

YKK AP America Inc.

YES 600 STOREFRONT SYSTEM

(NON-HVHZ) (NON-IMPACT)

INSTALLATION NOTES:

- SEE SHEET 2 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.
- 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.
- 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.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - 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.
 - STEEL - MINIMUM YIELD STRENGTH OF 36 KSI. MINIMUM 12 GA. WALL THICKNESS.
 - STEEL - MINIMUM YIELD STRENGTH OF 36 KSI. MINIMUM 18 GA. WALL THICKNESS WITH 2X WOOD BACKING.
 - ALUMINUM - MINIMUM 1/8 INCH THICK 6063-T5 ALUMINUM.

GENERAL NOTES:

- 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 E283-19
 - ASTM E330-14
 - ASTM E331-00(16)
- 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.
- 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.
- 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. SEE SHEET 3 FOR GLAZING DETAIL. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300.
- STOREFRONT FRAME MATERIAL: ALUMINUM 6063-T5
- 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.

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INSTRUCTIONS FOR USE:

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



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
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TITLE: YES 600
ALUMINUM STOREFRONT SYSTEM
(NON-HVHZ) (NON-IMPACT)

INSTALLATION & GENERAL NOTES

PREPARED BY:

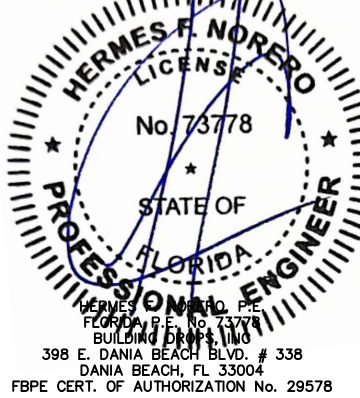
BUILDING DROPS, INC.
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A-VALIDATOR'S COMM.	AR	10.12.17
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Reason: I am approving this document
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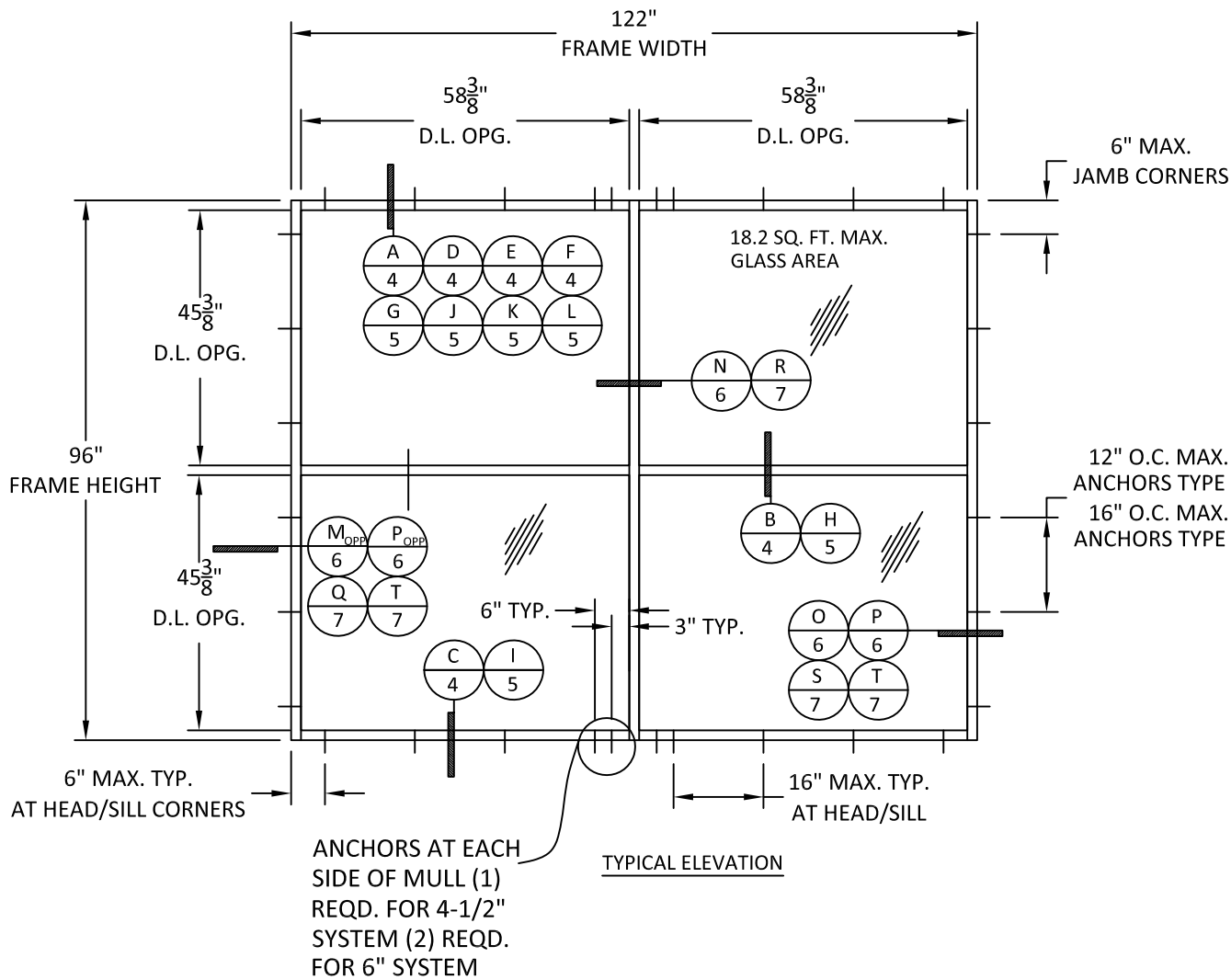
DATE: **08.10.17**

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SCALE: **NTS**

DWG. #: **YKK220**

SHEET:
1
OF 8



ELEVATION
TYPICAL YES 600 STOREFRONT

TYPICAL ANCHORS

(SEE ELEVATIONS FOR SPACING)

TYPE A

#14 WOOD SCREW:

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES (MIN. S.G. = 0.55) 1-1/2" MIN. PENETRATION INTO WOOD

1/4" DIA. TAPCON BY ITW' (Fu= 120 KSI, Fy= 92 KSI)

THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY
DIRECTLY INTO CONC. OR MASONRY
1-3/4" MIN. EMBED INTO CONC. OR MASONRY

TYPE B

1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)

INTO FBC APPROVED MULLIONS (MIN. THK = .090")
(NO SHIM SPACE)
INTO METAL STRUCTURES
STEEL : 18 GA.(.048) MIN. (Fy = 33 KSI MIN.)
ALUMINUM : 1/8: THK. MIN. (6063-T5 MIN.)
STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 3/4" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMB f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

SEALANTS:

ALL FRAME CORNERS SEALED WITH JOINT SEALANT



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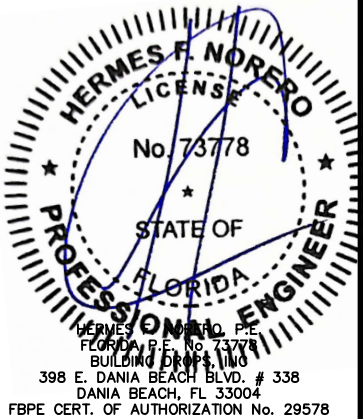
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ELEVATION

