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YKK AP America Inc.

YSG 50/50T WINDOW WALL SYSTEM

(NON-HVHZ) (NON-IMPACT)

INSTALLATION NOTES:

1. SEE SECTION 2.1 FOR ANCHOR TYPE REQUIREMENTS, MINIMUM EMBEDMENT, AND MINIMUM EDGE DISTANCES. ALL ANCHOR REQUIREMENTS MUST BE ADHERED TO. ANY DEVIATIONS FROM ANCHOR REQUIREMENTS REQUIRES SEPARATE EVALUATION AND APPROVAL.
2. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
3. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
4. 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.
5. 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.
6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
7. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
8. 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.
9. 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.
- 10.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. MASONRY - CMU UNIT STRENGTH CONFORMS TO ASTM C-90, WITH MIN. COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MIN. GROUT COMPRESSIVE STRENGTH OF 2000 PSI.

D. STEEL - MINIMUM YIELD STRENGTH OF 36 KSI. MINIMUM 12 GA. WALL THICKNESS.

E. STEEL - MINIMUM YIELD STRENGTH OF 36 KSI. MINIMUM 18 GA. WALL THICKNESS WITH 2X WOOD BACKING.

F. ALUMINUM - MINIMUM 1/8 INCH THICK 6063-T5 ALUMINUM.

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 501-15

ASTM E283-04(12)

ASTM E330-14

ASTM E331-00(09)
2. 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.
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** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE. SEE SECTION 5.0 FOR GLAZING DETAIL. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300.
6. STOREFRONT FRAME MATERIAL: ALUMINUM 6063-T5
7. ALL STRUCTURAL MATERIALS & DISSIMILAR METALS SHALL BE PROTECTED, TREATED, PAINTED, COATED, AND/OR ISOLATED AS REQUIRED IN THE APPLICABLE SECTIONS OF THE CURRENT FLORIDA BUILDING CODE AND REFERENCED DESIGN SPECIFICATIONS.

TABLE OF CONTENTS	
SECTION	DESCRIPTION
1.0	INSTALLATION & GENERAL NOTES
2.0	ELEVATION & ANCHOR LAYOUT
3.0	VERTICAL SECTION
4.0	HORIZONTAL SECTION
5.0	GLAZING DETAILS & GLASS CAPACITY TABLE
6.0	COMPONENTS AND BILL OF MATERIALS

INSTRUCTIONS FOR USE:

1. DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG, HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
2. SEE CHART ON SECTION 5.0 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE. GLASS SELECTION SHALL BE IN ACCORDANCE WITH ASTM E1300.
3. CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHART ON SECTION 3.1 & 4.1, THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
4. THE LOWEST VALUE RESULTING FROM STEP 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.



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

TITLE: YSG 50/50T
WINDOW WALL SYSTEM
(NON-HVHZ) (NON-IMPACT)

INSTALLATION & GENERAL NOTES

PREPARED BY:

BUILDING DROPS, INC.

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

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

WEB: www.buildingdrops.com



REMARKS	BY	DATE
A. CORNER TRIM UPDATE	MS	JAN./22

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Reason: I am approving this document
Date: 2022.02.07 10:13:31 -05'00'



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DATE: 05.14.20

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ER/MS

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

YKK273

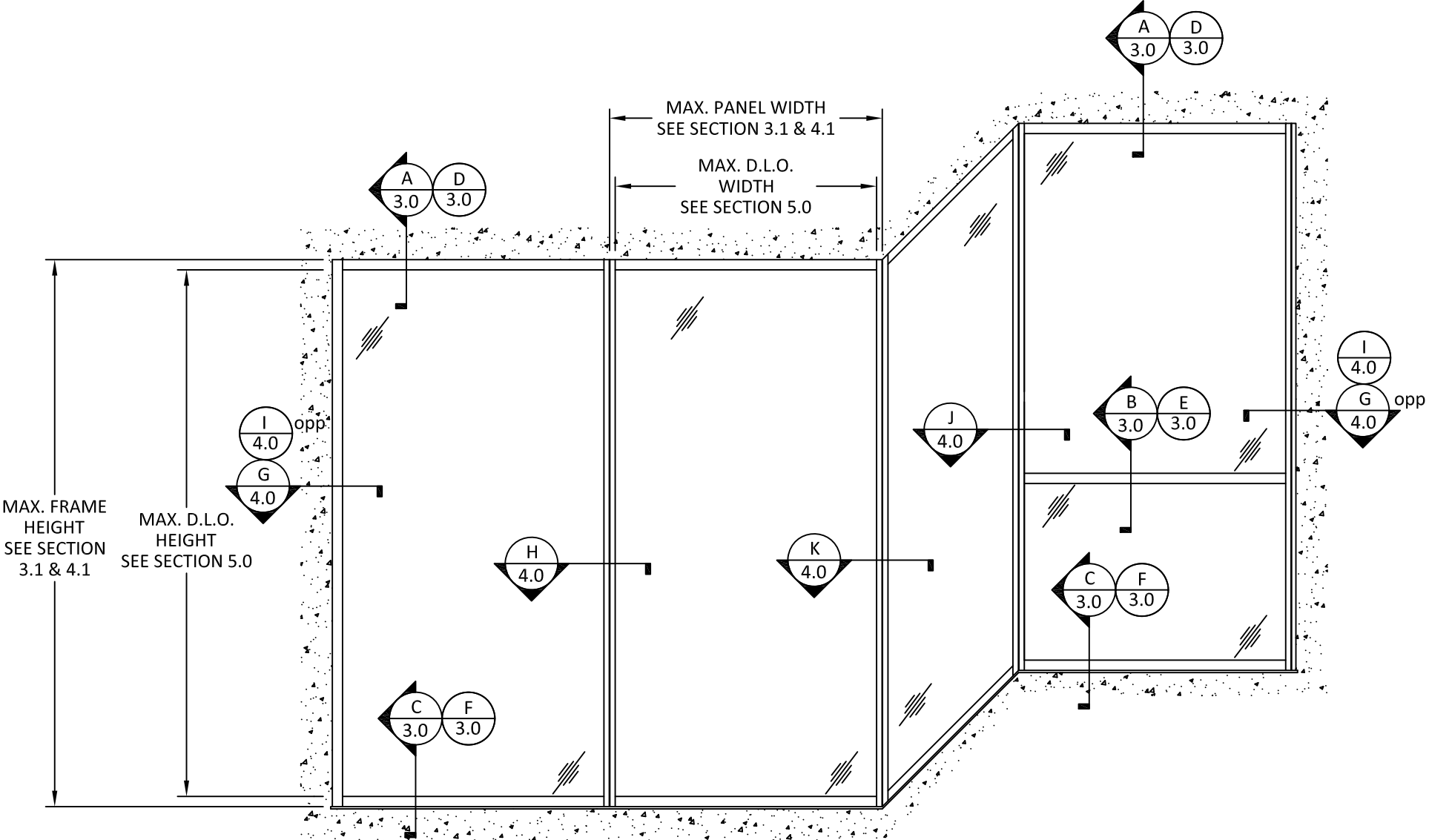
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ELEVATION
TYPICAL YSG 50/50T WINDOW WALL



