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YKK AP America Inc.

YES 45 FS ALUMINUM STOREFRONT SYSTEM

(HVHZ) (NON-IMPACT)

INSTALLATION NOTES:

- SEE SHEET 9 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 $\pm 1/2$ 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), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA 501-15
 - ASTM E283-19
 - ASTM E330-14
 - ASTM E331-00(16)
 - 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.
- 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 SHEETS 3 & 4 FOR GLAZING DETAILS. GLASS MEETS 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.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	INSTALLATION & GENERAL NOTES
2	ELEVATION & ANCHOR LAYOUT
3	GLASS LOAD TABLE & GLAZING DETAILS
4	GLASS LOAD TABLE & GLAZING DETAILS
5	MULLION LOAD TABLE
6	DOOR MULLION LOAD TABLE
7	DOOR MULLION LOAD TABLE
8	DOOR MULLION LOAD TABLE
9	ANCHOR LAYOUT
10	ANCHOR LOAD TABLE
11	VERTICAL SECTIONS
12	HORIZONTAL SECTIONS
13	HORIZONTAL SECTIONS
14	COMPONENTS & BILL OF MATERIALS

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 & 4 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 5, 6, 7, & 8, THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- USING CHART ON SHEET 9 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- THE LOWEST VALUE RESULTING FROM STEP 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.



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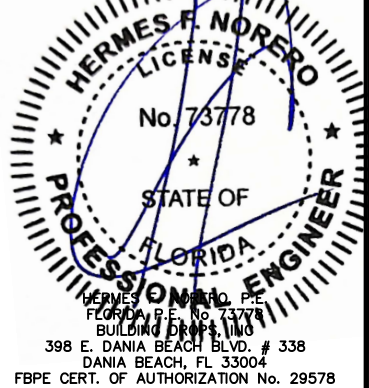
TITLE:
YES 45 FS
ALUMINUM STOREFRONT SYSTEM
(HVHZ) (NON-IMPACT)
INSTALLATION & GENERAL NOTES

PREPARED BY:
BUILDING DROPS, INC.
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REMARKS	BY	DATE
A-VALIDATOR'S COMM.	AR	10.12.17
B-2023 FBC CODE UPDATE	MS	04.21.23

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2023.08.03 15:21:46 -0400



FL #:
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DATE: **08.10.17**

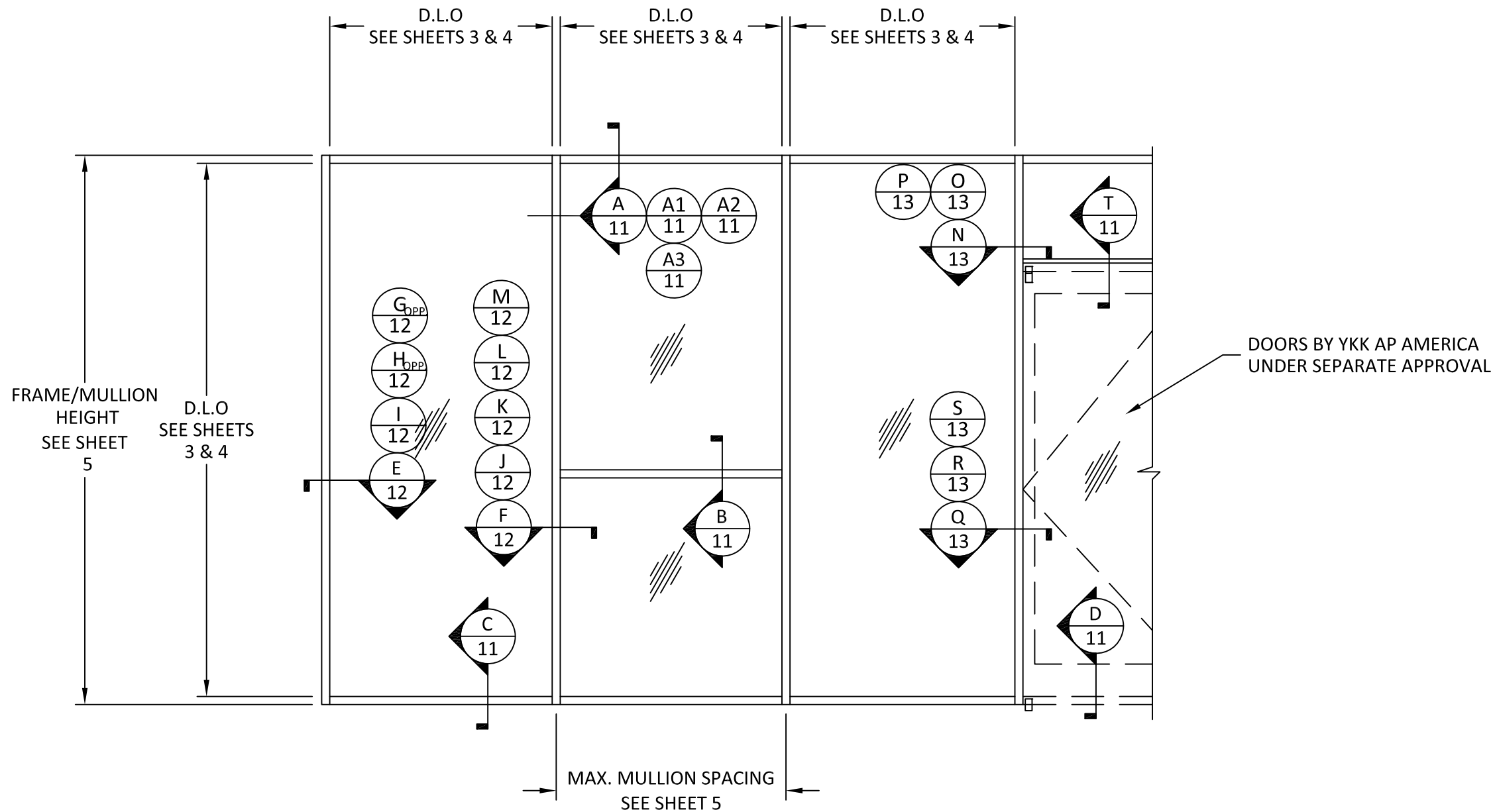
DWG. BY: **RV** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK217**

