

YKK AP America Inc.

YFW 400 TU THERMALLY BROKEN FIXED WINDOW (HVHZ) (NON-IMPACT)

INSTALLATION NOTES:

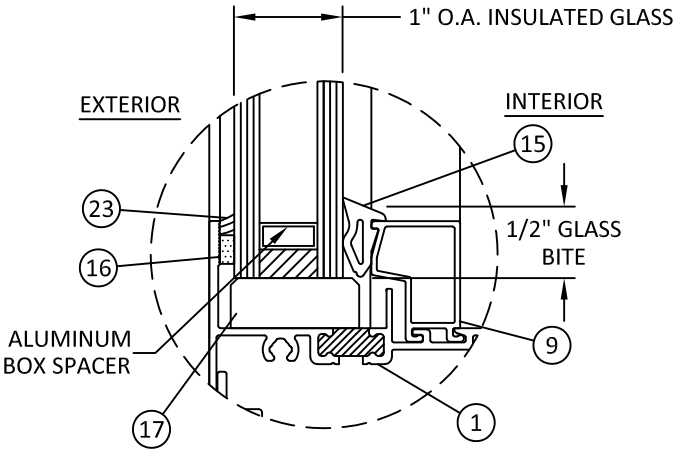
- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- FOR INSTALLATION INTO WOOD FRAMING USE **#14 WOOD SCREWS** OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE. ANCHORS MUST BE PLACED SUCH THAT A 1" EDGE DISTANCE IS MAINTAINED TO THE WOOD MEMBER'S EDGE.
- FOR INSTALLATION INTO METAL STUD USE **1/4" GRADE 5 SELF-DRILLING OR SELF-TAPPING SHEET METAL SCREWS** OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE. ANCHORS MUST BE PLACED SUCH THAT A 3/4" EDGE DISTANCE IS MAINTAINED TO THE METAL STUD'S EDGE.
- FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE **1/4" ITW TAPCONS** OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT INTO CONCRETE/MASONRY. ANCHORS MUST BE PLACED SUCH THAT A 2 1/2" EDGE DISTANCE IS MAINTAINED TO THE CONCRETE OR MASONRY EDGE.
- 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.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90. MINIMUM BLOCK AND GROUT COMPRESSIVE STRENGTHS OF 2000 PSI.

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **INCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/I.S.2/A440-08/11
 - ASTM E283-04(12)
 - ASTM E330-14
 - ASTM E331-00(09)
 - TAS 202-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING 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.
- 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- WINDOW FRAME MATERIAL: 6063-T5 ALUMINUM
- THE DESIGNATION "O" STANDS FOR THE FOLLOWING:
O: FIXED PANEL
- GLAZINGS SHALL MEET ASTM E1300 REQUIREMENTS, SEE SHEET 1 FOR GLAZING DETAILS.
- DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED IN ACCORDANCE WITH THE FBC.

PRODUCT RATING		
MAX. SIZE	DESIGN PRESSURE	MISSILE IMPACT RATING
SEE DP TABLE, SHEET 2	SEE DP TABLE, SHEET 2	NON - IMPACT

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1	INSTALLATION, GENERAL NOTES & GLAZING DETAIL
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11	COMPONENTS & BILL OF MATERIALS



GLAZING DETAIL
DRY GLAZED

NOTES:

- GLASS THICKNESS AND TYPE SHALL COMPLY WITH ASTM E 1300 GLASS CHART REQUIREMENTS.
- ALL GLAZING CONFIGURATIONS SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN THE FBC. ALL LITES GREATER THAN 36" IN WIDTH SHALL UTILIZE SETTING BLOCKS IN ACCORDANCE WITH THE FBC. CH. 24 SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.

1/2" AIR SPACE CONSISTING OF :
- SPACER: ALUMINUM BOX SPACER.
- PRIMARY SEALANT: POLYISOBUTYLENE (PIB).
- SECONDARY SEALANT: STRUCTURAL SILICONE INTENDED FOR FABRICATION OF INSULATING GLASS UNITS.



YKK AP America Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YFW-400 TU FIXED WINDOW (HVHZ) (NON-IMPACT)

INSTALLATION, GENERAL NOTES & GLAZING DETAIL

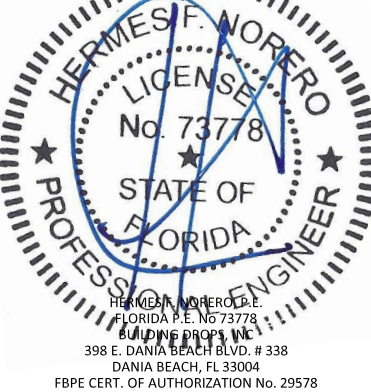


PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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REMARKS	BY	DATE
A. SILL EXTENDER UPDATE	MS	04.02.20

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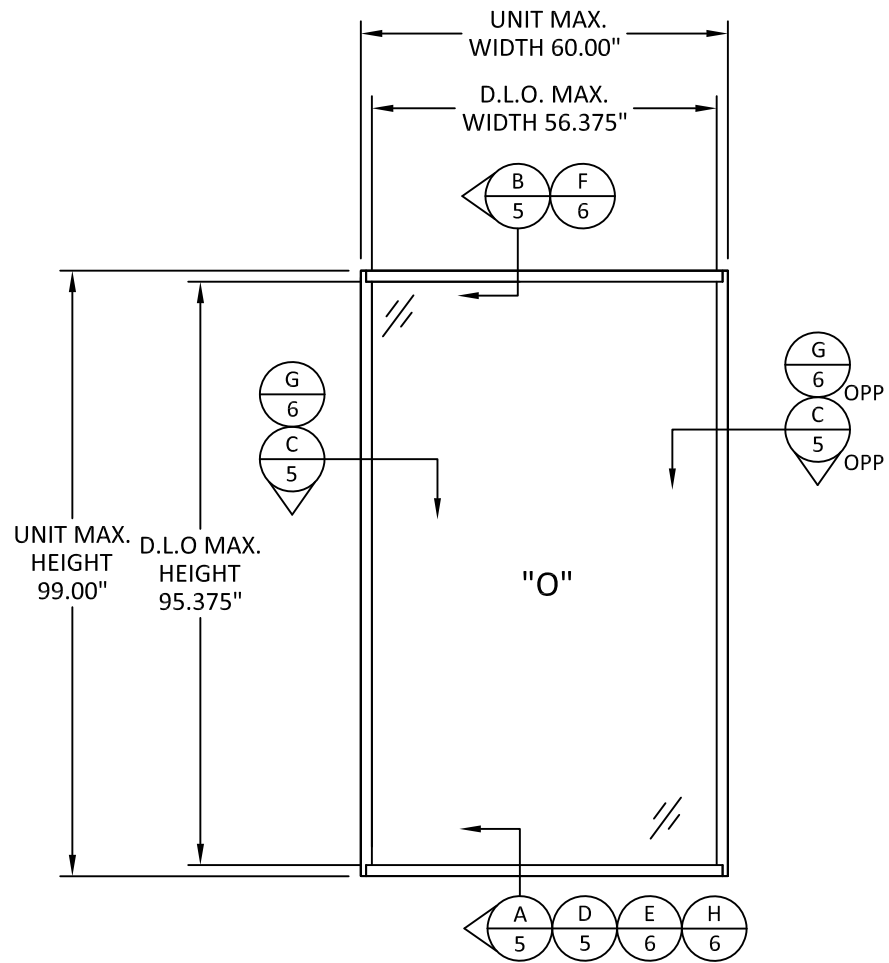
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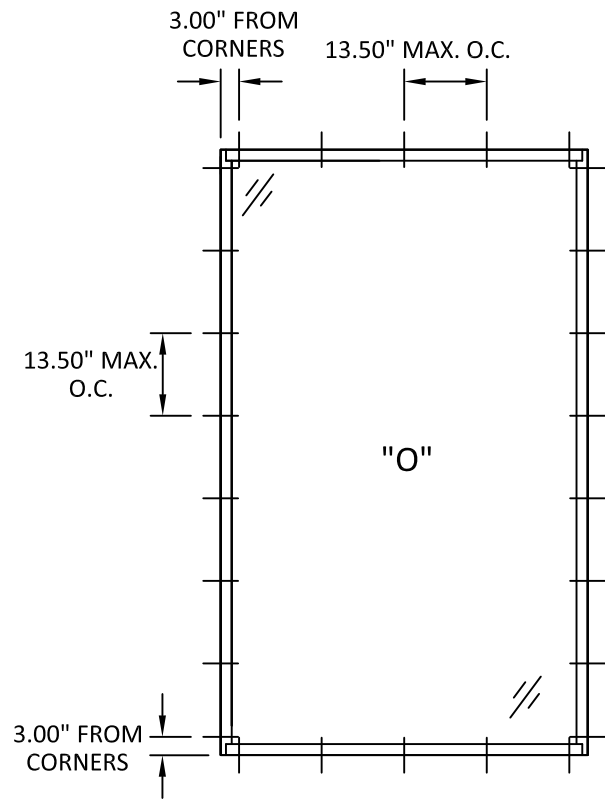
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SCALE:	NTS	
DWG. #:	YKK262	
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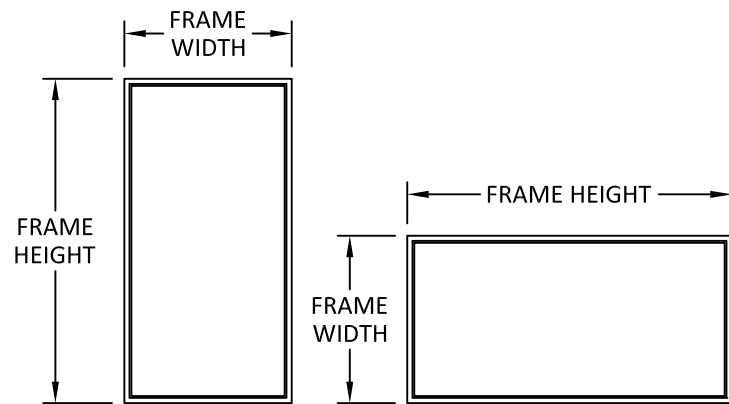
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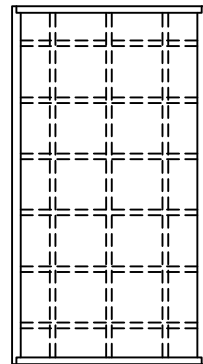
ELEVATION
TYPICAL



ANCHOR LAYOUT
TYPICAL FOR CLIP OR STRAP INSTALLATION OR
THROUGH SILL STARTER



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



NOTE: UNITS MAY USE
FALSE MUNTINS

GLASS LOAD CAPACITY (PSF)		
NOMINAL DIMS.		1" O.A. INSULATED GLASS
DLO WIDTH 'a' (in.)	DLO HEIGHT 'b' (in.)	EXT. (+) INT. (-)
48	72	100.0
54		100.0
60		100.0
66		90.9
72		83.3
42	78	100.0
48		100.0
54		100.0
60		100.0
66		90.9
72	84	83.3
30		100.0
42		100.0
48		100.0
54		100.0
60	90	100.0
66		100.0
36		100.0
42		100.0
48		100.0
54	96	100.0
60		100.0
30		100.0
36		100.0
42		100.0
48	99	100.0
54		100.0
60		100.0
30		100.0
36		100.0

GLASS LOAD CAPACITY (PSF)		
NOMINAL DIMS.		1" O.A. INSULATED GLASS
DLO WIDTH 'a' (in.)	DLO HEIGHT 'b' (in.)	EXT. (+) INT. (-)
30	102	100.0
36		100.0
42		100.0
48		100.0
54		100.0
30	108	100.0
36		100.0
42		100.0
48		100.0
54		100.0
30	114	100.0
36		100.0
42		100.0
48		100.0
30	120	100.0
36		100.0
42		100.0
48		100.0

NOTES:
DESIGN PRESSURES HAVE BEEN
DETERMINED IN ACCORDANCE WITH
ASTM E1300 & CHAPTER 17 OF THE
FBC FOR SIZES OTHER THAN TESTED.
FRAME HEIGHTS AND WIDTHS ARE
INTERCHANGEABLE, SEE DIAGRAM
ON SHEET 2.