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2

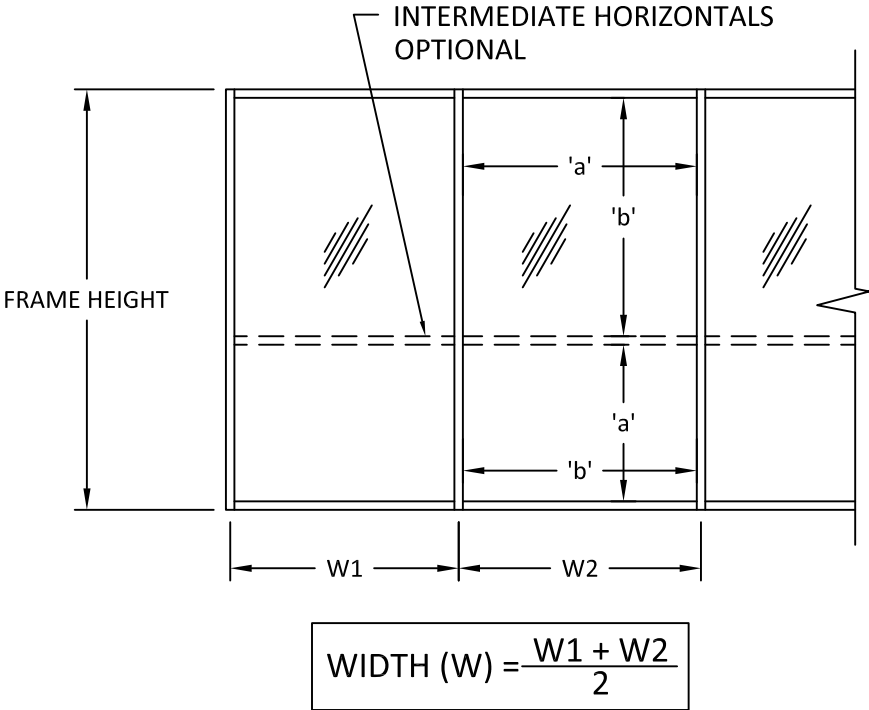
OF 8

MULLION LOAD TABLE

DESIGN LOAD CAPACITY (PSF)			
FRAME DIMENSIONS		4 1/2" SYSTEM	6" SYSTEM
WIDTH, 'W' (IN.)	HEIGHT, 'H' (IN.)	(+/- PSF)	(+/- PSF)
24	66	64.4	100.0
30		51.5	100.0
36		42.9	84.8
42		36.8	72.7
48		32.2	63.6
54		28.6	56.6
60		25.8	50.9
66	72	23.4	46.3
72		21.5	42.4
24		54.1	100.0
30		43.3	88.4
36		36.1	73.6
42		30.9	63.1
48		27.1	55.2
54		24.0	49.1
60		21.6	44.2
66	78	19.7	40.2
72		18.0	36.8
24		46.1	94.1
30		36.9	75.3
36		30.7	62.7
42		26.3	53.8
48		23.1	47.1
54		20.5	41.8
60		18.4	37.6
66	84	16.8	34.2
72		15.4	31.4
24		39.8	81.2
30		31.8	64.9
36		26.5	54.1
42		22.7	46.4
48		19.9	40.6
54		17.7	36.1
60		15.9	32.5
66	90	-	29.5
24		34.6	70.7
30		27.7	56.6
36		23.1	47.1
42		19.8	40.4
48		17.3	35.3
54		15.4	31.4
60		-	28.3
24	96	30.4	62.1
30		24.3	49.7
36		20.3	41.4
42		17.4	35.5
48		15.2	31.1
54		-	27.6
60		-	24.9

DESIGN LOAD CAPACITY (PSF)			
FRAME DIMENSIONS		4 1/2" SYSTEM	6" SYSTEM
WIDTH, 'W' (IN.)	HEIGHT, 'H' (IN.)	(+/- PSF)	(+/- PSF)
24	102	27.0	55.0
30		21.6	44.0
36		18.0	36.7
42		15.4	31.4
48	108	-	27.5
54		-	24.5
24		23.5	49.1
30		18.8	39.3
36		15.6	32.7
42	114	-	28.1
48		-	24.5
24		20.0	44.1
30		16.0	35.2
36	120	-	29.4
42		-	25.2
48		-	22.0
24		17.1	39.8
30	120	-	31.8
36		-	26.5
42		-	22.7
48		-	19.9

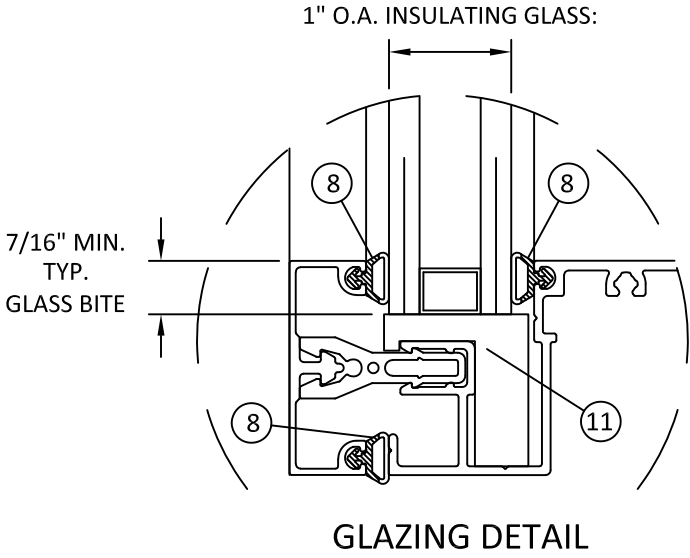
NOTE: TABLE ABOVE IS BASED ON VERTICAL MULLION DESIGN LOAD CAPACITIES AND HAS BEEN DETERMINED IN ACCORDANCE WITH CHAPTER 17 OF THE FBC FOR SIZES OTHER THAN TESTED AND FOR MINIMUM REQUIREMENTS OF MULLIONS.