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ELEVATION

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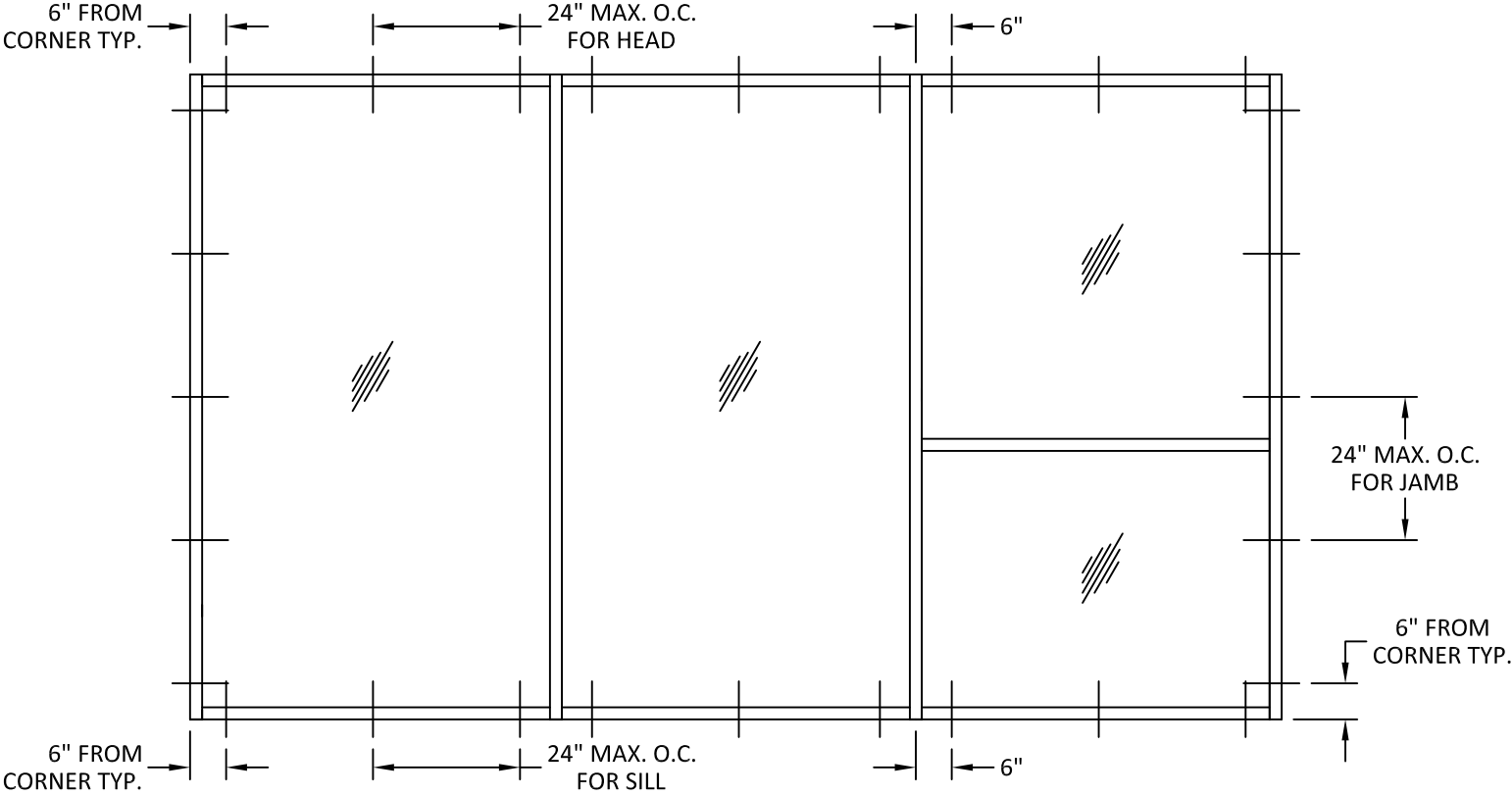
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ANCHOR LAYOUT

YSG 50/50T ANCHOR TYPES					
TYPES	ANCHOR DESCRIPTION	SUBSTRATE REQUIREMENTS	MIN. EMBEDMENT	MIN. EDGE DISTANCE	NOTES
A	1/4" DIA. TAPCON BY ITW (Fu=125 KSI, Fy=100 KSI) OR 1/4" DIA. ULTRACON BY ELCO (Fu=155 KSI, Fy=177 KSI)	CONCRETE AT HEAD, SILL OR JAMBS F'C=3000 PSI MIN.	1-1/4"	2-1/2"	MAY BE USED THROUGH OPTIONAL 1X BUCKS, BY OTHERS
B	#14 WOOD SCREWS	MIN. S.G.=0.55 WOOD	1-1/2"	3/4"	--
C	1/4" DIA. SELF-DRILLING OR SELF-TAPPING SCREWS (GRADE 5)	STEEL: 16 GA. MIN., Fy=33 KSI MIN. ALUM.: 1/8" MIN., 6063-T5 MIN.	3 THREADS PENETRATION PAST METAL STRUCTURE	3/4"	STEEL IN CONTACT WITH ALUM. TO BE PLATED OR PAINTED



