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INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4. INSTALLATION CLIP: FOR INSTALLATION INTO 2X WOOD FRAME USE TWO (2) #8 WOOD SCREWS OR ONE (1) #10 WOOD SCREW PER INSTALLATION CLIP OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
5. INSTALLATION CLIP: FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/ MASONRY, USE ONE (1) 3/16 INCH ITW TAPCON PER INSTALLATION CLIP OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
6. INSTALLATION CLIP: FOR INSTALLATION THROUGH METAL STUD USE ONE (1) #8 SELF-TAPPING SCREWS PER INSTALLATION CLIP OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION BEYOND METAL FRAME SUBSTRATE.
7. FASTENER THROUGH FRAME: FOR INSTALLATION INTO 2X WOOD FRAME USE ONE (1) #8 WOOD SCREW PER LOCATION OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
8. FASTENER THROUGH FRAME: FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/ MASONRY, USE ONE (1) 3/16 INCH ITW TAPCON PER LOCATION OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
9. FASTENER THROUGH FRAME: FOR INSTALLATION THROUGH METAL STUD USE ONE (1) #10 SELF-TAPPING SCREWS PER LOCATION OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION BEYOND METAL FRAME SUBSTRATE.
10. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
11. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
12. 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.
13. 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.
14. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.

B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

C. GROUT-FILLED CMU- UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.

D. HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.

E. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 33 MILS. (20 GUAGE)

F. ALUMINUM - 1/8" MINIMUM THICKNESS (6063-T5).

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ, AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:

• AAMA/WDMA/CSA 101/I.S.2/A440-11
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. WINDOW FRAME MATERIAL: PONDEROSA PINE OR EQUAL.
7. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 5 FOR GLAZING DETAIL.
8. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:

X: OPERABLE PANEL

O: FIXED PANEL
9. CUSTOM SIZES AVAILABLE UPON REQUEST.

ANDERSEN CORPORATION

400 SERIES CASEMENT WINDOW

WITH PG UPGRADE

(NON-HVHZ)(NON-IMPACT)

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7	ONE-WAY MULL DP TABLES (1) & ELEVATIONS
8	ONE-WAY MULL DP TABLES (2) & ELEVATIONS
9	TWO-WAY MULL DP TABLES (1), ELEVATION, & MULL ANCHOR DETAILS
10	TWO-WAY MULL DP TABLES (2) & ELEVATION

DESIGN PRESSURE	MISSILE IMPACT RATING
+70/-70 PSF ALL SIZES	NON-IMPACT



ANDERSEN
WINDOWS & DOORS

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TITLE: 400 SERIES CASEMENT WINDOW WITH PG UPGRADE (NON-HVHZ) (NON-IMPACT) GENERAL & INSTALLATION NOTES

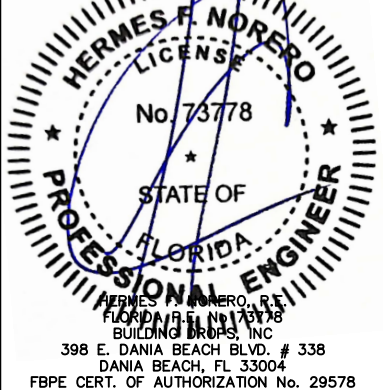
PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
5TH FBC CODE CHANGE	SM	4.8.15
6TH FBC CODE CHANGE	HR	8.9.17
7TH FBC CODE CHANGE	SR	3.16.20
8TH FBC CODE CHANGE	OL	5.19.23

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2023.08.14 19:00:48 -0400'



FL #:

FL12496

DATE:

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HFN

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NTS

DWG. #:

AWD116

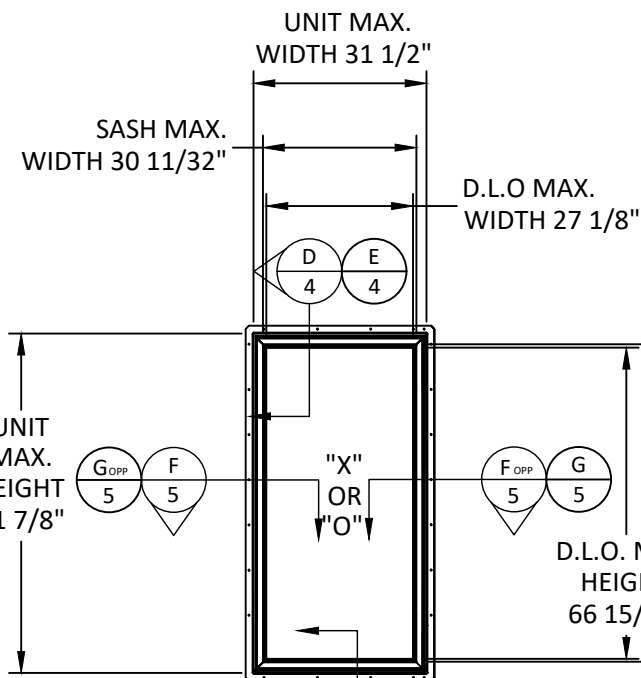
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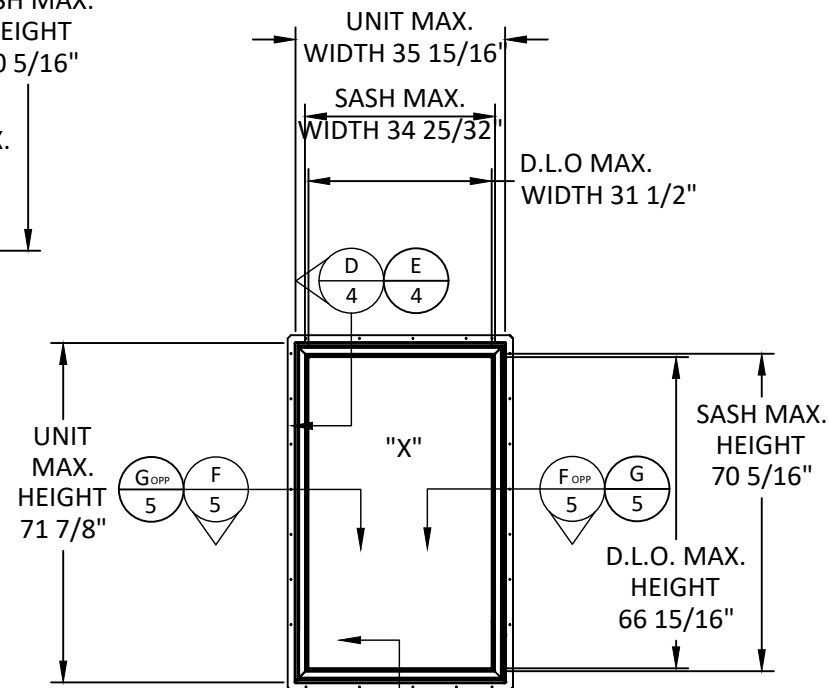
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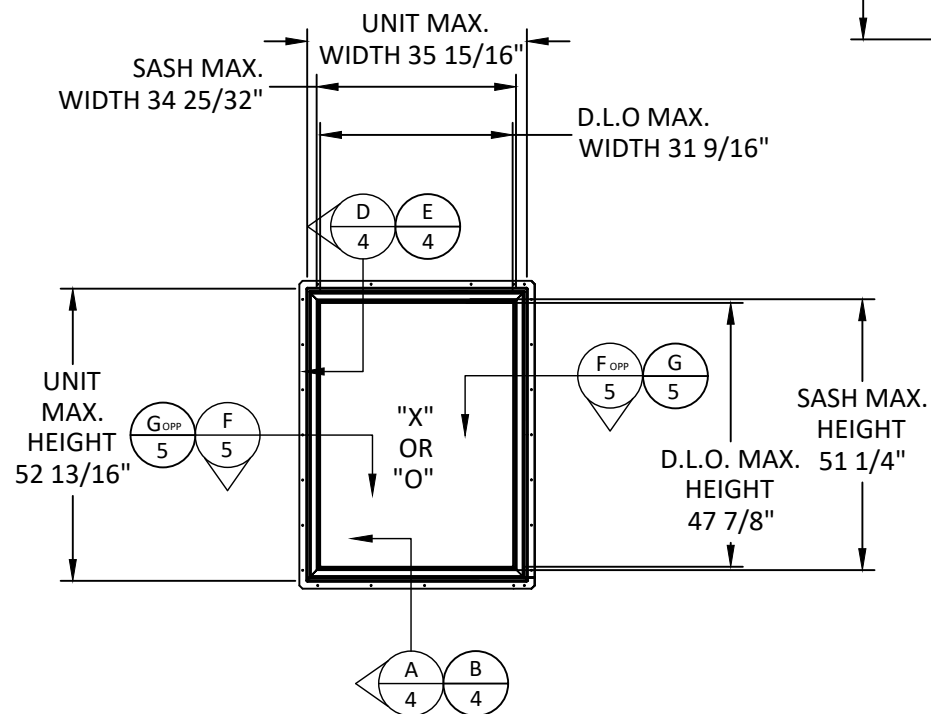
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**ELEVATION
CX16**