DRY GLAZED GLASS TYPES
NON-IMPACT GLAZING

GLASS DESIGN LOAD CAPACITY			
NOMINAL DIMS.		(PSF)	
DLO 'a' (in.)	DLO 'b' (in.)	EXT. (+)	INT. (-)
24	48	43.8	43.8
30		38.2	38.2
36		35.0	35.0
42		33.3	33.3
48	54	32.8	32.8
54		26.3	26.3
60		21.9	21.9
24		42.2	42.2
30	60	36.3	36.3
36		32.8	32.8
42		30.7	30.7
48		29.5	29.5
51	66	29.3	29.3
24		41.0	41.0
30		35.0	35.0
36		31.3	31.3
39	72	29.9	29.9
42		28.8	28.8
48		27.3	27.3
24		40.1	40.1
30	78	34.0	34.0
36		30.1	30.1
39		28.7	28.7
42		27.5	27.5

GLASS DESIGN LOAD CAPACITY			
NOMINAL DIMS.		(PSF)	
DLO 'a' (in.)	DLO 'b' (in.)	EXT. (+)	INT. (-)
24	72	39.4	39.4
30		33.2	33.2
36		29.2	29.2
39		27.7	27.7
24	78	38.8	38.8
30		32.5	32.5
36		28.4	28.4
24		38.3	38.3
30	84	32.0	32.0
33		29.7	29.7
24		37.9	37.9
30		31.5	31.5
24	90	37.6	37.6
30		31.2	31.2
24		37.2	37.2
24		36.9	36.9
24	102	36.8	36.8
24		36.5	36.5



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



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MULLION & GLASS
LOAD CAPACITY TABLES

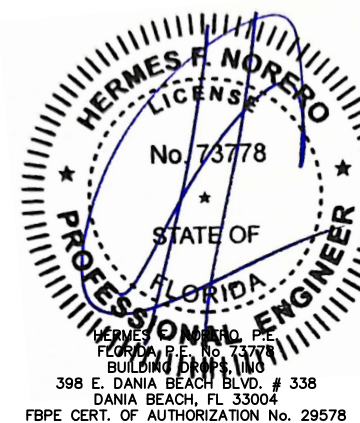
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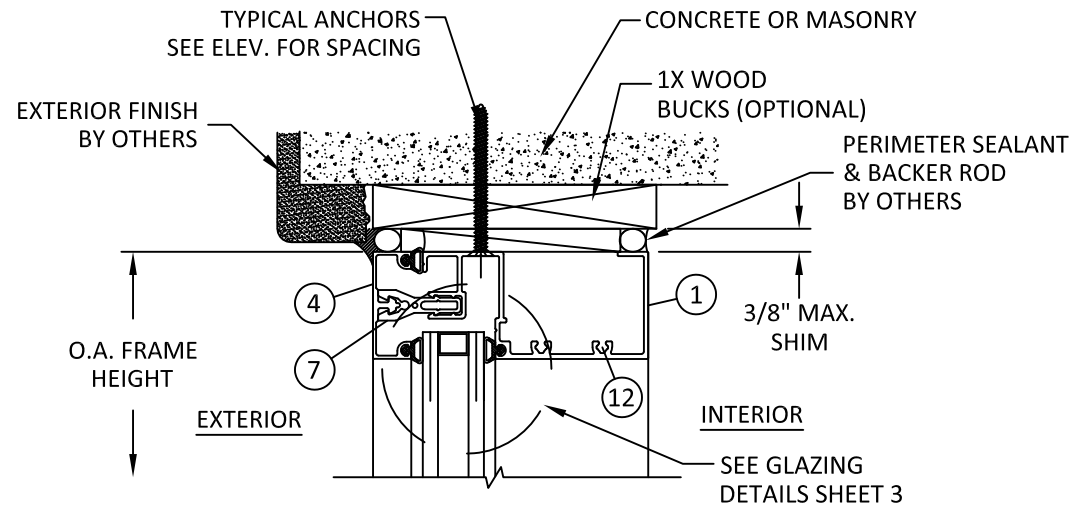
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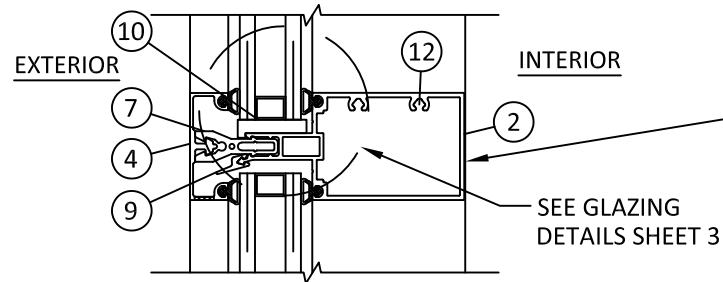
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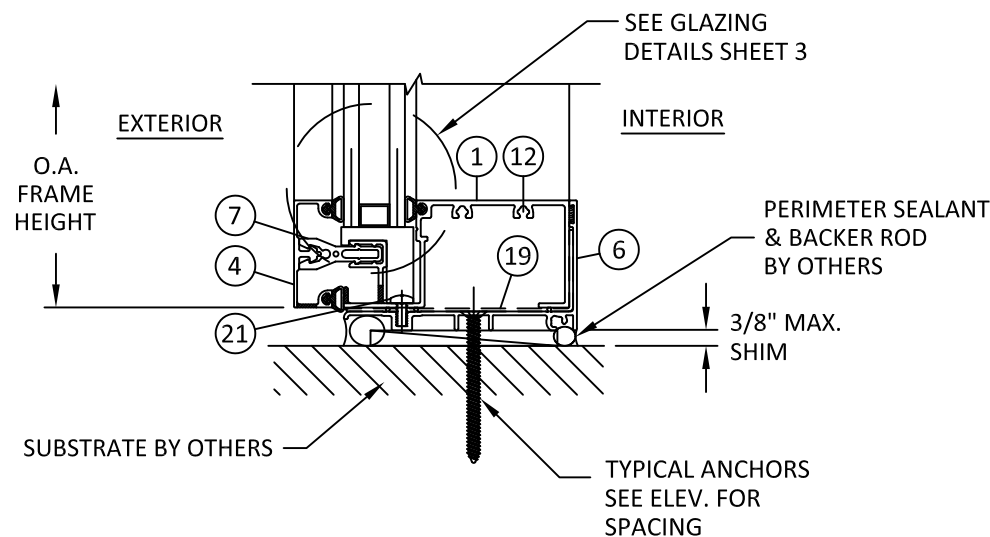
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A
4 **VERTICAL SECTION**
HEAD - CONCRETE/MASONRY W/ 1X BUCK



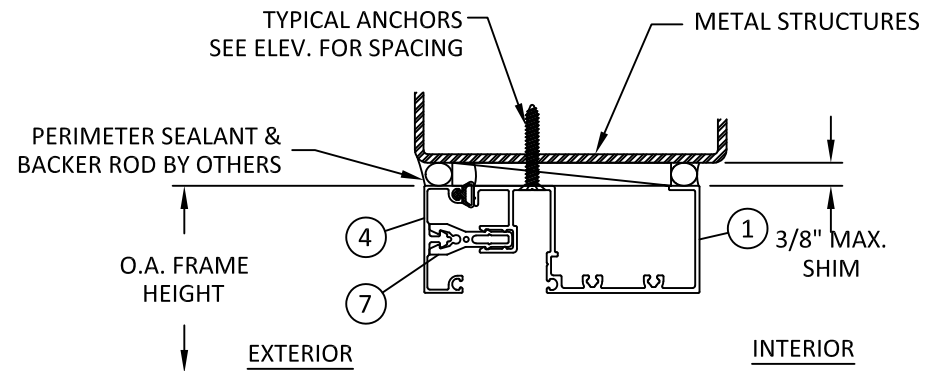
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HORIZONTAL MEMBER