SHEET:
1

OF 14



ELEVATION
TYPICAL YES 45 FS STOREFRONT

MONOLITHIC GLASS
NON-IMPACT



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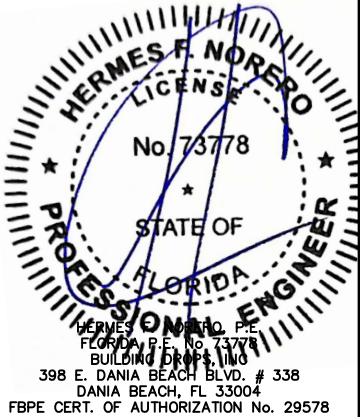
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ALUMINUM STOREFRONT SYSTEM
(HVHZ) (NON-IMPACT)
ELEVATION

PREPARED BY:
BUILDING DROPS, INC.
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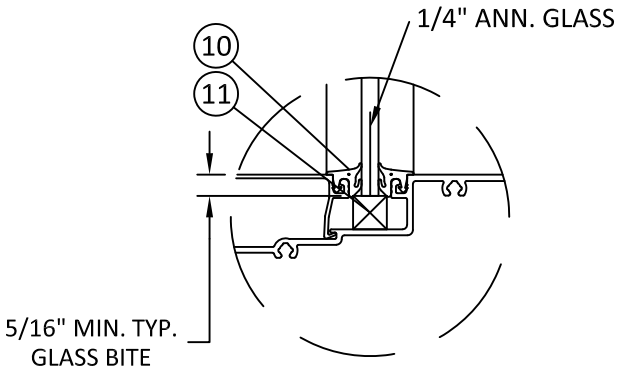


FL #:	
FL12926	
DATE: 08.10.17	
DWG. BY: RV	CHK. BY: HFN
SCALE: NTS	
DWG. #: YKK217	
SHEET:	
2	
OF 14	

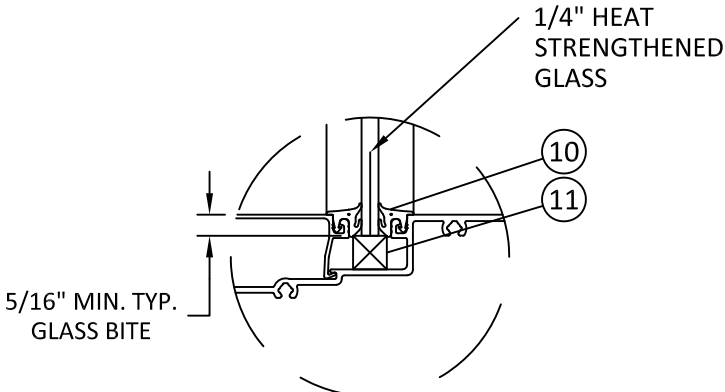
GLASS LOAD TABLE

GLASS LOAD CAPACITY (PSF)		
NOMINAL DIMS. (in)		1/4" ANNEALED
DLO WIDTH	DLO HEIGHT	EXT. (+) INT. (-)
18	30	120.0
21		120.0
24		120.0
27		120.0
30		120.0
33		120.0
36		109.0
39		100.0
42		93.2
45		85.9
48		80.5
51		76.1
18	33	120.0
21		120.0
24		120.0
27		120.0
30		120.0
33		110.0
36		101.0
39		94.0
42		86.9
45		81.2
48		76.6
18	36	120.0
21		120.0
24		120.0
27		119.0
30		109.0
33		101.0
36		95.6
39		88.5
42		82.1
45		78.2
18	39	120.0
21		120.0
24		120.0
27		108.0
30		100.0
33		94.0
36		88.5
39		84.0
42		79.3
45		73.9
18	42	120.0
21		120.0
24		110.0
27		100.0
30		93.2
33		86.9
36		82.1
39		79.3
42		75.5
45		71.5