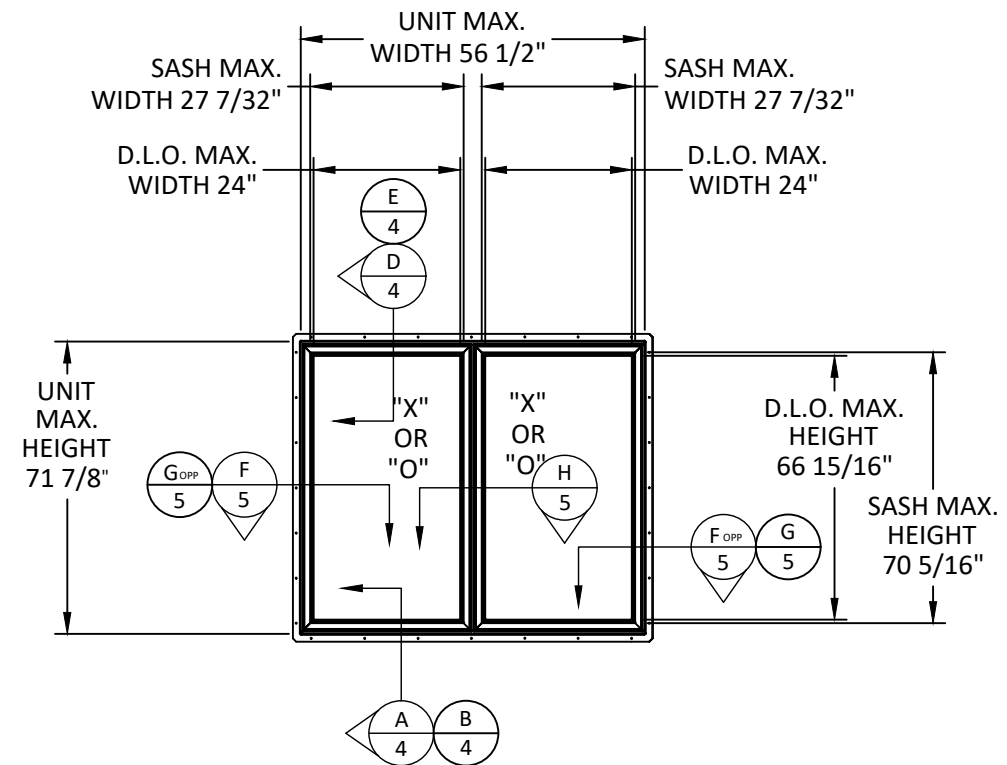


**ELEVATION
CXW16
(STATIONARY ONLY)**

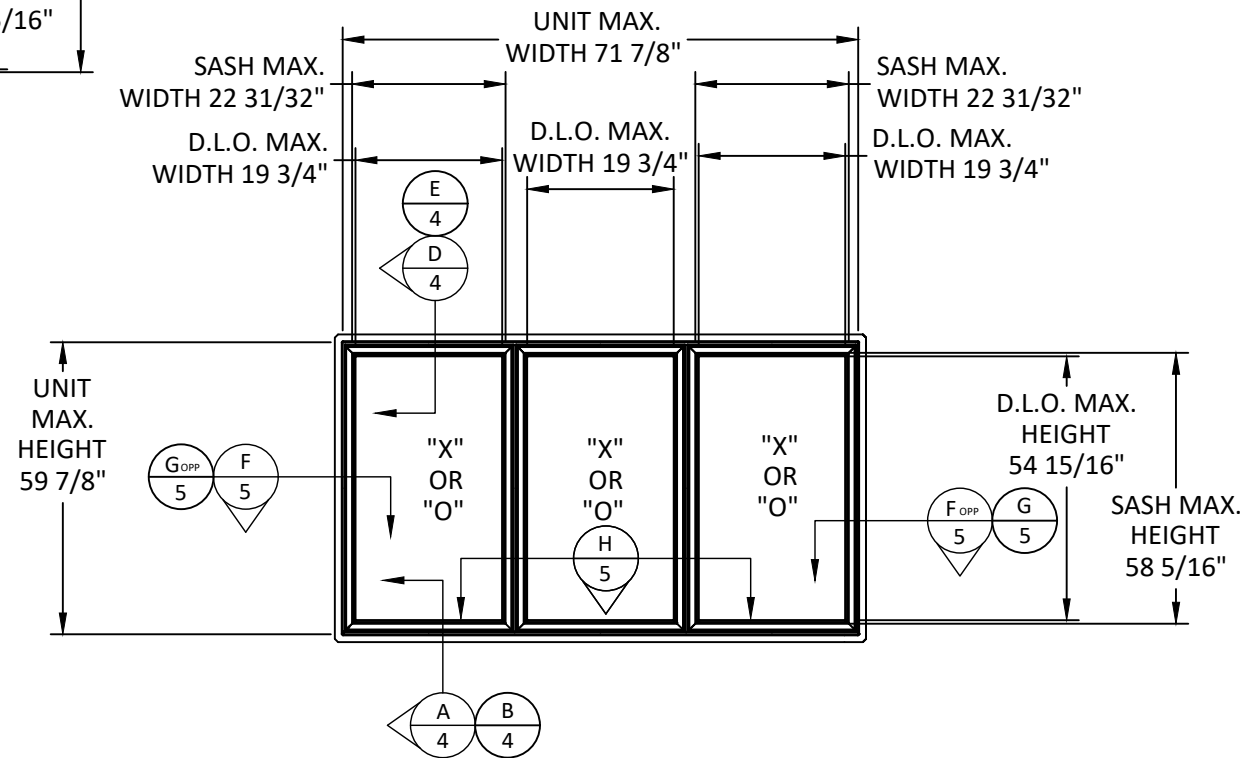


**ELEVATION
CXW145**

NOTE: CONIFURATIONS MAY VARY AS FIXED OR OPERABLE UNITS IN ANY COMBINATION, WITH THE EXCEPTION OF CXW16.



**ELEVATION
CW26**



**ELEVATION
C35**



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WINDOW WITH PG UPGRADE
(NON-HVHZ) (NON-IMPACT)
ELEVATIONS

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WEB: www.buildingdrops.com

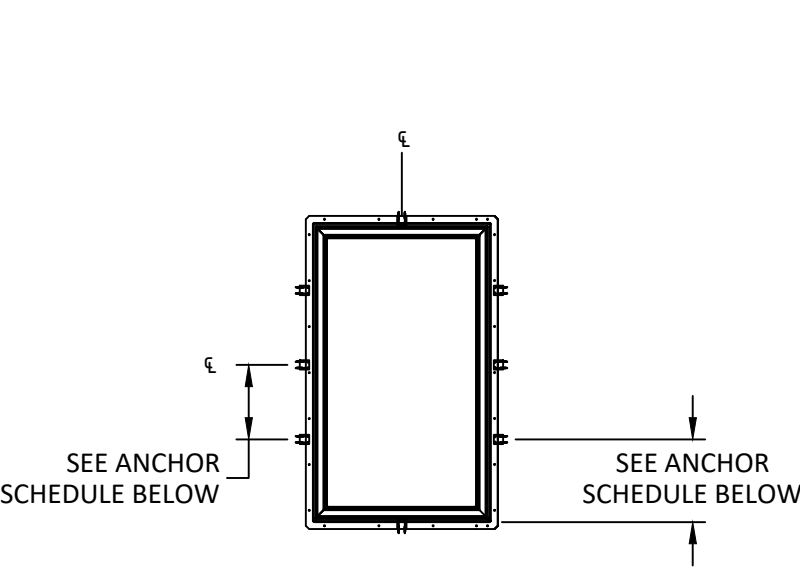
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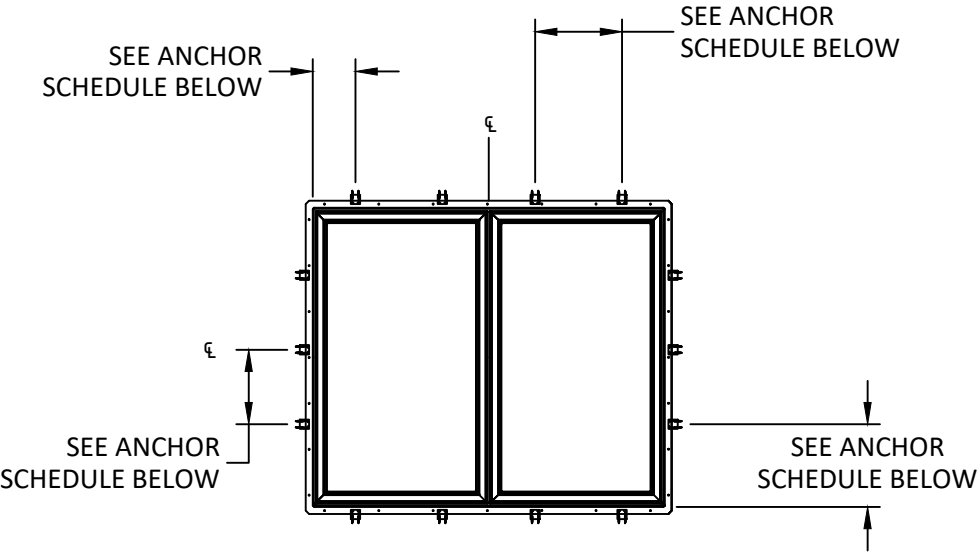


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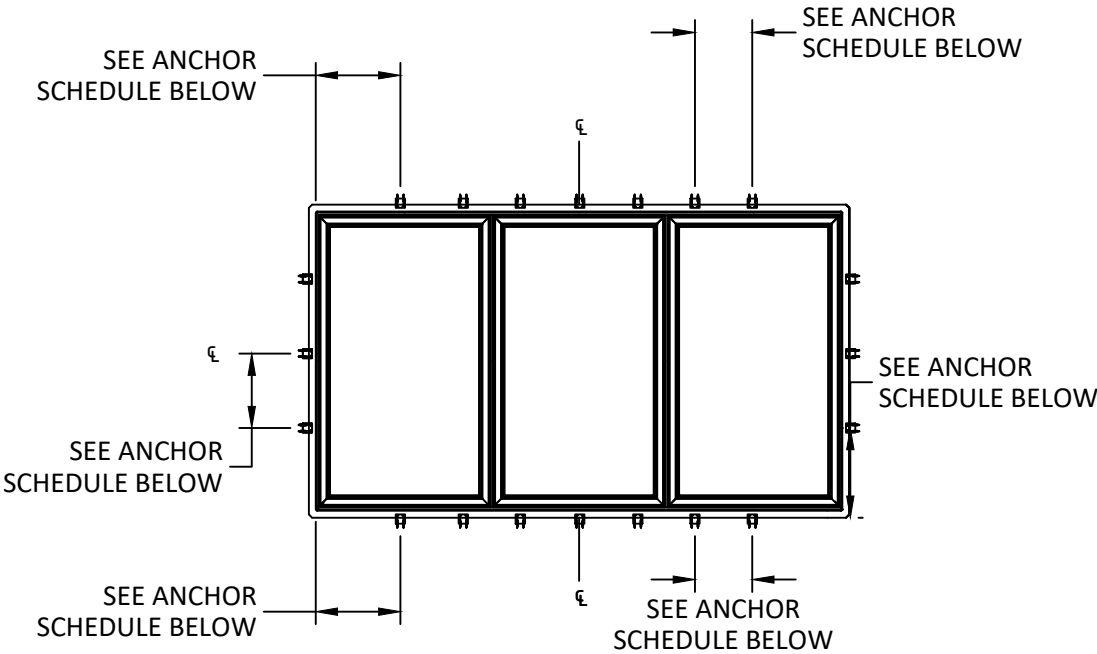
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ANCHOR LAYOUT