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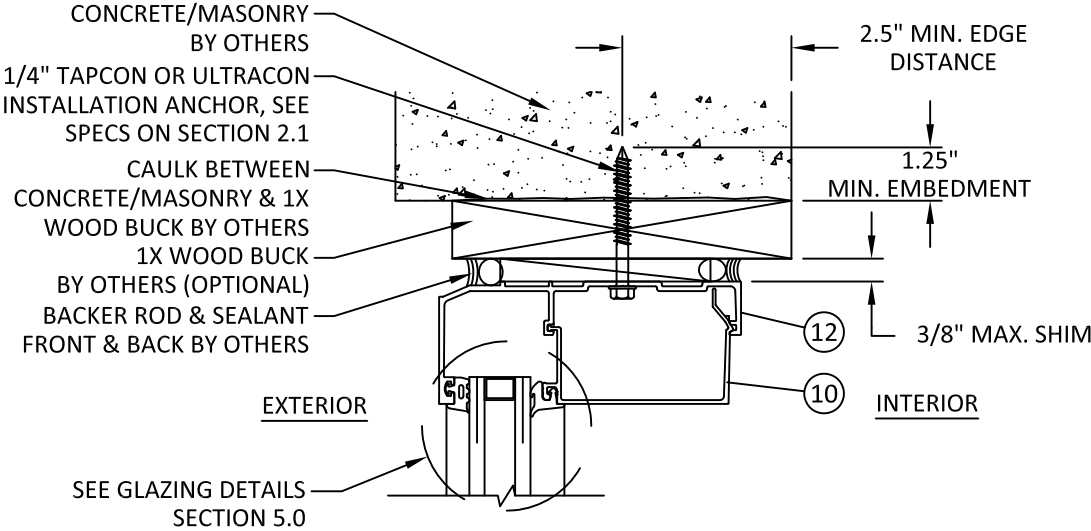
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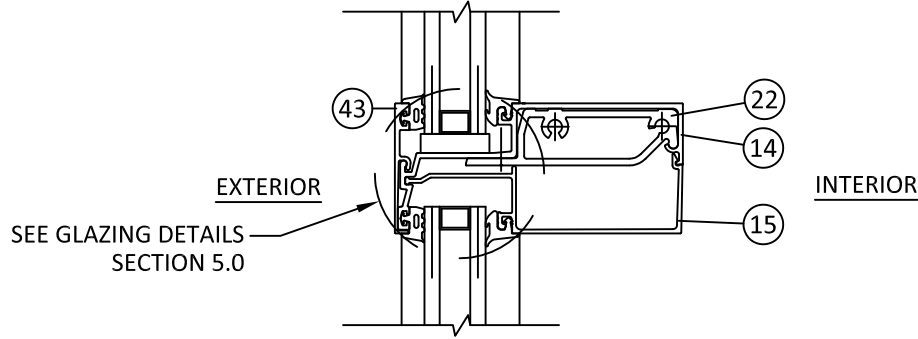
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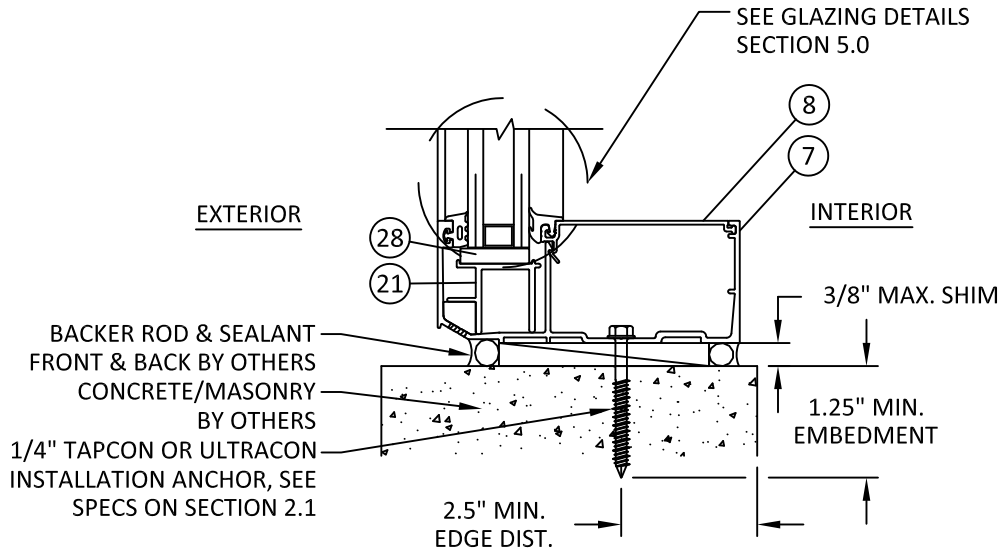
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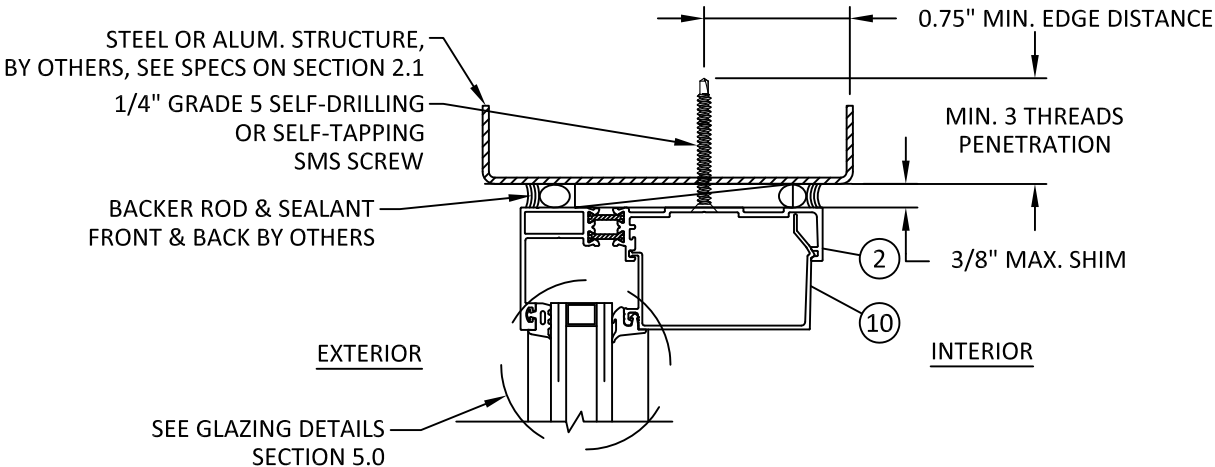
A
3.0 VERTICAL SECTION
HEAD - CONCRETE/MASONRY W/ 1X BUCK
YSG 50



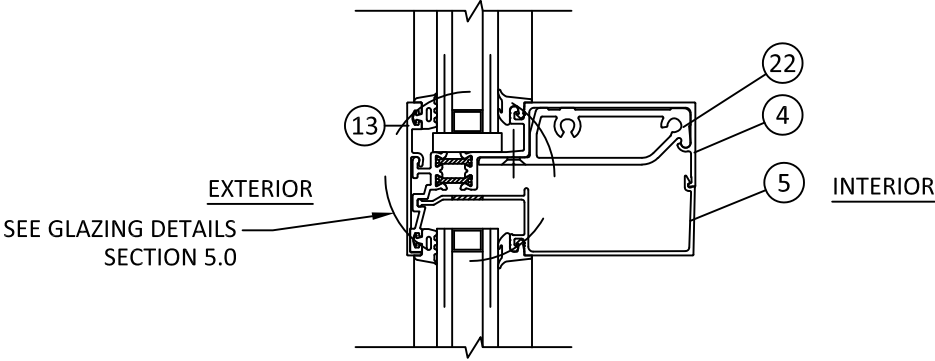
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HORIZONTAL MEMBER
YSG 50



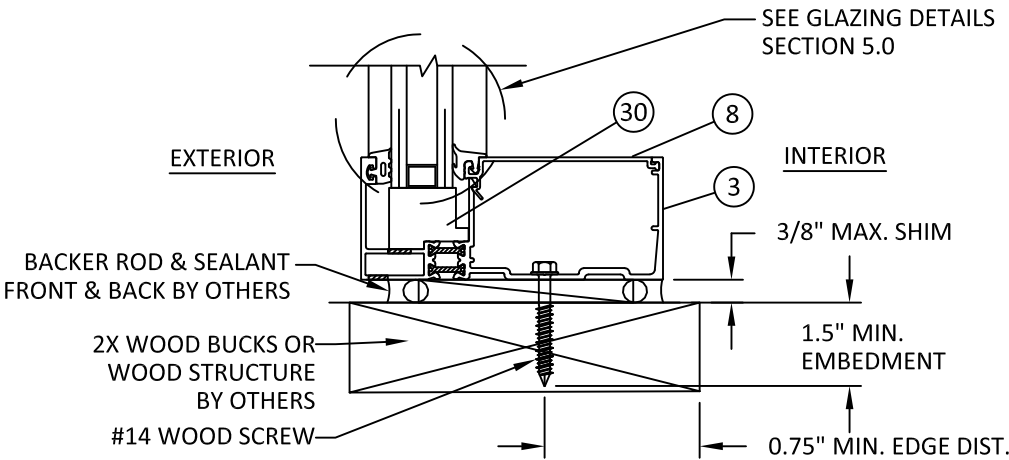
C
3.0 VERTICAL SECTION
SILL - DIRECT TO CONCRETE/MASONRY
YSG 50