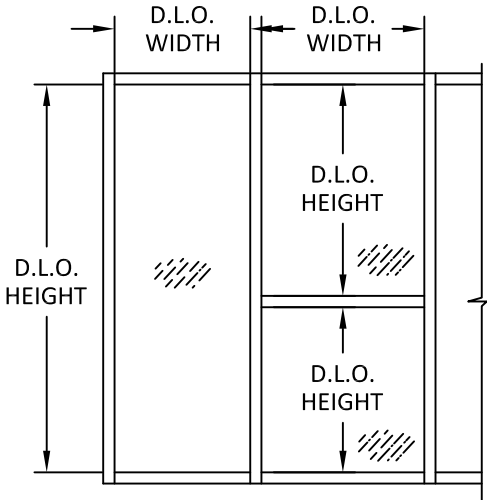
GLASS LOAD CAPACITY (PSF)		
NOMINAL DIMS. (in)		1/4" ANNEALED
DLO WIDTH	DLO HEIGHT	EXT. (+) INT. (-)
18	45	120.0
21		120.0
24		104.0
27		93.5
30		85.9
33		81.2
36		78.2
39		72.0
42		67.1
45		62.6
18	48	120.0
21		120.0
24		99.4
27		87.2
30		80.5
33		76.6
36		72.0
39		67.1
42		62.6
45		58.7
18	51	120.0
21		117.0
24		95.0
27		82.3
30		76.1
33		71.5
36		67.1
39		62.6
42		58.7
45		55.2
18	54	120.0
21		113.0
24		90.9
27		78.6
30		72.0
33		67.1
36		62.6
39		58.7
42		55.2
45		52.2
18	57	120.0
21		109.0
24		87.4
27		75.1
30		71.5
33		67.1
36		62.6
39		58.7
42		55.2
45		52.2
18	60	120.0
21		106.0
24		84.2
27		71.8
30		68.2
33		64.6
36		61.0
39		57.4
42		53.8
45		50.2
18	63	120.0
21		103.0
24		82.1
27		71.8
30		68.2
33		64.6
36		61.0
39		57.4
42		53.8
45		50.2
18	66	120.0
21		102.0
24		80.3
27		71.8
30		68.2
33		64.6
36		61.0
39		57.4
42		53.8
45		50.2
18	69	120.0
21		100.0
24		79.3
27		71.8
30		68.2
33		64.6
36		61.0
39		57.4
42		53.8
45		50.2
18	72	120.0
21		98.7
24		78.2
27		71.8
30		68.2
33		64.6
36		61.0
39		57.4
42		53.8
45		50.2
18	75	120.0
21		97.3
24		76.6
27		71.8
30		68.2
33		64.6
36		61.0
39		57.4
42		53.8
45		50.2
18	78	120.0
21		96.1
24		75.5
27		71.8
30		68.2
33		64.6
36		61.0
39		57.4
42		53.8
45		50.2
18	81	120.0
21		94.0
24		73.9
27		71.8
30		68.2
33		64.6
36		61.0
39		57.4
42		53.8
45		50.2
18	84	120.0
21		92.0
24		71.8
27		71.8
30		68.2
33		64.6
36		61.0
39		57.4
42		53.8
45		50.2



GLAZING DETAIL 1



GLAZING DETAIL 2



GLASS LOAD CAPACITY (PSF)		
NOMINAL DIMS. (in)		1/4" HEAT STRENGTH.
DLO WIDTH	DLO HEIGHT	EXT. (+) INT. (-)
30	30	120.0
33		120.0
36		120.0
39		117.4
42		104.4
45		93.9
48		85.4
51		78.3
54		72.2
57		67.1
60		62.6
63		58.7
66		55.2
69		52.2
72		49.4
30	36	120.0
33		120.0
36		113.3
39		120.0
42		117.4
45		104.4
48		93.9
51		85.4
54		78.3
57		72.2
60		67.1
63		62.6
66		58.7
69		55.2
72		52.2
30	42	120.0
33		120.0
36		113.3
39		104.6
42		97.1
45		104.0
48		104.4
51		93.9
54		85.4
57		78.3
60		72.2
63		67.1
66		62.6
69		58.7
72		55.2

GLASS LOAD CAPACITY (PSF)		
NOMINAL DIMS. (in)		1/4" HEAT STRENGTH.
DLO WIDTH	DLO HEIGHT	EXT. (+) INT. (-)
30	48	120.0
33		120.0
36		113.3
39		104.6
42		97.1
45		90.6
48		84.9
51		90.3
54		93.9
57		85.4
60		78.3
63		72.2
66		67.1
69		62.6
72		58.7
30	54	120.0
33		120.0
36		113.3
39		104.6
42		97.1
45		90.6
48		84.9
51		80.0
54		75.5
57		79.7
60		83.9
63		78.3
66		72.2
69		67.1
72		62.6
30	60	120.0
33		117.8
36		111.8
39		104.6
42		97.1
45		90.6
48		84.9
51		80.0
54		75.5
57		71.5
60		68.0
63		64.6
66		61.0
69		57.4
72		53.8