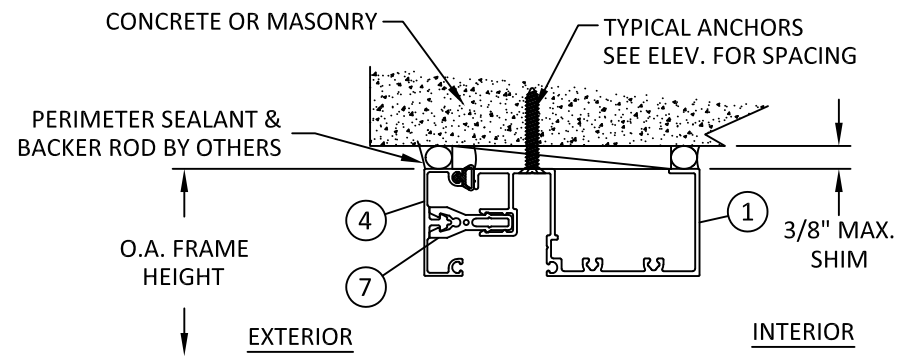
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4 **VERTICAL SECTION**
SILL - INSIDE GLAZED

DESIGN LOAD CAPACITY OF HORIZONTAL		
FRAME DIMENSIONS		4 1/2" SYSTEM
SPAN 'W' (IN.)	MAX. GLASS HEIGHT ABOVE (IN.)	(+/- PSF)
48	84	50
54	48	40
60	48	28
66	42	21
69	36	17

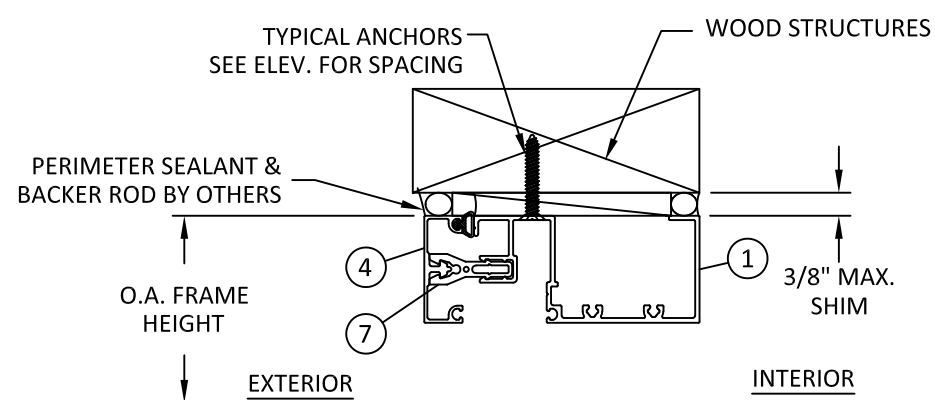
4-1/2" DEEP SYSTEM



D
4 **VERTICAL SECTION**
HEAD - METAL SUBSTRATE



E
4 **VERTICAL SECTION**
HEAD - CONCRETE/MASONRY



F
4 **VERTICAL SECTION**
HEAD - WOOD FRAMING



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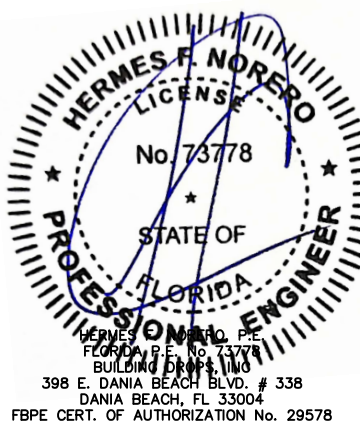
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VERTICAL SECTIONS

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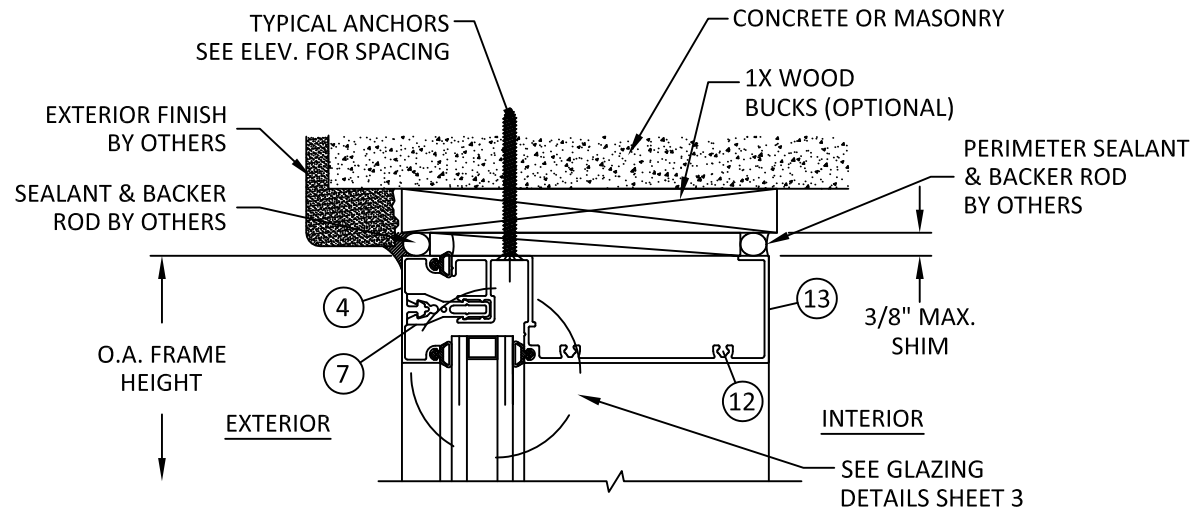
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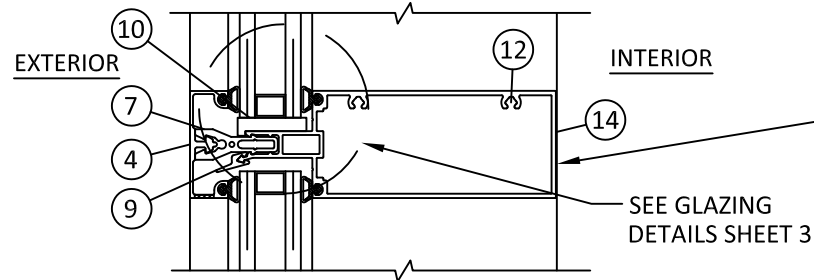
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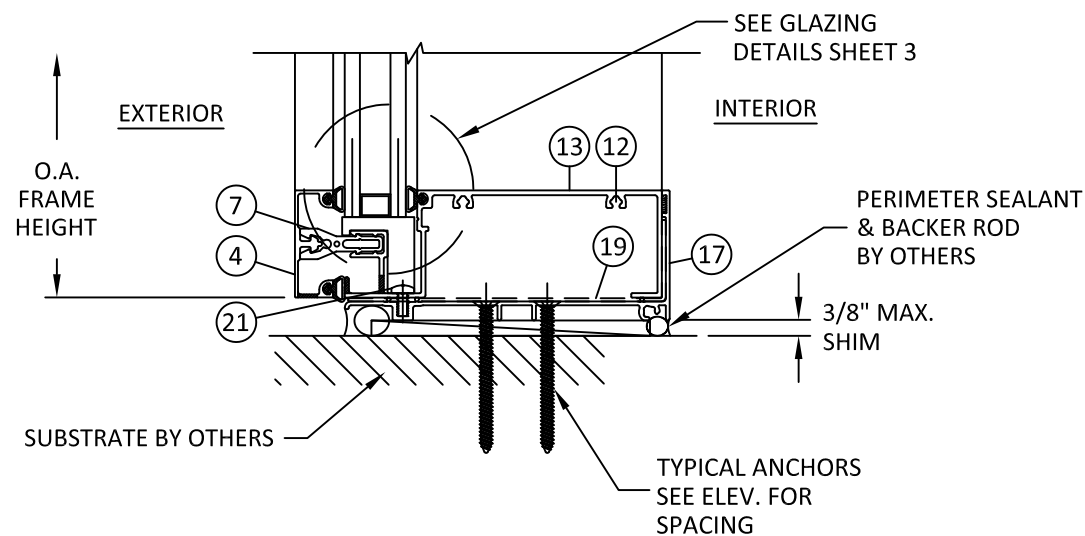
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G
5 VERTICAL SECTION
HEAD - CONCRETE/MASONRY W/ 1X BUCK