ANCHOR LAYOUT



ANCHOR LAYOUT

ANCHOR SCHEDULE								
INSTALLATION TYPE	QTY PER LOCATION	SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT (IN.)	MIN. EDGE DISTANCE (IN.)	HEAD/SILL MAX. O.C. DISTANCE (IN.)	JAMB MAX. O.C. DISTANCE (IN.)	CORNER DISTANCE ON JAMBS (IN.)
CLIP	2	WOOD	#8 WOOD ANCHOR	1.5	0.75	20	20	6
CLIP	1	WOOD	#10 WOOD ANCHOR	1.5	0.75	15	20	6
CLIP	1	CONCRETE/ MASONRY	3/16" ITW TAPCON	1.25	2.5	20	20	6
CLIP	1	METAL STUD	#8 SELF-TAPPING SCREW	3 THREADS MIN. PENETRATION PAST STRUCTURE	0.50	20	20	6
THRU FRAME	1	WOOD	#8 WOOD ANCHOR	1.5	0.75	12	20	6
THRU FRAME	1	CONCRETE/ MASONRY	3/16" ITW TAPCON	1.25	2.5	15	20	6
THRU FRAME	1	METAL STUD	#10 SELF-TAPPING SCREW	3 THREADS MIN. PENETRATION PAST STRUCTURE	0.50	10	20	6



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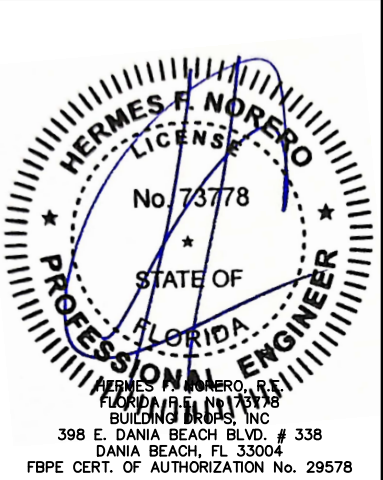
TITLE: 400 SERIES CASEMENT WINDOW WITH PG UPGRADE (NON-HVHZ) (NON-IMPACT) ELEVATIONS & ANCHOR LAYOUTS

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

FL #: **FL12496**

DATE: **08.09.17**

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SCALE: **NTS**

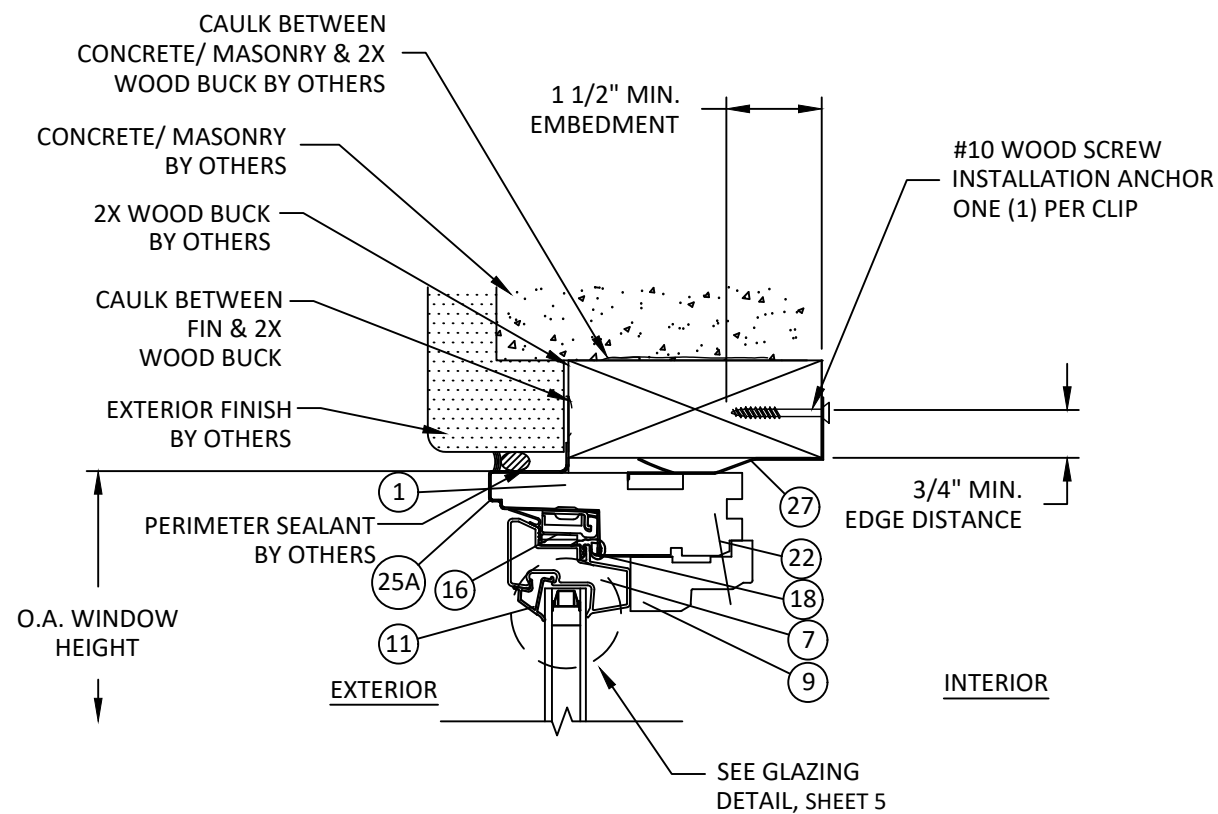
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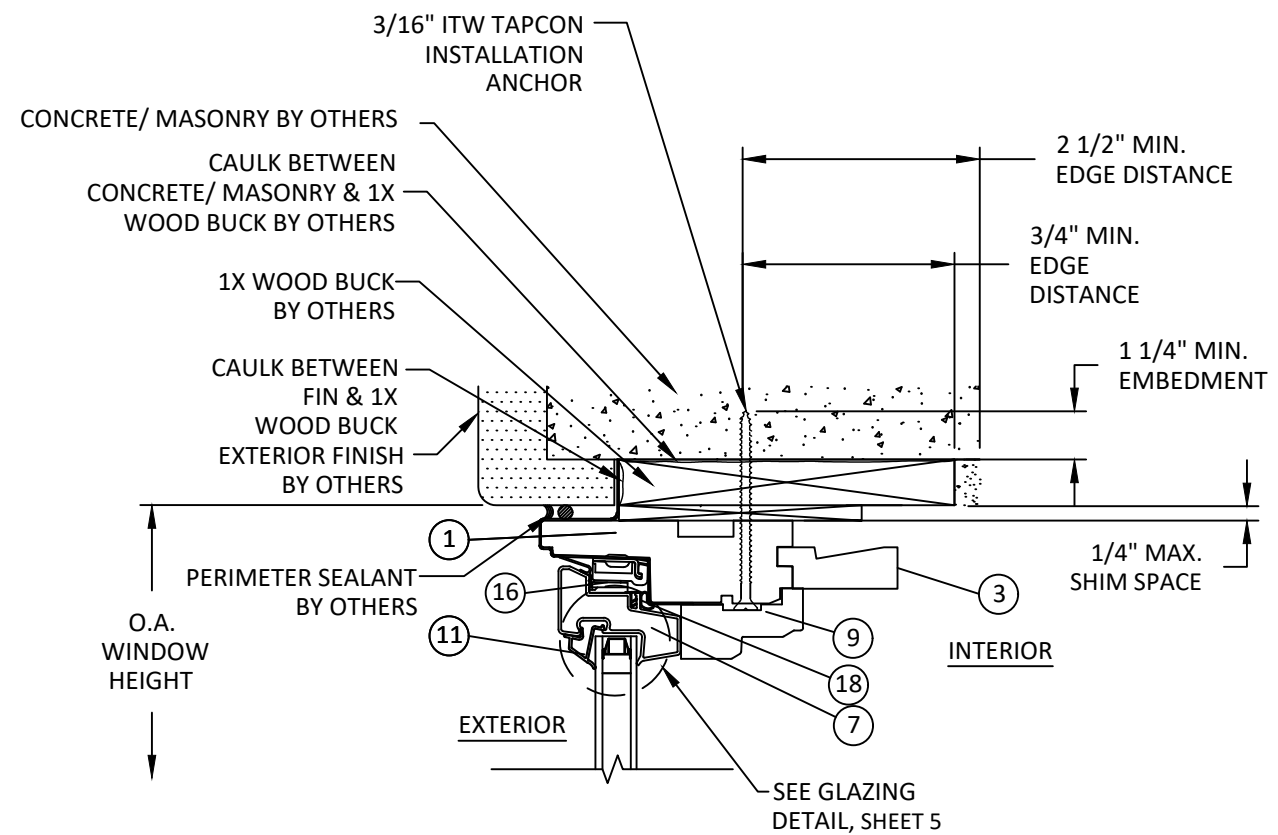
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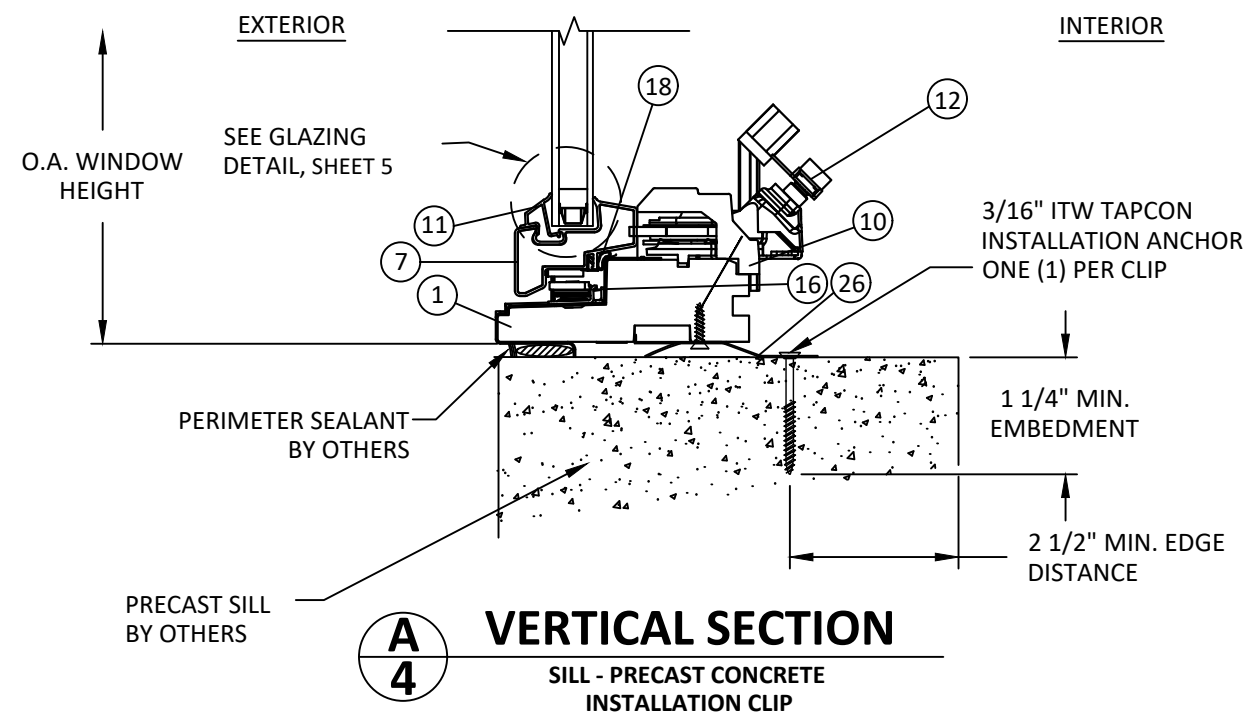


