (WZ3) (IMPACT)
GENERAL NOTES AND GLAZING DETAILS

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



REMARKS	BY	DATE
6TH FBC EDITION	AG	10/17
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**

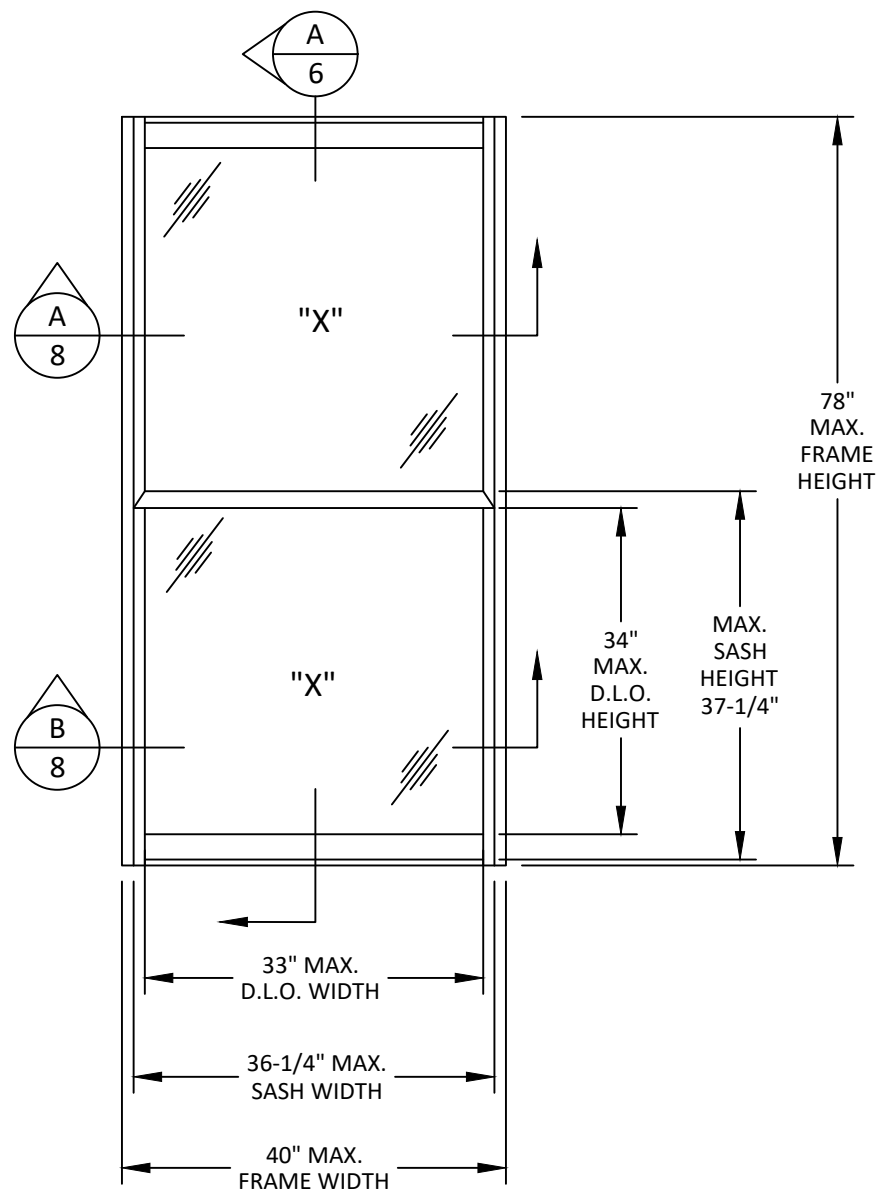
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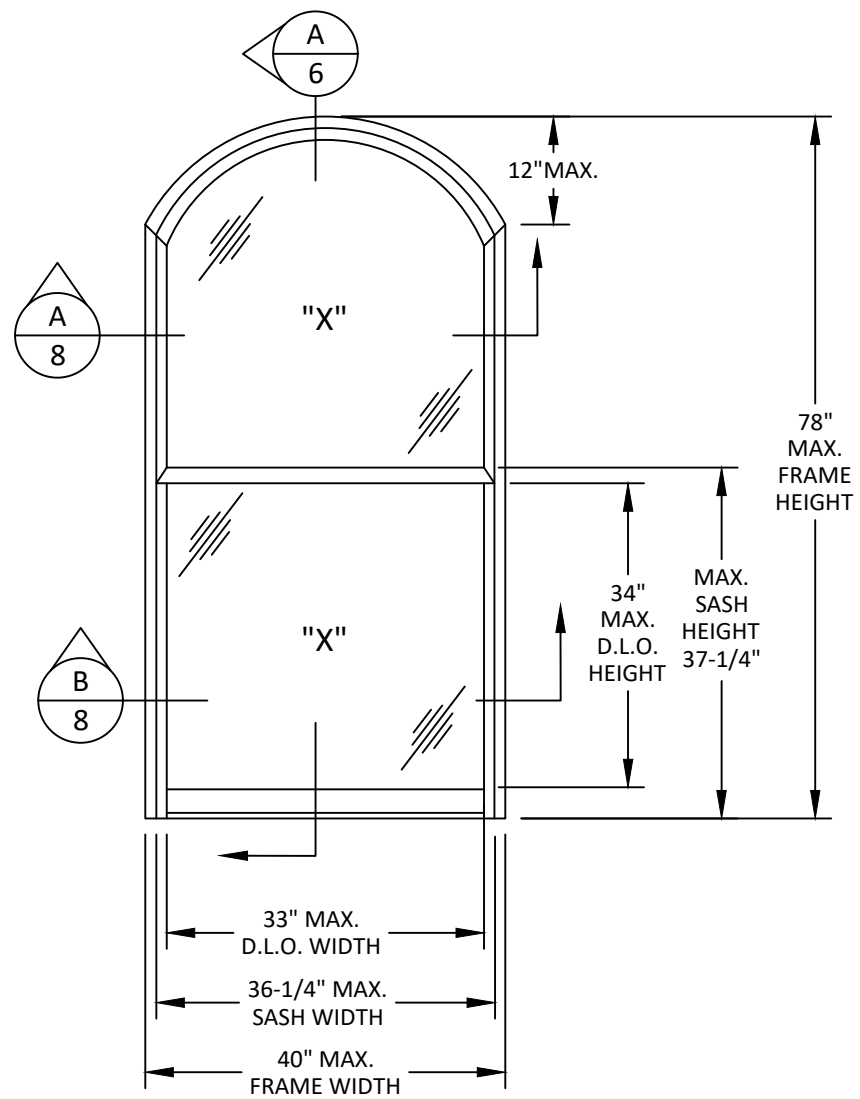
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ELEVATION
SINGLE UNIT
RECTANGULAR/SQUARE UNIT



ELEVATION
SINGLE UNIT
RADIUS UNIT



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TITLE: E-SERIES DOUBLE HUNG FULL FRAME
WINDOW (WZ3) (IMPACT)

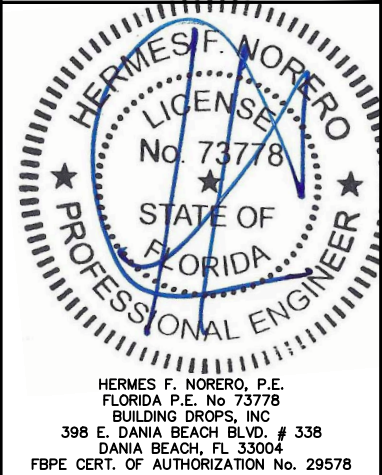
ELEVATIONS

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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**

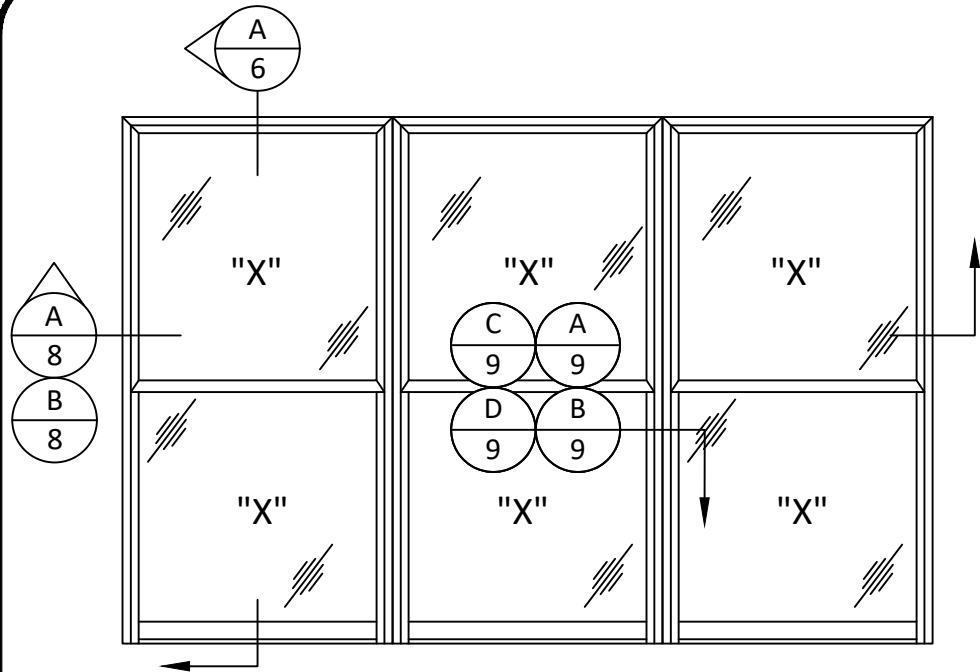
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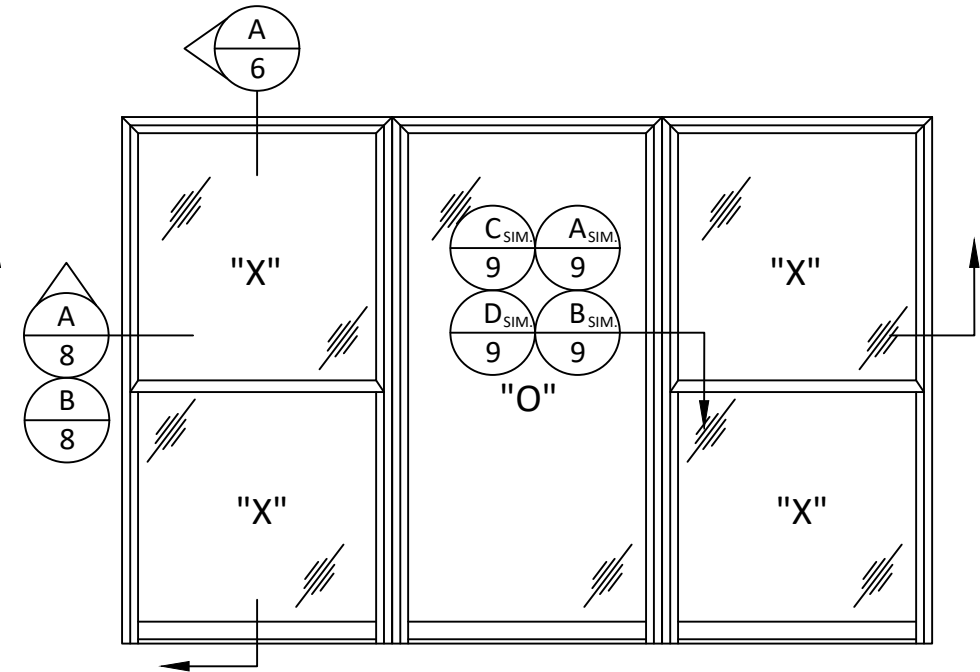
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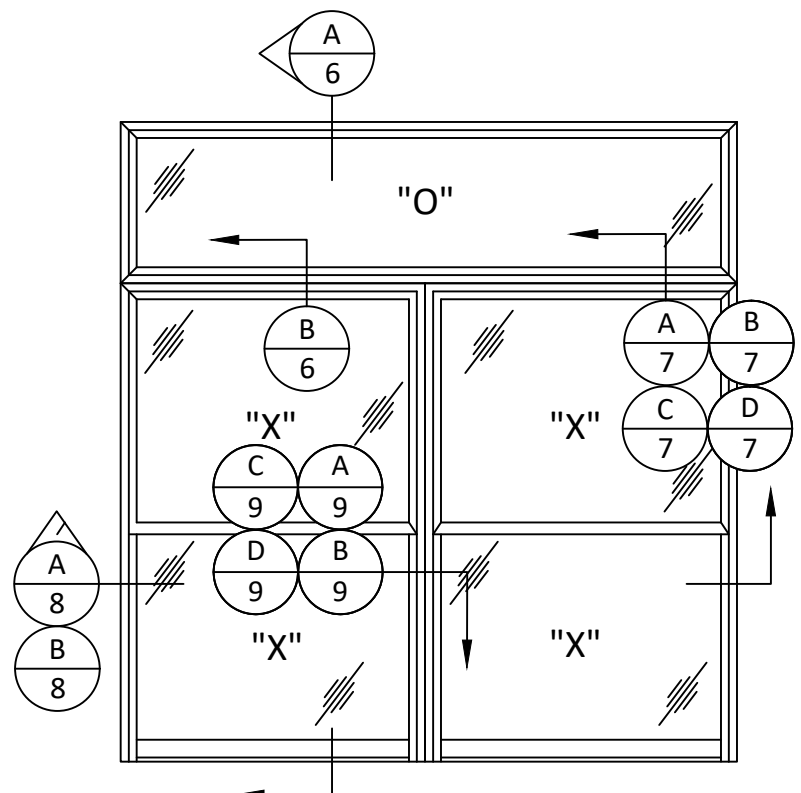
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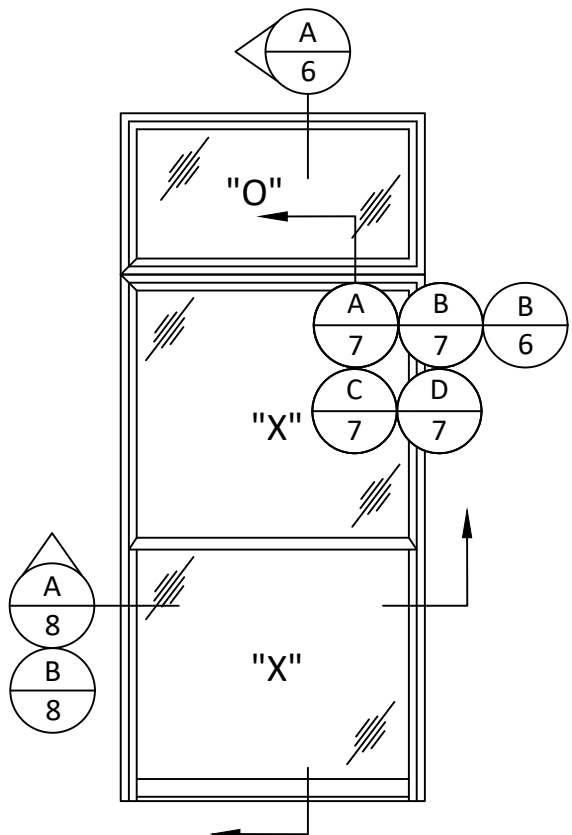
ELEVATION
MULLED UNIT
HORIZONTAL CONFIGURATION