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(HVHZ) (NON-IMPACT)

ELEVATION, ANCHOR LAYOUT &
DESIGN PRESSURE TABLES

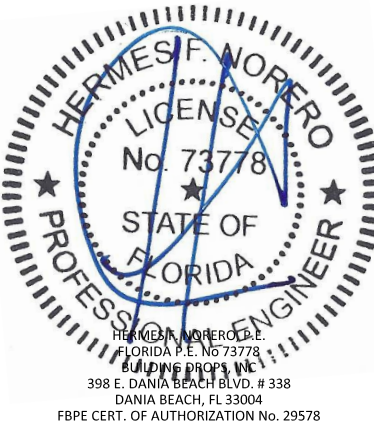
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REMARKS	BY	DATE
A. SILL EXTENDER UPDATE	MS	04.02.20

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OF 11



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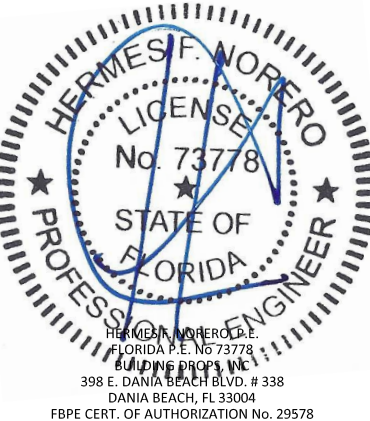
ELEVATION AND ANCHOR LAYOUT

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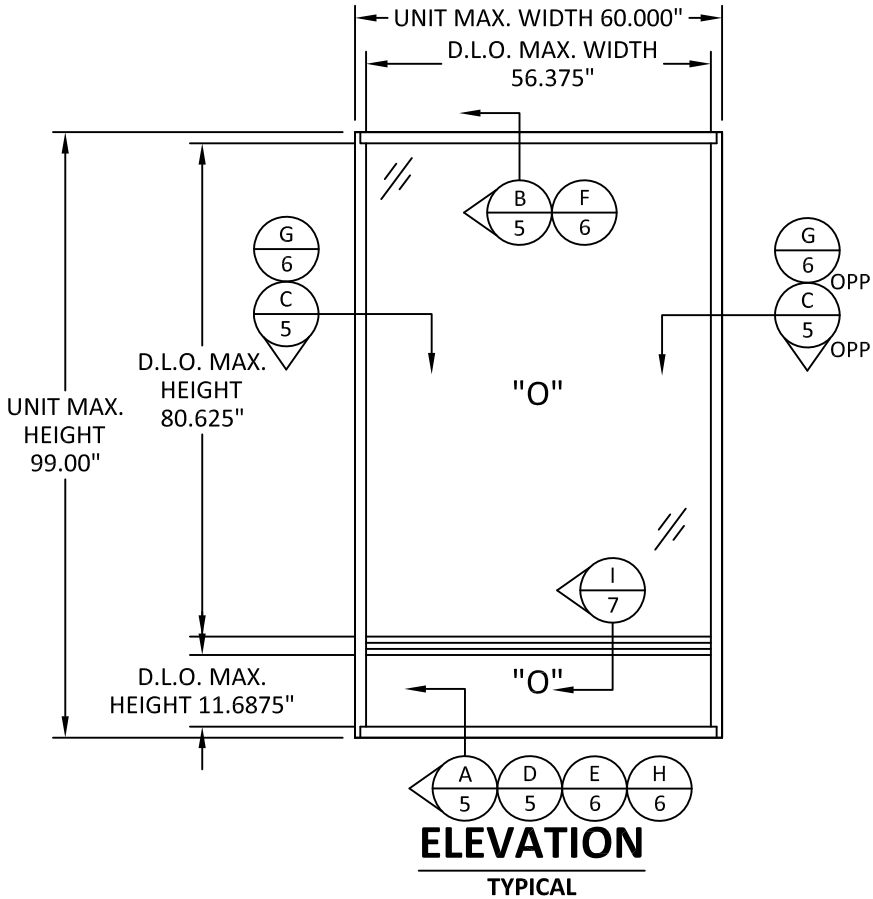


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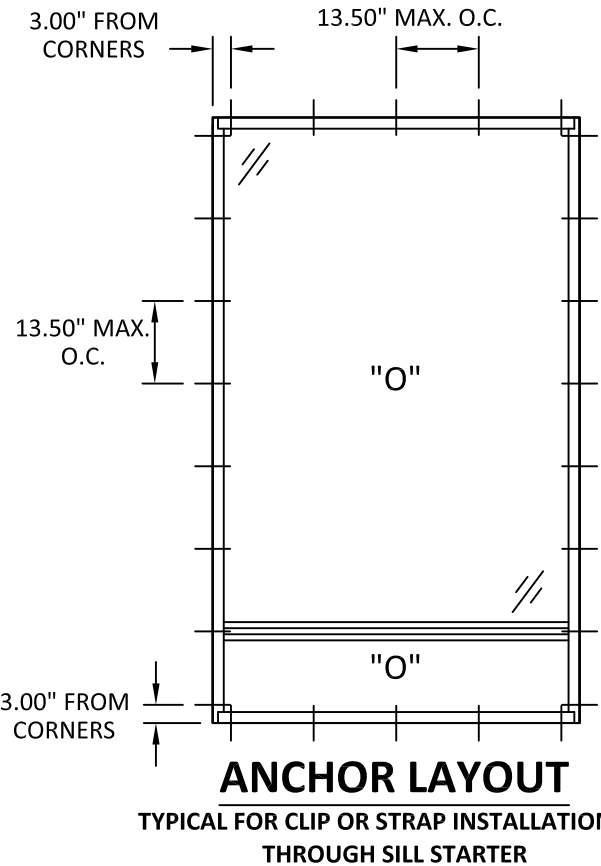
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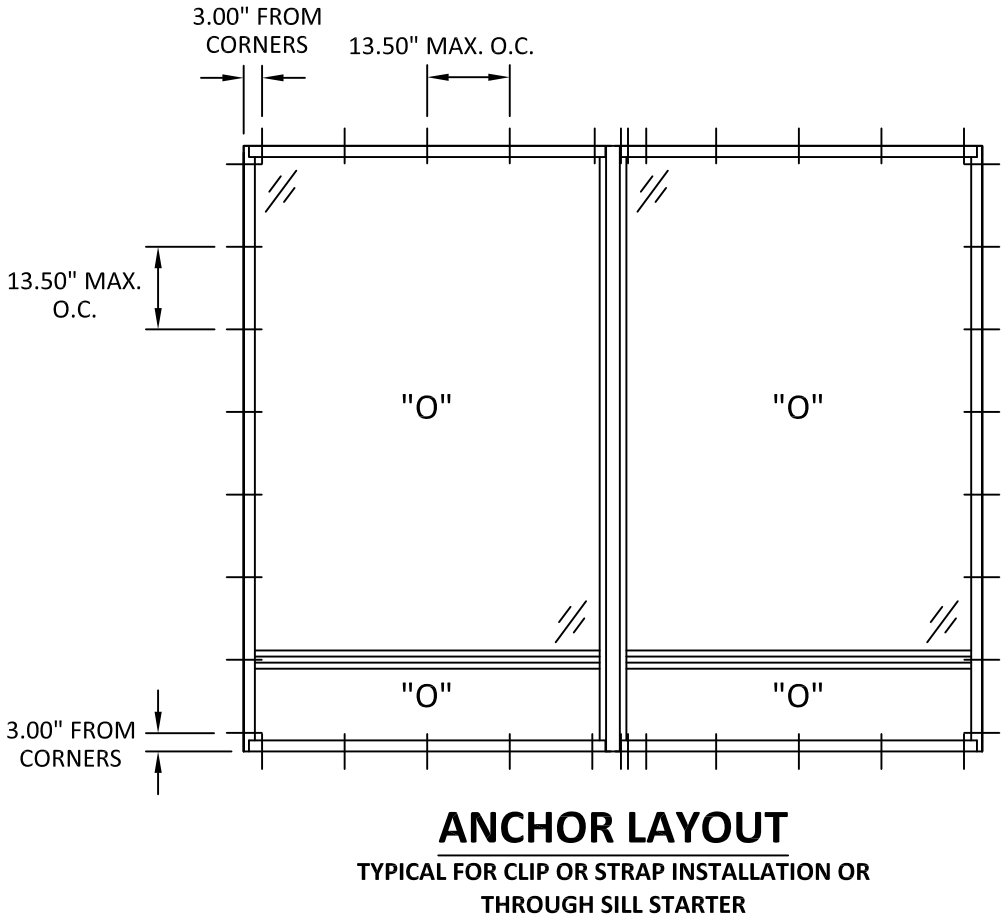
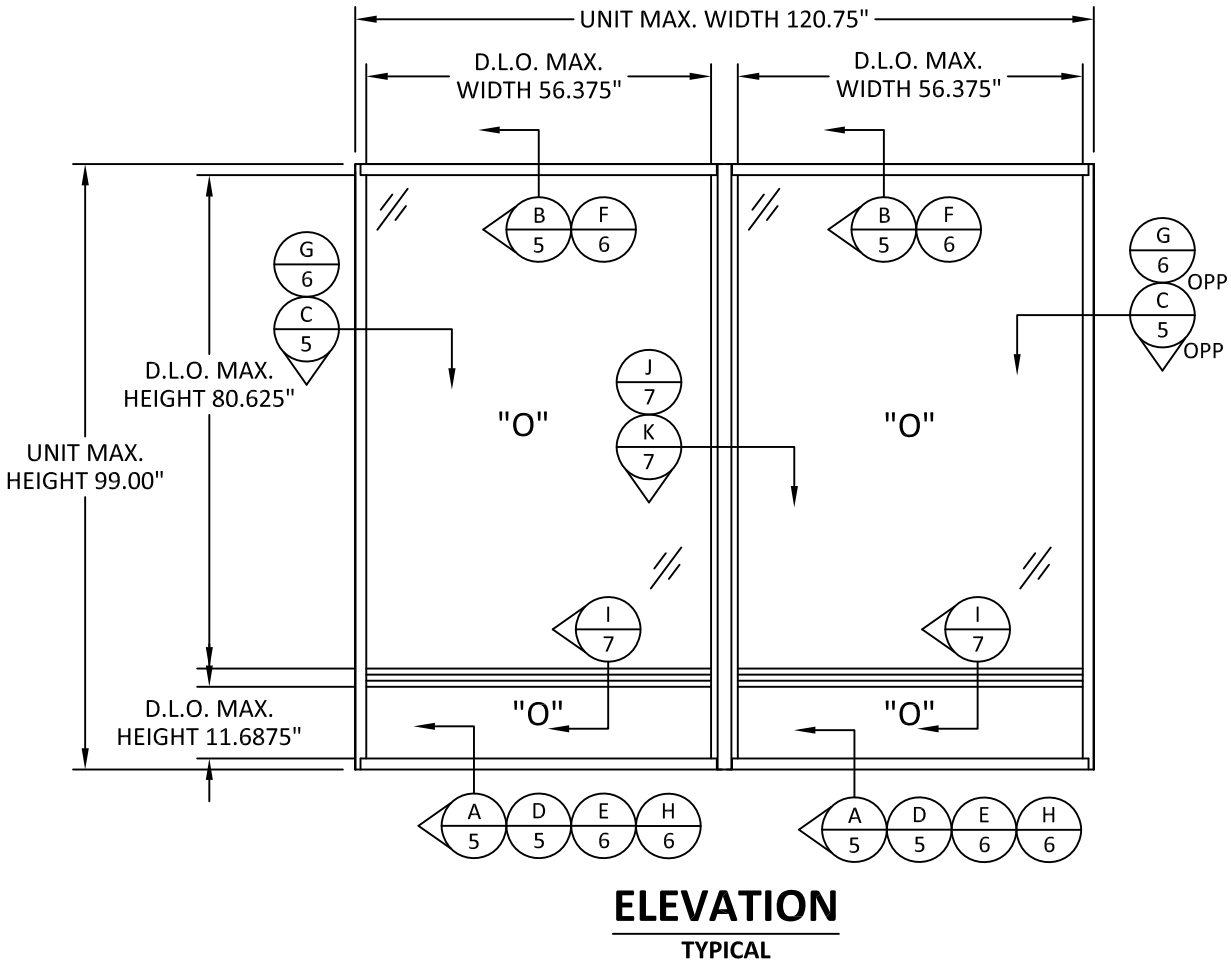
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SEE PAGE 9 FOR
MULLION CAPACITY