GLASS LOAD CAPACITY (PSF)		
NOMINAL DIMS. (in)		1/4" HEAT STRENGTH.
DLO WIDTH	DLO HEIGHT	EXT. (+) INT. (-)
30	66	114.0
33		106.0
36		101.0
39		98.9
42		97.1
45		90.6
48		84.9
51		80.0
54		75.5
57		71.8
60	72	108.0
33		108.0
36		96.4
39		91.6
42		88.9
45		87.5
48		84.9
51		80.0
54		75.5
57		71.8
60	78	101.0
33		89.6
36		83.2
39		80.4
42		79.4
45		78.8
48		77.2
51		75.5
54		74.4
57		72.7
60	84	97.2
33		83.7
36		77.5
39		74.4
42		72.7
45		70.0
48		67.1
51		64.6
54		62.6
57		60.6

- GLAZING NOTES:
- GLASS TYPE SHALL COMPLY WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. 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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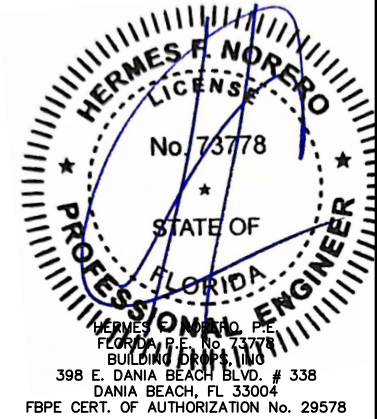
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PH: (478)277-1955 FAX: (678)838-6001

TITLE: YES 45 FS
ALUMINUM STOREFRONT SYSTEM
(HVHZ) (NON-IMPACT)
GLASS LOAD TABLE &
GLAZING DETAILS

PREPARED BY:
BUILDING DROPS, INC.
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REMARKS	BY	DATE
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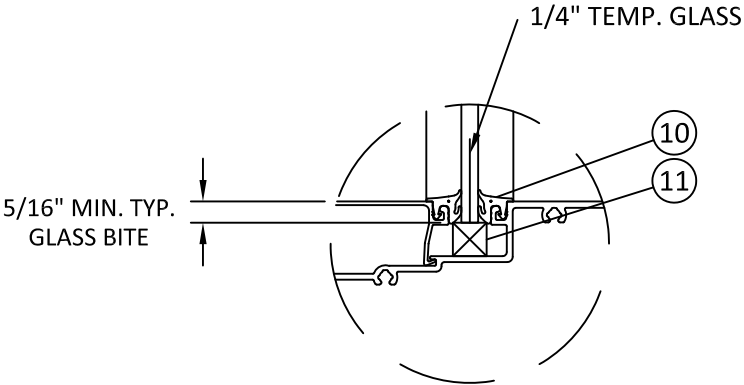
SHEET:
3

GLASS LOAD TABLE

GLASS LOAD CAPACITY (PSF)		
NOMINAL DIMS. (in)		1/4" TEMP.
DLO WIDTH	DLO HEIGHT	EXT. (+) INT. (-)
30	72	118.6
33		110.8
36		104.4
39		99.1
42		94.7
45		90.6
48		84.9
51		80.0
54		75.5
57		71.5
60		68.0
63		64.7
66	78	61.8
69		59.1
72		56.6
30		116.3
33		108.3
36		101.7
39		96.3
42		91.8
45		88.0
48		84.8
51		80.0
54		75.5
57		71.5
60	84	68.0
63		64.7
66		61.8
69		59.1
30		114.3
33		106.2
36		99.6
39		94.1
42		89.4
45		85.5
48		82.2
51		79.3
54		75.5
57		71.5
60		68.0
63		64.7

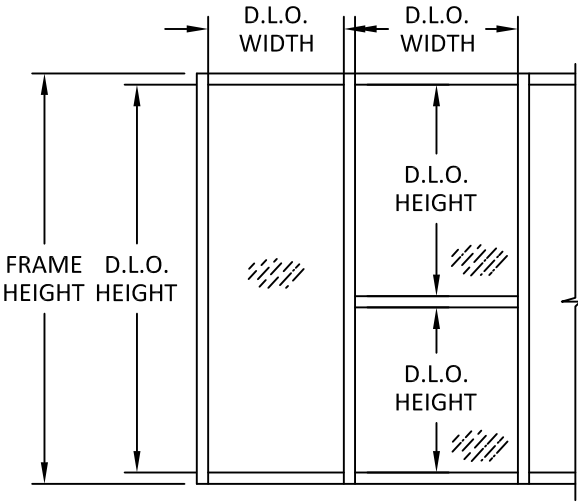
GLASS LOAD CAPACITY (PSF)		
NOMINAL DIMS. (in)		1/4" TEMP.
DLO WIDTH	DLO HEIGHT	EXT. (+) INT. (-)
30	90	112.7
33		104.5
36		97.8
39		92.2
42		87.5
45		83.5
48		80.0
51		77.1
54		74.5
57		71.5
60		68.0
30	96	111.3
33		103.1
36		96.3
39		90.7
42		85.9
45		81.8
48		78.3
51		75.2
54		72.6
57		70.3
30	102	110.1
33		101.9
36		95.0
39		89.3
42		84.5
45		80.3
48		76.8
51		73.7
30	108	109.1
33		100.8
36		93.9
39		88.2
42		83.3
45		79.1
48		75.5
30	114	108.1
33		99.8
36		92.9
39		87.2
42		82.2
45		78.0
48		74.4