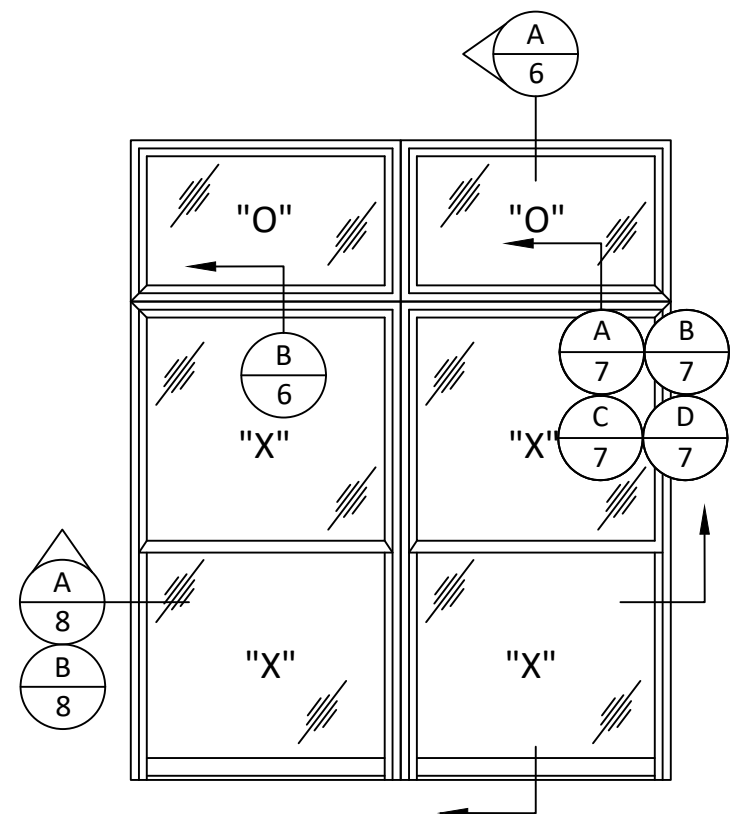
ELEVATION
MULLED UNIT
HORIZONTAL CONFIGURATION



ELEVATION
MULLED UNIT
HORIZONTAL WITH TRANSOM CONFIGURATION

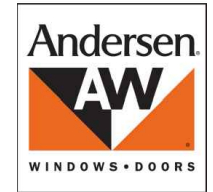


ELEVATION
MULLED UNIT
HORIZONTAL WITH TRANSOM CONFIGURATION



ELEVATION
MULLED UNIT
HORIZONTAL WITH TRANSOM CONFIGURATION

NOTE:
REFER TO SHEETS 11-30 FOR DESIGN PRESSURES BASED ON CORRESPONDING MULLION TYPES

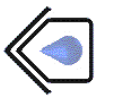


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TITLE: E-SERIES DOUBLE HUNG FULL FRAME WINDOW (WZ3) (IMPACT)

MULLED ELEVATIONS

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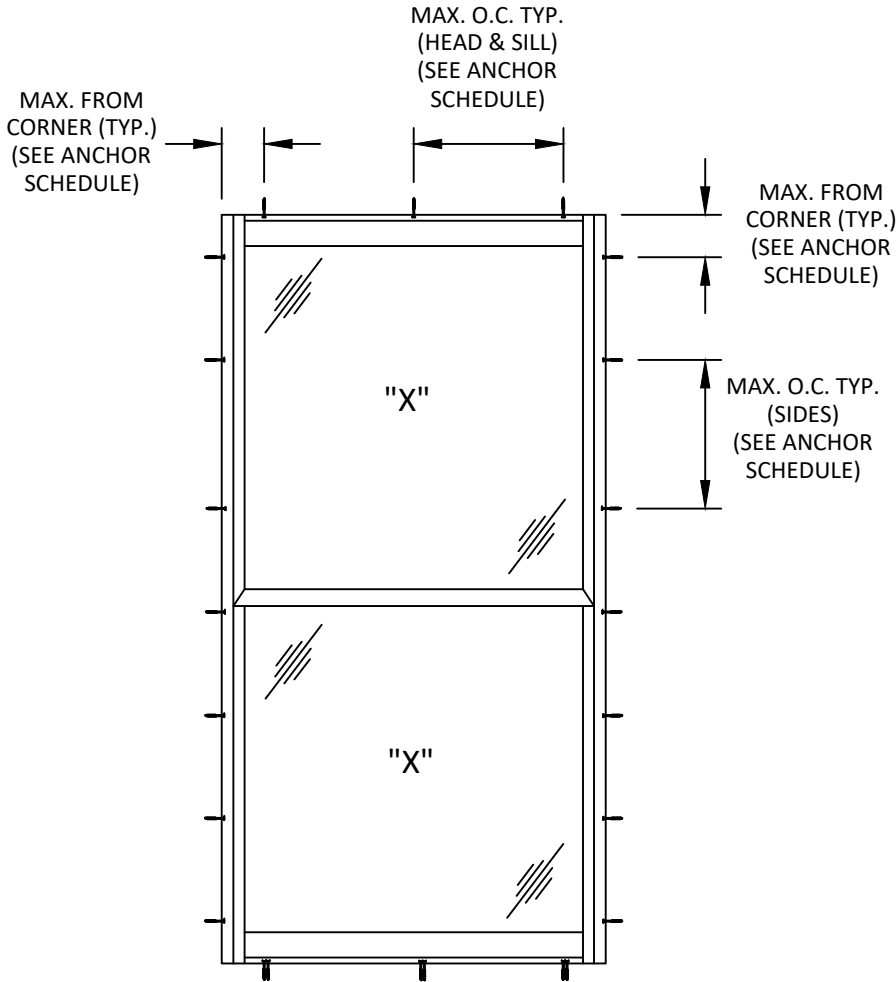
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ADDED ZERO, 1/2", 1" & 2" MULL	HR	4.12.19
ADDED 3/4" MULL & DP CHARTS	LL	7.31.19

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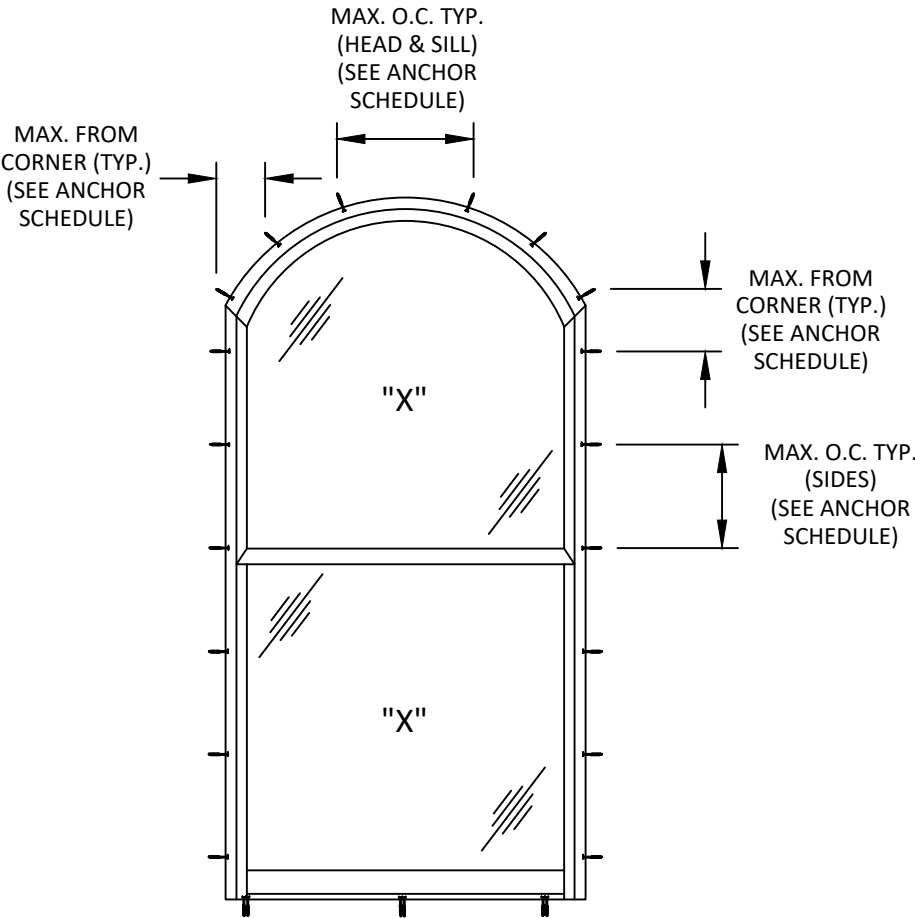


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BUILDING DROPS, INC.
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DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL24229
DATE:	10.09.17
DWG. BY:	AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD195
SHEET	3



ANCHOR LAYOUT
RECTANGULAR/SQUARE SINGLE UNIT



ANCHOR LAYOUT
RADIUS SINGLE UNIT

NOTE :

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



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
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TITLE: E-SERIES DOUBLE HUNG FULL FRAME
WINDOW (WZ3) (IMPACT)
ANCHOR LAYOUTS

PREPARED BY:

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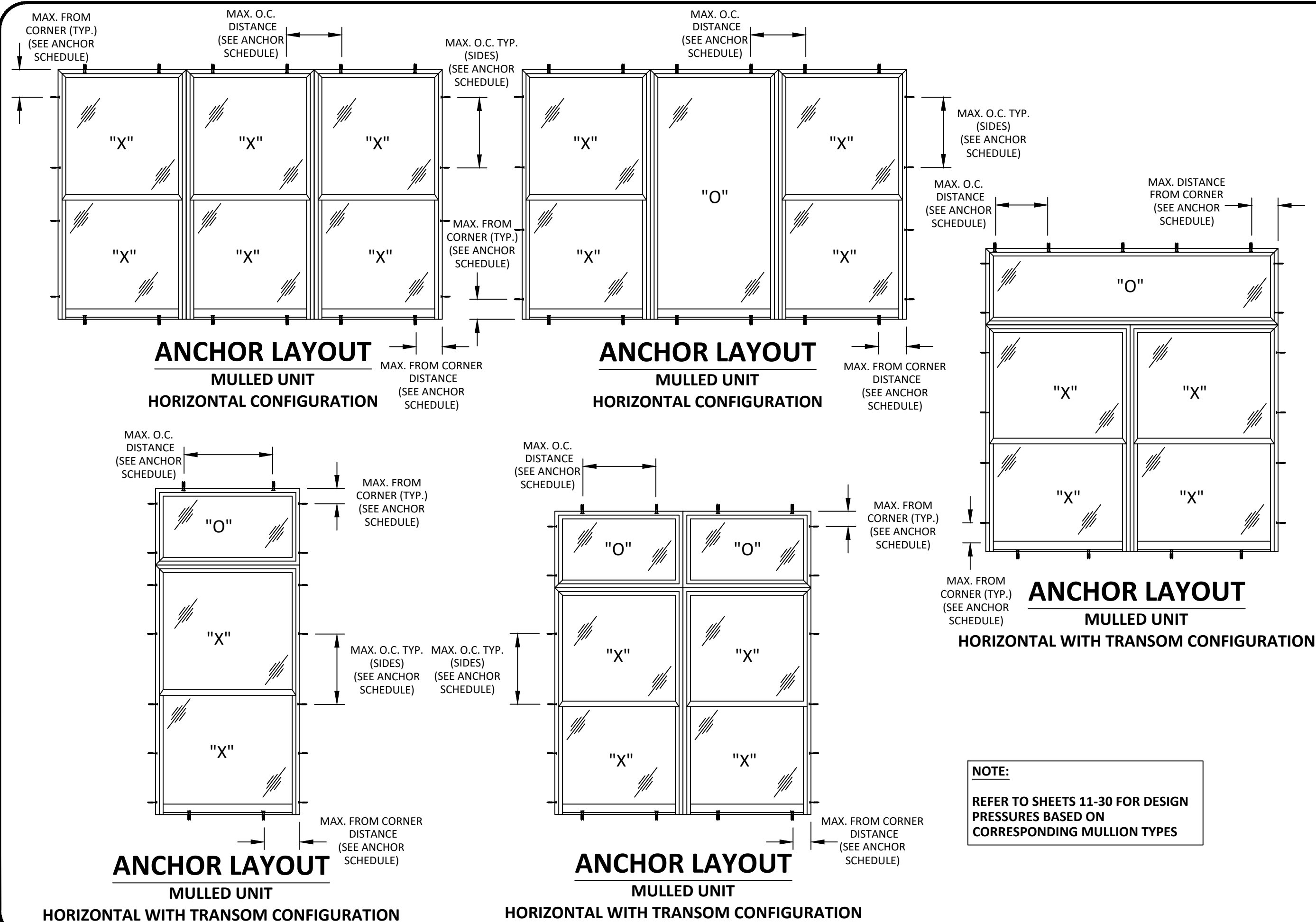
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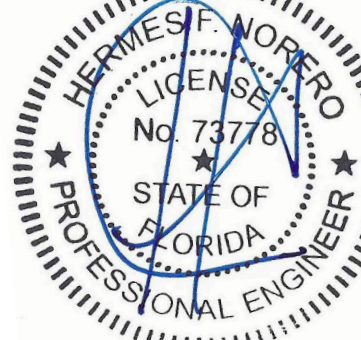
TITLE: E-SERIES DOUBLE HUNG FULL FRAME WINDOW (WZ3) (IMPACT)