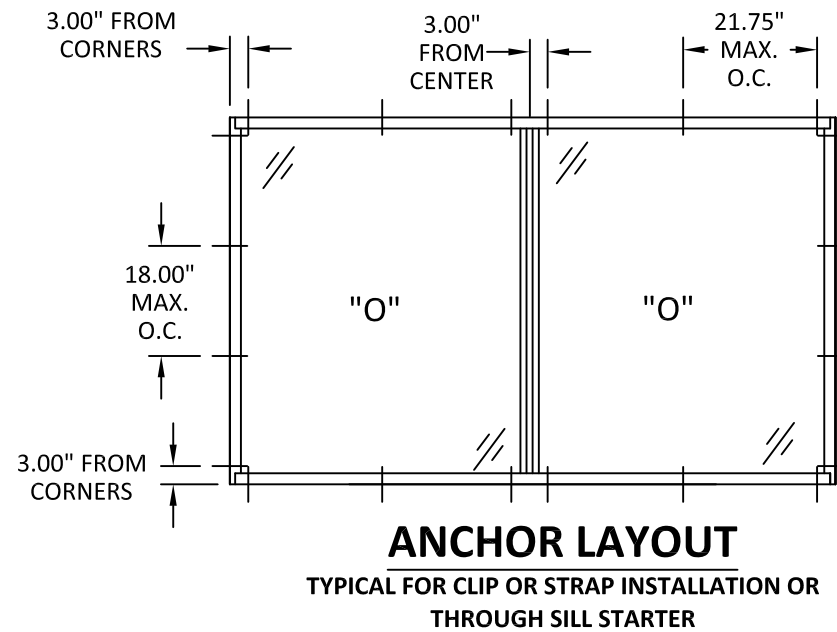
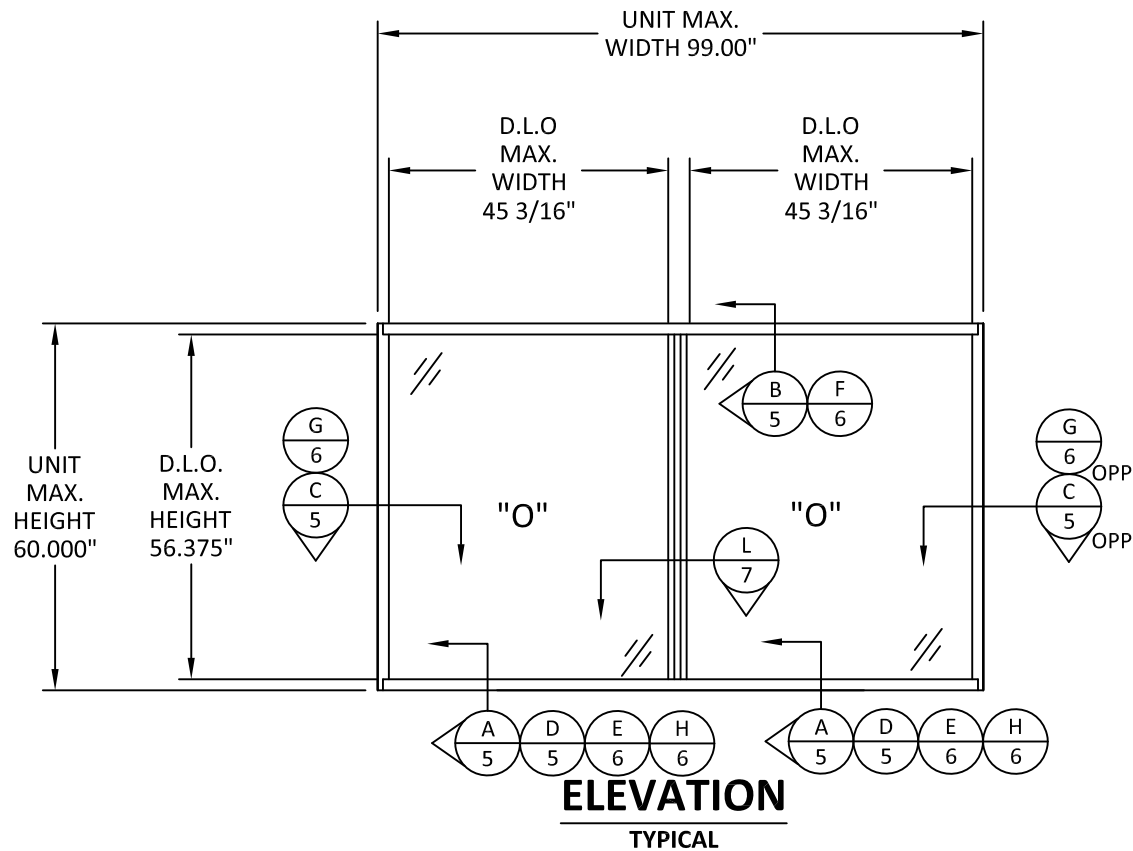
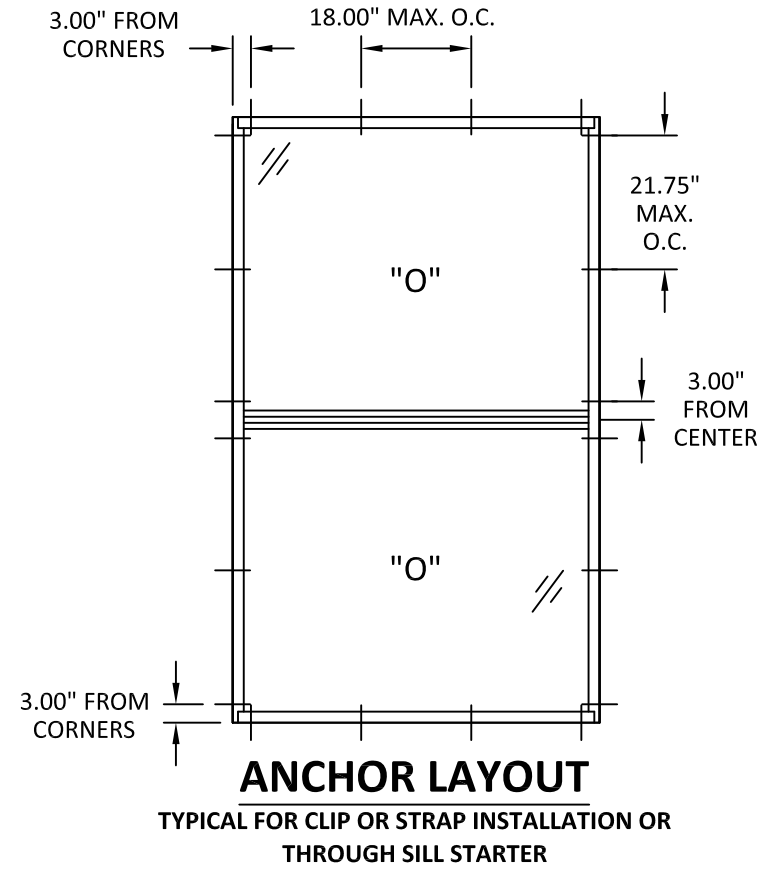
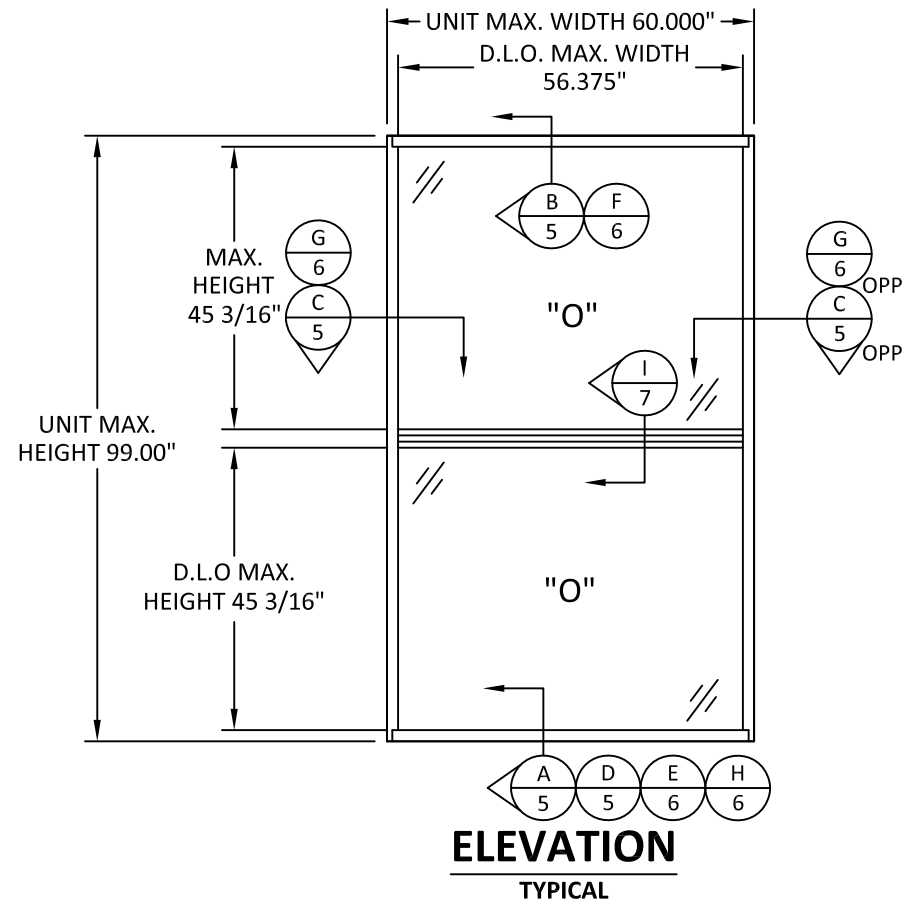
ANCHOR LAYOUT
TYPICAL FOR CLIP OR STRAP INSTALLATION OR
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ANCHOR LAYOUT
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ELEVATION AND ANCHOR LAYOUT