GLASS LOAD CAPACITY (PSF)		
NOMINAL DIMS. (in)		1/4" TEMP.
DLO WIDTH	DLO HEIGHT	EXT. (+) INT. (-)
30	120	107.3
33		99.0
36		92.1
39		86.3
42		81.3
45		77.1
30	126	106.6
33		98.2
36		91.3
39		85.5
42		80.5
30	132	106.0
33		97.6
36		90.6
39		84.8
30	138	105.4
33		97.0
36		90.0
39		84.1



GLAZING DETAIL 3

- * NOTE:
- 1. GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC.
 - 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 IN GLASS CHARTS FOR GLASS TYPE.



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

TITLE: YES 45 FS
ALUMINUM STOREFRONT SYSTEM
(HVHZ) (NON-IMPACT)
GLASS LOAD TABLE &
GLAZING DETAILS

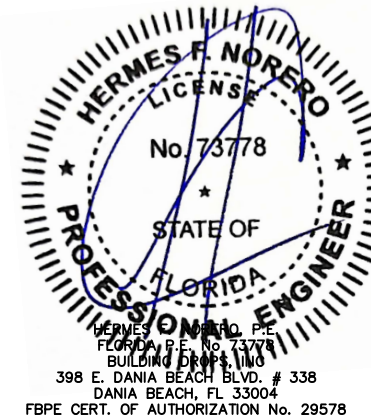
PREPARED BY:
BUILDING DROPS, INC.

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

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.

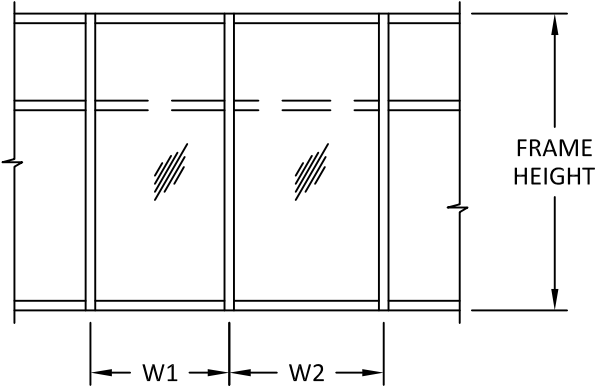


FL #:	FL12926
DATE:	08.10.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK217
SHEET:	4