MULLED ANCHOR LAYOUTS

PREPARED BY:  **BUILDING DROPS, INC.**
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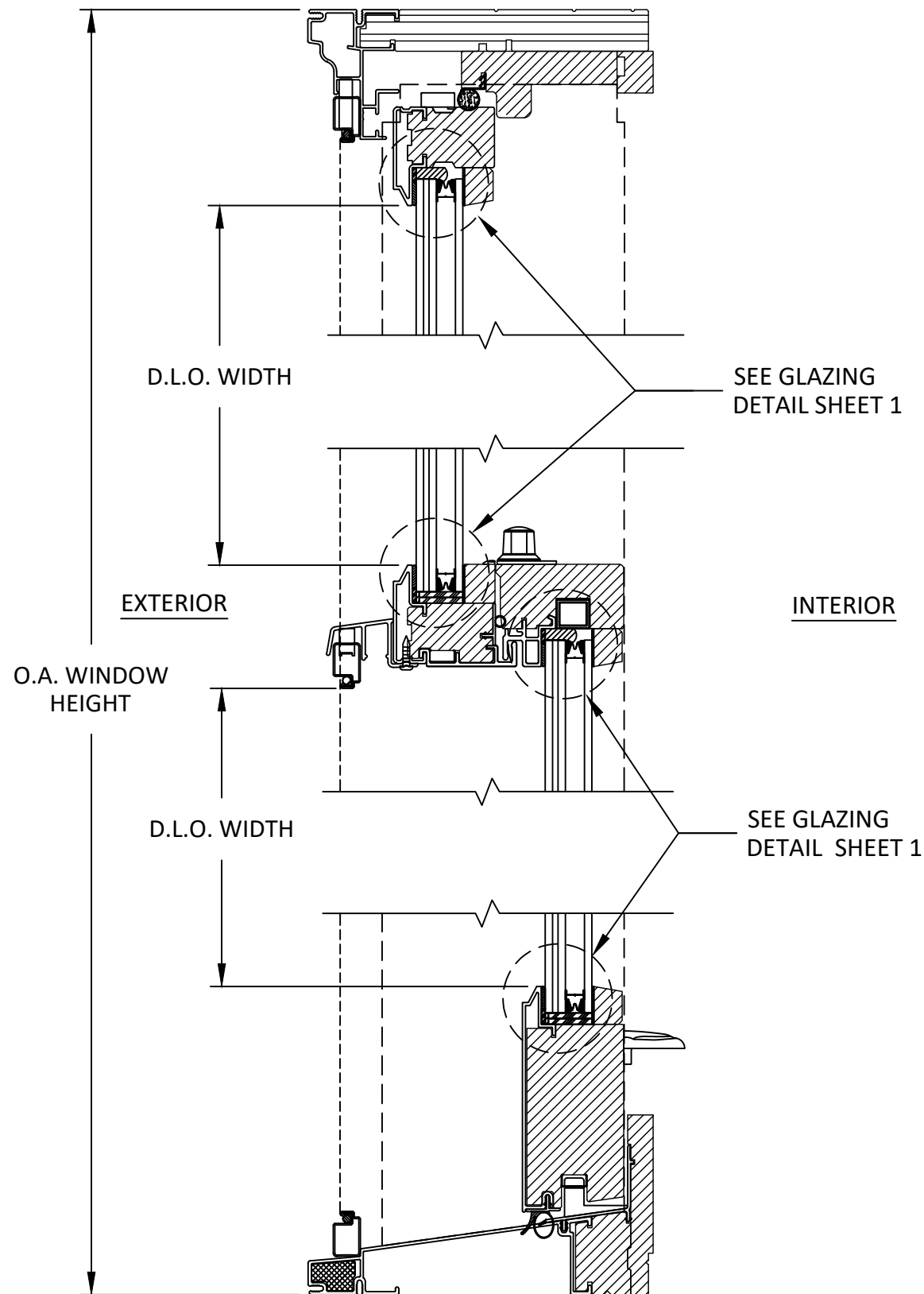


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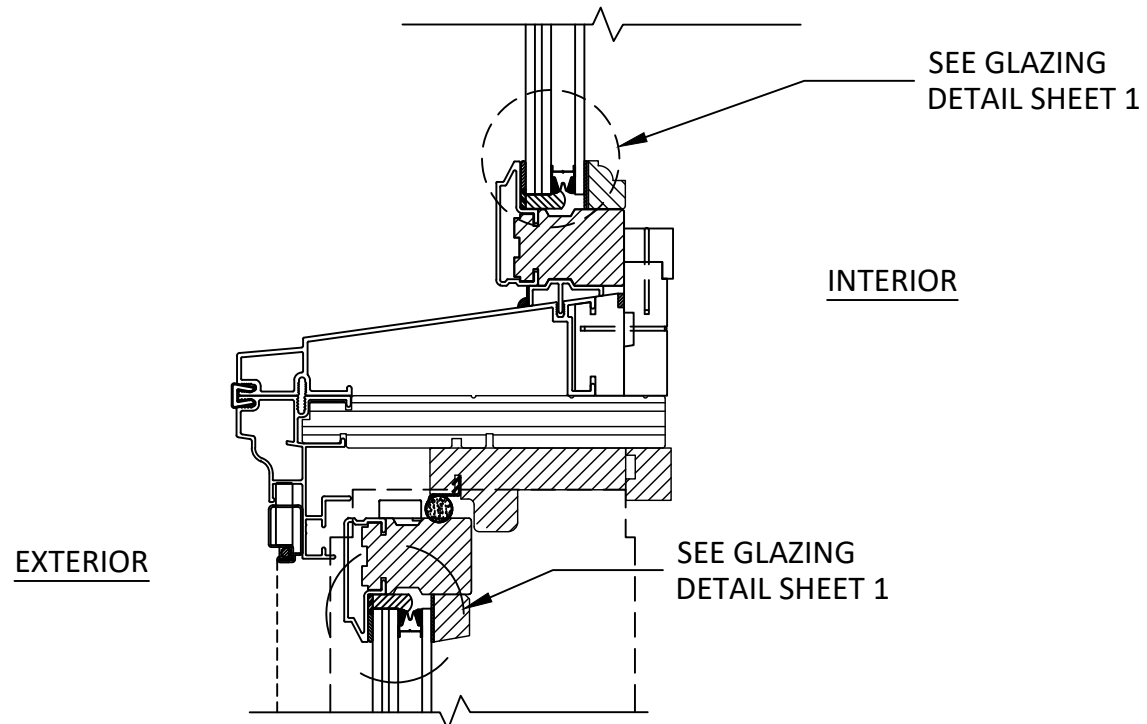
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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD195
SHEET	5

NOTE:
REFER TO SHEETS 11-30 FOR DESIGN PRESSURES BASED ON CORRESPONDING MULLION TYPES

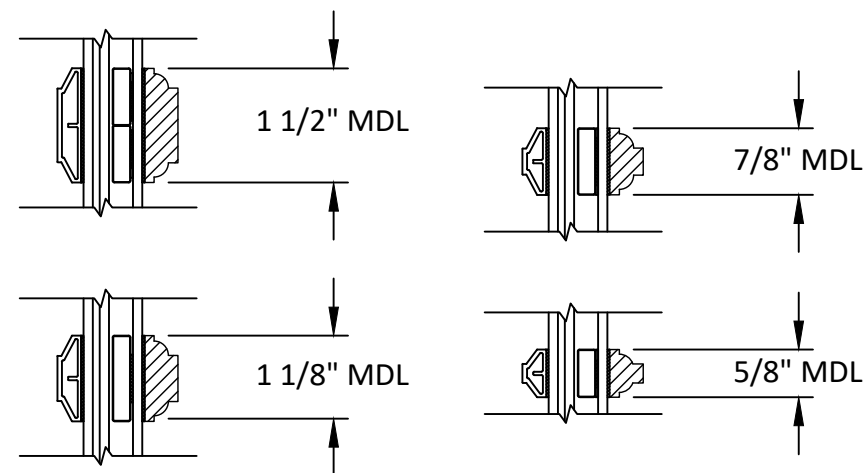
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A
6 **VERTICAL SECTION**
INSULATED GLASS
SIDE VIEW-VERTICAL



B
6 **VERTICAL SECTION**
INSULATED GLASS
ZERO MULLION



**OPTIONAL MUNTIN BAR
ATTACHEMENT TO GLASS**



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TITLE: E-SERIES DOUBLE HUNG FULL FRAME
WINDOW (WZ3) (IMPACT)
VERTICAL SECTIONS

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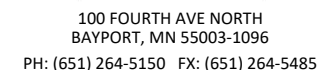
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DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD195

SHEET
6
OF 30



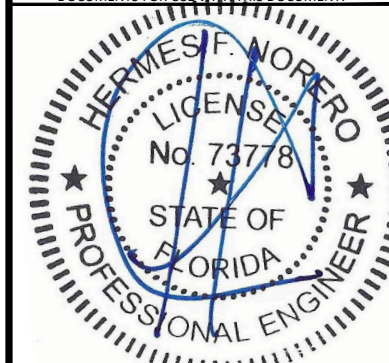
WINDOW (WZ3) (IMPACT MULLED VERTICAL SECTIONS