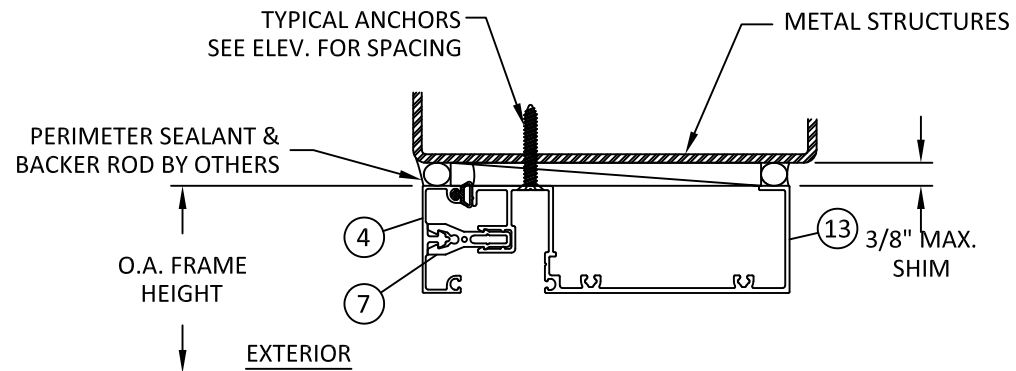
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HORIZONTAL MEMBER



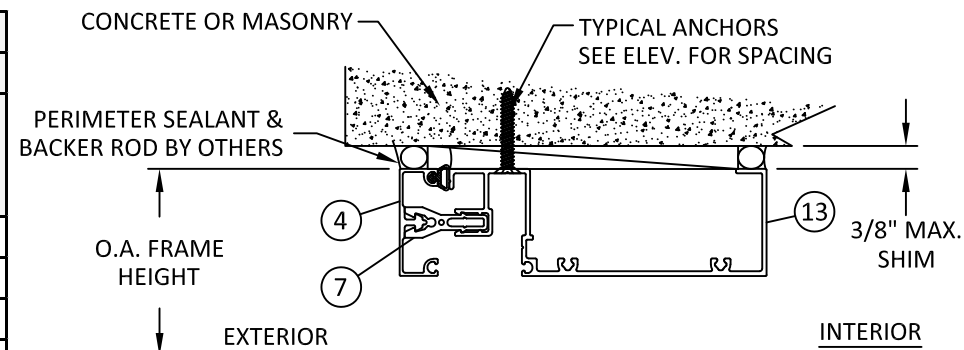
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5 VERTICAL SECTION
SILL - INSIDE GLAZED

DESIGN LOAD CAPACITY OF HORIZONTAL		
FRAME DIMENSIONS		6" SYSTEM
SPAN 'W' (IN.)	MAX. GLASS HEIGHT ABOVE (IN.)	(+/- PSF)
54	84	68
60	48	58
66	42	43
72	36	33

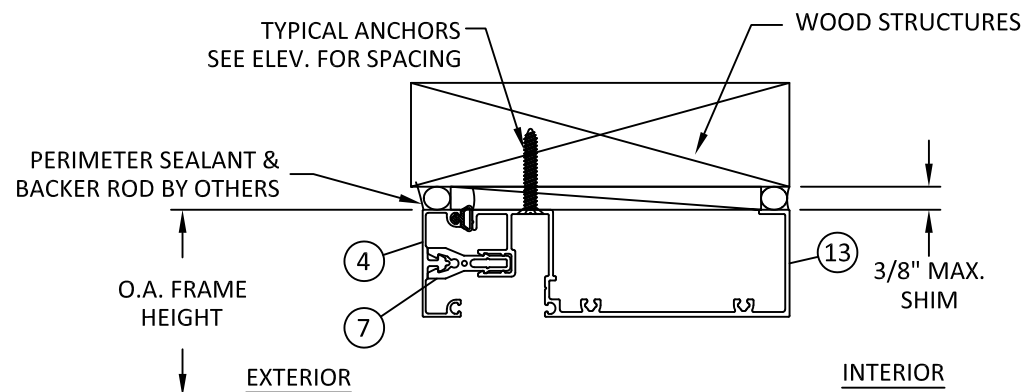
6" DEEP SYSTEM



J
5 VERTICAL SECTION
HEAD - METAL SUBSTRATE



K
5 VERTICAL SECTION
HEAD - CONCRETE/MASONRY



L
5 VERTICAL SECTION
HEAD - WOOD FRAMING



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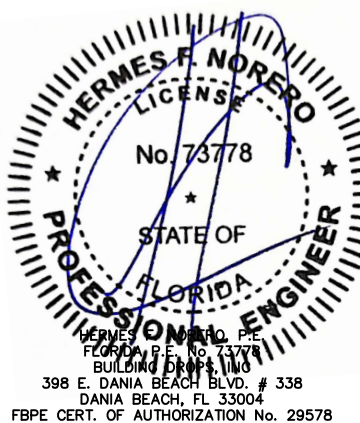
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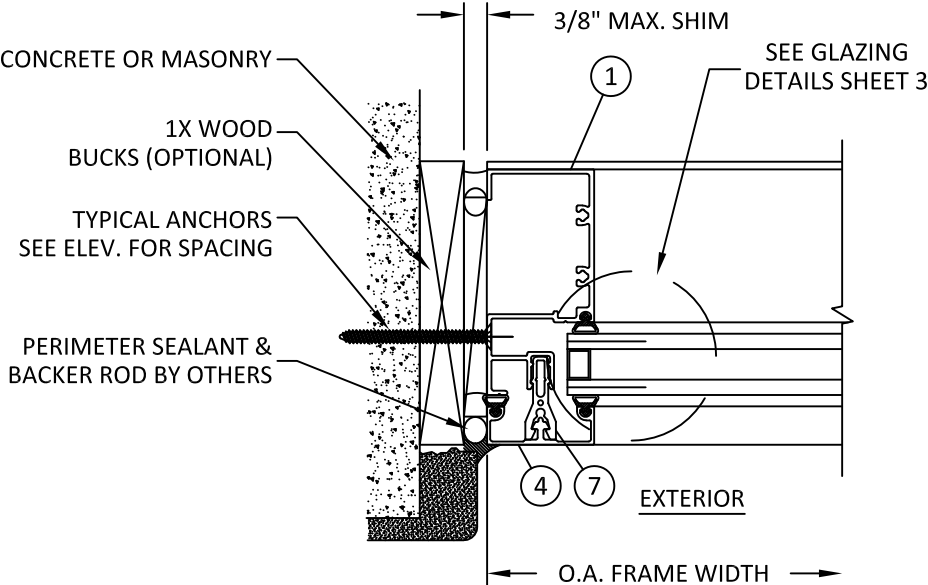
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