MULLION LOAD TABLES

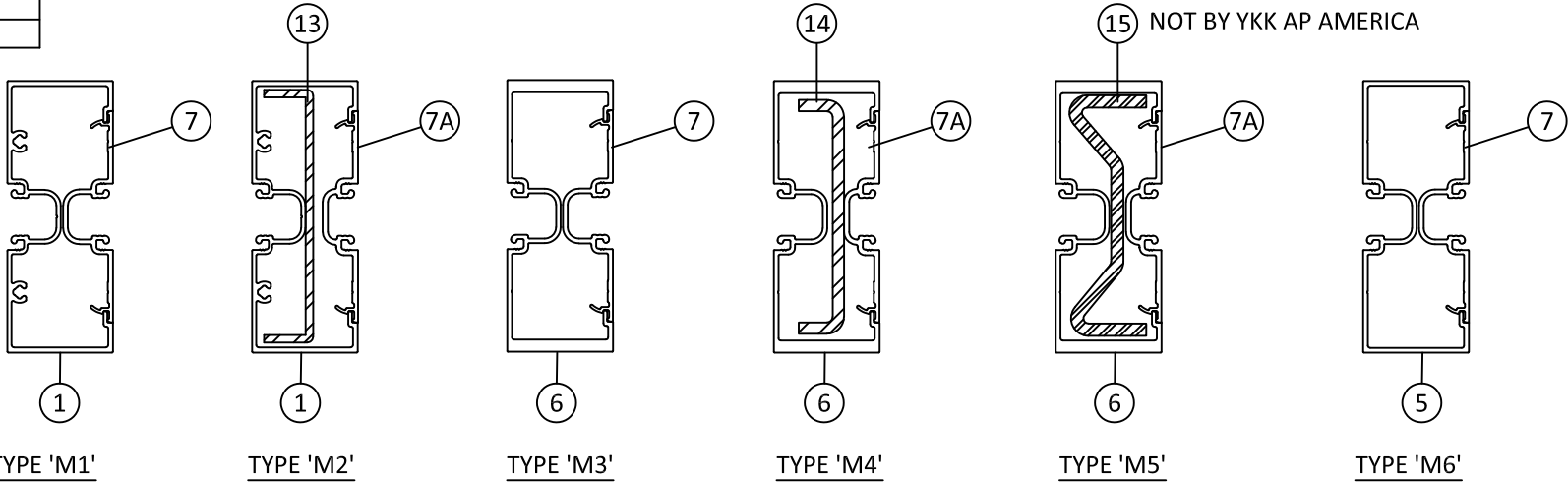
DESIGN LOAD CAPACITY - PSF							
NOMINAL DIMS.		TYPE 'M1'	TYPE 'M2'	TYPE 'M3'	TYPE 'M4'	TYPE 'M5'	TYPE 'M6'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
24	72	120.0	120.0	120.0	120.0	120.0	75.0
30		105.4	120.0	120.0	120.0	120.0	60.0
36		87.8	120.0	118.7	120.0	120.0	50.0
42		75.3	120.0	101.7	120.0	120.0	42.9
48		65.9	116.2	89.0	118.3	120.0	37.5
54		-	103.3	79.1	105.2	120.0	33.3
60		-	93.0	71.2	94.7	120.0	30.0
66		-	84.5	-	86.1	120.0	27.3
72		-	77.5	-	78.9	115.5	25.0
78		-	71.5	-	72.8	106.6	-
24	78	120.0	120.0	120.0	120.0	120.0	69.2
30		97.3	120.0	120.0	120.0	120.0	55.4
36		81.1	120.0	101.1	120.0	120.0	46.2
42		69.5	113.2	86.7	120.0	120.0	39.6
48		-	99.0	75.8	109.2	120.0	34.6
54		-	88.0	67.4	97.1	120.0	30.8
60		-	79.2	-	87.4	118.1	27.7
66		-	72.0	-	79.4	107.3	25.2
72		-	66.0	-	72.8	98.4	-
24	84	111.2	120.0	120.0	120.0	120.0	64.3
30		89.0	120.0	104.6	120.0	120.0	51.4
36		74.2	113.9	87.2	120.0	120.0	42.9
42		-	97.6	74.7	115.9	120.0	36.7
48		-	85.4	65.4	101.4	120.0	32.1
54		-	75.9	58.1	90.2	113.1	28.6
60		-	68.3	-	81.1	101.8	25.7
66		-	62.1	-	73.8	92.6	-
24	90	90.4	120.0	113.9	120.0	120.0	60.0
30		72.3	119.0	91.1	120.0	120.0	48.0
36		60.3	99.2	75.9	120.0	120.0	40.0
42		-	85.0	65.1	108.2	120.0	34.3
48		-	74.4	57.0	94.7	110.9	30.0
54		-	66.1	-	84.2	98.5	26.7
60		-	59.5	-	75.7	88.7	-
24	96	74.5	120.0	100.1	120.0	120.0	56.3
30		59.6	104.6	80.1	120.0	120.0	45.0
36		49.7	87.2	66.7	118.3	120.0	37.5
42		-	74.7	57.2	101.4	111.4	32.1
48		-	65.4	50.1	88.8	97.4	28.1
54		-	58.1	-	78.9	86.6	25.0
60		-	52.3	-	71.0	78.0	-

DESIGN LOAD CAPACITY - PSF							
NOMINAL DIMS.		TYPE 'M1'	TYPE 'M2'	TYPE 'M3'	TYPE 'M4'	TYPE 'M5'	TYPE 'M6'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
24	102	62.1	115.8	88.7	120.0	120.0	52.9
30		49.7	92.7	70.9	120.0	120.0	42.4
36		-	77.2	59.1	101.5	115.1	35.3
42		-	66.2	50.7	87.0	98.6	30.3
48		-	57.9	-	76.1	86.3	26.5
54		-	51.5	-	67.7	76.7	-
24	108	52.3	103.3	79.1	120.0	120.0	50.0
30		41.9	82.7	63.3	102.6	120.0	40.0
36		-	68.9	52.7	85.5	102.7	33.3
42		-	59.0	45.2	73.3	88.0	28.6
48		-	51.7	-	64.1	77.0	25.0
54		-	45.9	-	57.0	-	-
24	114	44.5	92.7	71.0	109.1	120.0	42.5
30		35.6	74.2	56.8	87.2	110.6	34.0
36		-	61.8	47.3	72.7	92.1	28.3
42		-	53.0	-	62.3	79.0	24.3
48		-	46.4	-	54.5	69.1	-
24	120	38.2	83.7	64.1	93.5	120.0	36.5
30		-	67.0	51.3	74.8	99.8	29.2
36		-	55.8	42.7	62.3	83.1	24.3
42		-	47.8	-	53.4	71.3	20.8
48		-	41.8	-	46.8	62.4	-
24	126	33.0	75.9	58.1	80.8	113.1	31.5
30		-	60.7	46.5	64.6	90.5	25.2
36		-	50.6	38.7	53.8	75.4	21.0
42		-	43.4	-	46.2	64.6	-
24	132	28.7	69.2	51.2	70.3	103.1	27.4
30		-	55.3	41.0	56.2	82.5	21.9
36		-	46.1	-	46.8	68.7	18.3
42		-	39.5	-	40.1	58.9	-
24	138	25.1	61.5	44.8	61.5	94.3	24.0
30		-	49.2	35.8	49.2	75.4	19.2
36		-	41.0	-	41.0	62.9	16.0
42		-	35.1	-	35.1	-	-
24	144	22.1	54.1	39.4	54.1	86.6	21.1
30		-	43.3	31.5	43.3	69.3	16.9
36		-	36.1	-	36.1	57.7	14.1