D
3.0 VERTICAL SECTION
HEAD - METAL STUD
YSG 50T



E
3.0 VERTICAL SECTION
HORIZONTAL MEMBER
YSG 50T



F
3.0 VERTICAL SECTION
SILL - WOOD FRAME
YSG 50T



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(NON-HVHZ) (NON-IMPACT)

VERTICAL SECTION

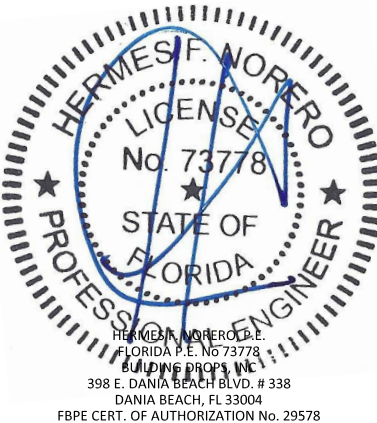
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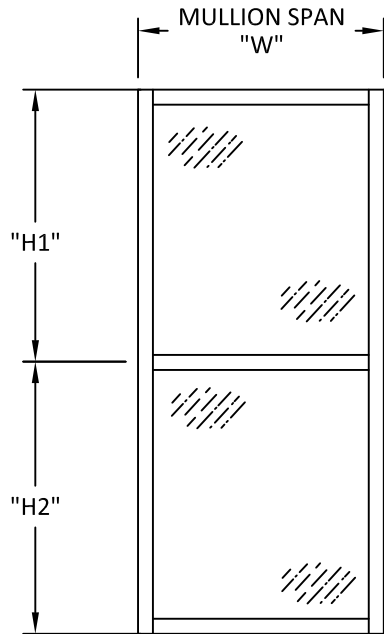
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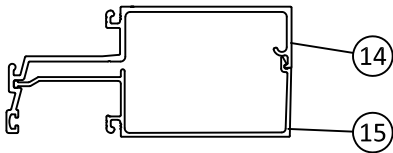
HORIZONTAL MULLIONS



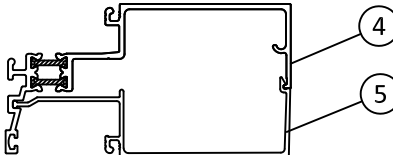
MULLION SPACING OR TRIBUTARY HEIGHT, 'H'	$H = \frac{H1+H2}{2}$
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NOTES:

- 1. TABULATED DESIGN PRESSURE VALUES ARE BASED ON LIMITATIONS OF DEFLECTION, FIBERSTRESS, END REACTION, GIVEN COMBINATIONS OF MULLION SPAN WIDTH ('W') AND TRIBUTARY HEIGHT ('H').
- 2. DESIGN PRESSURES SHALL BE READ AS BOTH POSITIVE AND NEGATIVE PRESSURES.
- 3. FOR SITE CONDITIONS NOT SPECIFICALLY SHOWN IN THE DETAILS HEREIN FURTHER ENGINEERING MAY BE REQUIRED ON A CASE BY CASE BASIS.



"M1"
HORIZONTAL MULLION FOR YSG 50



"M2"
HORIZONTAL MULLION FOR YSG 50 T

HORIZONTAL MULLION CAPACITY (PSF)			
NOMINAL DIMS. (IN)		MULLION 'M1'	MULLION 'M2'
SPAN WDTH (W)	TRIBUTARY HEIGHT (H)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	24	100.0	100.0
36		100.0	100.0
42		100.0	100.0
48		100.0	100.0
54		100.0	100.0
60		100.0	100.0
66		100.0	100.0
72	30	100.0	100.0
30		100.0	100.0
36		100.0	100.0
42		100.0	100.0
48		100.0	100.0
54		100.0	100.0
60		100.0	100.0
66		100.0	100.0
72	36	90.3	100.0
30		100.0	100.0
36		100.0	100.0
42		100.0	100.0
48		100.0	100.0
54		100.0	100.0
60		100.0	100.0
66	42	93.7	100.0
72		77.4	90.6
30		100.0	100.0
36		100.0	100.0
42		100.0	100.0
48		100.0	100.0
54		100.0	100.0
60	48	100.0	100.0
66		83.6	97.9
72		68.6	80.3
30		100.0	100.0
36		100.0	100.0
42		100.0	100.0
48		100.0	100.0
54	48	100.0	100.0
60		97.4	100.0
66		76.9	90.0
72		62.4	73.1

NOTE:
SYSTEM IS RATED FOR A MAXIMUM
POSITIVE DESIGN PRESSURE UP TO 66.7
PSF BASED ON WATER INFILTRATION.



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(NON-HVHZ) (NON-IMPACT)