D
4 **VERTICAL SECTION**
HEAD - 2X WOOD FRAME
INSTALLATION CLIP

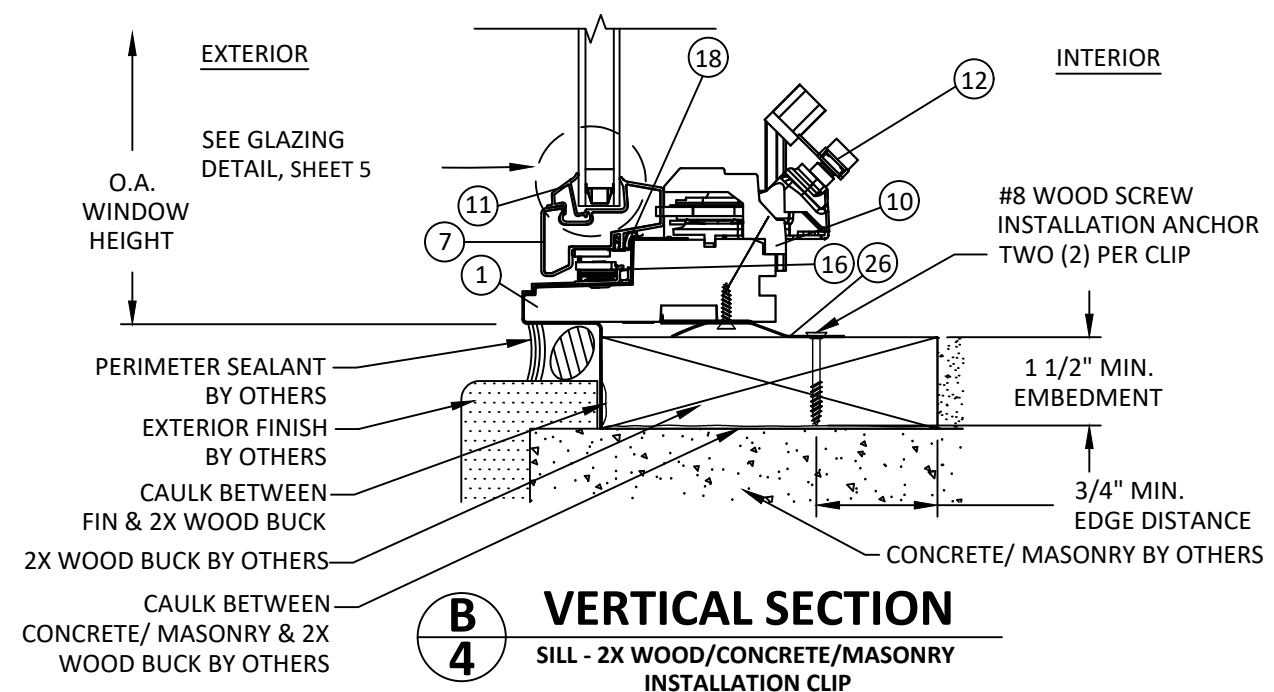
NOTE: WHEN USING INSTALLATION CLIP,
ITEM # 27, USE OF THE NAILING FIN IS
REQUIRED.



E
4 **VERTICAL SECTION**
HEAD - 1X WOOD/CONCRETE/MASONRY
THROUGH FRAME



A
4 **VERTICAL SECTION**
SILL - PRECAST CONCRETE
INSTALLATION CLIP



B
4 **VERTICAL SECTION**
SILL - 2X WOOD/CONCRETE/MASONRY
INSTALLATION CLIP



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WINDOW WITH PG UPGRADE
(NON-HVHZ) (NON-IMPACT)

VERTICAL SECTIONS

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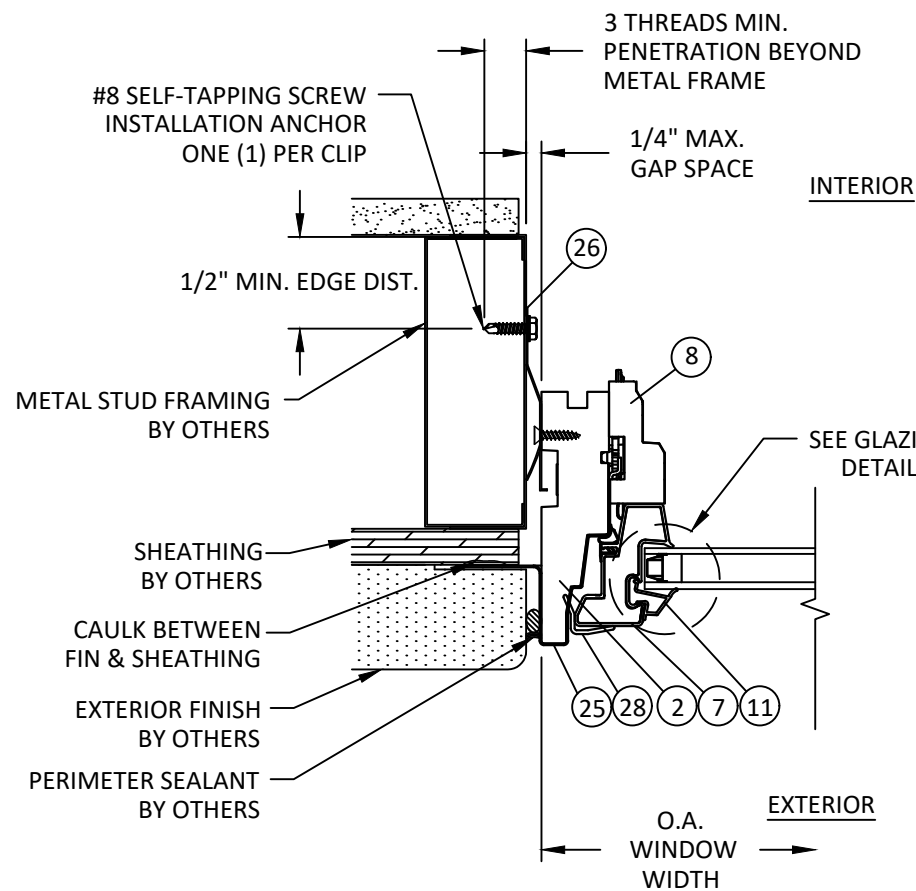
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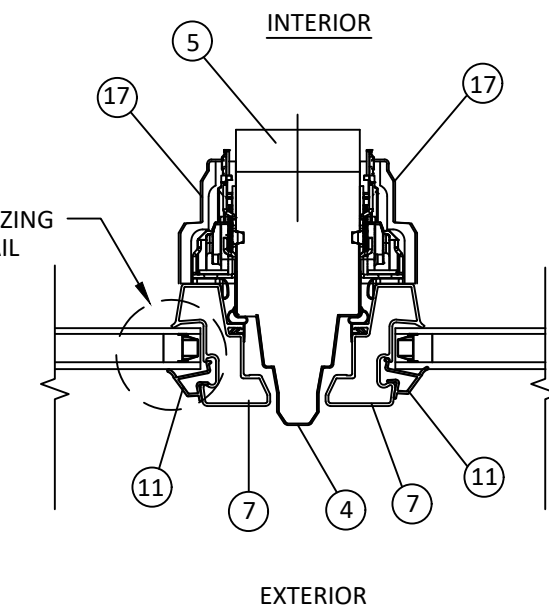
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F
5