BUILDING DROPS, INC.
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PH: (954)399-8478
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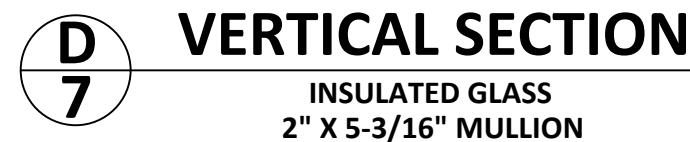
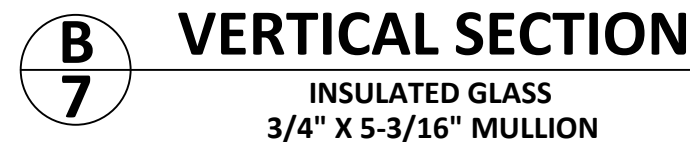
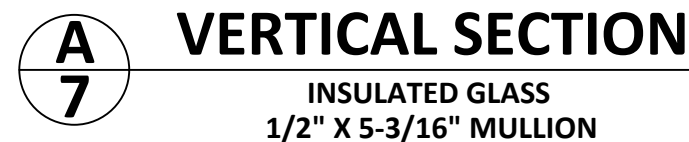
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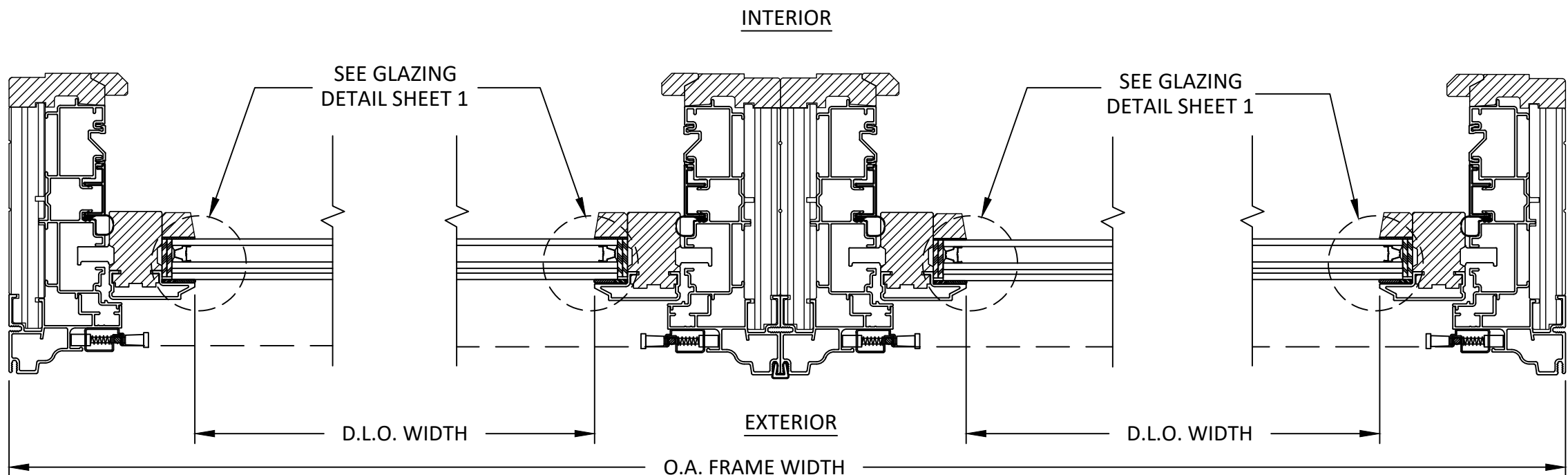
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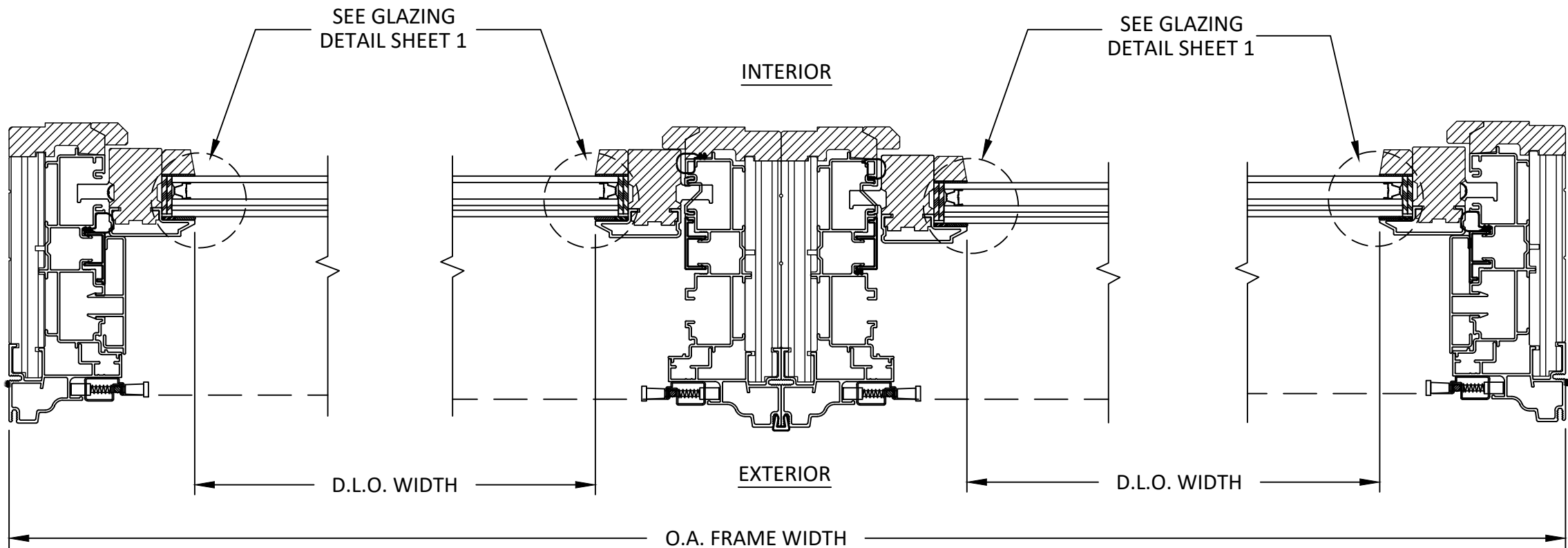
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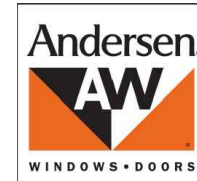
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A
8 **HORIZONTAL SECTION**
INSULATED GLASS
ZERO MULLION



B
8 **HORIZONTAL SECTION**
INSULATED GLASS
ZERO MULLION



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TITLE: E-SERIES DOUBLE HUNG FULL FRAME WINDOW (WZ3) (IMPACT)

HORIZONTAL SECTIONS

PREPARED BY:

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ADDED 3/4" MULL & DP CHARTS	LL	7.31.19

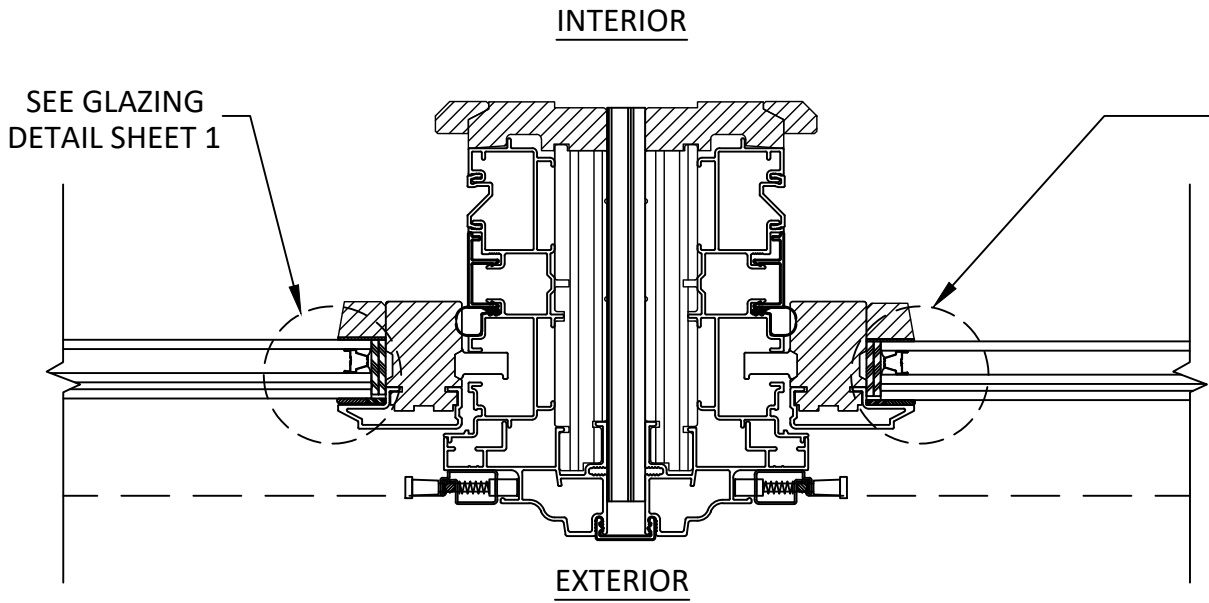
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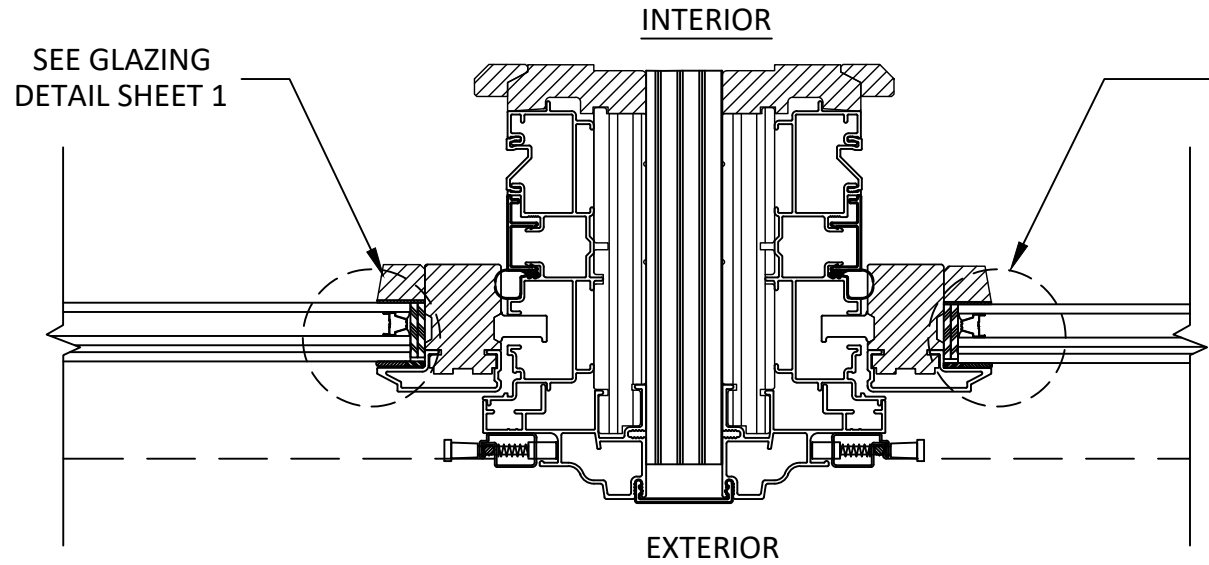
HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL24229
DATE:	10.09.17
DWG. BY:	AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD195

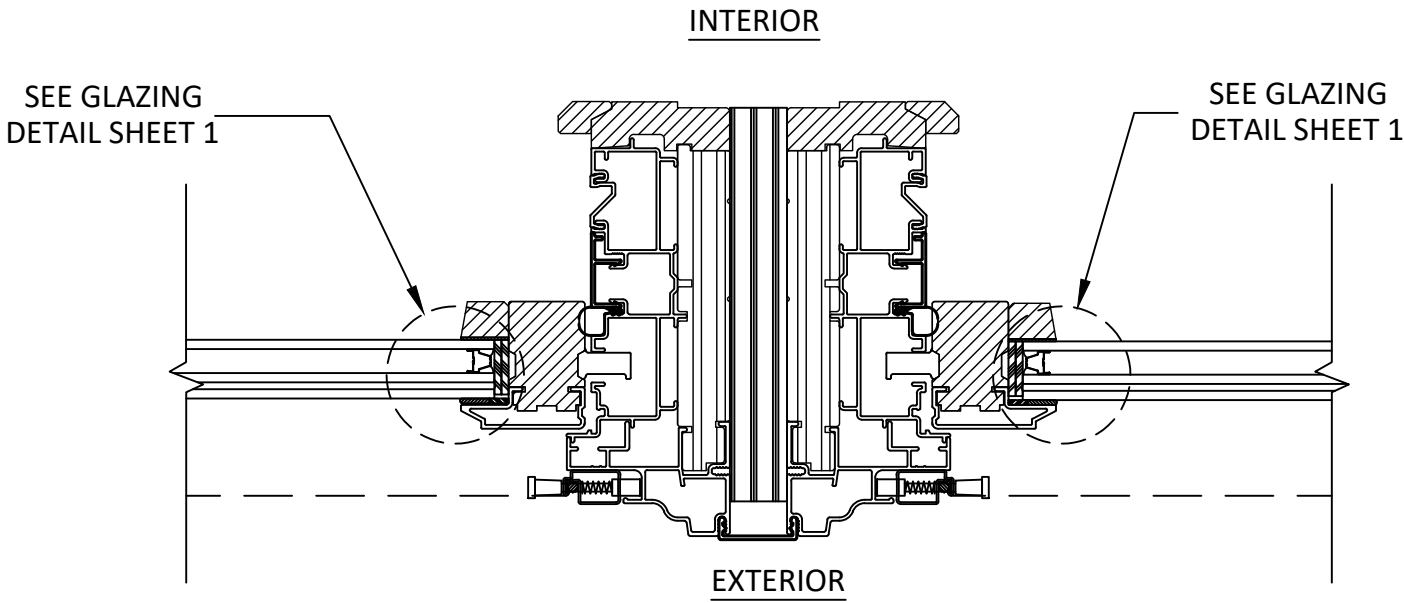
SHEET
8



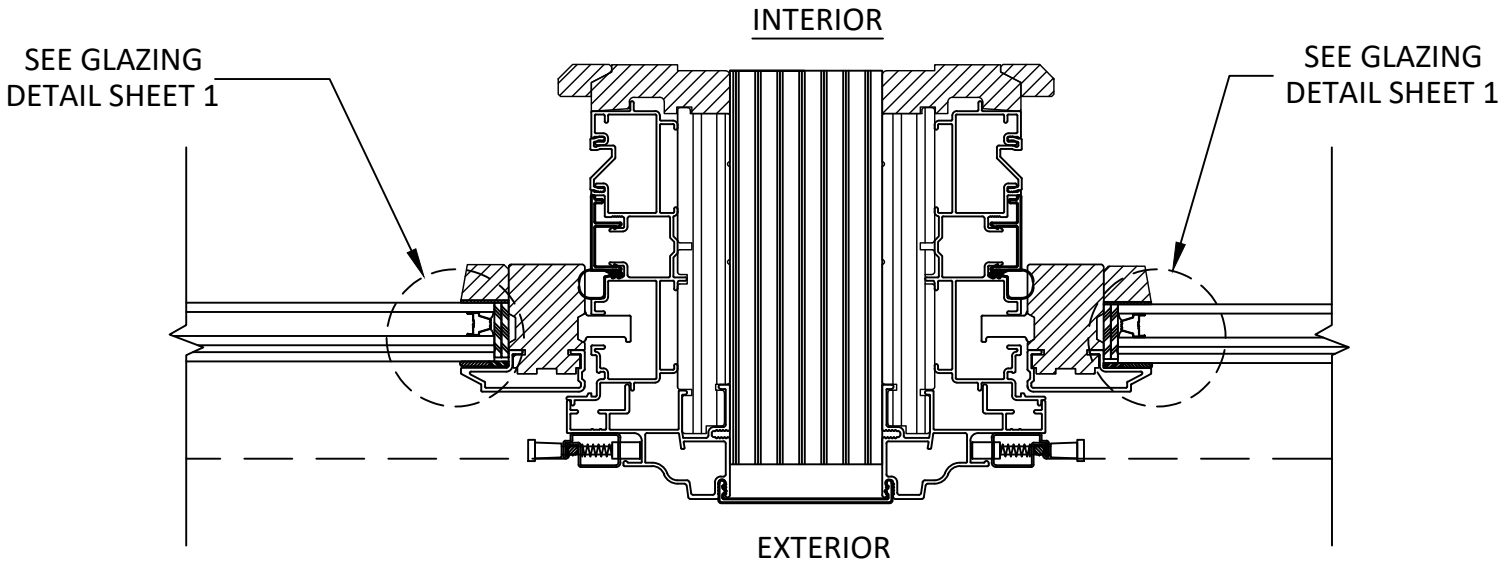
A
9 **HORIZONTAL SECTION**
INSULATED GLASS
1/2" X 5-3/16" MULLION