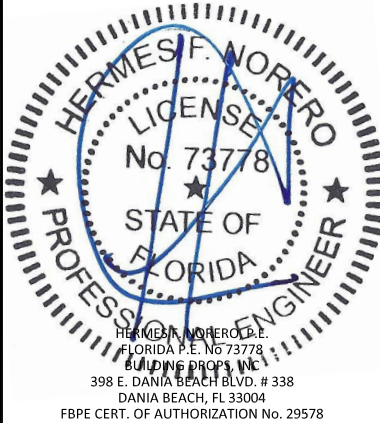
VERTICAL SECTION

PREPARED BY:
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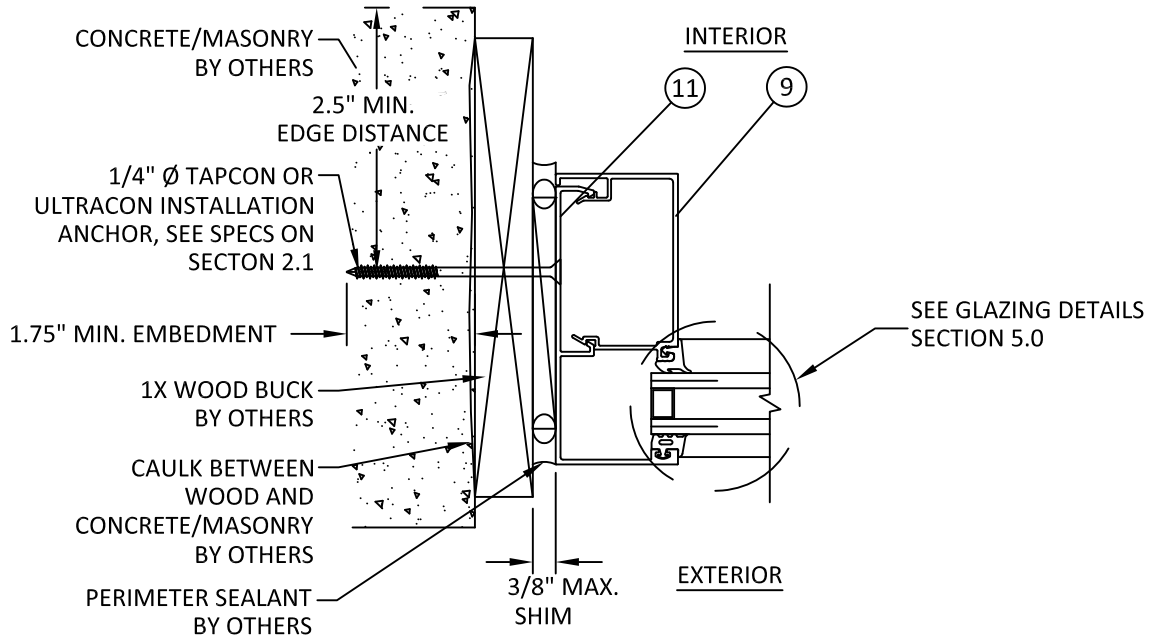
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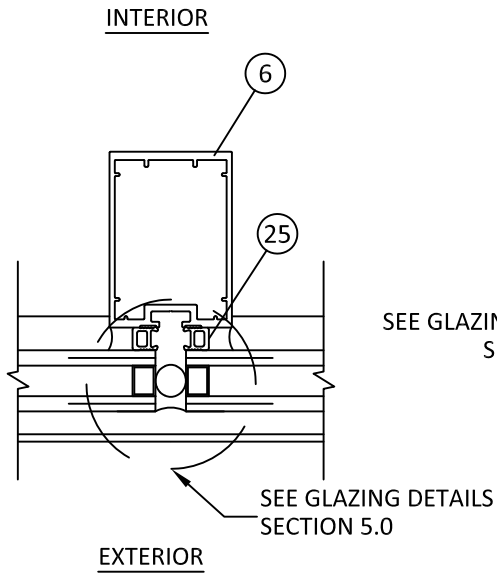
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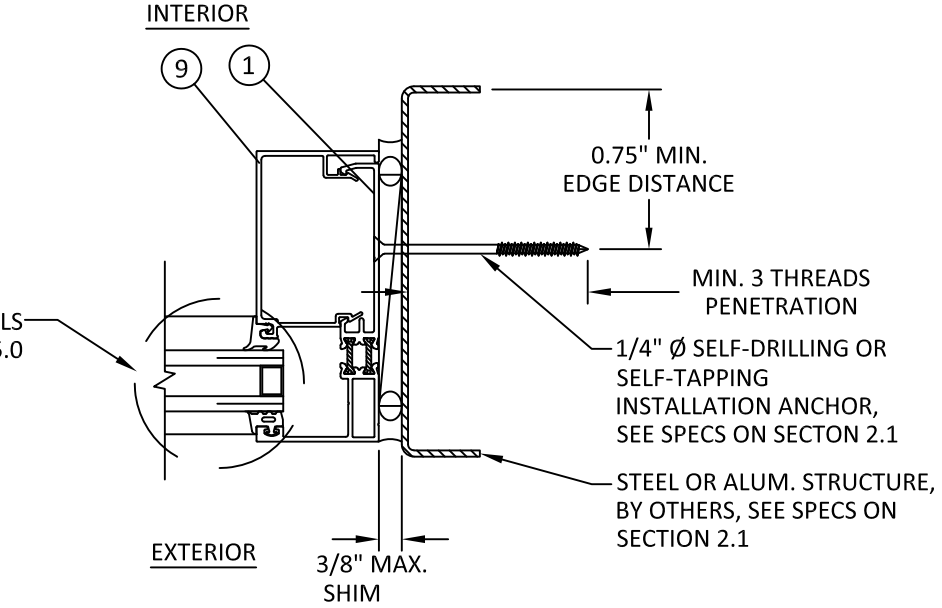
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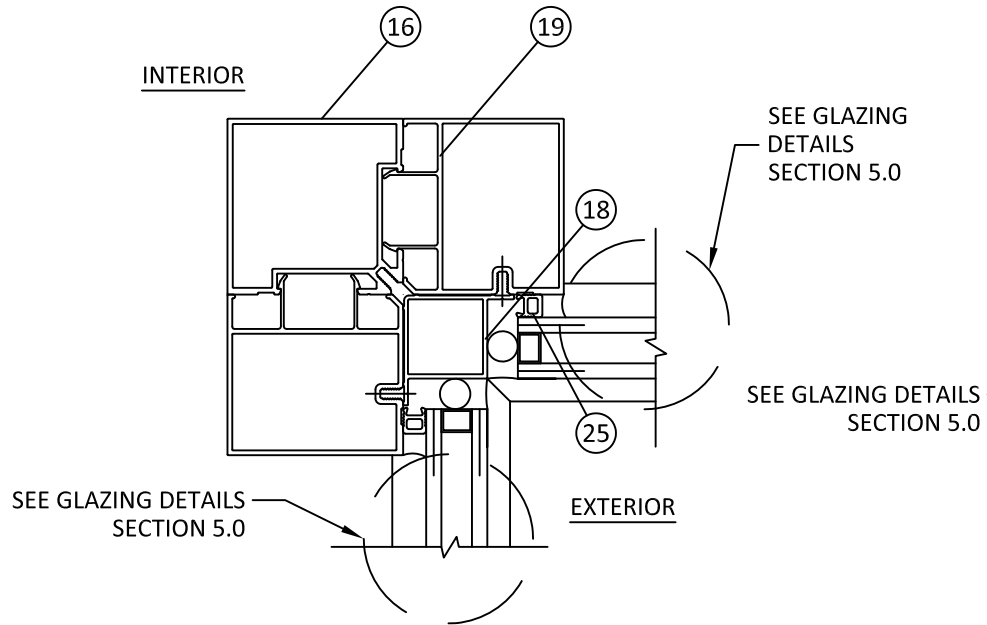
G **HORIZONTAL SECTION**
4.0 JAMB - CONCRETE/MASONRY W/ 1X BUCK
YSG 50



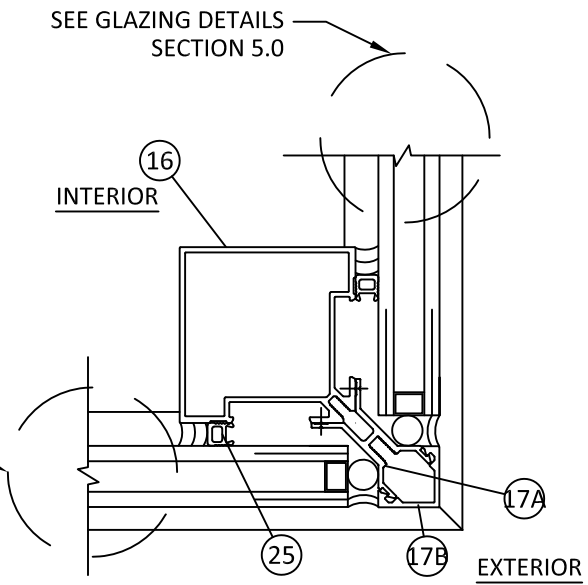
H **HORIZONTAL SECTION**
4.0 VERTICAL MULLION
YSG 50/50T