HORIZONTAL SECTION

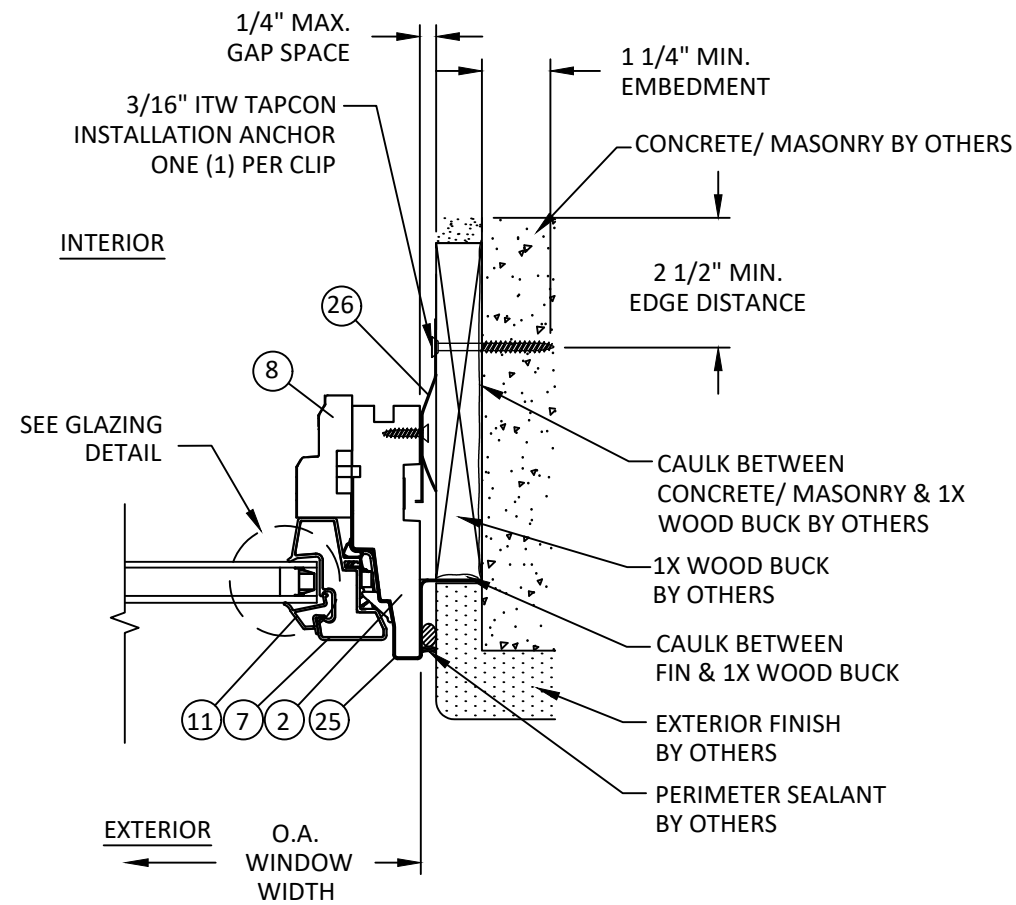
JAMB - METAL STUD FRAME
INSTALLATION CLIP



H
5

HORIZONTAL SECTION

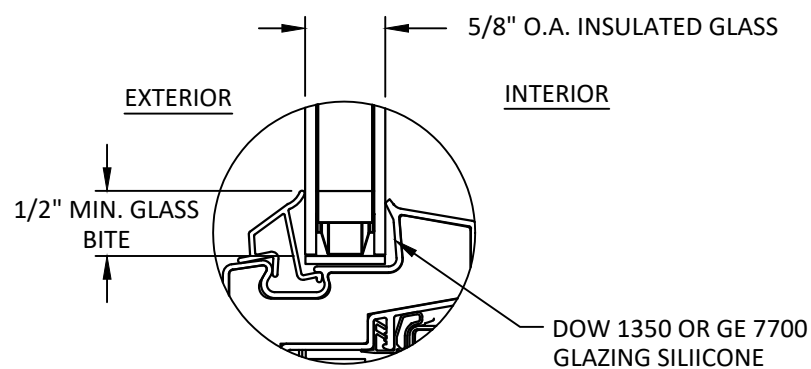
INTEGRAL MULLION POST



G
5

HORIZONTAL SECTION

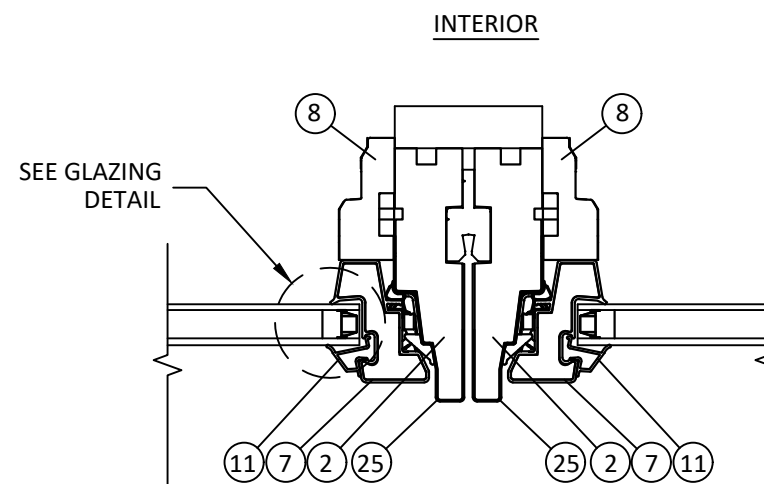
JAMB - 1X WOOD/CONCRETE/MASONRY
INSTALLATION CLIP



GLAZING DETAIL 1

GLAZING NOTES:

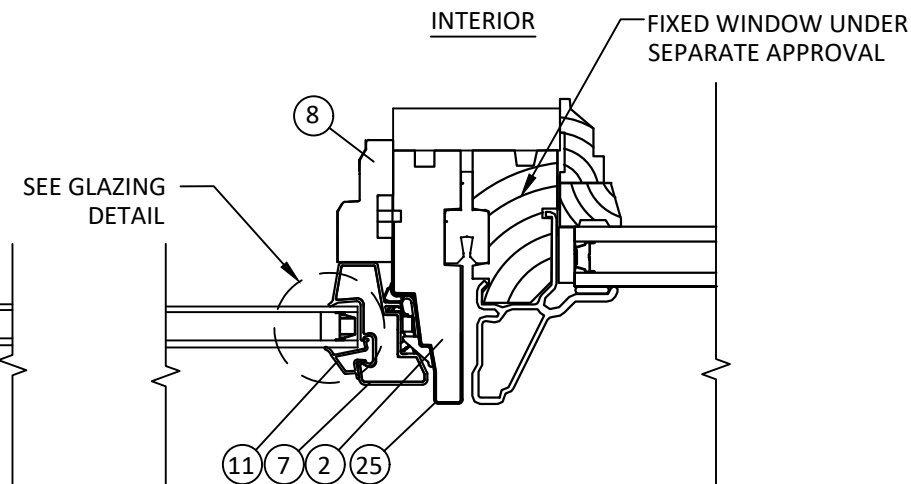
1. GLAZING SHALL COMPLY WITH ASTM E1300 AND FBC SAFETY GLAZING REQUIREMENTS.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER CHAPTER 24.
4. D.L.O. MAY NOT EXCEED MAX DIMENSIONS SHOWN ON ELEVATIONS.



I
5

HORIZONTAL SECTION

CASEMENT TO CASEMENT
NARROW WOOD MULL



J
5

HORIZONTAL SECTION

CASEMENT TO DIRECT SET FLEXIFRAME
NARROW WOOD MULL



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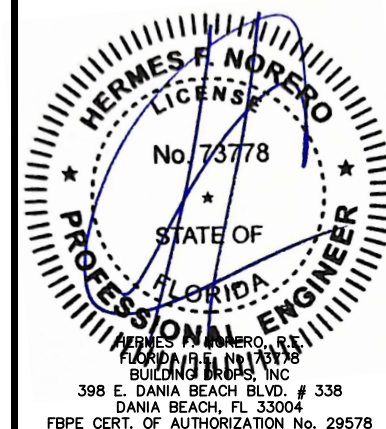
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WINDOW WITH PG UPGRADE
(NON-HVHZ) (NON-IMPACT)
HORIZONTAL SECTIONS
& GLAZING DETAIL

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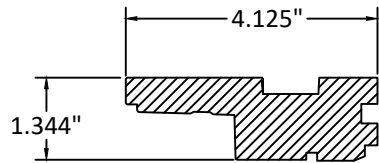
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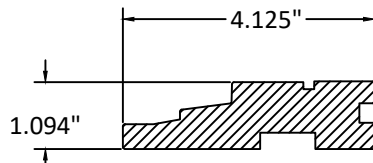
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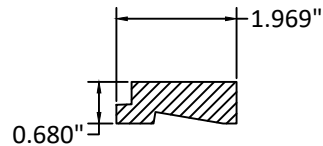
1 FRAME HEAD/SILL
WOOD



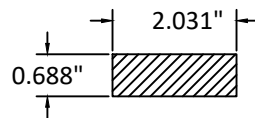
2 FRAME SIDE
WOOD



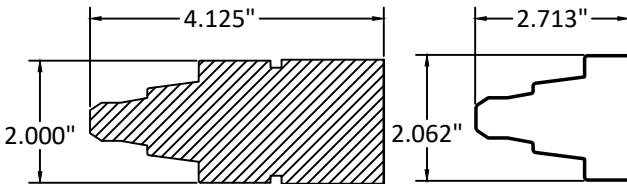
3 EXTENSION JAMB
WOOD



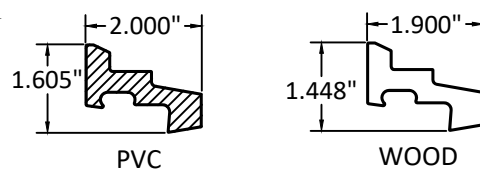
5 MULLION POST CASING
WOOD



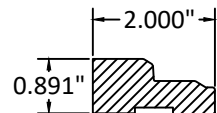
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WOOD