WIDTH (W) = $\frac{W1 + W2}{2}$

MULLION LOAD CHARTS FOR MULLS
WITH OR WITHOUT INTERMEDIATE HORIZONTALS



YKK AP AMERICA

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

TITLE: YES 45 FS
ALUMINUM STOREFRONT SYSTEM
(HVHZ) (NON-IMPACT)
MULLION LOAD TABLE

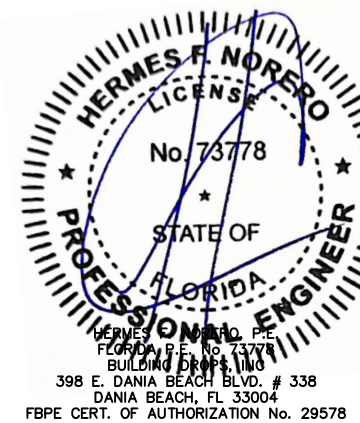
PREPARED BY:
BUILDING DROPS, INC.

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

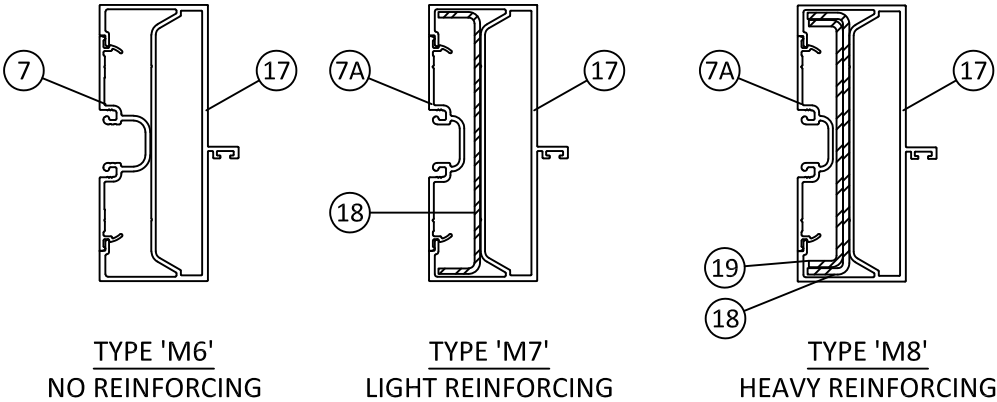
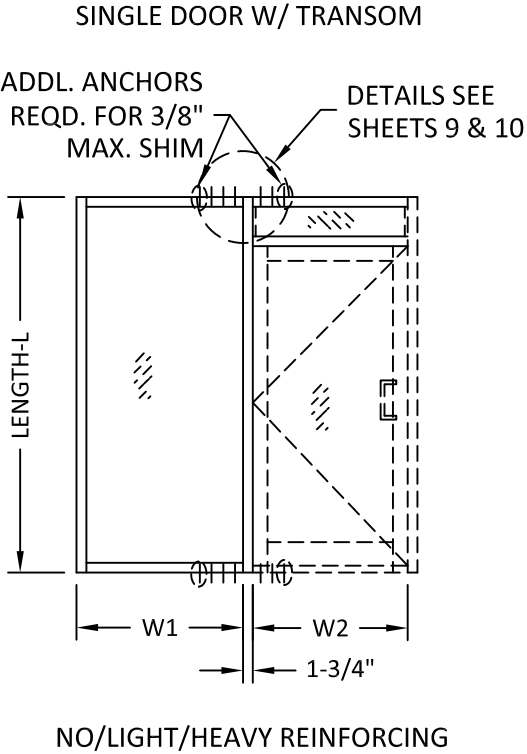
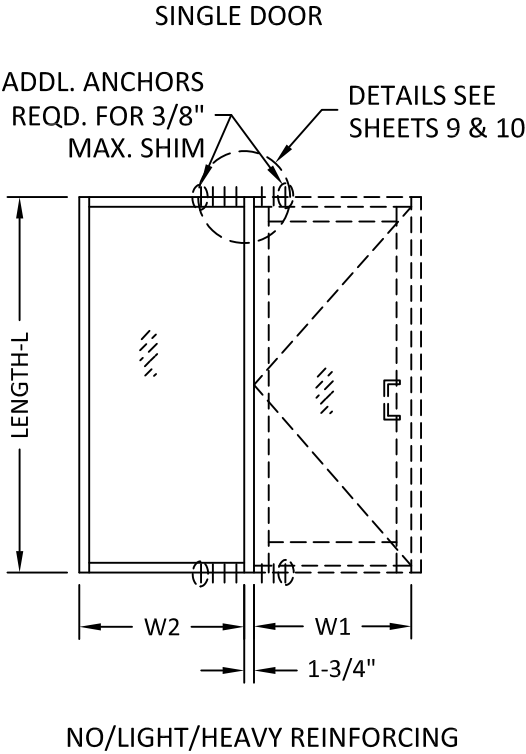
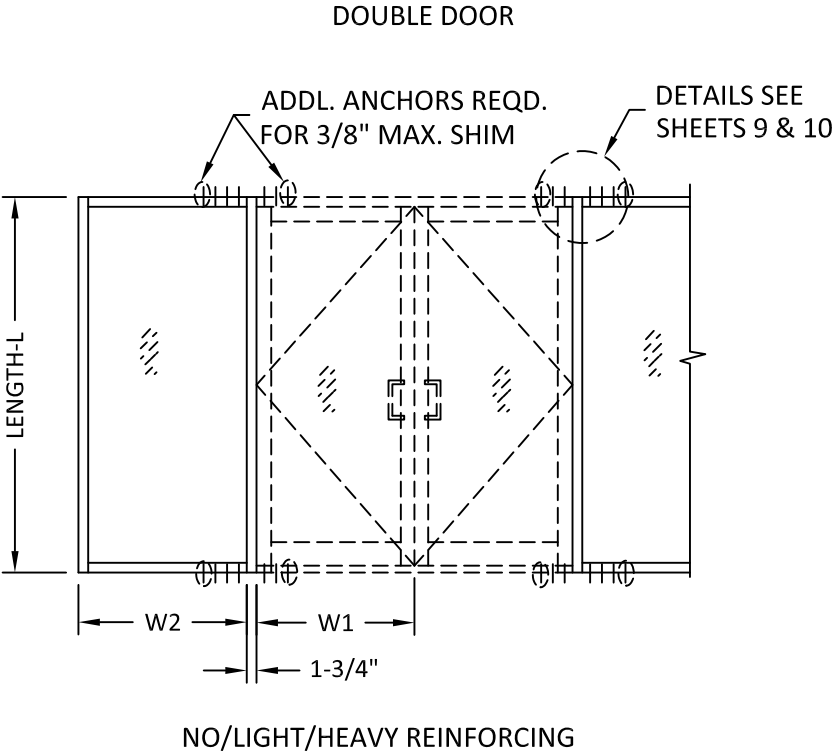
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FL #:	FL12926
DATE:	08.10.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK217
SHEET:	5