I **HORIZONTAL SECTION**
4.0 JAMB - METAL STUD
YSG 50T



J **HORIZONTAL SECTION**
4.0 90° INSIDE CORNER
YSG 50/50T



K **HORIZONTAL SECTION**
4.0 90° OUTSIDE CORNER
YSG 50/50T



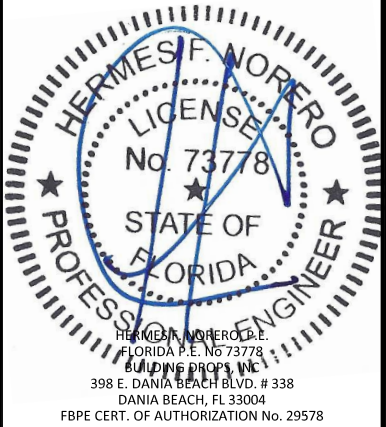
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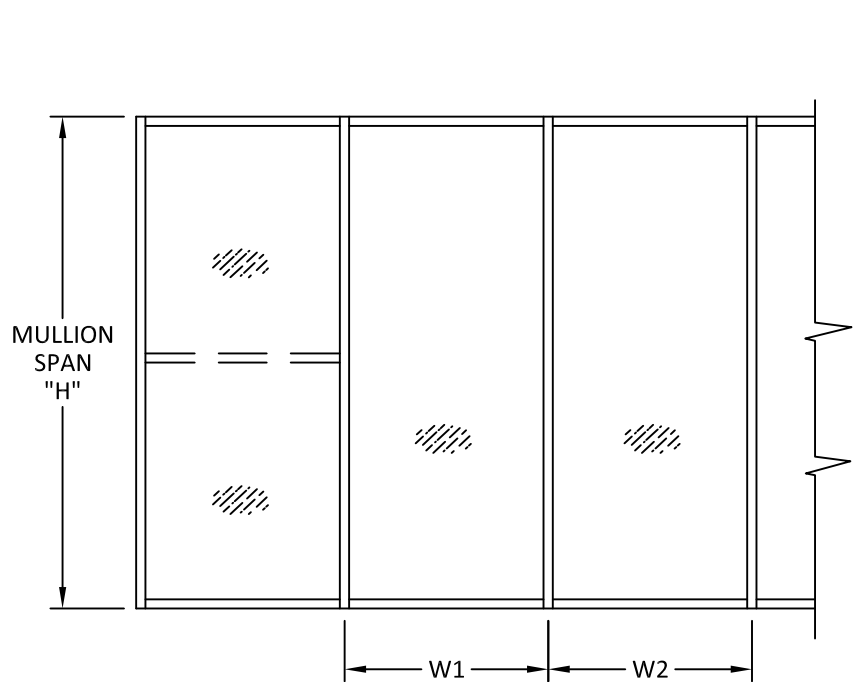
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SCALE: **NTS**

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[PAGE 6 OF 10]

VERTICAL MULLIONS

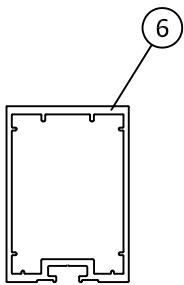


MULLION SPACING OR
TRIBUTARY WIDTH, 'W'

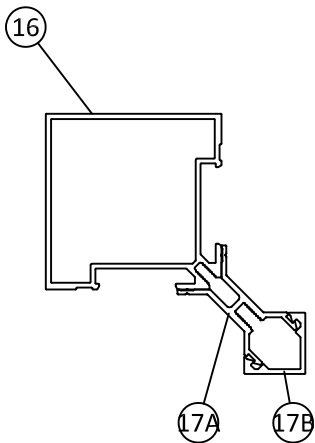
$$W = \frac{W1+W2}{2}$$

NOTES:

- 1. TABULATED DESIGN PRESSURE VALUES ARE BASED ON LIMITATIONS OF DEFLECTION, FIBERSTRESS, END REACTION, AND ANCHOR CAPACITY FOR GIVEN COMBINATIONS OF MULLION SPAN HEIGHT ('H') AND TRIBUTARY WIDTH ('W').
- 2. DESIGN PRESSURES SHALL BE READ AS BOTH POSITIVE AND NEGATIVE PRESSURES.
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"M3"
VERTICAL MULLION TYPICAL
FOR 50/50T



"M4"
90° OUTSIDE CORNER MULLION
FOR 50/50T

VERTICAL MULLION CAPACITY (PSF)			
NOMINAL DIMS. (IN)		MULLION 'M3'	MULLION 'M4'
TRIBUTARY WIDTH (W)	SPAN HEIGHT (H)	"EXT. (+) INT. (-)"	"EXT. (+) INT. (-)"
36	72	33.1	78.8
42		29.5	69.8
48		27.0	63.6
54		25.3	59.2
60		24.2	56.4
36	78	25.7	66.2
42		22.7	58.4
48		20.6	52.8
54		19.2	48.8
36	84	20.3	56.5
42		17.9	49.6
48		16.2	44.6
36	90	16.3	48.8
42		14.3	42.7
48		12.9	38.3
36	96	13.4	42.6
42		11.7	37.2

NOTE:
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PSF BASED ON WATER INFILTRATION.



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

TITLE: YSG 50/50T
WINDOW WALL SYSTEM
(NON-HVHZ) (NON-IMPACT)

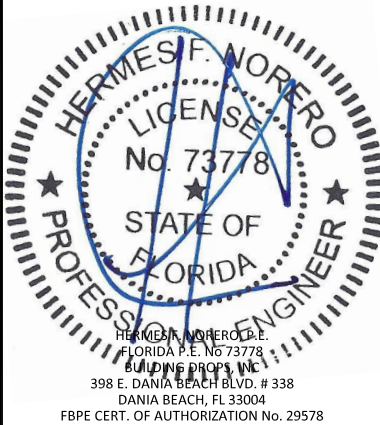
HORIZONTAL SECTION

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. CORNER TRIM UPDATE	MS	JAN./22

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FL9985

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DWG. BY: **ER/MS** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK273**