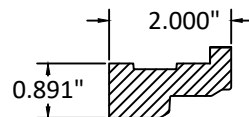
7 SASH RAIL/STILE
WOOD



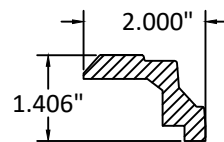
8 TRIM STOP JAMB
WOOD



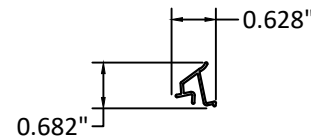
9 TRIM STOP HEAD
WOOD



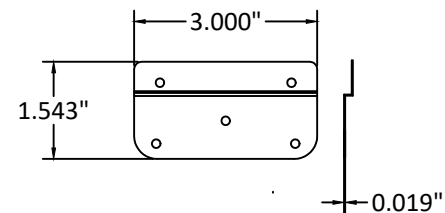
10 TRIM STOP SILL
WOOD



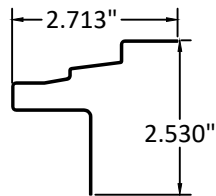
11 GLAZING BEAD
PVC



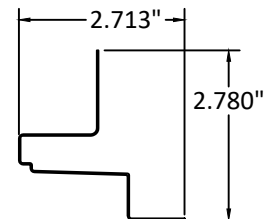
15 STATIONARY SASH CLIP
GALV. STEEL



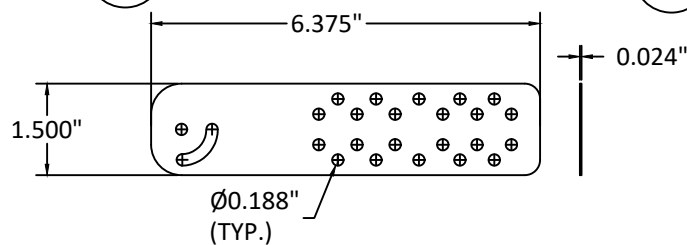
25 FRAME SIDE VINYL CLADDING
PVC



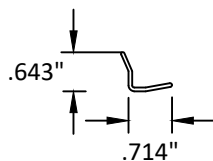
25A FRAME HEAD/SILL VINYL CLADDING
PVC



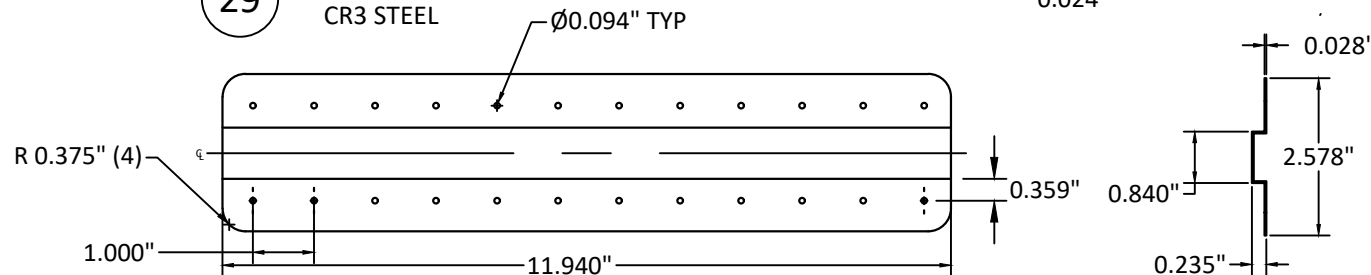
27 INSTALLATION CLIP
304 SS



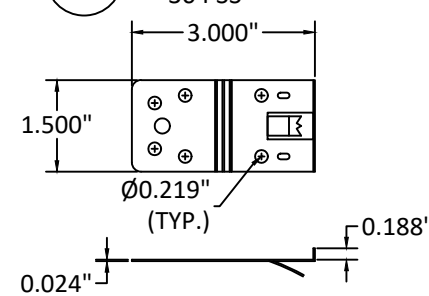
28 EXTERIOR SNUGGER
ALUMINUM



29 NARROW WOOD MULL GUSSET PLATE
CR3 STEEL



26 INSTALLATION CLIP
304 SS



BILL OF MATERIALS				
NO	DRAWING NUMBER	DESCRIPTION	MATERIAL	MANUFACTURER
1	30835	FRAME HEAD/SILL	WOOD	ANDERSEN
2	30838	FRAME SIDE	WOOD	ANDERSEN
3	30208	EXTENSION JAMB	WOOD	ANDERSEN
4	30839	MULLION POST	WOOD	ANDERSEN
5	30056	MULLION POST CASING	WOOD	ANDERSEN
7	30016	SASH RAIL/STILE	WOOD	ANDERSEN
8	30847/8	TRIM STOP JAMB	WOOD	ANDERSEN
9	30841	TRIM STOP HEAD	WOOD	ANDERSEN
10	30842-45	TRIM STOP SILL	WOOD	ANDERSEN
11	35031	GLAZING BEAD	PVC	-
12	0102405/06	ROTO OPERATOR	STEEL	AMEROCK CORP.
14	#8 X 1/2"	SNUGGER SCREW	-	-
15	30053	STATIONARY SASH CLIP	GALV. STEEL	-
16		HINGES	STEEL	AMEROCK CORP.
17		LOCK W/ KEEPERS ON SASH	STEEL	AMEROCK CORP.
18	0105827	WEATHER STRIPPING	-	-
22		BRAD NAILS 1-1/2" LONG	GALV. STEEL	-
23	30172	FOAM WEATHERSTRIPPING	-	-
25	30023/29	FRAME SIDE VINYL CLADDING	PVC	ANDERSEN
25A	30023/29	FRAME HEAD/SILL VINYL CLADDING	PVC	ANDERSEN
26	20165	INSTALLATION CLIP	304 SS	-
27	94577	INSTALLATION CLIP	304 SS	-
28	30442	EXTERIOR SNUGGER	ALUMINUM	ANDERSEN
29	30065	NARROW WOOD MULL GUSSET PLATE	CR3 STEEL	-

NOTE: ALL WOOD TO BE PONDEROSA PINE OR EQUAL



TITLE: 400 SERIES CASEMENT
WINDOW WITH PG UPGRADE
(NON-HVHZ) (NON-IMPACT)
COMPONENTS & BILL OF MATERIALS

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
5TH FBC CODE CHANGE	SM	4.8.15
6TH FBC CODE CHANGE	HR	8.9.17
7TH FBC CODE CHANGE	SR	3.16.20
8TH FBC CODE CHANGE	OL	5.19.23

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FL #:	FL12496
DATE:	08.09.17
DWG. BY:	HR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	AWD116
SHEET:	6

Maximum Design Pressure Capacity Chart (psf)

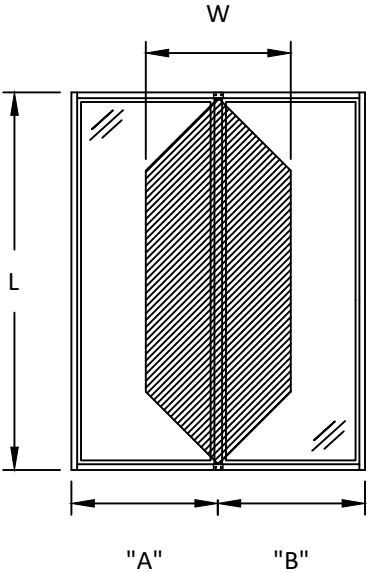
One-Way Narrow Wood Mullion

Design pressures are limited by mullion capacity only.

Span (in)	Tributary Width (in)																							
	18.0	25.0	30.0	37.0	42.0	49.0	54.0	61.0	66.0	73.0	78.0	85.0	90.0	97.0	102.0	109.0	114.0	121.0	126.0	133.0	138.0	145.0	150.0	
30.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
37.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
42.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
49.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	
54.0	80.0	80.0	80.0	71.4	66.4	62.6	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	
61.0	80.0	73.9	63.3	53.8	49.3	45.4	43.7	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	
66.0	80.0	62.6	53.4	45.0	41.0	37.3	35.5	34.2	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	
73.0	69.1	50.7	43.0	36.0	32.6	29.3	27.6	26.0	25.4	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	
78.0	60.4	44.2	37.4	31.2	28.1	25.1	23.5	22.0	21.2	20.6	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	
85.0	50.7	37.0	31.3	25.9	23.3	20.6	19.2	17.8	17.0	16.3	16.0	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	
90.0	45.1	32.9	27.7	23.0	20.6	18.2	16.9	15.5	14.8	14.1	13.7	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	
97.0	38.8	28.2	23.8	19.6	17.5	15.4	14.3	13.0	12.4	11.7	11.3	10.9	10.8	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	
102.0	35.0	25.5	21.4	17.6	15.8	13.8	12.7	11.6	11.0	10.3	9.9	9.6	9.4	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	
109.0	30.6	22.3	18.7	15.4	13.7	12.0	11.0	10.0	9.4	8.8	8.4	8.1	7.9	7.7	7.6	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	
114.0	28.0	20.3	17.0	14.0	12.5	10.9	10.0	9.1	8.5	7.9	7.6	7.2	7.0	6.8	6.7	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	
121.0	24.8	18.0	15.1	12.4	11.0	9.6	8.8	7.9	7.5	6.9	6.6	6.2	6.0	5.8	5.7	5.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	

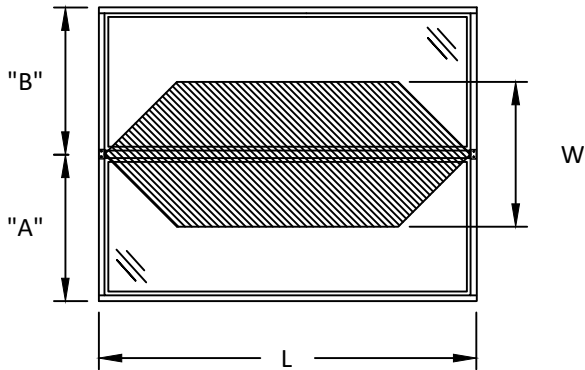
NOTE:

- 1) MULLION CHART APPLIES TO NARROW WOOD MULLION ASSEMBLIES, SEE DETAIL I/5, WHEN USED TO MULL WINDOWS IN CONFIGURATIONS SHOWN IN ELEVATIONS A & B.
- 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 NARROW WOOD MULLION OR THE INDIVIDUAL WINDOW UNIT OF INSTALLATION.
- 5) MULLION CHART ABOVE APPLIES TO MULLED ASSEMBLIES CONSISTING OF 400 SERIES CASEMENT WINDOWS, AWNING WINDOWS, AND/OR THE 400 SERIES DIRECT GLAZED VINYL CLAD WINDOWS.
- 6) ADJACENT WINDOWS SHALL BE FASTENED TO THE ROUGH OPENING WITH ADDITIONAL ANCHORS IN ACCORDANCE WITH DETAILS K/9 OR L/9, SHEET 9.