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

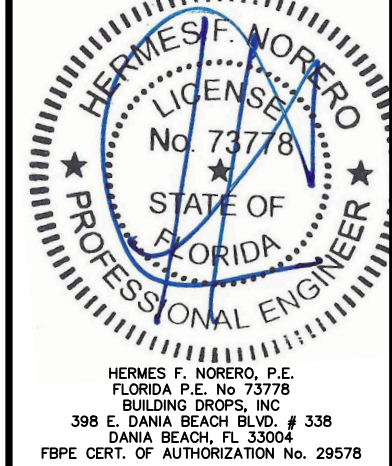


100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES DOUBLE HUNG FULL FRAME WINDOW (WZ3) (IMPACT)
MULLED HORIZONTAL SECTIONS
PREPARED BY: 
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

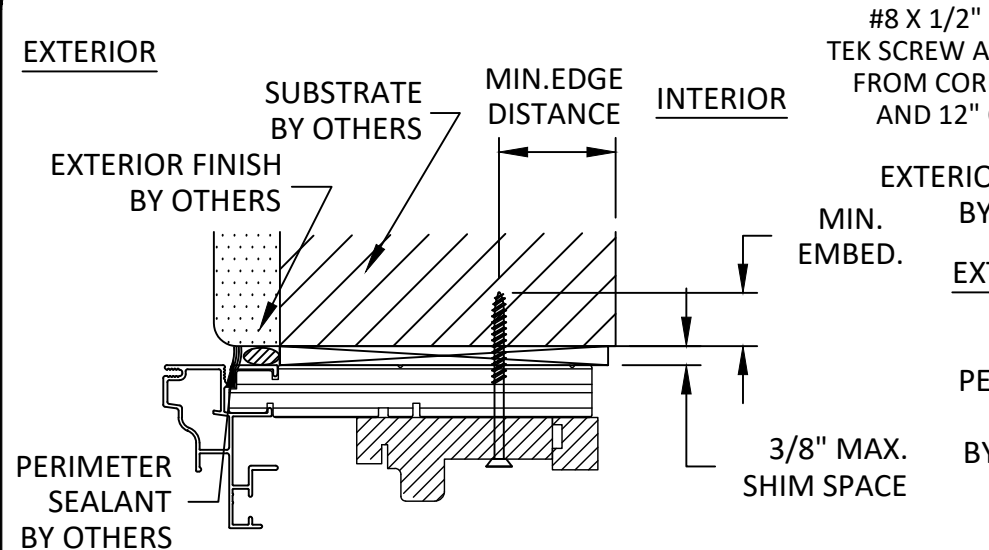
REMARKS	BY	DATE
6TH FBC EDITION	AG	10/17
ADDED ZERO, 1/2", 1" & 2" MULL	HR	4.12.19
ADDED 3/4" MULL & DP CHARTS	LL	7.31.19

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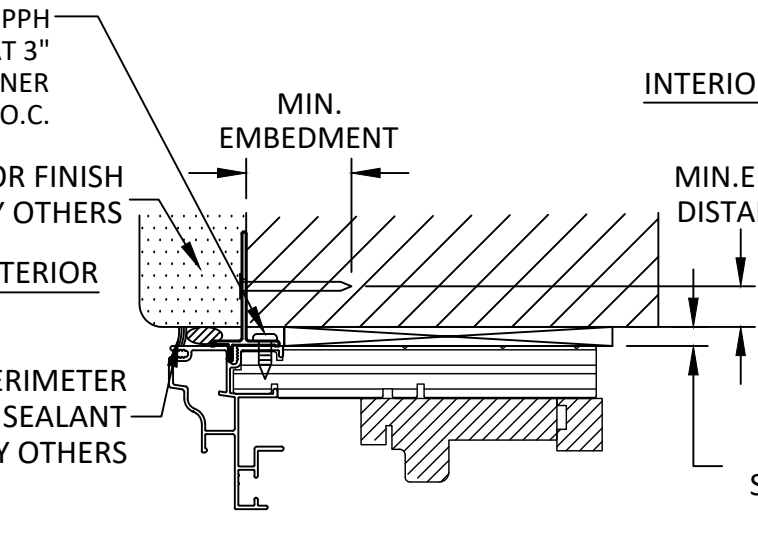


FL #:	FL24229
DATE:	10.09.17
DWG. BY:	CHK. BY:
AG	HFN
SCALE:	NTS
DWG. #:	AWD195
SHEET	9
	OF 30

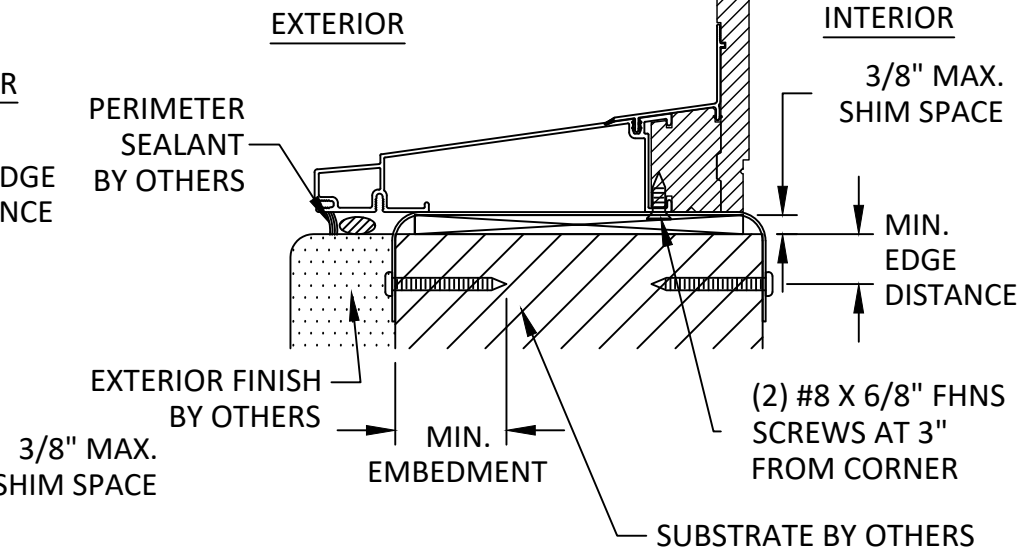
8/14/2019 6:15 PM



A
10
ANCHOR DETAIL
THROUGH FRAME
(HEAD AND JAMBS ONLY)



B
10
ANCHOR DETAIL
THROUGH ALUMINUM NAILING FLANGE
(HEAD, JAMBS, AND SILL)



C
10
ANCHOR DETAIL
STRAP ANCHOR
(HEAD, JAMBS, AND SILL)

- INSTALLATION NOTES:
- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN. TWO (2) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN FOR STRAP INSTALLATION.
 - THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
 - INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
 - SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
 - MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
 - INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
 - FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
 - INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.

ANCHOR SCHEDULE								
INSTALLATION TYPE	ANCHOR QTY PER LOCATION	SUBSTRATE	ANCHOR TYPE	EMBEDMENT (IN.)	EDGE DISTANCE (IN.)	MAX. HEAD/SILL O.C. DISTANCE (IN.)	MAX. JAMB O.C. DISTANCE (IN.)	MAX. CORNER DISTANCE (IN.)
STRAP	2	WOOD : MIN. SG=0.55	#8 WOOD ANCHOR	1.5	0.75	14"	20"	6"
	2	METAL : 18 GAUGE STEEL, MIN. F _y =35KSI	#10 TEK SCREW	3 THREADS MIN. PENETRATION	0.5"			
THROUGH ALUMINUM NAILING FLANGE	1	WOOD : MIN. SG=0.55	#8 WOOD ANCHOR	1.5	0.75	12"	12"	3"
	1	METAL : 18 GAUGE STEEL, MIN. F _y =35KSI	#8 TEK SCREW	3 THREADS MIN. PENETRATION	0.5"			
THRU FRAME (HEAD & SIDES ONLY)	1	WOOD : MIN. SG=0.55	#10 WOOD ANCHOR	1.50	0.75	14"	13"	6"
	1	METAL : 18 GAUGE STEEL, MIN. F _y =35KSI	#10 TEK SCREW	3 THREADS MIN. PENETRATION	0.5			
	1	CONCRETE : f' _c =3000PSI	1/4" ITW TAPCON	1	2.25			
	1	CMU : f' _c =2000PSI	1/4" ITW TAPCON	1	2.0			

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

TITLE: E-SERIES DOUBLE HUNG FULL FRAME WINDOW (WZ3) (IMPACT)

ANCHOR DETAILS

PREPARED BY:

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

REMARKS	BY	DATE
6TH FBC EDITION	AG	10/17
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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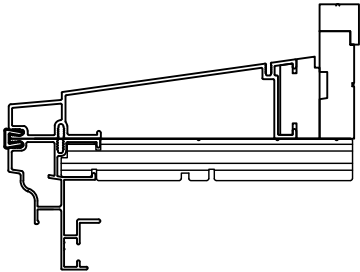
HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL24229
DATE:	10.09.17
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SCALE:	NTS
DWG. #:	AWD195
SHEET	10

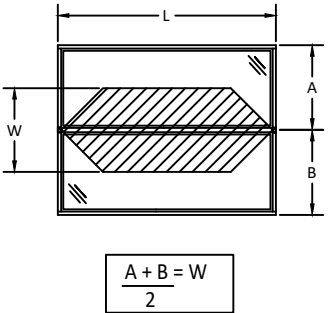
OF 30

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 SHEET 10
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



ZERO MULLION
HORIZONTAL TRANSOM



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

TITLE: E-SERIES DOUBLE HUNG FULL FRAME
WINDOW (WZ3) (IMPACT)
ZERO MULLION LOADS TABLE
ONE WAY (TRANSOM)

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
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REMARKS	BY	DATE
6TH FBC EDITION	AG	10/17
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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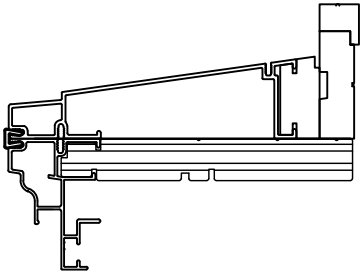
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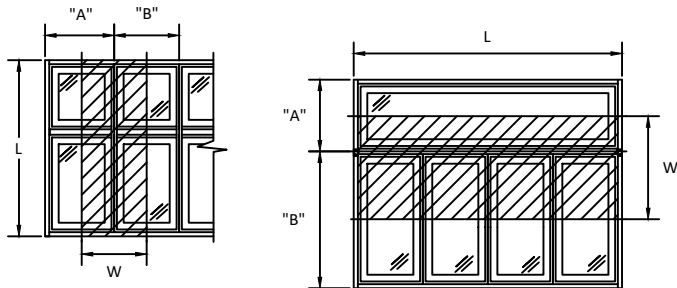
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
ZERO STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Vldth (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	70.00	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:

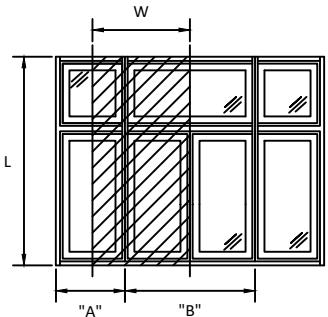
- 1) MULLION CHART APPLIES TO ZERO MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY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



ZERO MULLION
HORIZONTAL TRANSOM



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



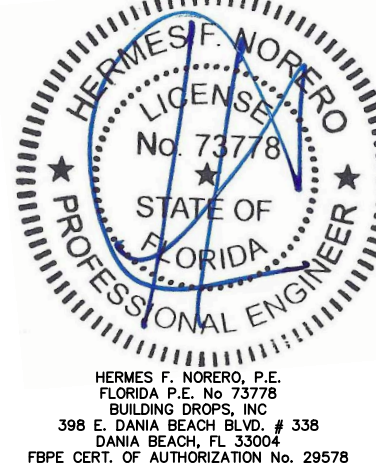
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES DOUBLE HUNG FULL FRAME
WINDOW (W3) (IMPACT)
ZERO MULLION LOADS TABLE
TWO WAY (TRANSOM)

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
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.