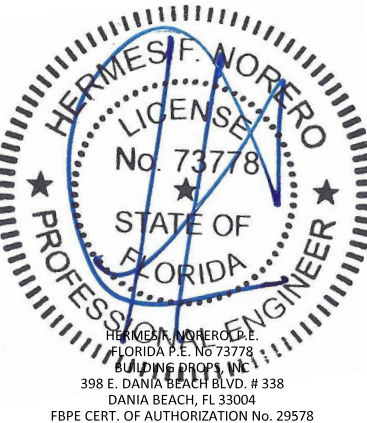
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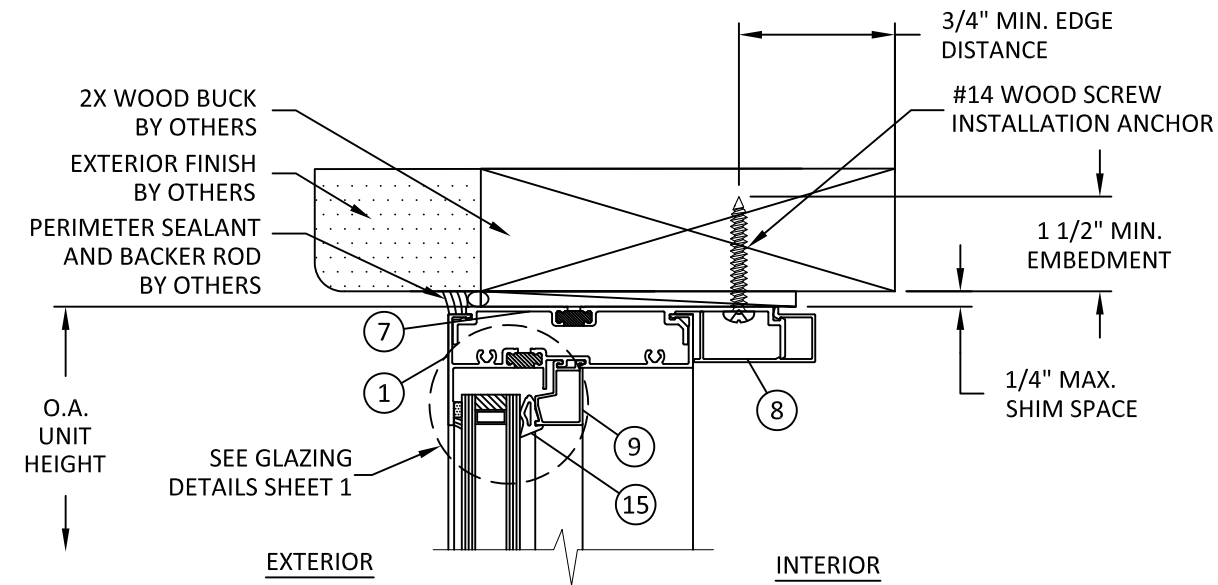
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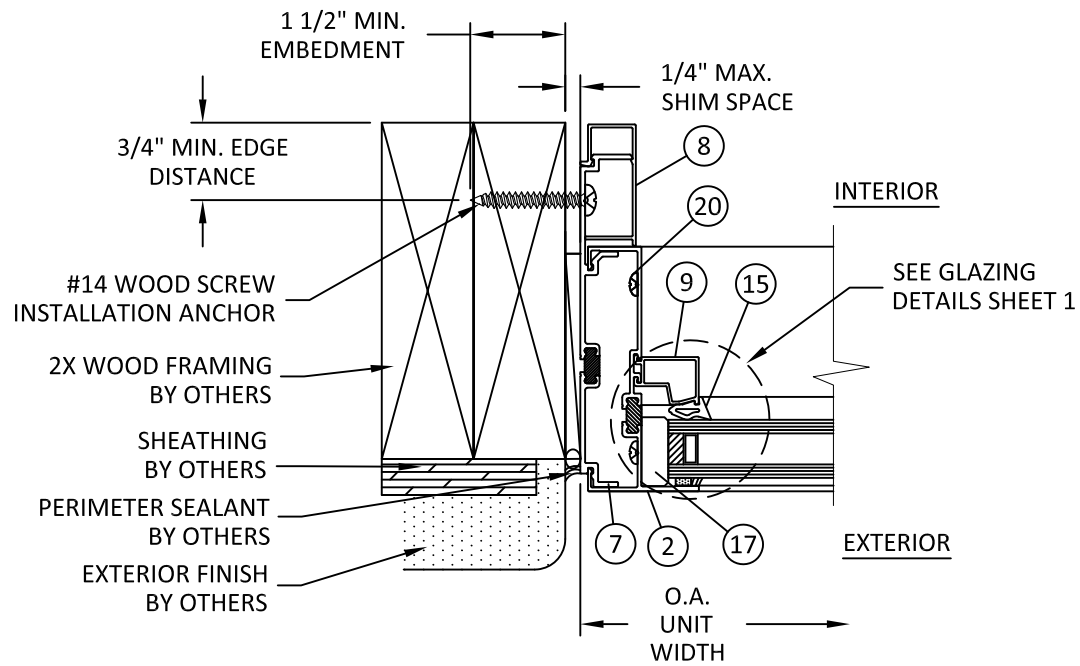


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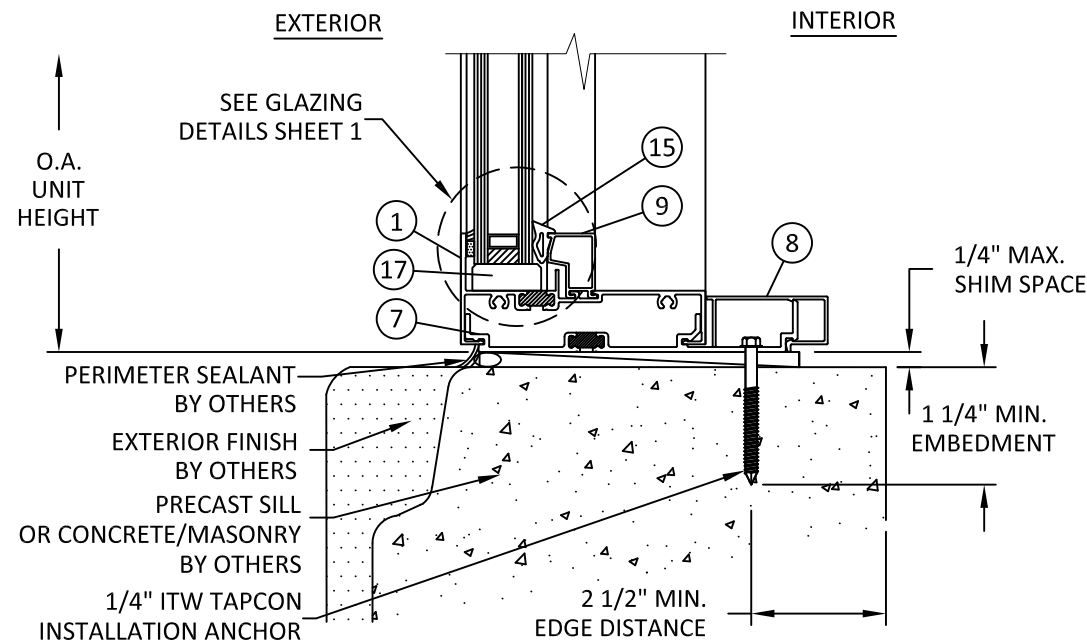
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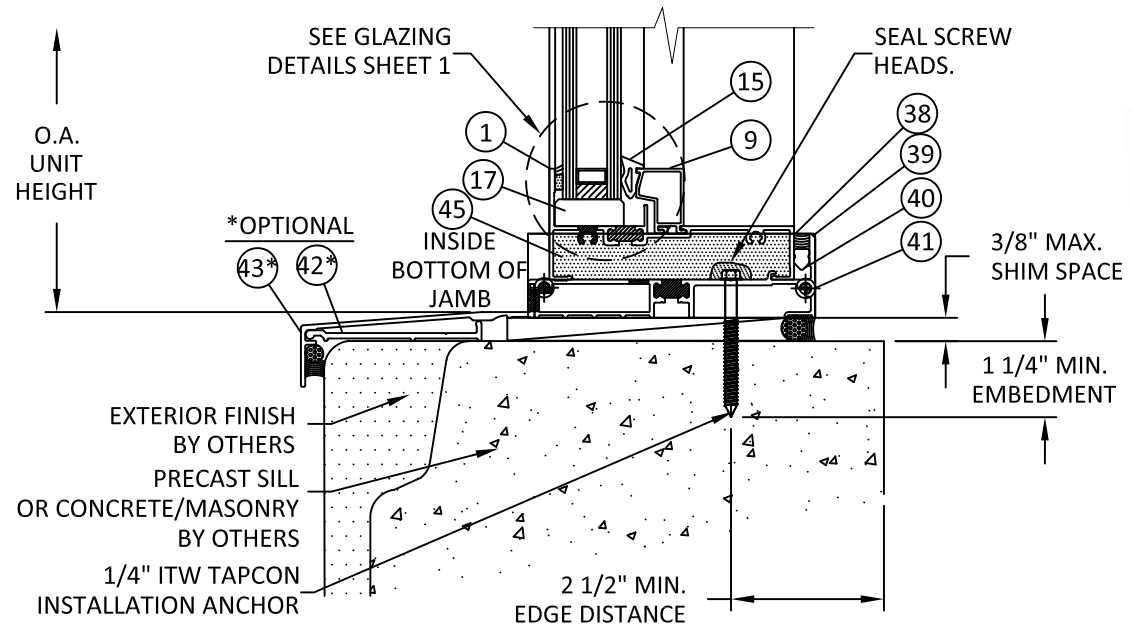
B
5 **VERTICAL SECTION**
HEAD - 2X WOOD BUCK
STRAP ANCHOR



C
5 **HORIZONTAL SECTION**
JAMB - 2X WOOD FRAMING
STRAP ANCHOR



A
5 **VERTICAL SECTION**
SILL - CONCRETE/MASONRY
STRAP ANCHOR



D
5 **VERTICAL SECTION**
SILL - CONCRETE/MASONRY
THROUGH FRAME



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STRAP INSTALLATION
VERTICAL/HORIZONTAL SECTIONS

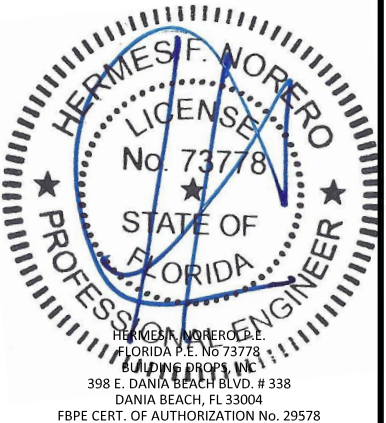
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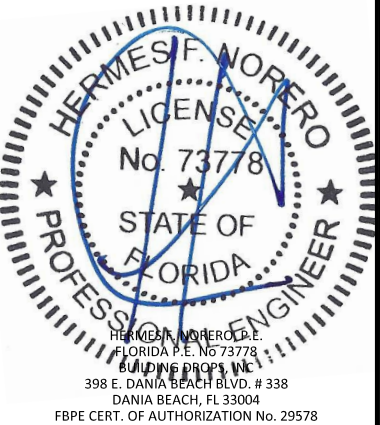