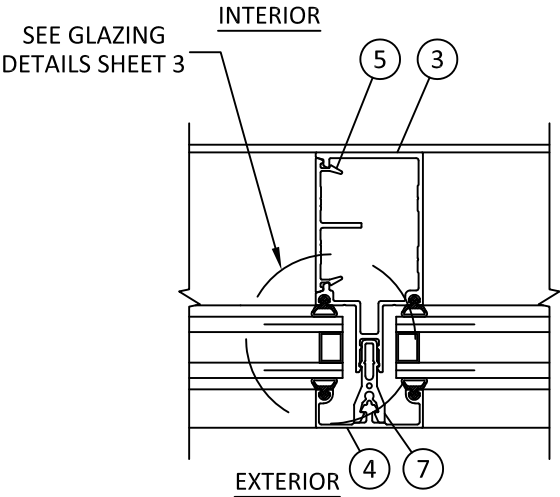
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DATE:	08.10.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK220
SHEET:	5

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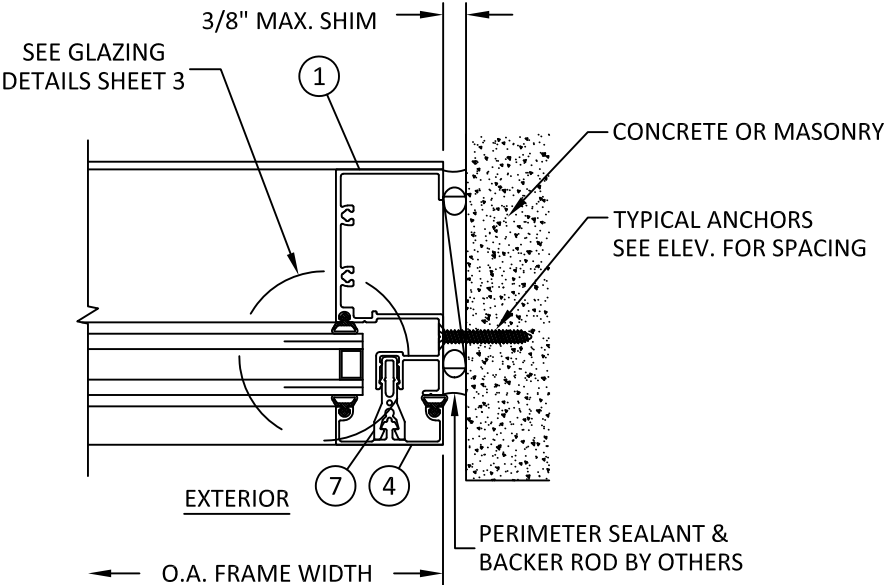
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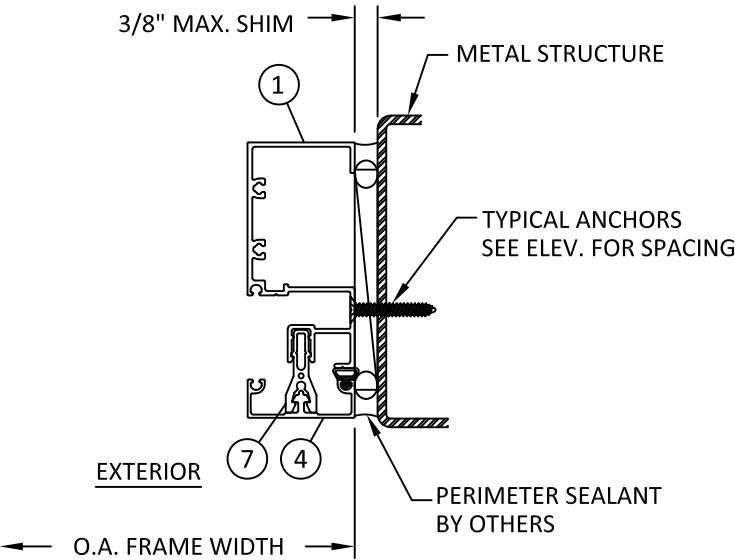
M6 HORIZONTAL SECTION
JAMB - CONCRETE/MASONRY W/ 1X BUCK
INSIDE/OUTSIDE GLAZED



N6 HORIZONTAL SECTION
VERTICAL MULLION
INSIDE/OUTSIDE GLAZED



O6 HORIZONTAL SECTION
JAMB - CONCRETE/MASONRY
INSIDE/OUTSIDE GLAZED



P6 HORIZONTAL SECTION
JAMB - METAL STRUCTURE
INSIDE/OUTSIDE GLAZED

4-1/2" DEEP SYSTEM



YKK AP AMERICA

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

TITLE: YES 600
ALUMINUM STOREFRONT SYSTEM
(NON-HVHZ) (NON-IMPACT)

HORIZONTAL SECTIONS

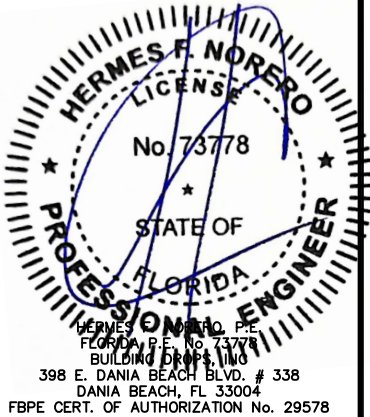
PREPARED BY: BUILDING DROPS, INC.