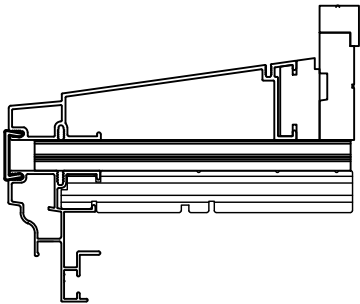


FL #:	FL24229
DATE:	10.09.17
DWG. BY:	CHK. BY:
AG	HFN
SCALE:	NTS
DWG. #:	AWD195
SHEET	12
	OF 30

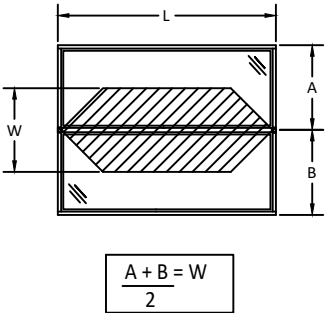
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1/2" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	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 SHEET 10
- 6) TRIBUTARY WIDTH = $W = (A+B)/2$
- 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



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



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

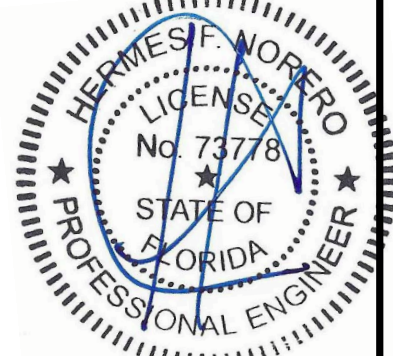
TITLE: E-SERIES DOUBLE HUNG FULL FRAME
WINDOW (WZ3) (IMPACT)
1/2" MULLION LOADS TABLE
ONE WAY (TRANSOM)

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
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. #: AWD195

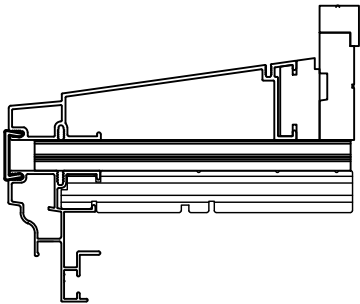
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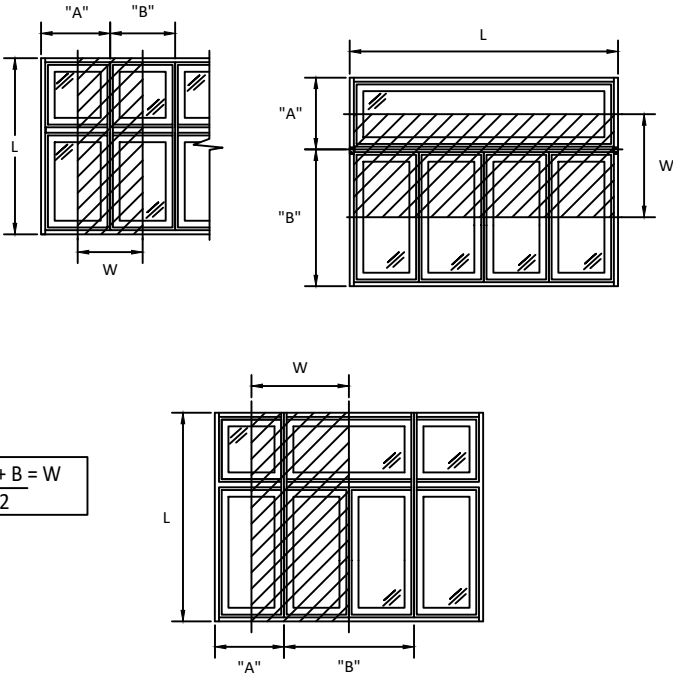
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MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1/2" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	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 SHEET 10
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



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



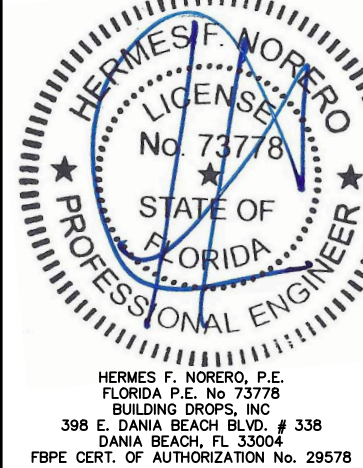
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES DOUBLE HUNG FULL FRAME
WINDOW (WZ3) (IMPACT)
1/2" MULLION LOADS TABLE
TWO WAY (TRANSOM)

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
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. #:	AWD195

SHEET
14
OF 30

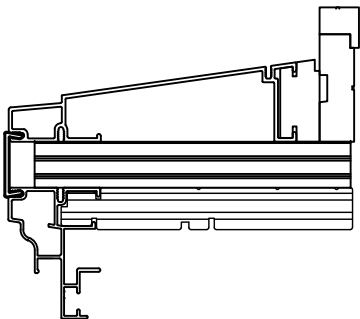
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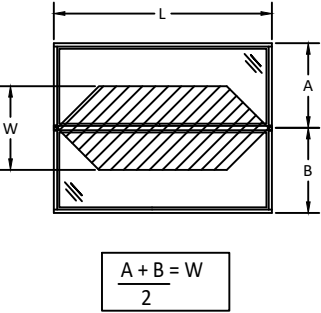
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
3/4" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
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	33.98	31.08	29.49	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
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
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
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
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
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
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
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
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
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
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
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
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	3.60
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

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 SHEET 10
- 6) TRIBUTARY WIDTH = $W = (A+B)/2$
- 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



3/4" X 5 3/16" MULLION
HORIZONTAL TRANSOM



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

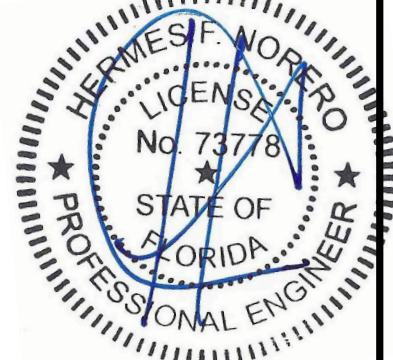
TITLE: E-SERIES DOUBLE HUNG FULL FRAME
WINDOW (WZ3) (IMPACT)
3/4" MULLION LOADS TABLE
ONE WAY (TRANSOM)

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
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

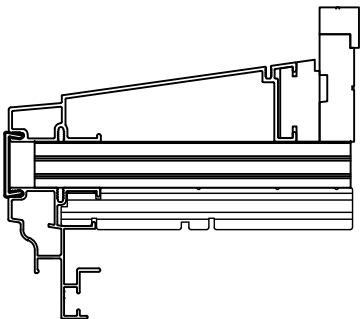
DWG. #: AWD195

SHEET
15

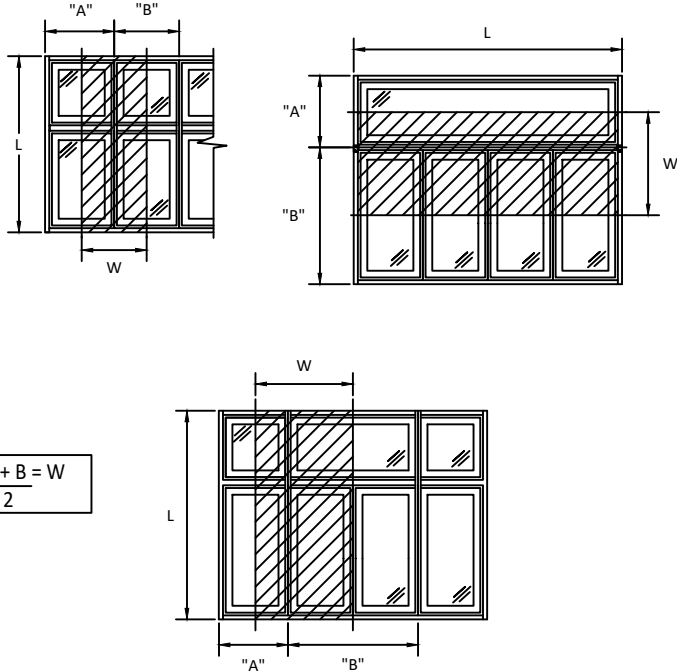
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
3/4" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	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 SHEET 10
- 6) TRIBUTARY WIDTH = $W = (A+B)/2$
- 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



3/4" X 5 3/16" MULLION
HORIZONTAL TRANSOM



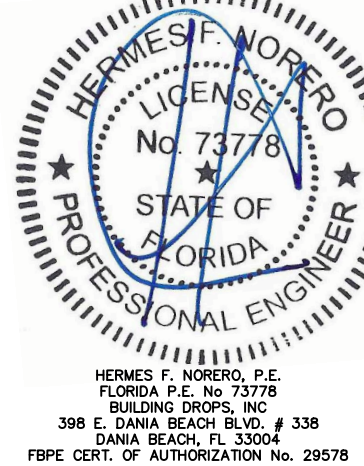
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES DOUBLE HUNG FULL FRAME
WINDOW (WZ3) (IMPACT)
3/4" MULLION LOADS TABLE
TWO WAY (TRANSOM)

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
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**

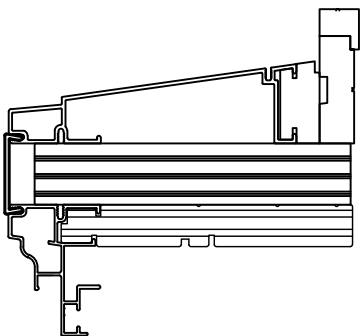
DWG. #: **AWD195**

SHEET
16
OF 30

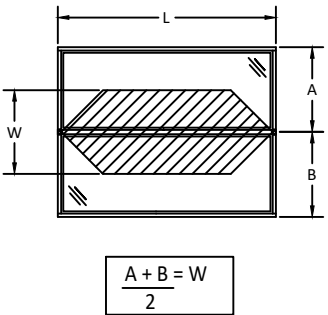
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	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.
- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEET 10
- 6) TRIBUTARY WIDTH = $W = (A+B)/2$
- 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



1" X 5 3/16" MULLION
HORIZONTAL TRANSOM



 100 FOURTH AVE NORTH BAYPORT, MN 55003-1096 PH: (651) 264-5150 FX: (651) 264-5485		
TITLE: E-SERIES DOUBLE HUNG FULL FRAME WINDOW (W23) (IMPACT) 1" MULLION LOADS TABLE ONE WAY (TRANSOM)	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
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. #: AWD195		
SHEET 17 OF 30		

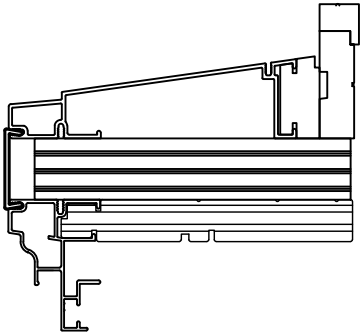
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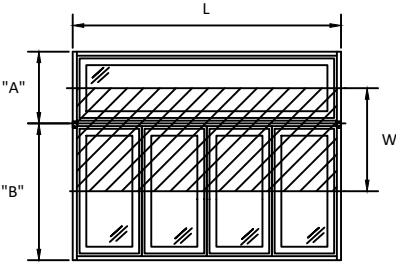
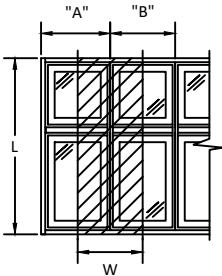
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	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:

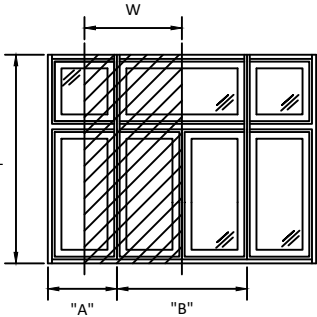
- 1) MULLION CHART APPLIES TO 1" MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR 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 SHEET 10
- 6) TRIBUTARY WIDTH = W = (A+B)/2
- 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



1" X 5 3/16" MULLION
HORIZONTAL TRANSOM



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



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

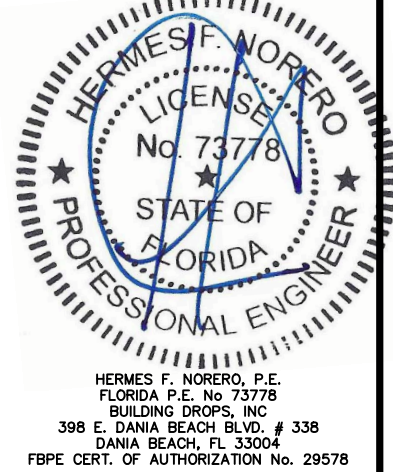
TITLE: E-SERIES DOUBLE HUNG FULL FRAME
WINDOW (WZ3) (IMPACT)
1" MULLION LOADS TABLE
TWO WAY (TRANSOM)

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
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. #: AWD195

SHEET

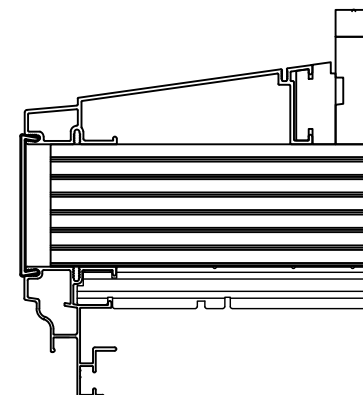
18

OF 30

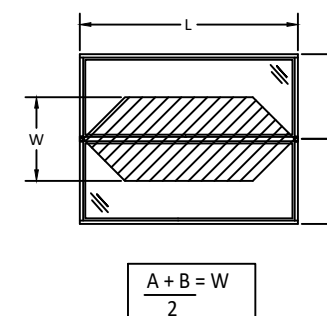
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
2" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	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 SHEET 10
- 6) TRIBUTARY WIDTH = $W = (A+B)/2$
- 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