ELEVATION A

TRIBUTARY WIDTH = W = (A+B)/2



ELEVATION B

TRIBUTARY WIDTH = W = (A+B)/2



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

TITLE: 400 SERIES CASEMENT
WINDOW WITH PG UPGRADE
(NON-HVHZ) (NON-IMPACT)
ONE-WAY MULL DP TABLES (1)

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
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REMARKS	BY	DATE
5TH FBC CODE CHANGE	SM	4.8.15
6TH FBC CODE CHANGE	HR	8.9.17
7TH FBC CODE CHANGE	SR	3.16.20
8TH FBC CODE CHANGE	OL	5.19.23

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FL #: FL12496

DATE: 08.09.17

DWG. BY: HR
CHK. BY: HFN

SCALE: NTS

DWG. #: AWD116

SHEET:

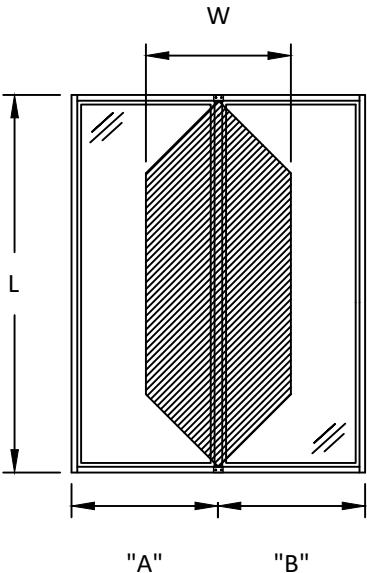
7

Maximum Design Pressure Capacity Chart (psf)
One-Way Narrow Wood Mullion
Design pressures are limited by mullion capacity only.

Span (in)	Tributary Width (in)																						
	18.0	25.0	30.0	37.0	42.0	49.0	54.0	61.0	66.0	73.0	78.0	85.0	90.0	97.0	102.0	109.0	114.0	121.0	126.0	133.0	138.0	145.0	150.0
30.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
37.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
49.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
54.0	80.0	80.0	80.0	71.4	66.4	62.6	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
61.0	80.0	73.9	63.3	53.8	49.3	45.4	43.7	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
66.0	80.0	62.6	53.4	45.0	41.0	37.3	35.5	34.2	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
73.0	69.1	50.7	43.0	36.0	32.6	29.3	27.6	26.0	25.4	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
78.0	60.4	44.2	37.4	31.2	28.1	25.1	23.5	22.0	21.2	20.6	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
85.0	50.7	37.0	31.3	25.9	23.3	20.6	19.2	17.8	17.0	16.3	16.0	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
90.0	45.1	32.9	27.7	23.0	20.6	18.2	16.9	15.5	14.8	14.1	13.7	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
97.0	38.8	28.2	23.8	19.6	17.5	15.4	14.3	13.0	12.4	11.7	11.3	10.9	10.8	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
102.0	35.0	25.5	21.4	17.6	15.8	13.8	12.7	11.6	11.0	10.3	9.9	9.6	9.4	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
109.0	30.6	22.3	18.7	15.4	13.7	12.0	11.0	10.0	9.4	8.8	8.4	8.1	7.9	7.7	7.6	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
114.0	28.0	20.3	17.0	14.0	12.5	10.9	10.0	9.1	8.5	7.9	7.6	7.2	7.0	6.8	6.7	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
121.0	24.8	18.0	15.1	12.4	11.0	9.6	8.8	7.9	7.5	6.9	6.6	6.2	6.0	5.8	5.7	5.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5

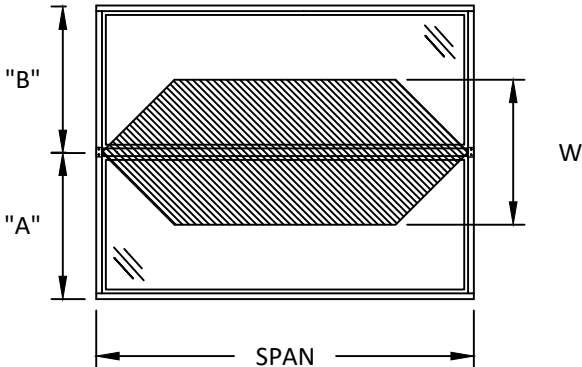
NOTE:

- MULLION CHART APPLIES TO NARROW WOOD MULLION ASSEMBLIES, SEE DETAIL J/5, WHEN USED TO MULL WINDOWS IN CONFIGURATIONS SHOWN IN ELEVATIONS A & B.
- DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE NARROW WOOD MULLION OR THE INDIVIDUAL WINDOW UNIT OF INSTALLATION.
- MULLION CHART ABOVE APPLIES TO MULLED ASSEMBLIES CONSISTING OF 400 SERIES DIRECT SET FLEXIFRAME WINDOWS AND/OR CASEMENT WINDOWS.
- ADJACENT WINDOWS SHALL BE FASTENED TO THE ROUGH OPENING WITH ADDITIONAL ANCHORS IN ACCORDANCE WITH DETAILS K/9 OR L/9, SHEET 9.



ELEVATION A

TRIBUTARY WIDTH = W = (A+B)/2



ELEVATION B

TRIBUTARY WIDTH = W = (A+B)/2



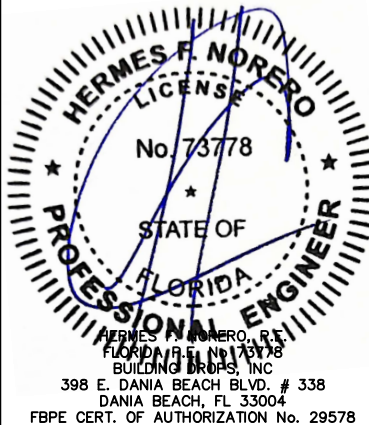
100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: 400 SERIES CASEMENT
WINDOW WITH PG UPGRADE
(NON-HVHZ) (NON-IMPACT)
ONE-WAY MULL DP TABLES (2)

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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REMARKS	BY	DATE
5TH FBC CODE CHANGE	SM	4.8.15
6TH FBC CODE CHANGE	HR	8.9.17
7TH FBC CODE CHANGE	SR	3.16.20
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FL #: FL12496

DATE: 08.09.17

DWG. BY: HR
CHK. BY: HFN

SCALE: NTS

DWG. #: AWD116

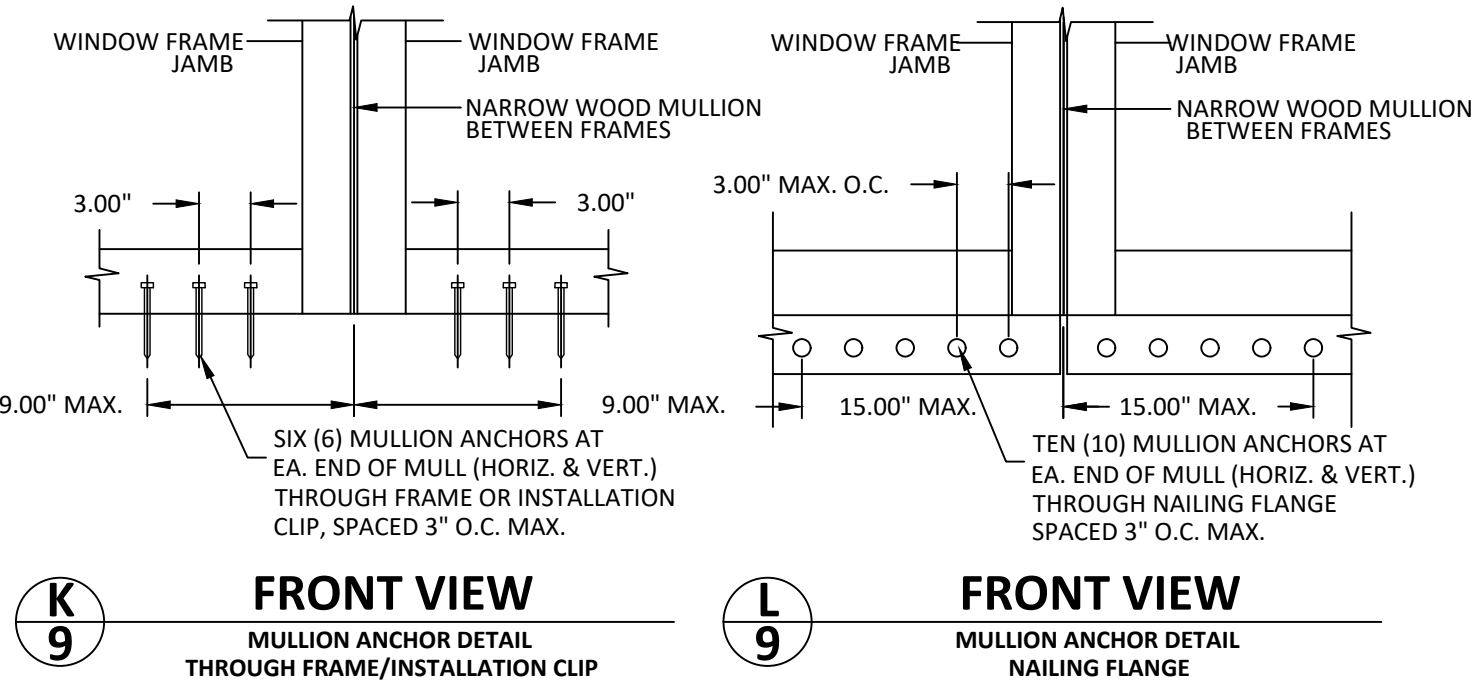
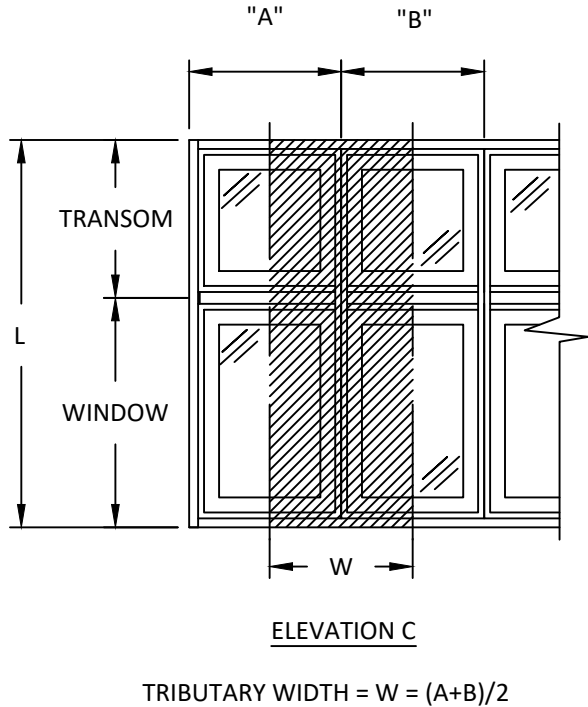
SHEET:

8

Maximum design pressure capacity chart (psf)
Two-Way Narrow Wood Mullion
Design pressures are limited by mullion capacity only.