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(HVHZ) (NON-IMPACT)
CLIP INSTALLATION
VERTICAL/HORIZONTAL SECTIONS
PREPARED BY: BUILDING DROPS, INC.
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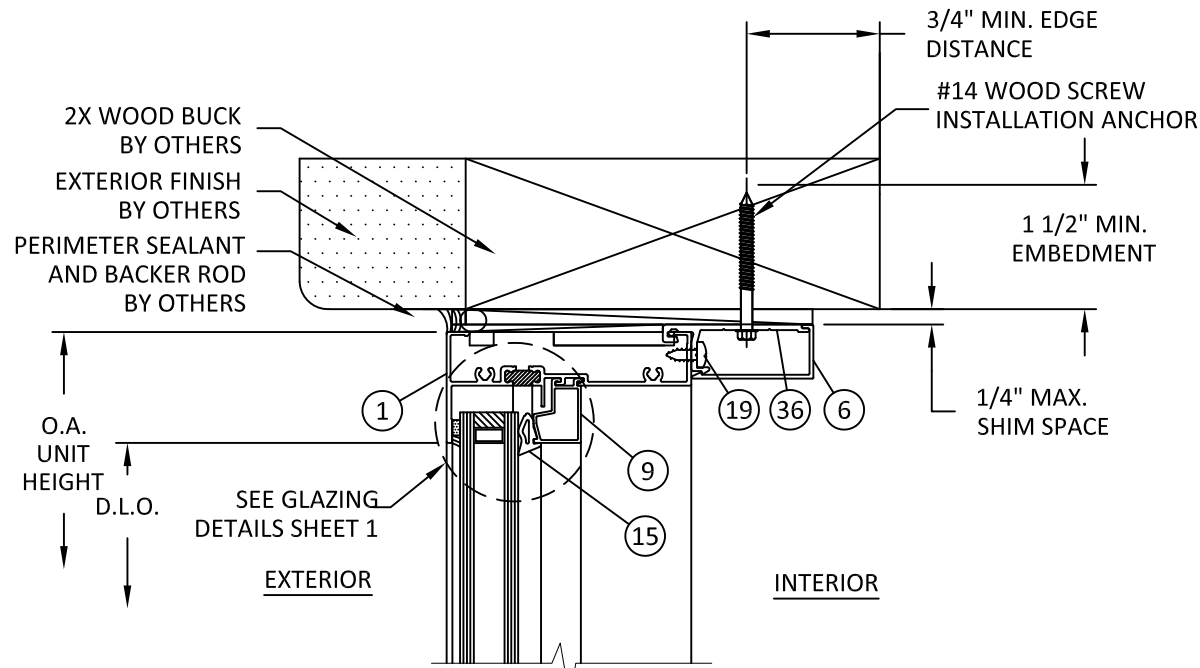
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SCALE: **NTS**

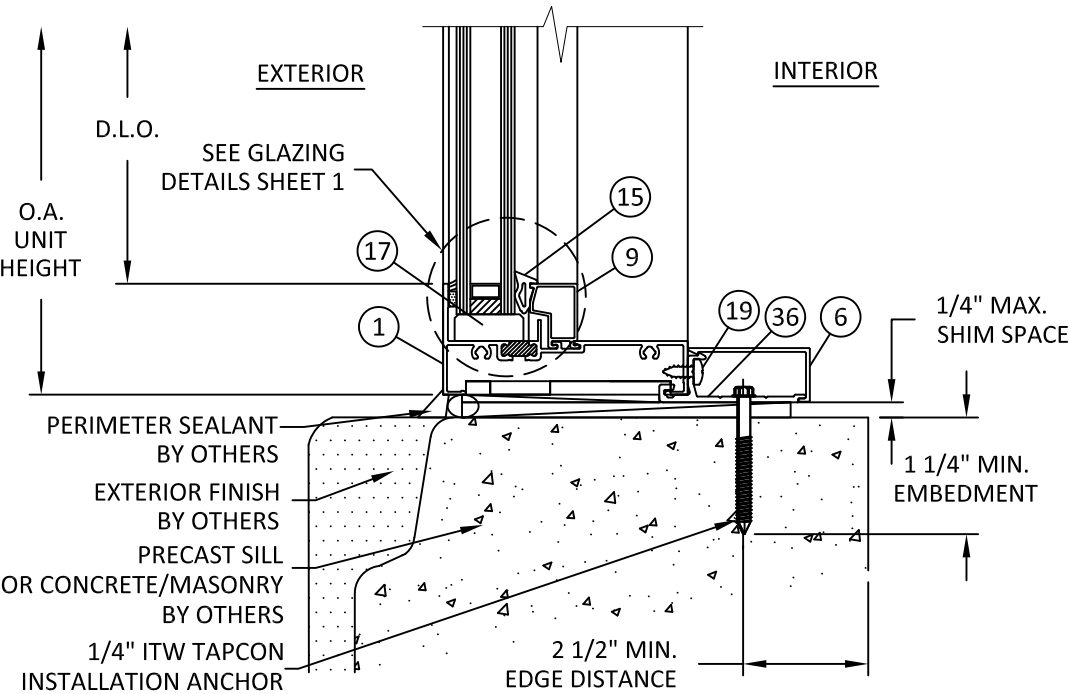
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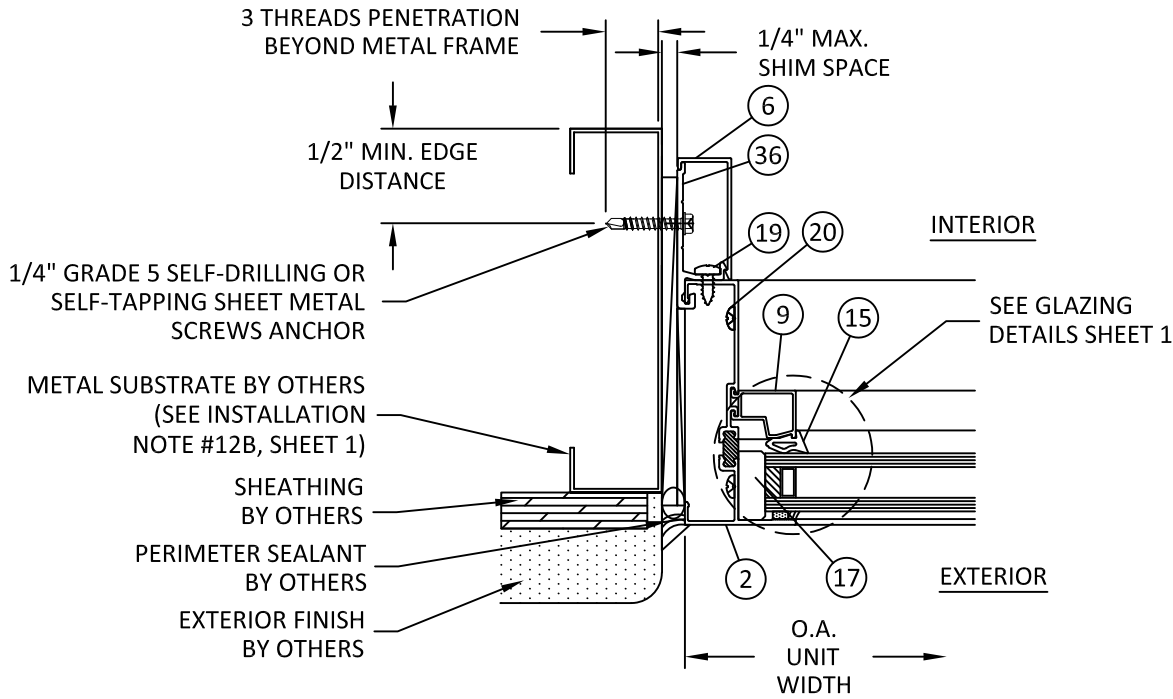
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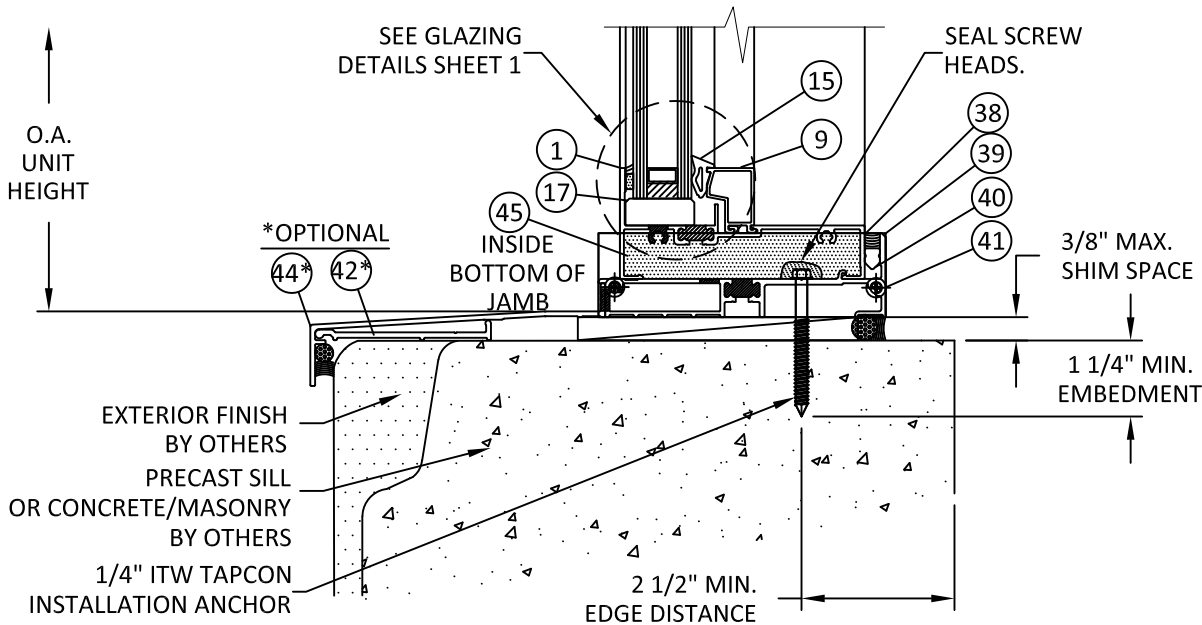
F6 VERTICAL SECTION
HEAD - 2X WOOD BUCK
CLIP ANCHOR