2" X 5 3/16" MULLION
HORIZONTAL TRANSOM



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

TITLE: E-SERIES DOUBLE HUNG FULL FRAME WINDOW (W23) (IMPACT)
2" MULLION LOADS TABLE
ONE WAY (TRANSOM)

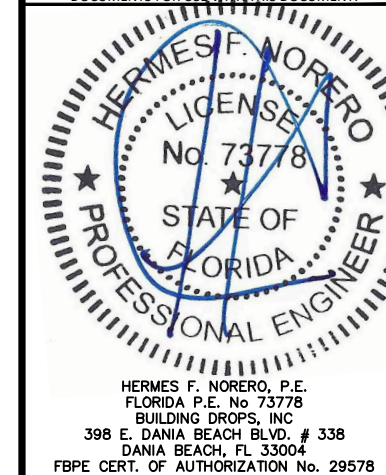


PREPARED BY:

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

REMARKS	BY	DATE
6TH FBC EDITION	AG	10/17/15
ADDED ZERO, 1/2", 1" & 2" MULL	HR	4.12.15
ADDED 3/4" MULL & DP CHARTS	LL	7.31.15

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FL #: FL24229

DATE: 10.09.17

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

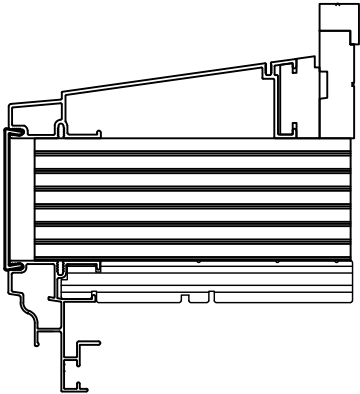
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SHEET
19

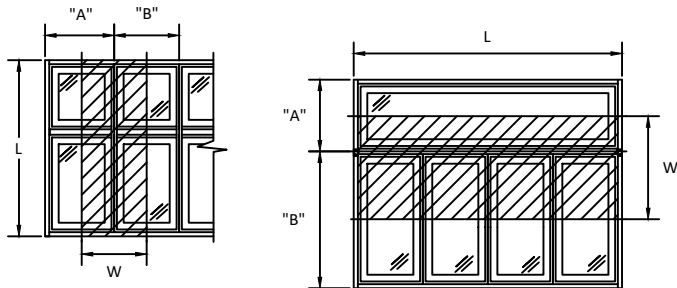
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
2" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	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:

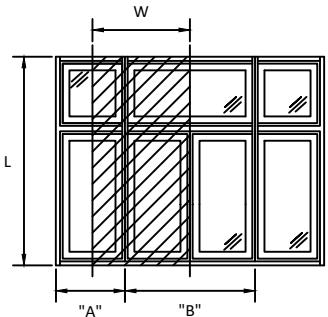
- 1) MULLION CHART APPLIES TO 2" MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR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



2" X 5 3/16" 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 (W3) (IMPACT)
2" MULLION LOADS TABLE
TWO WAY (TRANSOM)

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
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.



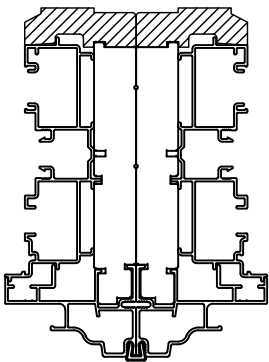
HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL24229
DATE:	10.09.17
DWG. BY:	CHK. BY:
AG	HFN
SCALE:	NTS
DWG. #:	AWD195
SHEET	

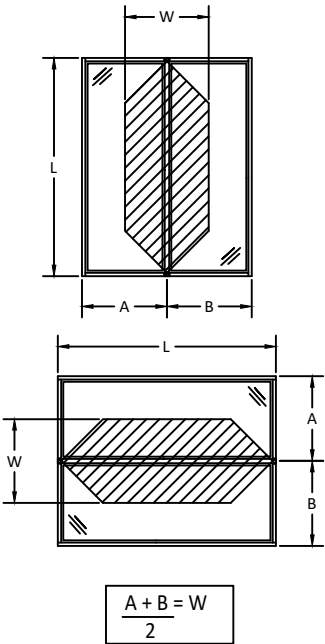
20

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 SHEET 10
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



ZERO MULLION



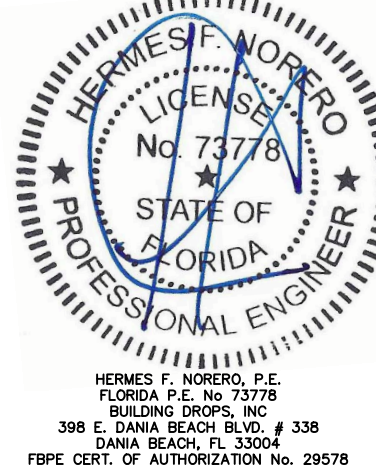
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES DOUBLE HUNG FULL FRAME
WINDOW (W3) (IMPACT)
ZERO MULLION LOADS TABLE
ONE WAY

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

REMARKS	BY	DATE
6TH FBC EDITION	AG	10/17
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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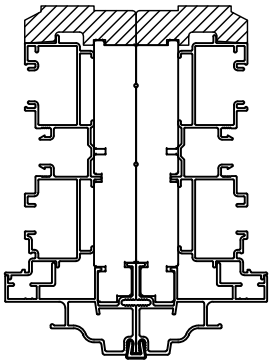
FL #:	FL24229
DATE:	10.09.17
DWG. BY:	AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD195
SHEET	21
	OF 30

s:\projects\andersen windows\lbc-19-0548-2 - fbc submittal - e-series mullion revisions\dwgs\l74229-1 & -3\lwd195 - fl10239-1 & 2\l11 edits.dwg 8/14/2019 6:15 PM

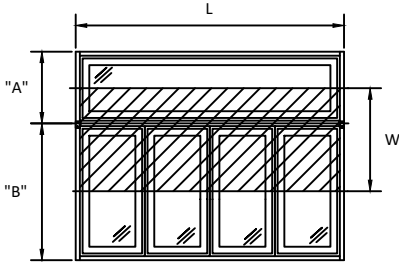
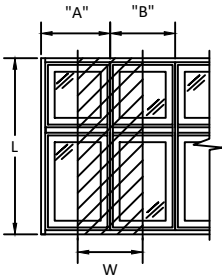
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
ZERO STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	70.00	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:

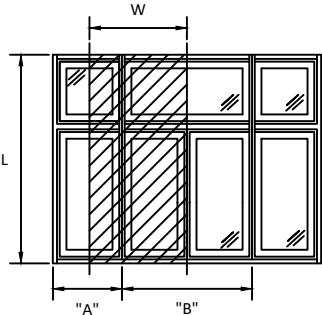
- 1) MULLION CHART APPLIES TO ZERO MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- 4) DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY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



ZERO MULLION



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



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

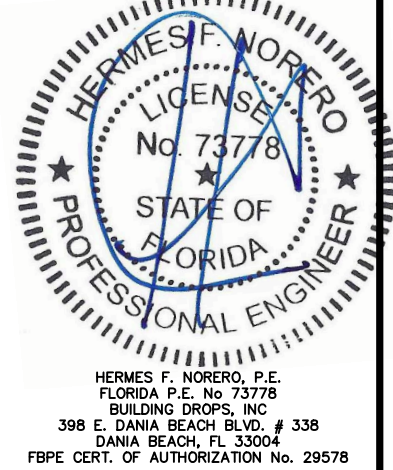
TITLE: E-SERIES DOUBLE HUNG FULL FRAME WINDOW (W33) (IMPACT)
ZERO MULLION LOADS TABLE
TWO WAY

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



REMARKS	BY	DATE
6TH FBC EDITION	AG	10/17
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**

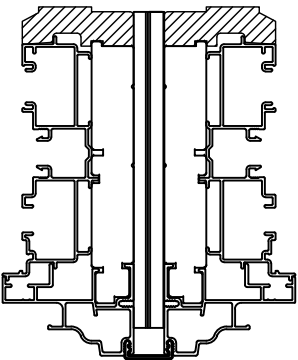
DWG. #: **AWD195**

SHEET
22
OF 30

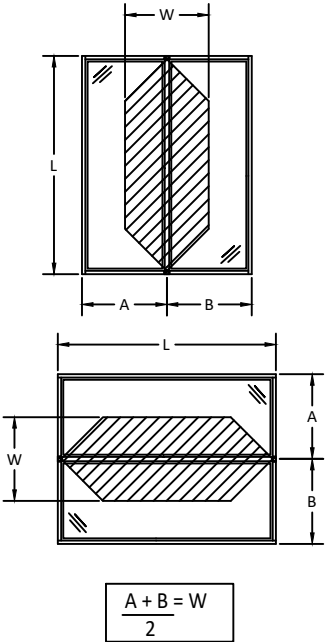
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1/2" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	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 SHEET 10
- 6) TRIBUTARY WIDTH = $W = (A+B)/2$
- 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



1/2" X 5 3/16" MULLION



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

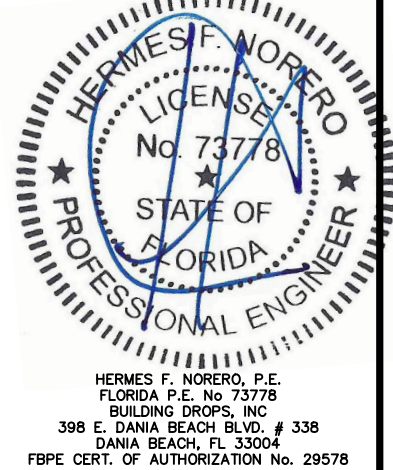
TITLE: E-SERIES DOUBLE HUNG FULL FRAME WINDOW (WZ3) (IMPACT)
1/2" MULLION LOADS TABLE
ONE WAY

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 395-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
6TH FBC EDITION	AG	10/17
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. #: AWD195

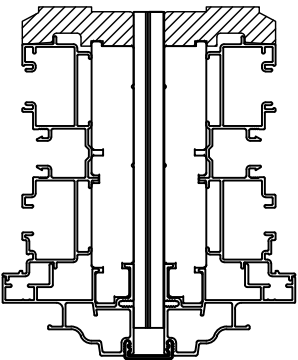
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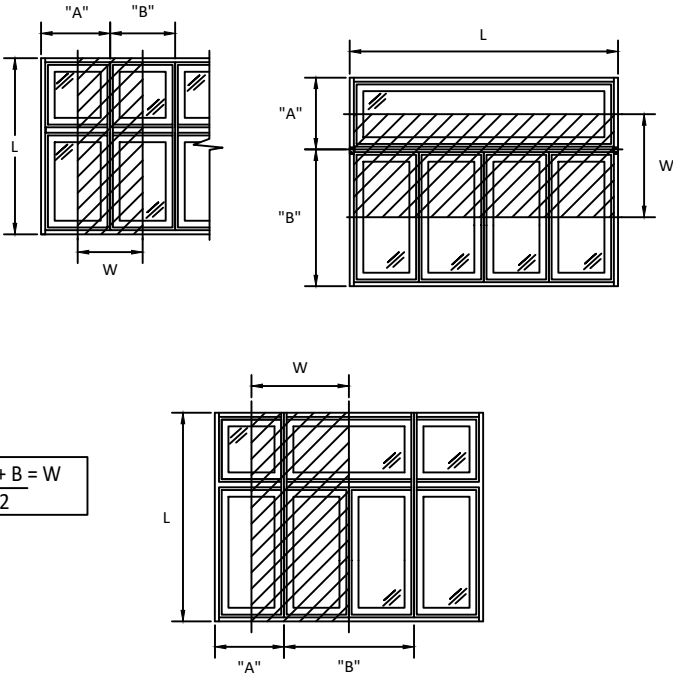
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MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1/2" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	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 SHEET 10
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



1/2" 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 (WZ3) (IMPACT)

1/2" MULLION LOADS TABLE
TWO WAY

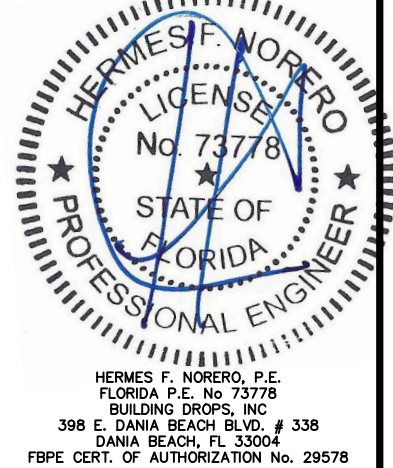
PREPARED BY:

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



REMARKS	BY	DATE
6TH FBC EDITION	AG	10/17
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. #: AWD195