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
A-VALIDATOR'S COMM.	AR	10.12.17
B-2023 FBC CODE UPDATE	MS	04.21.23

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DATE: **08.10.17**

DWG. BY: **RV** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK220**

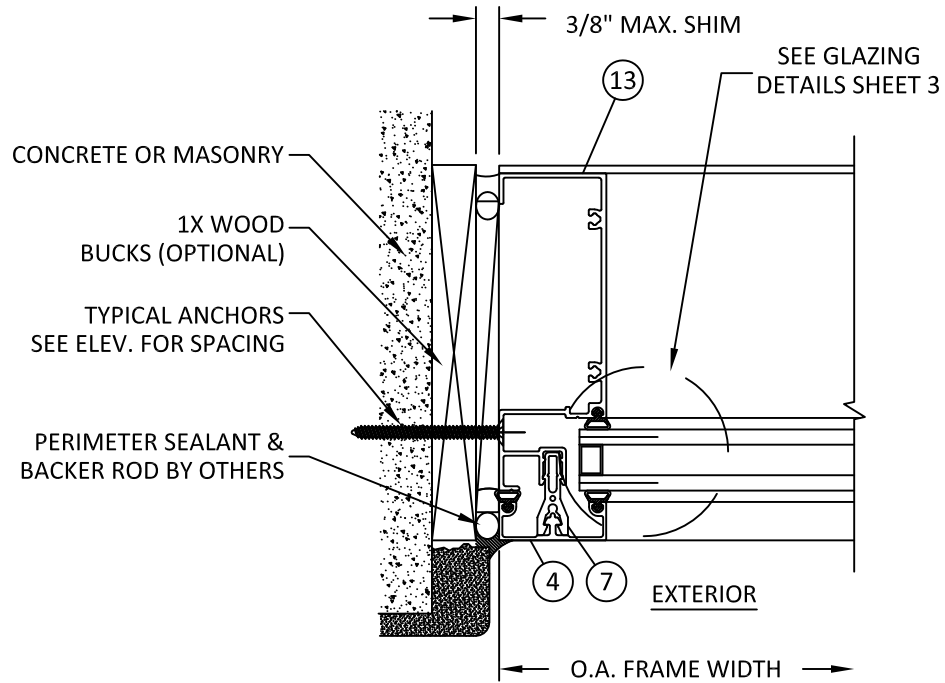
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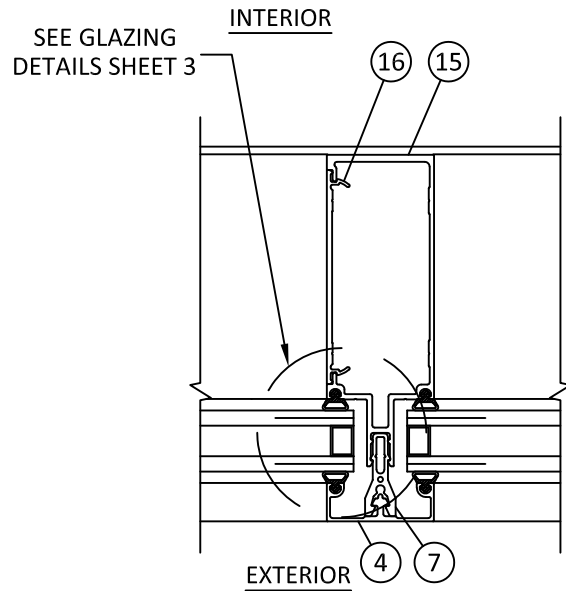
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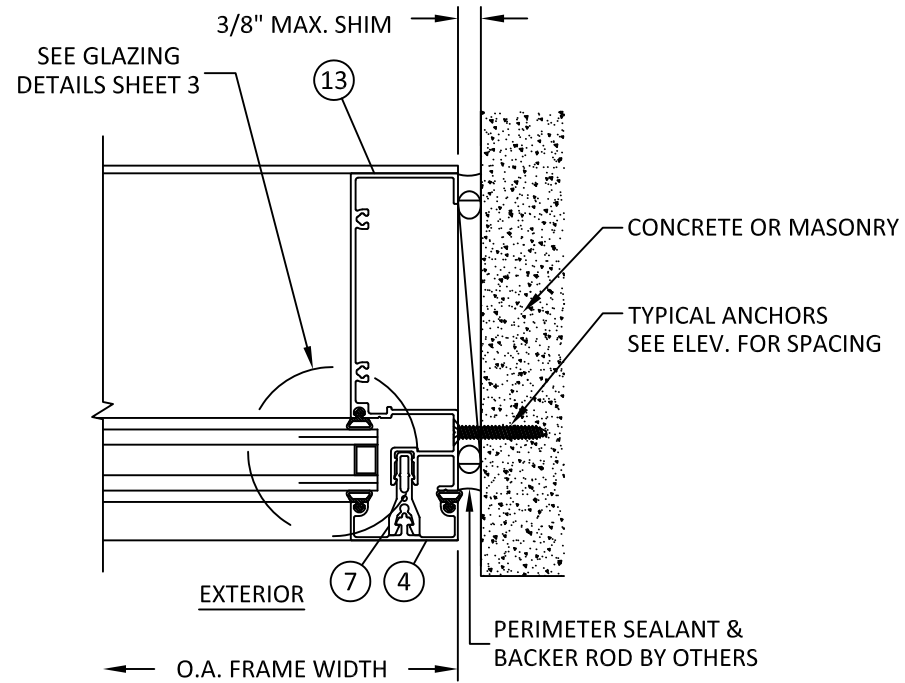
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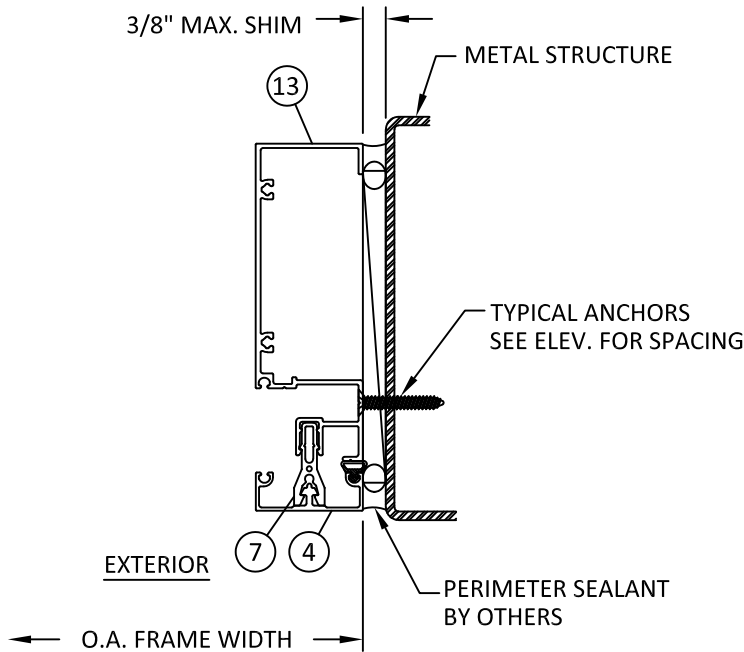
Q
7 **HORIZONTAL SECTION**
JAMB - CONCRETE/MASONRY W/ 1X BUCK
INSIDE/OUTSIDE GLAZED



R
7 **HORIZONTAL SECTION**
VERTICAL MULLION
INSIDE/OUTSIDE GLAZED



S
7 **HORIZONTAL SECTION**
JAMB - CONCRETE/MASONRY
INSIDE/OUTSIDE GLAZED



T
7 **HORIZONTAL SECTION**
JAMB - METAL STRUCTURE
INSIDE/OUTSIDE GLAZED

6" DEEP SYSTEM



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

TITLE: YES 600
ALUMINUM STOREFRONT SYSTEM
(NON-HVHZ) (NON-IMPACT)

HORIZONTAL SECTIONS

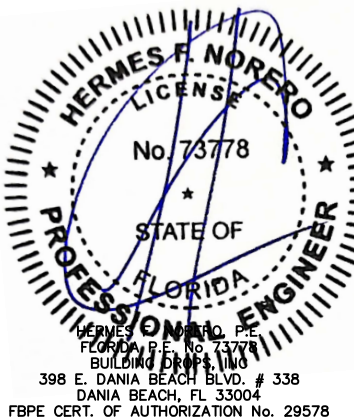
PREPARED BY:
BUILDING DROPS, INC.