E6 VERTICAL SECTION
SILL - CONCRETE/MASONRY
CLIP ANCHOR



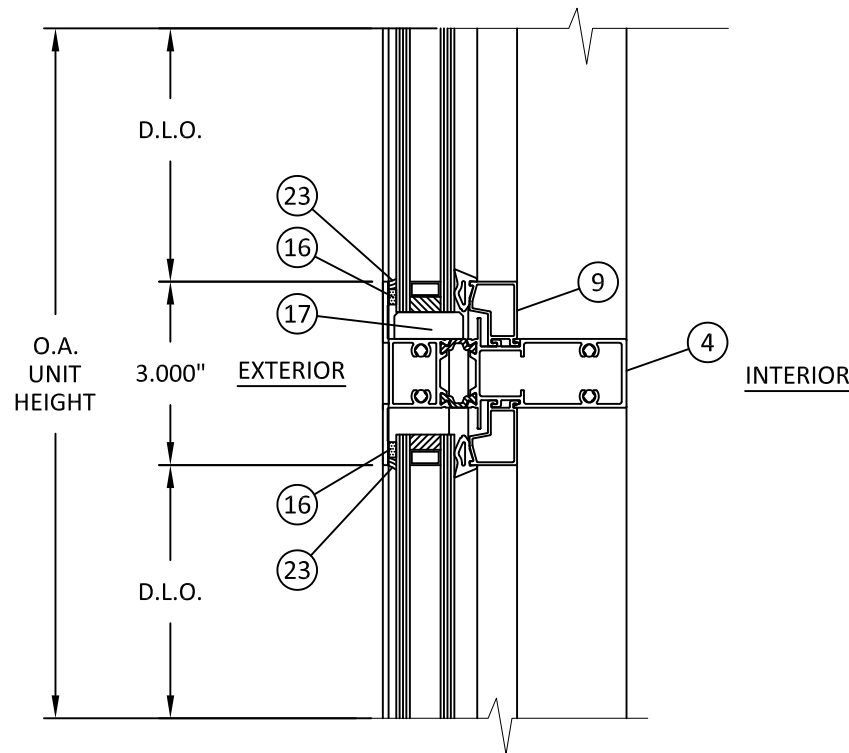
G6 HORIZONTAL SECTION
JAMB - STEEL STUD
CLIP ANCHOR



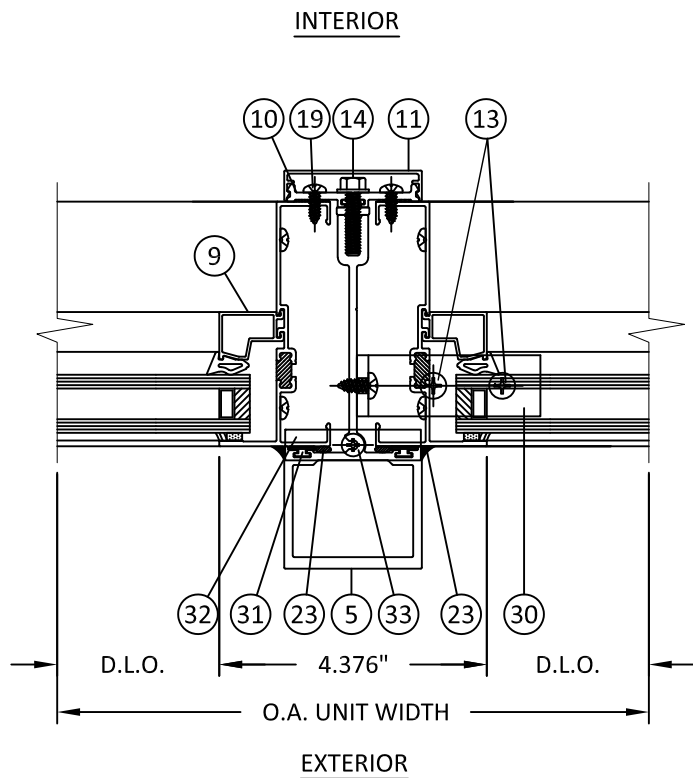
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SILL - CONCRETE/MASONRY
THROUGH FRAME

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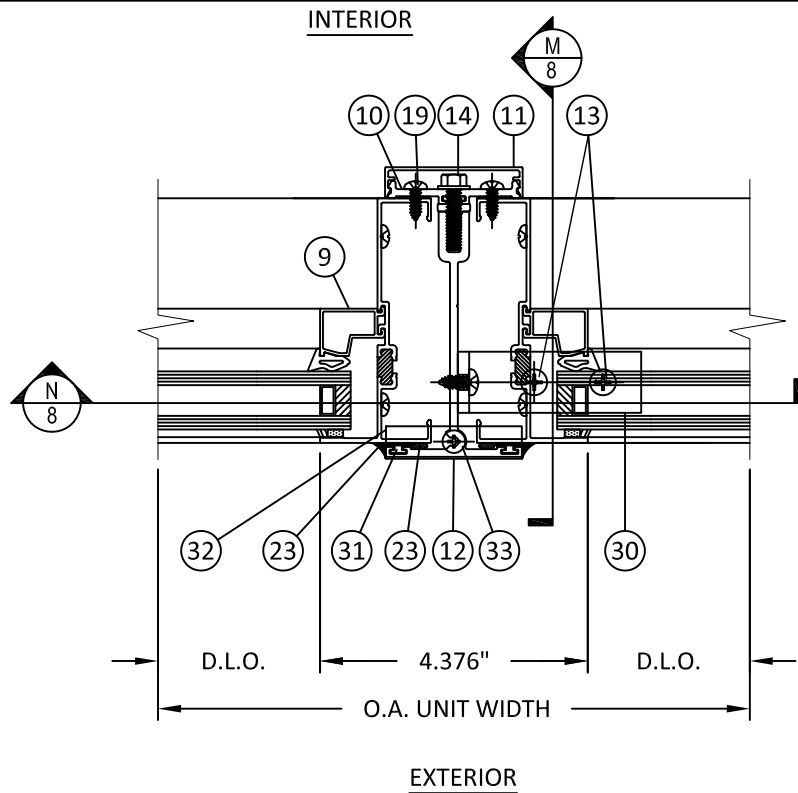
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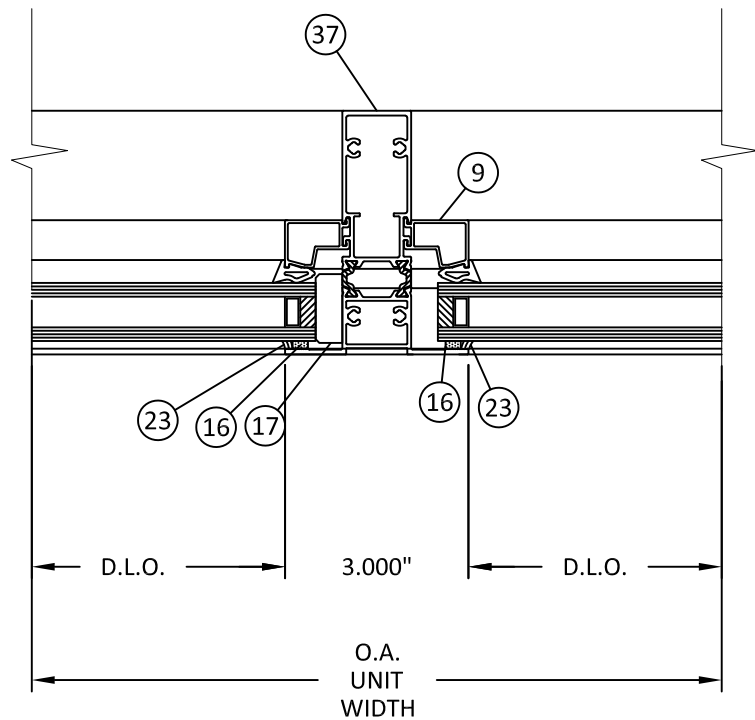
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7 **VERTICAL SECTION**
BE9-5703 HORIZONTAL MULLION



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7 **HORIZONTAL SECTION**
E9-4753 VERTICAL MULLION



J
7 **HORIZONTAL SECTION**
E9-4652 VERTICAL MULLION



L
7 **HORIZONTAL SECTION**
BE9-5704 VERTICAL MULLION



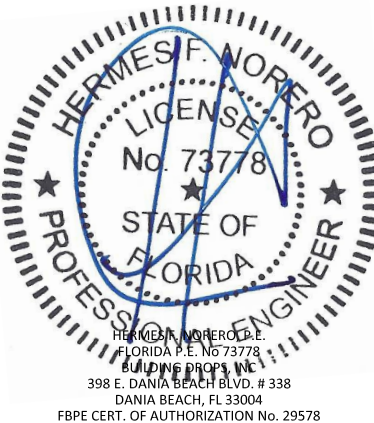
YKK AP America Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YFW-400 TU FIXED WINDOW
(HVHZ) (NON-IMPACT)
INTERMEDIATE HORIZONTAL
& VERTICAL MULLION SECTIONS

PREPARED BY:
BUILDING DROPS, INC.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001
WEB: www.buildingdrops.com

REMARKS	BY	DATE
A. SILL EXTENDER UPDATE	MS	04.02.20

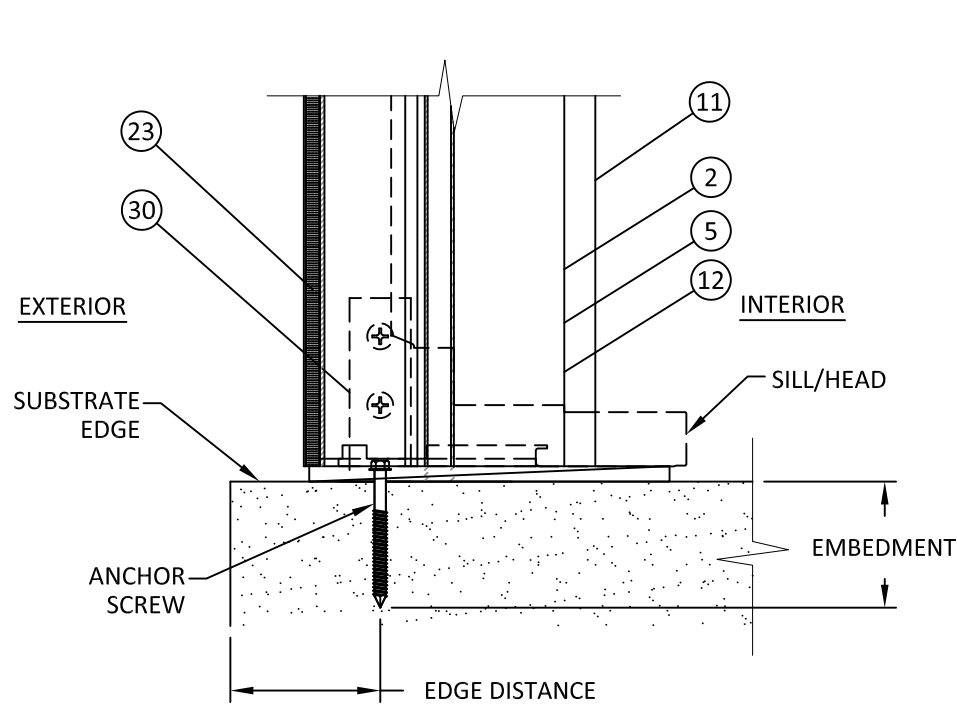
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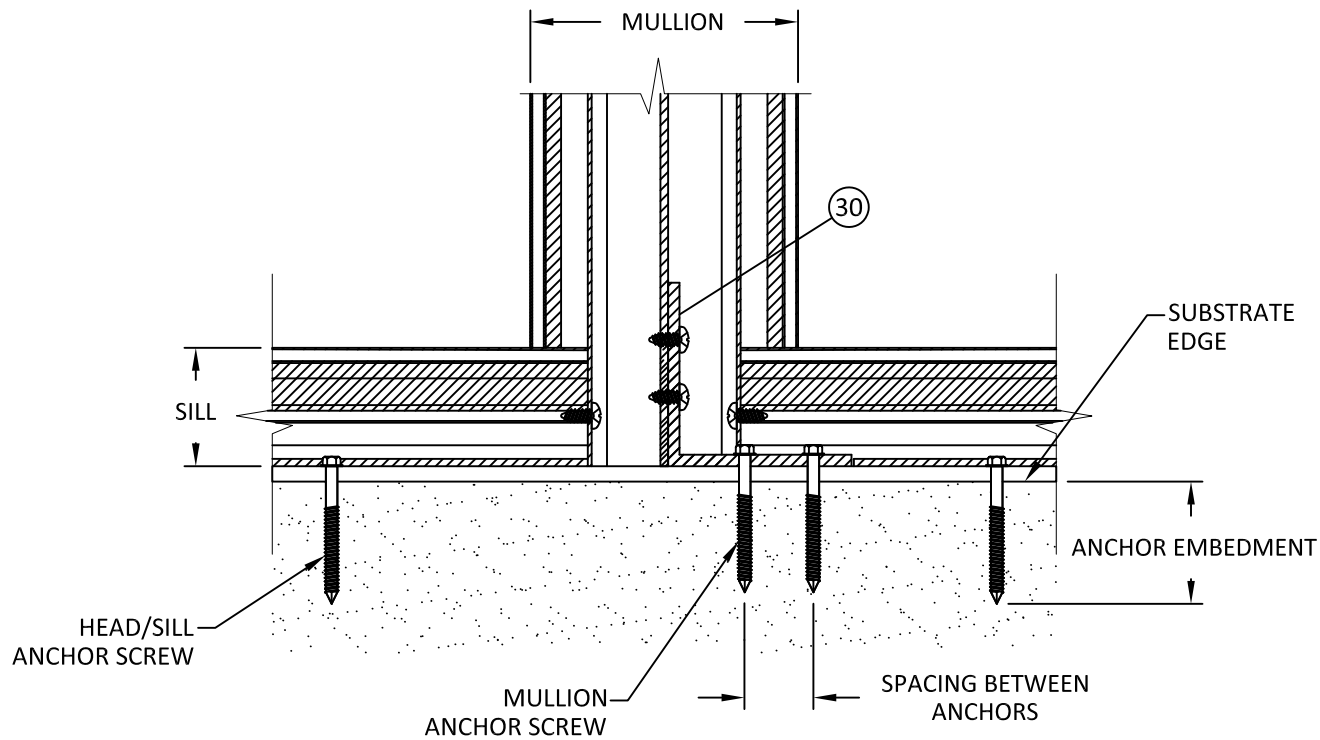
FL #:	FL13269
DATE:	05.23.18
DWG. BY:	AR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK262
SHEET:	7