SHEET

24

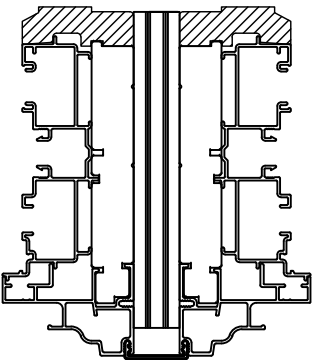
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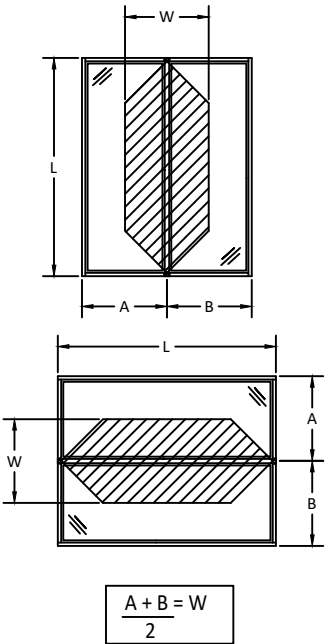
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
3/4" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
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	33.98	31.08	29.49	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
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
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
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
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
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
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
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
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
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
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
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
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	3.60
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

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 SHEET 10
- 6) TRIBUTARY WIDTH = $W = (A+B)/2$
- 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



3/4" X 5 3/16" 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 (WZ3) (IMPACT)

3/4" MULLION LOADS TABLE
ONE WAY

PREPARED BY:

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



REMARKS	BY	DATE
6TH FBC EDITION	AG	10/17
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. #:

AWD195

SHEET

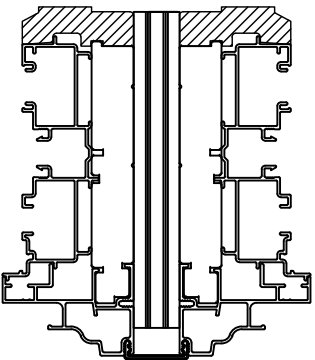
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OF 30

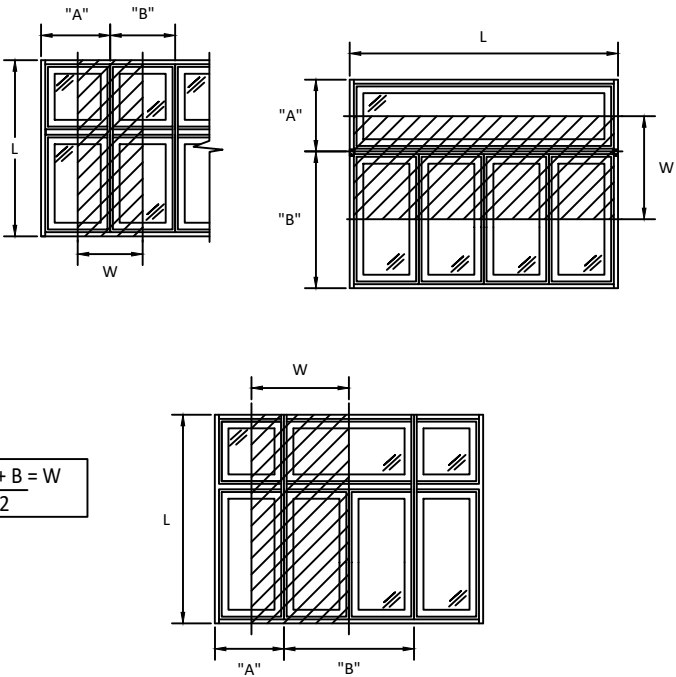
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
3/4" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	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	70.00	61.60	54.76	49.28	44.80	41.07	37.91	35.20	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 SHEET 10
- 6) TRIBUTARY WIDTH = $W = (A+B)/2$
- 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



3/4" X 5 3/16" MULLION



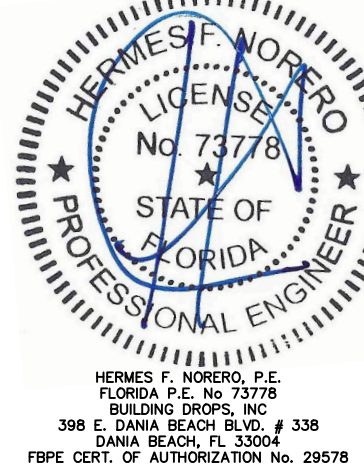
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES DOUBLE HUNG FULL FRAME WINDOW (W3) (IMPACT)
3/4" MULLION LOADS TABLE TWO WAY

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 395-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

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

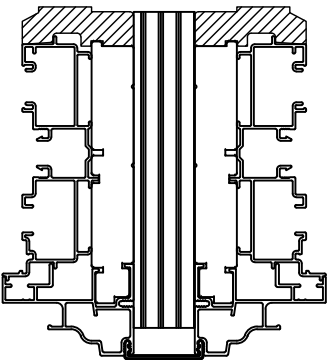
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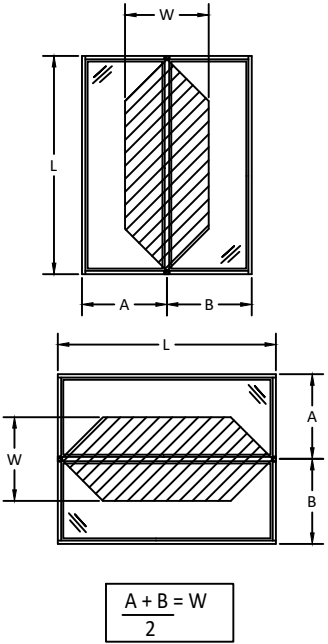
FL #:	FL24229
DATE:	10.09.17
DWG. BY:	CHK. BY:
AG	HFN
SCALE:	NTS
DWG. #:	AWD195
SHEET	26
OF 30	

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.
 - 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS AS LISTED ON SHEET 10
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



1" X 5 3/16" 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 (WZ3) (IMPACT)

1" MULLION LOADS TABLE
ONE WAY

PREPARED BY:

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



REMARKS	BY	DATE
6TH FBC EDITION	AG	10/17
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

SCALE: NTS

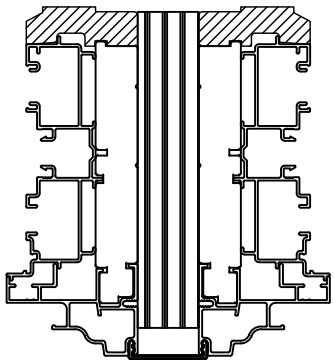
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SHEET 27

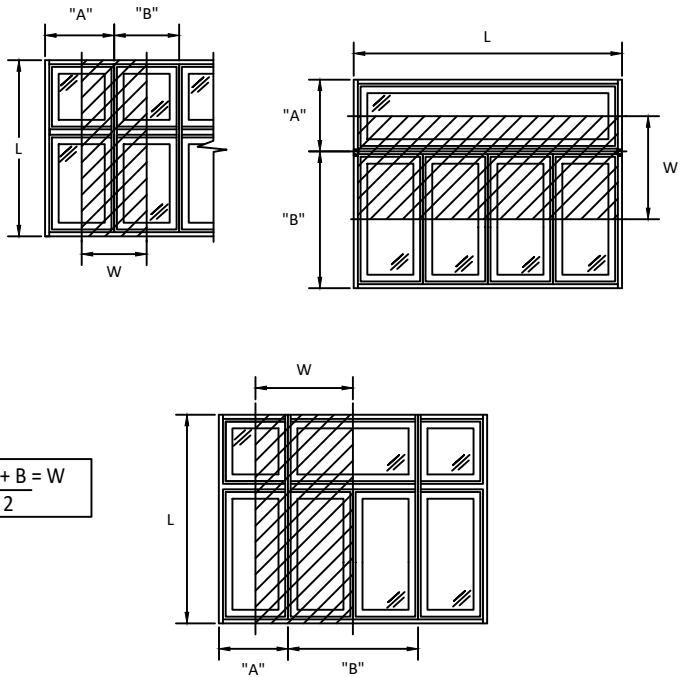
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MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
1" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	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 SHEET 10
 - 6) TRIBUTARY WIDTH = $W = (A+B)/2$
 - 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



1" X 5 3/16" 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 (WZ3) (IMPACT)
1" MULLION LOADS TABLE
TWO WAY

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

REMARKS	BY	DATE
6TH FBC EDITION	AG	10/17
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.

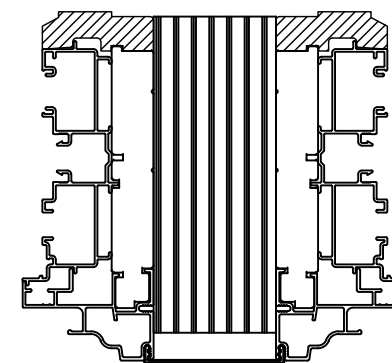


FL #:	FL24229
DATE:	10.09.17
DWG. BY:	AG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD195
SHEET	28
OF	30

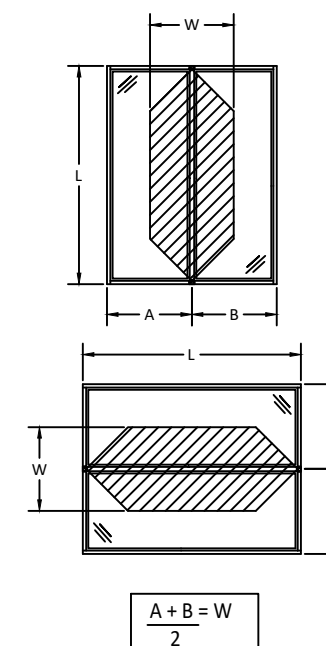
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
2" X 5-3/16" STRUCTURAL MULLION (ONE-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	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 SHEET 10
- 6) TRIBUTARY WIDTH = $W = (A+B)/2$
- 7) WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



2" X 5 3/16" 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 (WZ3) (IMPACT)
2" MULLION LOADS TABLE
ONE WAY

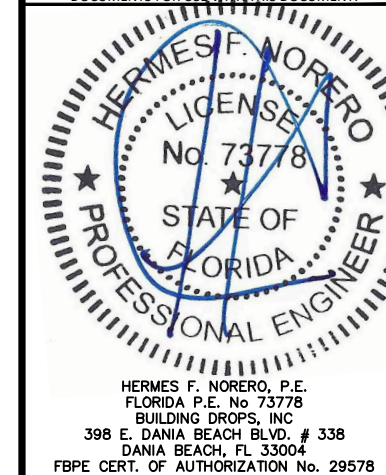


PREPARED BY:

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

REMARKS	BY	DATE
6TH FBC EDITION	AG	10/17/15
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 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.



FL #: **FL24229**

DATE: 10.09.17

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

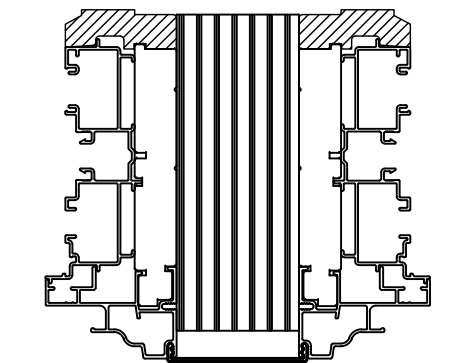
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SHEET
29

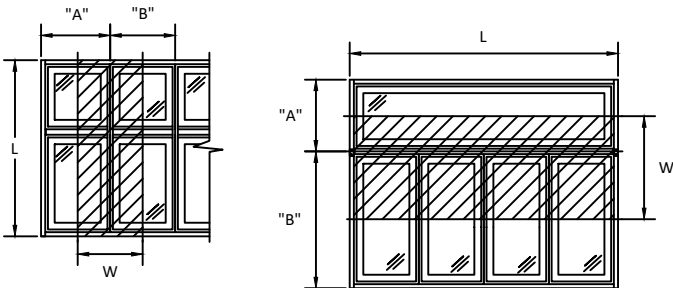
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF)															
2" X 5-3/16" STRUCTURAL MULLION (TWO-WAY) CONFIGURATION															
L - Mull Length (in)	W - Tributary Width (in)														
	24.0	36.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0	132.0	144.0	156.0	168.0	180.0	192.0
24.0	70.00	70.00	70.00	70.00	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:

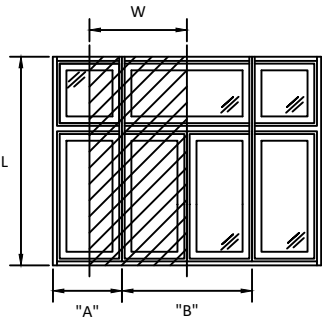
- 1) MULLION CHART APPLIES TO 2" MULL ASSEMBLIES, WHEN MULLED IN TWO-WAY CONFIGURATIONS.
- 2) DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- 3) MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
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- 5) MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION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



2" X 5 3/16" MULLION



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



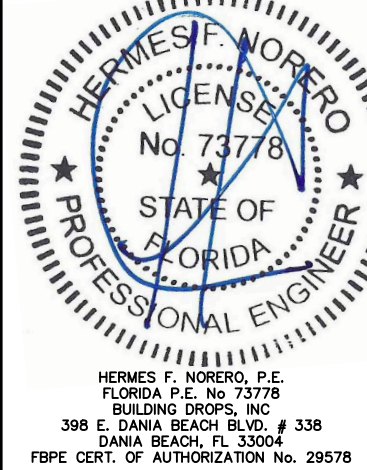
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: E-SERIES DOUBLE HUNG FULL FRAME
WINDOW (W3) (IMPACT)
2" MULLION LOADS TABLE
TWO WAY

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
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REMARKS	BY	DATE
6TH FBC EDITION	AG	10/17
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. #:	AWD195
SHEET	30
OF	30