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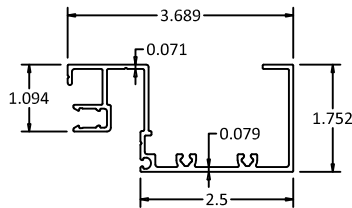


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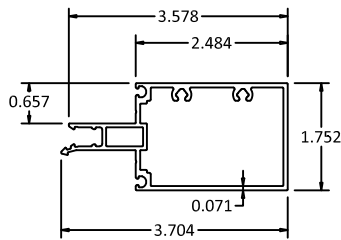
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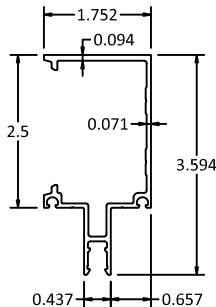
FL #:	FL12926
DATE:	08.10.17
DWG. BY:	RV
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DWG. #:	YKK220
SHEET:	7



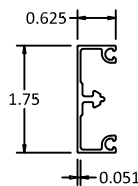
1 HEAD/SILL/JAMB
(4-1/2" DEEP SYSTEM)



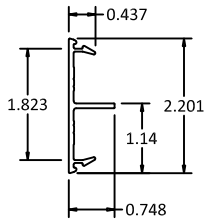
2 HORIZONTAL
(4-1/2" DEEP SYSTEM)



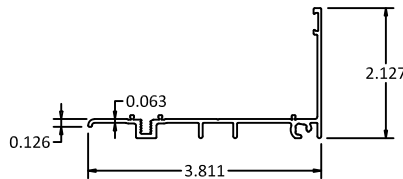
3 MULLION
(4-1/2" DEEP SYSTEM)



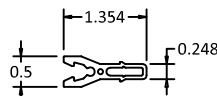
4 FACE COVER



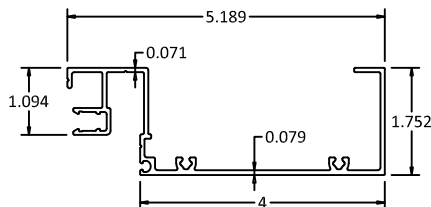
5 FLAT FILLER
(4-1/2" DEEP SYSTEM)



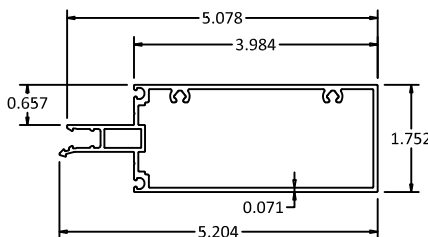
6 SILL FLASHING
(4-1/2" DEEP SYSTEM)



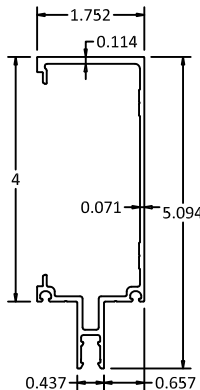
7 GLAZING CLIP



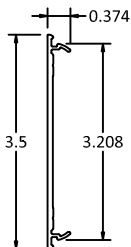
13 HEAD/SILL/JAMB
(6" DEEP SYSTEM)



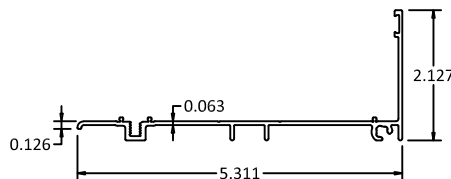
14 HORIZONTAL
(6" DEEP SYSTEM)



15 TWO PIECE VERTICAL
(6" DEEP SYSTEM)



16 FLAT FILLER
(6" DEEP SYSTEM)



17 SILL FLASHING
(6" DEEP SYSTEM)

BILL OF MATERIALS

ITEM	PART No.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E9-1821	HEAD/SILL/JAMB (4-1/2" DEEP SYSTEM)	6063-T5	YKK AP AMERICA
2	E9-1801	HORIZONTAL (4-1/2" DEEP SYSTEM)	6063-T5	YKK AP AMERICA
3	E9-1804	MULLION (4-1/2" DEEP SYSTEM)	6063-T5	YKK AP AMERICA
4	E9-1851	FACE COVER	6063-T5	YKK AP AMERICA
5	E9-1805	FLAT FILLER (4-1/2" DEEP SYSTEM)	6063-T5	YKK AP AMERICA
6	E9-1868	SILL FLASHING (4-1/2" DEEP SYSTEM)	6063-T5	YKK AP AMERICA
7	E3-0015	GLAZING CLIP (AT 3" FROM ENDS & 12" O.C.)	6063-T5	-
8	E2-0213	GLAZING GASKET	EPDM	-
9	E2-0254	WATER DEFLECTOR	EPDM	-
10	E2-0202	SETTING BLOCK	EPDM	-
11	E2-0253	SETTING BLOCK	EPDM	-
12	PC-1016	ASSEMBLY SCREWS (#10 X 1" PPH SMS)	CRS	-
13	E9-1822	HEAD/SILL/JAMB (6" DEEP SYSTEM)	6063-T5	YKK AP AMERICA
14	E9-1811	HORIZONTAL (6" DEEP SYSTEM)	6063-T5	YKK AP AMERICA
15	E9-1814	TWO PIECE VERTICAL (6" DEEP SYSTEM)	6063-T5	YKK AP AMERICA
16	E9-1038	FLAT FILLER (6" DEEP SYSTEM)	6063-T5	YKK AP AMERICA
17	E9-1869	SILL FLASHING (6" DEEP SYSTEM)	6063-T5	YKK AP AMERICA
18	E1-0141	FLASHING END DAM (4-1/2" DEEP SYSTEM)	6063-T5	YKK AP AMERICA
19	E2-0070	SPLICE SLEEVE	SILICONE	-
20	E1-0142	FLASHING END DAM (6" DEEP SYSTEM)	6063-T5	YKK AP AMERICA
21	PM-1006-SS	#10-24 X 3/8" PHMS	STAINLESS STEEL	-



YKK AP AMERICA

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TITLE: YES 600
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(NON-HVHZ) (NON-IMPACT)

COMPONENTS & BILL OF MATERIALS

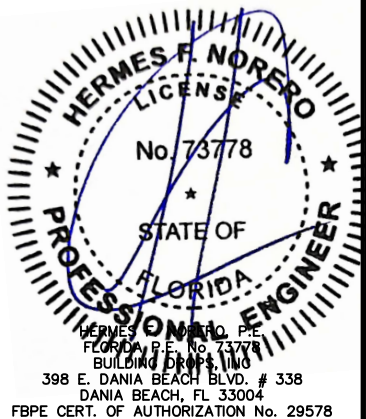
PREPARED BY:
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DANIA BEACH, FL 33004
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SHEET:	8