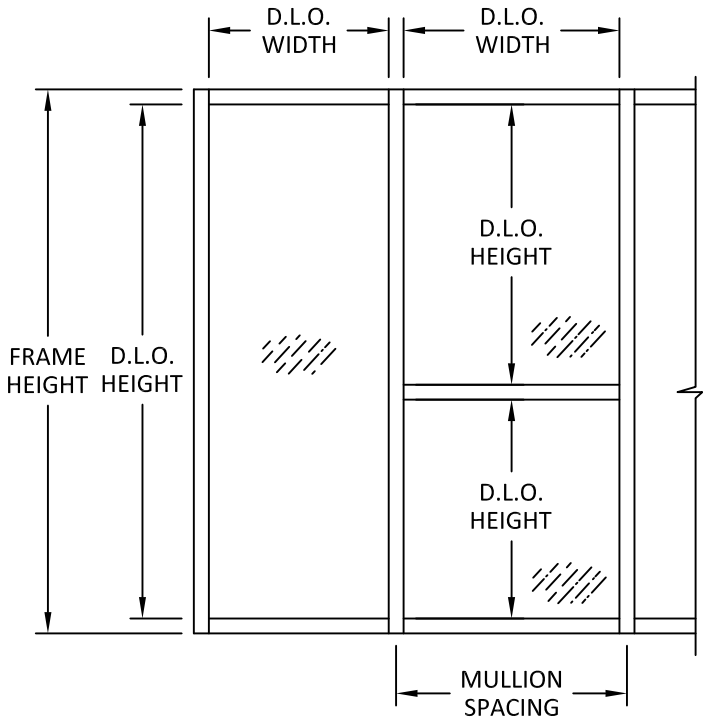
SECTION:

4.1

INSULATING GLASS DETAILS

(NON-IMPACT)

GLASS LOAD CAPACITY		
NOMINAL DIMS. (IN)		PRESSURE (PSF)
D.L.O. WIDTH (W)	D.L.O. HEIGHT (H)	EXT. (+) INT. (-)
34	56	63.2
40		58.2
46		55.2
52		50.2
58		48.3
64		41.6
70	62	35.6
34		60.7
40		55.2
46		51.7
52		49.6
58		45.0
63	68	42.8
34		58.7
40		53.0
46		49.2
52		46.6
58		45.0
34	74	57.2
40		51.3
46		47.2
52		44.4
34	80	55.9
40		49.9
46		45.7



DAYLITE OPENING DIMENSIONS:
DAYLITE OPENING WIDTH:
• MAX. MULLION SPACING - 2"
DAYLITE OPENING HEIGHT:
• FRAME HEIGHT - 4"

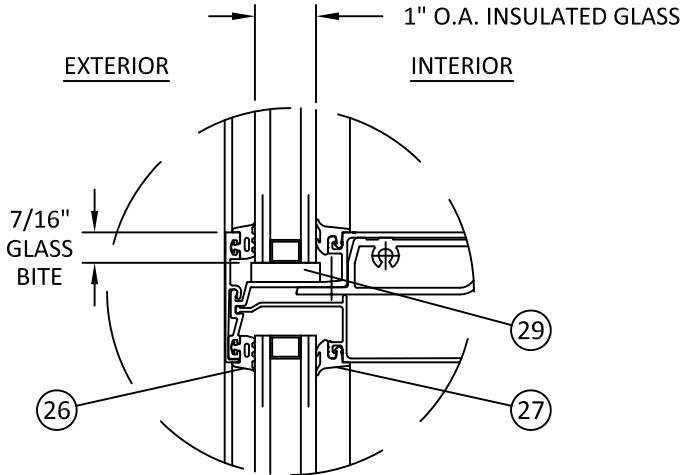
- GLAZING NOTES:
- GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC.
 - GLASS SHALL BE SET WITH THE USE OF SETTING BLOCKS IN ACCORDANCE WITH CHAPTER 24 OF THE CURRENT FLORIDA BUILDING CODE.
 - GLAZING GASKETS SHALL MEET THE MINIMUM PERFORMANCE REQUIREMENTS AS APPLICABLE IN CHAPTER 24 OF THE CURRENT FLORIDA BUILDING CODE.
 - SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
 - SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.

- GLASS COMPOSITION:
- 1/4" TEMPERED GLASS
 - 1/2" AIR SPACE
 - 1/4" TEMPERED GLASS

ALUMINUM BOX SPACER:
AROUND THE PERIMETER OF THE GLASS

PRIMARY SEALANT:
POLYISOBUTYLENE (PIB)

SECONDARY SEALANT:
STRUCTURAL SILICONE INTENDED FOR FABRICATION OF INSULATED GLASS UNITS.



GLAZING DETAIL
AT INTERMEDIATE HORIZONTAL
YSG 50 SHOWN
YSG 50 T SIMILAR



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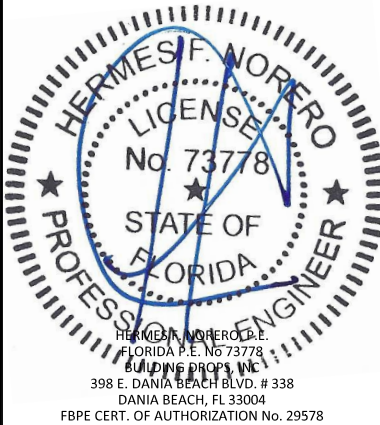
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WINDOW WALL SYSTEM
(NON-HVHZ) (NON-IMPACT)
GLAZING DETAILS &
GLASS LOAD TABLE

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SECTION:

5.0

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BILL OF MATERIALS				
ITEM	PART NO.	DESCRIPTION	MATERIAL	MANUFACTURER
1	BE9-2031	JAMB RECEPTOR	6063-T5	YKK AP AMERICA
2	BE9-2032	HEAD RECEPTOR	6063-T5	YKK AP AMERICA
3	BE9-2033	SILL RECEPTOR	6063-T5	YKK AP AMERICA
4	BE9-2034	HORIZONTAL	6063-T5	YKK AP AMERICA
5	BE9-2036	HORIZONTAL GLASS STOP	6063-T5	YKK AP AMERICA
6	E9-2001	SSG VERTICAL	6063-T5	YKK AP AMERICA
7	E9-2003	SILL RECEPTOR	6063-T5	YKK AP AMERICA
8	E9-2004	GLASS STOP (SILL)	6063-T5	YKK AP AMERICA
9	E9-2052	GLASS STOP (JAMB)	6063-T5	YKK AP AMERICA
10	E9-2055	GLASS STOP (HEAD)	6063-T5	YKK AP AMERICA
11	E9-2061	JAMB	6063-T5	YKK AP AMERICA
12	E9-2063	HEAD RECEPTOR	6063-T5	YKK AP AMERICA
13	E9-2035	HORIZONTAL FACE COVER	6063-T5	YKK AP AMERICA
14	E9-2066	HORIZONTAL	6063-T5	YKK AP AMERICA
15	E9-2068	HORIZONTAL GLASS STOP	6063-T5	YKK AP AMERICA
16	E9-2008	90 DEGREE CORNER MULLION	6063-T5	YKK AP AMERICA
17A	E9-3438	SSG CORNER TRIM BASE	6063-T5	YKK AP AMERICA
17B	E9-3439	SSG CORNER TRIM COVER	6063-T5	YKK AP AMERICA
18	E9-2010	90 DEGREE INSIDE CORNER GLAZING ADAPTOR	6063-T5	YKK AP AMERICA
19	E9-2015	90 DEGREE INSIDE CORNER GLAZING ADAPTOR	6063-T5	YKK AP AMERICA
20	E1-0161	3/8" X 2-1/2" STEEL BAR REINFORCING	STEEL	
21	E1-1003	SETTING BLOCK CHAIR (YSG 50 SILL)	6063-T5	YKK AP AMERICA
22	E1-1021	SHEAR BLOCK	6063-T5	YKK AP AMERICA
23	E2-0114	END DAM (YSG50)	EPDM	
24	E2-0099	WEEP BAFFLE	URETHANE	
25	E2-0106	SSG GLAZING SPACER	SILICONE	
26	E2-0107	EXTERIOR GLAZING GASKET	SILICONE	
27	E2-0108	INTERIOR GLAZING GASKET	SILICONE	
28	E2-0177	SETTING BLOCK (YSG 50 SILL)	EPDM	
29	E2-0178	SETTING BLOCK (YSG 50/50T HORIZONTAL)	EPDM	
30	E2-0180	SETTING BLOCK (YSG 50T SILL)	EPDM	
31	E2-0280	END DAM (YSG 50T - UPPER CHAMBER)	EPDM	
32	E3-0001	SSG TEMPORARY GLASS RETAINER (1")	NYLON	
33	E3-0007	SILL SPLICE SLEEVE (YSG 50)	PVC	
34	E3-0011	HEAD & SILL SPLICE SLEEVE (REAR CHAMBER)	PVC	
35	E3-0016	HEAD SPLICE SLEEVE (YSG 50)	PVC	
36	E3-0017	HEAD & SILL SPLICE SLEEVE (YSG 50 T)	PVC	
37	E2-0233	END DAM (YSG50T - LOWER CHAMBER)	POLYETHYLENE	
38	FB-1008	#10 X 1/2" FHSMS TYPE B	ZINC COATED STEEL	
39	PC-1006	#10 X 3/8" PHSMS TYPE AB	ZINC COATED STEEL	
40	PC-1008	#10 X 1/2" PHSMS TYPE AB	ZINC COATED STEEL	
41	PM-1006	#10 X 3/8" PHMS	ZINC COATED STEEL	
42	PC-1228	#12 X 1-3/4" PHSMS TYPE AB	ZINC COATED STEEL	
43	E9-2057	HORIZONTAL FACE COVER	6063-T5	YKK AP AMERICA