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M
8 **MULLION TRANSVERSAL SECTION**



N
8 **MULLION LONGITUDINAL SECTION**

ANCHOR SPECIFICATIONS					
ANCHOR TYPE	SUBSTRATE	ANCHOR DIAMETER	EMBEDMENT	SPACING (S)	EDGE DISTANCE
1/4" ITW TAPCON	4000 PSI CONCRETE	1/4"	1 1/2"	1 1/8"	4"
#14 WOOD SCREW	WOOD, MIN. S.G.=0.55	1/4"	1 1/2"	1 1/8"	1"
#14 SELF DRILLING OR SELF TAPPING SCREW	STEEL, MIN. 18 GA. 33KSI	1/4"	3 THREADS MIN. PENETRATION	1 1/8"	1"



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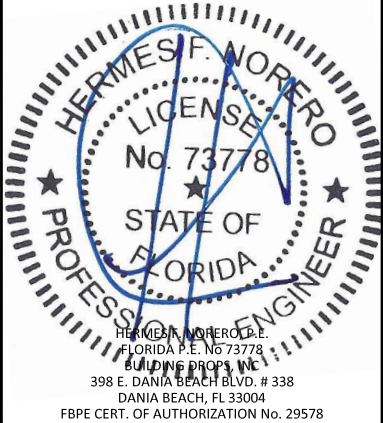
TITLE: YFW-400 TU FIXED WINDOW (HVHZ) (NON-IMPACT)

INTERMEDIATE MEMBERS SECTIONS & ANCHOR SPECIFICATIONS

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

REMARKS	BY	DATE
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DWG. BY: **AR** CHK. BY: **HFN**

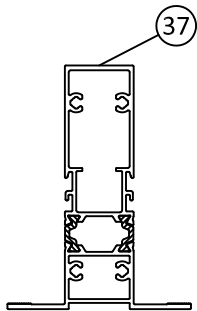
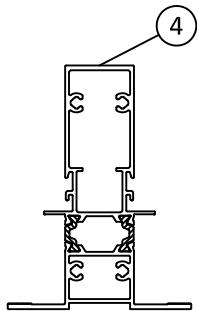
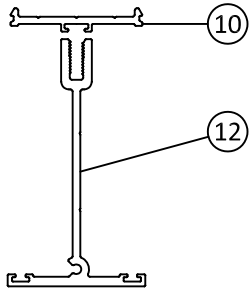
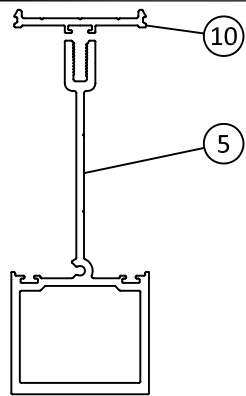
SCALE: **NTS**

DWG. #: **YKK262**

SHEET: **8**

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O
9

HORIZONTAL SECTION

E9-4753 VERTICAL MULLION

P
9

HORIZONTAL SECTION

E9-4652 VERTICAL MULLION

Q
9

HORIZONTAL SECTION

BE9-5703 HORIZONTAL MULLION

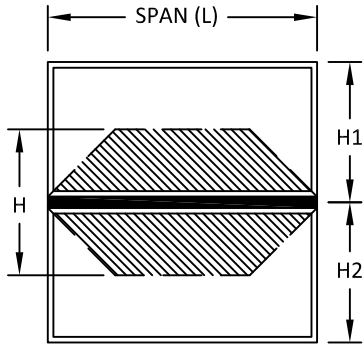
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HORIZONTAL SECTION

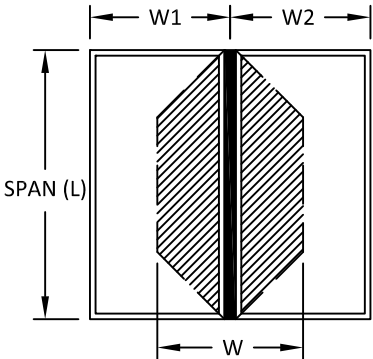
BE9-5704 VERTICAL MULLION

MULLION LOAD CAPACITY (+/- PSF)					
NOMINAL DIMS.		E9-4652 STACKING MULLION		E9-4753 STACKING MULLION	
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	WITHOUT INTERMEDIATE HORIZONTALS	WITH INTERMEDIATE HORIZONTALS	WITHOUT INTERMEDIATE HORIZONTALS	WITH INTERMEDIATE HORIZONTALS
60	99	68.4	72.5	77.9	100.0
48		78.6	90.6	89.6	100.0
36		97.1	100.0	100.0	100.0
24		100.0	100.0	100.0	100.0
60	96	76.0	79.5	86.6	100.0
48		87.1	99.3	99.2	100.0
36		100.0	100.0	100.0	100.0
60		95.2	96.4	100.0	100.0
48	90	100.0	100.0	100.0	100.0
36		100.0	100.0	100.0	100.0
60		100.0	100.0	100.0	100.0
48		100.0	100.0	100.0	100.0
60	84	100.0	100.0	100.0	100.0
48		100.0	100.0	100.0	100.0
60		100.0	100.0	100.0	100.0
48		100.0	100.0	100.0	100.0
60	78	100.0	100.0	100.0	100.0
48		100.0	100.0	100.0	100.0
60	66	100.0	100.0	100.0	100.0

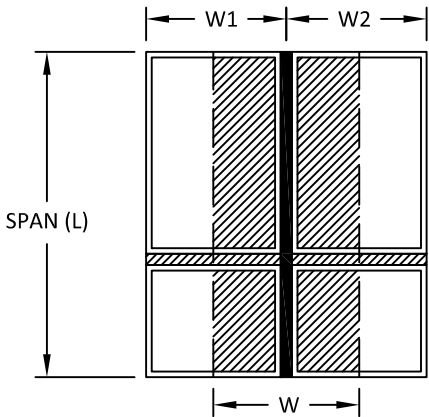
MULLION LOAD CAPACITY (+/- PSF)		
NOMINAL DIMS.		BE9-5704 / BE9-5703 INTEGRAL MULLION
TRIBUTARY WIDTH 'W' OR HEIGHT 'H' (in.)	SPAN LENGTH 'L' (in.)	
42	48	100.0
50		100.0
54		100.0
60		100.0
36	54	100.0
42		100.0
50		100.0
54		100.0
30	60	100.0
36		100.0
42		100.0
50		100.0
30	66	93.5
36		81.0
42		72.7
44		70.6
24	72	86.5
30		71.0
36		61.1
40		56.4



NOTES:
TRIBUTARY HEIGHT (H) = (H1+H2)/2



NOTES:
TRIBUTARY WIDTH (W) = (W1+W2)/2



NOTES:
TRIBUTARY WIDTH (W) = (W1+W2)/2



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TITLE: YFW-400 TU FIXED WINDOW (H/VHZ) (NON-IMPACT)

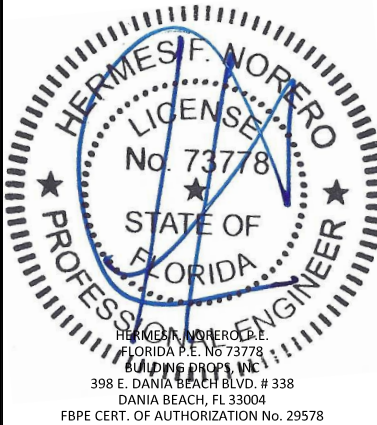
MULLION DESIGN PRESSURE TABLES



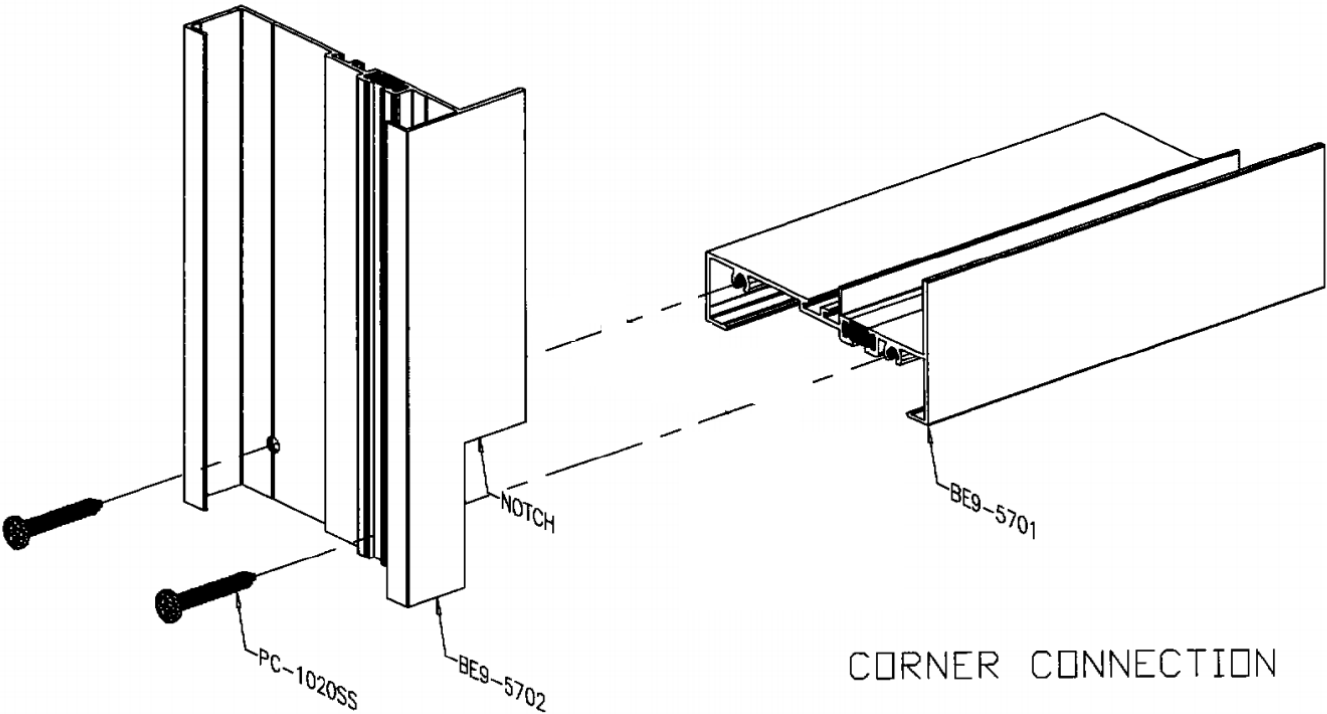
PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
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REMARKS	BY	DATE
A. SILL EXTENDER UPDATE	MS	04.02.20