Span (in.)	Tributary Width (in)															
	18.0	25.0	30.0	37.0	42.0	49.0	54.0	61.0	66.0	73.0	78.0	85.0	90.0	97.0	102.0	109.0
30.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	74.4	70.7	66.2
36.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	75.9	68.6	64.2	58.9	55.7	51.7	49.1	46.0
42.0	80.0	80.0	80.0	80.0	80.0	75.1	68.2	60.3	55.8	50.4	47.2	43.3	40.9	37.9	36.1	33.8
48.0	80.0	80.0	80.0	76.2	67.1	57.5	52.2	46.2	42.7	38.6	36.1	33.2	31.3	29.1	27.6	25.9
54.0	80.0	80.0	74.2	60.2	53.0	45.4	41.2	36.5	33.7	30.5	28.5	26.2	24.7	23.0	21.8	20.4
60.0	80.0	72.1	60.1	48.7	42.9	36.8	33.4	29.6	27.3	24.7	23.1	21.2	20.0	18.6	17.7	16.5
66.0	80.0	59.6	49.7	40.3	35.5	30.4	27.6	24.4	22.6	20.4	19.1	17.5	16.6	15.4	14.6	13.7
72.0	69.6	50.1	41.8	33.9	29.8	25.6	23.2	20.5	19.0	17.2	16.1	14.7	13.9	12.9	12.3	11.5
78.0	59.3	42.7	35.6	28.8	25.4	21.8	19.8	17.5	16.2	14.6	13.7	12.6	11.9	11.0	10.5	9.8
84.0	51.1	36.8	30.7	24.9	21.9	18.8	17.0	15.1	13.9	12.6	11.8	10.8	10.2	9.5	9.0	8.4
90.0	44.5	32.1	26.7	21.7	19.1	16.4	14.8	13.1	12.1	11.0	10.3	9.4	8.9	8.3	7.9	7.4
96.0	39.1	28.2	23.5	19.0	16.8	14.4	13.0	11.6	10.7	9.7	9.0	8.3	7.8	7.3	6.9	6.5
102.0	34.7	25.0	20.8	16.9	14.9	12.7	11.6	10.2	9.5	8.5	8.0	7.3	6.9	6.4	6.1	5.7
108.0	30.9	22.3	18.6	15.0	13.3	11.4	10.3	9.1	8.4	7.6	7.1	6.5	6.2	5.7	5.5	5.1
114.0	27.8	20.0	16.7	13.5	11.9	10.2	9.3	8.2	7.6	6.8	6.4	5.9	5.6	5.2	4.9	4.6
120.0	25.1	18.0	15.0	12.2	10.7	9.2	8.4	7.4	6.8	6.2	5.8	5.3	5.0	4.6	4.4	4.1

- NOTE:
- MULLION CHART APPLIES TO NARROW WOOD MULLION ASSEMBLIES, SEE DETAIL I/5, WHEN USED TO MULL WINDOWS IN CONFIGURATIONS SHOWN IN ELEVATION C.
 - DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE NARROW WOOD MULLION OR THE INDIVIDUAL WINDOW UNIT OF INSTALLATION.
 - MULLION CHART ABOVE APPLIES TO MULLED ASSEMBLIES CONSISTING OF 400 SERIES CASEMENT WINDOWS, AWNING WINDOWS, AND/OR THE 400 SERIES DIRECT GLAZED VINYL CLAD WINDOWS.
 - ADJACENT WINDOWS SHALL BE FASTENED TO THE ROUGH OPENING IN ACCORDANCE WITH DETAILS K/9 OR L/9, SHEET 9.





ANDERSEN
WINDOWS & DOORS

100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096

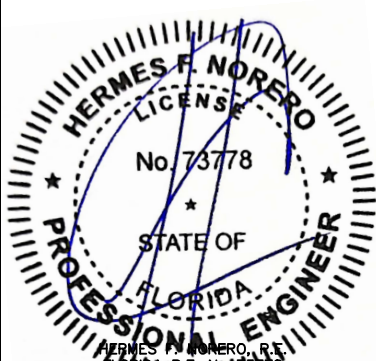
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: 400 SERIES CASEMENT
WINDOW WITH PG UPGRADE
(NON-HVHZ) (NON-IMPACT)
TWO-WAY MULL DP TABLES (1), & MULL
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
5TH FBC CODE CHANGE	SM	4.8.15
6TH FBC CODE CHANGE	HR	8.9.17
7TH FBC CODE CHANGE	SR	3.16.20
8TH FBC CODE CHANGE	OL	5.19.23

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



HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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

FL #:

FL12496

DATE: **08.09.17**

DWG. BY: **HR** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **AWD116**

SHEET:

9

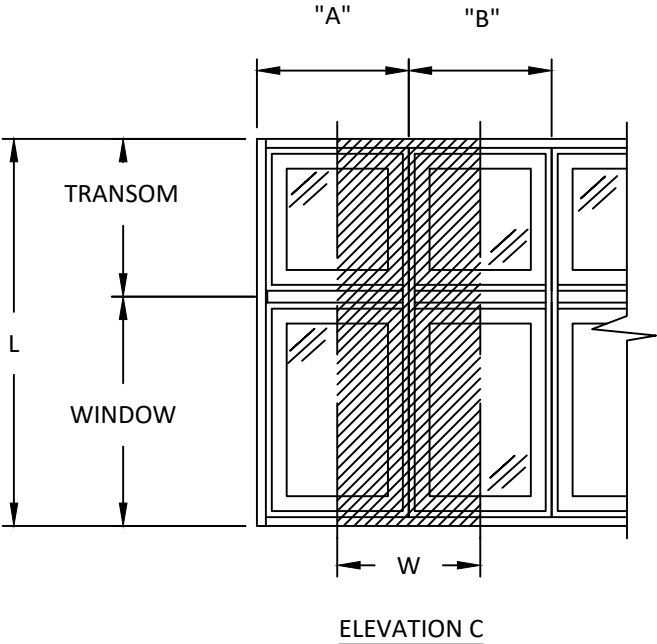
OF 10

Maximum Design Pressure Capacity Chart (psf)
Two-Way Narrow Wood Mullion

Design pressures are limited by mullion capacity only.

Span (in.)	Tributary Width (in)															
	18.0	25.0	30.0	37.0	42.0	49.0	54.0	61.0	66.0	73.0	78.0	85.0	90.0	97.0	102.0	109.0
30.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	75.8	68.5	64.1	58.8	55.6	51.6	49.0	45.9
36.0	80.0	80.0	80.0	80.0	80.0	70.9	64.3	56.9	52.6	47.6	44.5	40.9	38.6	35.8	34.1	31.9
42.0	80.0	80.0	80.0	69.0	60.8	52.1	47.3	41.8	38.7	35.0	32.7	30.0	28.4	26.3	25.0	23.4
48.0	80.0	78.2	65.1	52.8	46.5	39.9	36.2	32.0	29.6	26.8	25.0	23.0	21.7	20.1	19.2	17.9
54.0	80.0	61.8	51.5	41.7	36.8	31.5	28.6	25.3	23.4	21.1	19.8	18.2	17.2	15.9	15.1	14.2
60.0	69.5	50.0	41.7	33.8	29.8	25.5	23.2	20.5	18.9	17.1	16.0	14.7	13.9	12.9	12.3	11.5
66.0	57.4	41.3	34.4	27.9	24.6	21.1	19.1	16.9	15.7	14.2	13.2	12.2	11.5	10.7	10.1	9.5
72.0	48.2	34.7	28.9	23.5	20.7	17.7	16.1	14.2	13.2	11.9	11.1	10.2	9.6	9.0	8.5	8.0
78.0	41.1	29.6	24.7	20.0	17.6	15.1	13.7	12.1	11.2	10.1	9.5	8.7	8.2	7.6	7.3	6.8
84.0	33.3	24.4	20.6	17.0	15.2	13.0	11.8	10.5	9.7	8.7	8.2	7.5	7.1	6.6	6.3	5.9
90.0	27.0	19.7	16.6	13.7	12.2	10.7	9.8	8.7	8.1	7.4	7.0	6.4	6.1	5.7	5.4	5.1
96.0	22.2	16.2	13.7	11.2	10.0	8.7	8.0	7.2	6.7	6.1	5.7	5.3	5.0	4.7	4.4	4.2
102.0	18.4	13.5	11.3	9.3	8.3	7.2	6.6	5.9	5.5	5.0	4.7	4.4	4.2	3.9	3.7	3.5
108.0	15.5	11.3	9.5	7.8	7.0	6.1	5.5	5.0	4.6	4.2	4.0	3.7	3.5	3.2	3.1	2.9
114.0	13.2	9.6	8.1	6.6	5.9	5.1	4.7	4.2	3.9	3.6	3.4	3.1	3.0	2.8	2.6	2.5
120.0	11.3	8.2	6.9	5.7	5.0	4.4	4.0	3.6	3.3	3.1	2.9	2.7	2.5	2.4	2.2	2.1

- NOTE:
- MULLION CHART APPLIES TO NARROW WOOD MULLION ASSEMBLIES, SEE DETAIL J/5, WHEN USED TO MULL WINDOWS IN CONFIGURATIONS SHOWN IN ELEVATION C.
 - DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
 - MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
 - DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE NARROW WOOD MULLION OR THE INDIVIDUAL WINDOW UNIT OF INSTALLATION.
 - MULLION CHART ABOVE APPLIES TO MULLED ASSEMBLIES CONSISTING OF 400 SERIES DIRECT SET FLEXIFRAME WINDOWS AND/OR CASEMENT WINDOWS.
 - ADJACENT WINDOWS SHALL BE FASTENED TO THE ROUGH OPENING WITH ADDITIONAL ANCHORS IN ACCORDANCE WITH DETAILS K/9 OR L/9, SHEET 9.



TRIBUTARY WIDTH = $W = (A+B)/2$



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

TITLE: 400 SERIES CASEMENT
WINDOW WITH PG UPGRADE
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TWO-WAY MULL DP TABLES (2)

PREPARED BY:
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REMARKS	BY	DATE
5TH FBC CODE CHANGE	SM	4.8.15
6TH FBC CODE CHANGE	HR	8.9.17
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FL #: **FL12496**

DATE: **08.09.17**

DWG. BY: **HR** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **AWD116**

SHEET:

10

OF 10