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BILL OF MATERIALS

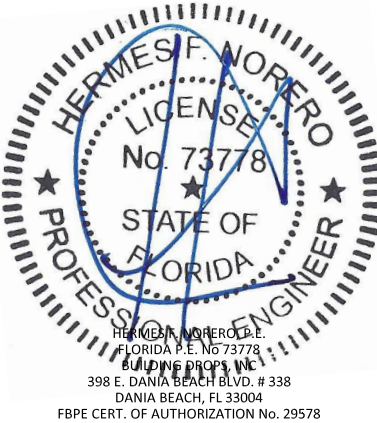
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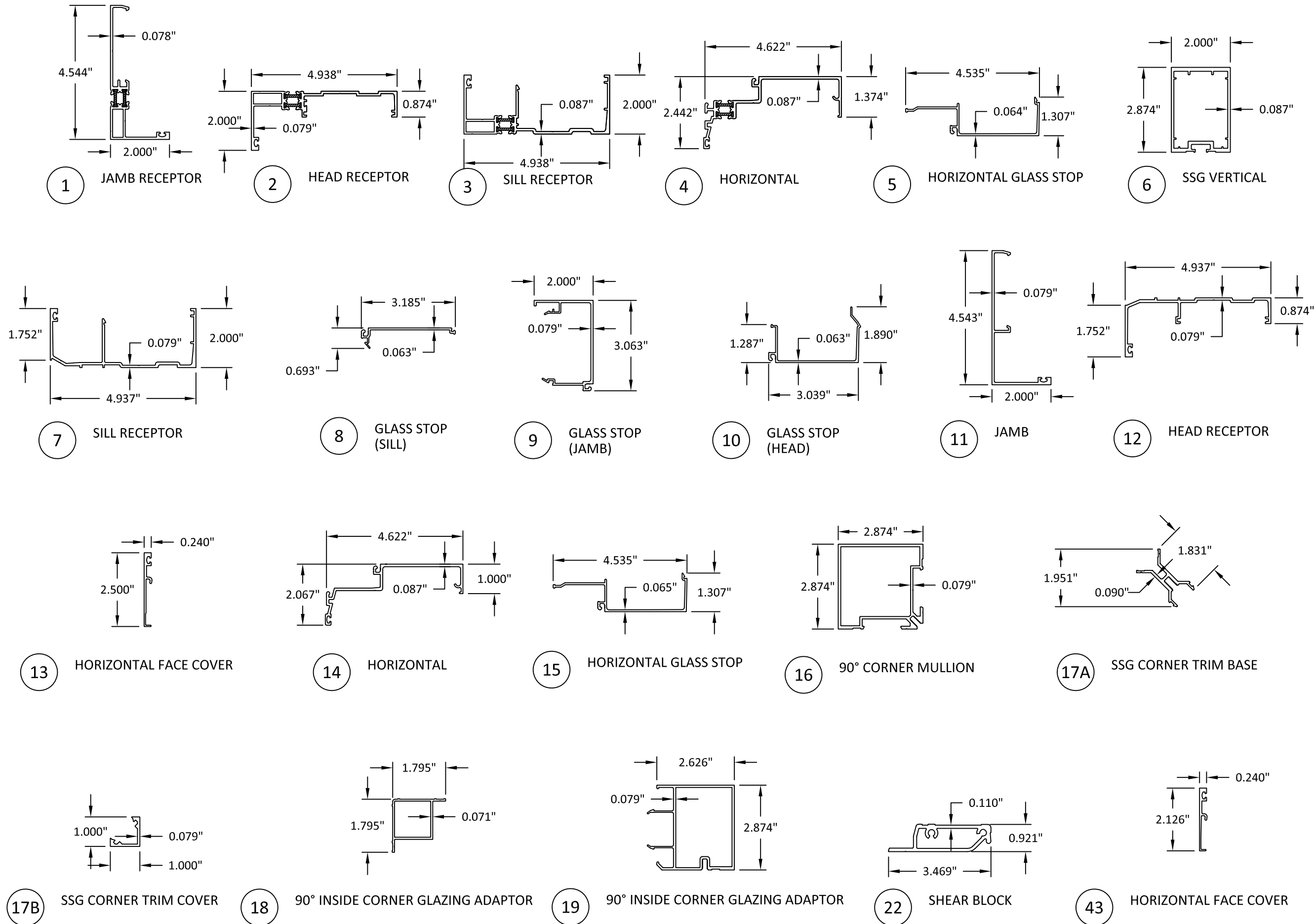
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[PAGE 9 OF 10]	

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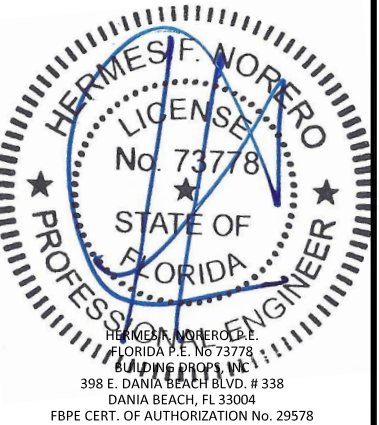
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WINDOW WALL SYSTEM
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COMPONENTS (1)

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SECTION:	6.1