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DATE:	05.23.18
DWG. BY:	AR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK262
SHEET:	9



NOTE: FRAME CORNERS MUST BE SEALED PER
MANUFACTURER'S GUIDELINES TO PREVENT
WATER INFILTRATION



YKK AP America Inc.
1229 HWY 441 BYPASS
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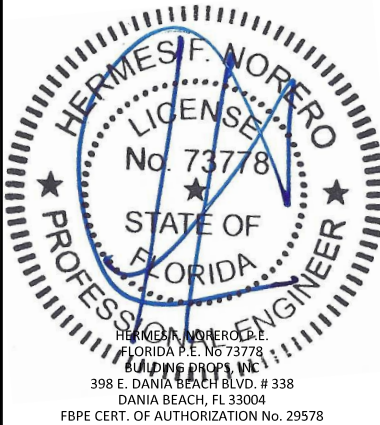
TITLE: YFW-400 TU FIXED WINDOW
(HVHZ) (NON-IMPACT)
FRAME CORNER
CONSTRUCTION DETAIL

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
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SCALE: **NTS**

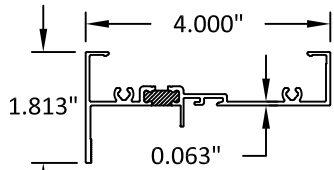
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SHEET:
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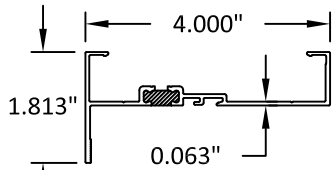
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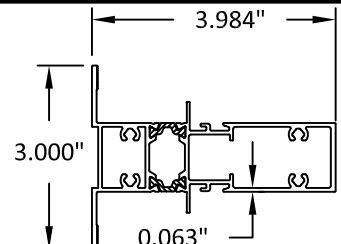
YFW 400TU BILL OF MATERIALS				
Item#	Part#	Description	Material	Manufacturer
1	BE9-5701	FRAME HEAD AND SILL	6063-T5	YKK-AP
2	BE9-5702	FRAME JAMB	6063-T5	YKK-AP
4	BE9-5703	INTEGRAL MULLION	6063-T5	YKK-AP
5	E9-4753	STACKING MULLION (TUBULAR)	6063-T5	YKK-AP
6	E9-4035	7/8" X 2" CLIP ANCHOR COVER	6063-T5	YKK-AP
7	E1-1921	STRAP ANCHOR (E9-4034)	6063-T5	YKK-AP
8	E9-8431	STRAP ANCHOR COVER	6063-T5	YKK-AP
9	E9-5730	GLASS STOP	6063-T5	YKK-AP
10	AS-4231	PRESSURE BAR	6063-T5	YKK-AP
11	E9-5111	FACE COVER	6063-T5	YKK-AP
12	E9-4652	STACKING MULLION	6063-T5	YKK-AP
13	-	#12 X 1 3/4" CLIP ANCHOR (MIN.)		
14	HD-2516-W3-SS	#1/4-20 X 1" HWHMS TYPE CA SS		
15	E2-0672	WEDGE GASKET	EPDM	TREMCO OR EQUAL
16	E2-0670	GLAZING TAPE - PSA - 2	POLY'U	TAPE SPECIALTY
17	E2-0104	SETTING BLOCK / SIDE BLOCK	EPDM	TREMCO OR EQUAL
19	PC-1008	#10 X 1/2" PHSMS T/AB	-	
20	PC-1020SS	#10 X 1 1/4" PHSMS-SS T/AB	-	
21	-	FRAME ANCHOR (SEE ANCHOR CHART)	-	
23	SILICONE	TREMSIL 600 OR PECORA 896FC	SILICONE	TREMCO OR EQUAL
24	JOINT SEALER	NARROW JOINT SEAM SEALER	ARCYLIC	SM-5504 OR EQUAL
30	E1-1537	ANCHOR CLIP (3" X 3" X 3/16" STRUCTURAL)	6063-T5	
31	E2-0051	AT GASKET	-	TREMCO OR EQUAL
32	E1-1536	END CAP	ALUM.	
33	PC-1006	#10 X 3/8" PHSMS T/AB		
34	-	#12 X 1 3/4" CLIP ANCHOR (MIN.)		
35	HM-2516-W3	1/4" X 1" HWHS T/F		
36	E1-1922	CLIP ANCHOR	6063-T5	YKK-AP
37	BE9-5704	INTEGRAL MULLION	6063-T5	YKK-AP
38	E1-2005	END DAM		
39	BE9-4585	4" WEEPING SILL FLASHING	6063-T5	YKK-AP
40	E2-0359	PUSH IN SPACER		
41	PC-0806SS	#8 X 3/8" PHSMS TYPE AB	STAINLESS STEEL	
42	E9-4559	SILL TRIM BASE	6063-T5	YKK-AP
43	E9-4586	3" SILL TRIM	6063-T5	YKK-AP
44	E9-4587	4" SILL TRIM	6063-T5	YKK-AP
45	E2-0771	JAMB BLOCK		



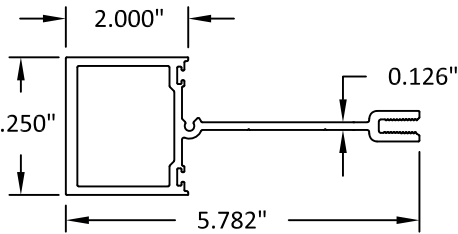
1 FRAME HEAD AND SILL
6063-T5



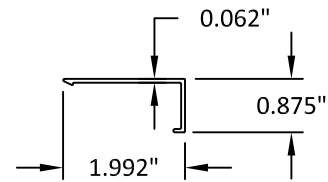
2 FRAME JAMB
6063-T5



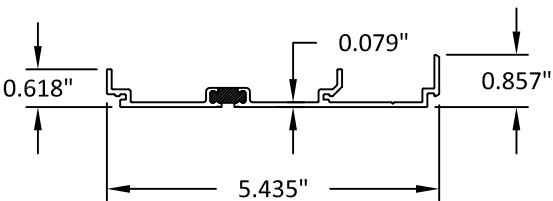
4 INTEGRAL MULLION
6063-T5



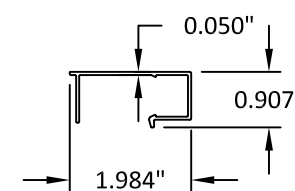
5 STACKING MULLION (TUBULAR)
6063-T5



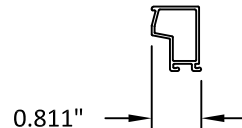
6 7/8" x 2" CLIP ANCHOR COVER
6063-T5



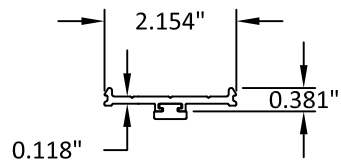
7 STRAP ANCHOR
6063-T5



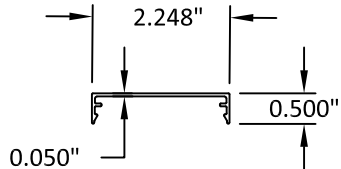
8 STRAP ANCHOR COVER
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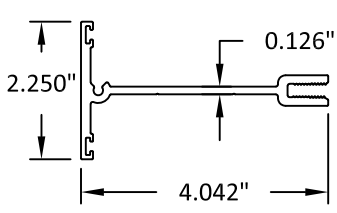
9 GLASS STOP
6063-T5



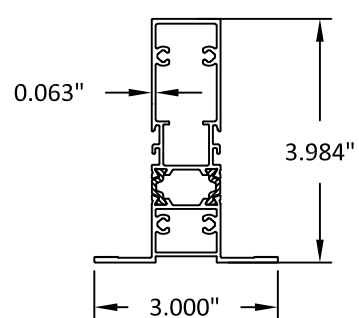
10 PRESSURE BAR
6063-T5



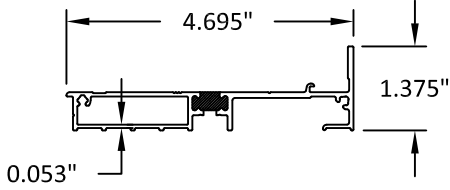
11 FACE COVER
6063-T5



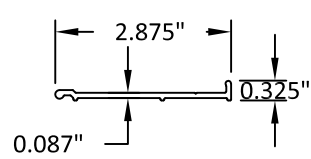
12 STACKING MULLION
6063-T5



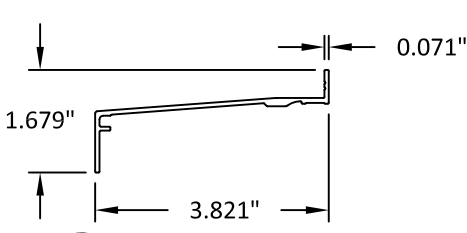
37 INTEGRAL MULLION
6063-T5



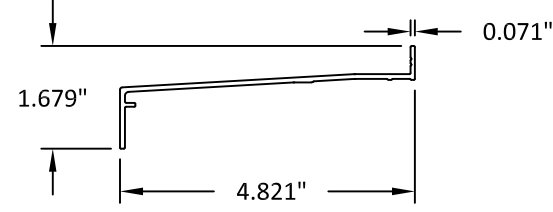
39 4" WEEPING SILL FLASHING
6063-T5



42 SILL TRIM BASE
6063-T5



43 3" SILL TRIM
6063-T5



44 4" SILL TRIM
6063-T5



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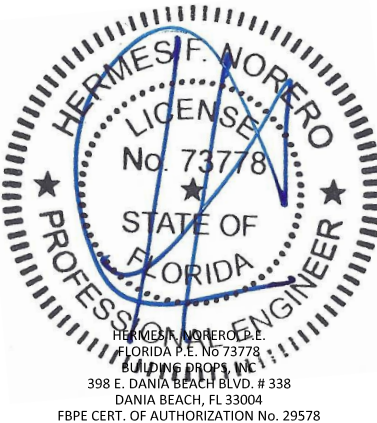
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(HWHZ) (NON-IMPACT)
COMPONENTS AND
BILL OF MATERIALS

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