DOOR MULLION LOAD TABLE

DOOR MULLION LOAD CAPACITY				
NOMINAL DIMS.		TYPE 'M6'	TYPE 'M7'	TYPE 'M8'
WIDTH (W) INCHES	LENGTH - L INCHES	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	81.75	82.1	100.0	100.0
36		68.5	100.0	100.0
42		58.7	100.0	100.0
48		-	94.6	100.0
54		-	84.1	100.0
30	85.75	74.7	100.0	100.0
36		62.2	100.0	100.0
42		-	98.2	100.0
48		-	86.0	100.0
54		-	76.4	93.1
30	91.75	65.2	100.0	100.0
36		54.3	100.0	100.0
42		-	85.8	100.0
48		-	75.1	91.5
54		-	66.7	81.3
30	97.75	57.5	100.0	100.0
36		-	88.2	100.0
42		-	75.6	92.1
48		-	66.2	80.6
51.875		-	61.2	74.6



$$\text{WIDTH (W)} = \frac{W1 + W2}{2} + 1 \frac{3}{4}''$$

ELEVATIONS ABOVE SHOW NUMBER OF ANCHORS REQD. AT HEAD/SILL OF DOOR MULLION FOR VARIOUS CONFIGURATIONS. SEE SHEETS 9 & 10 FOR DETAIL.



YKK AP AMERICA

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

TITLE: YES 45 FS
ALUMINUM STOREFRONT SYSTEM
(HVHZ) (NON-IMPACT)
DOOR MULLION LOAD TABLE

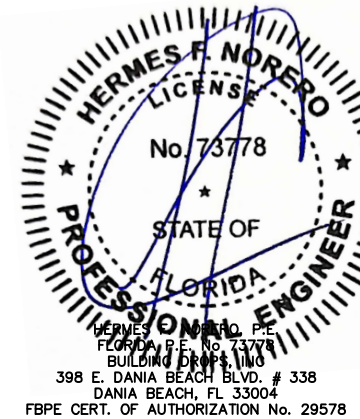
PREPARED BY: BUILDING DROPS, INC.

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

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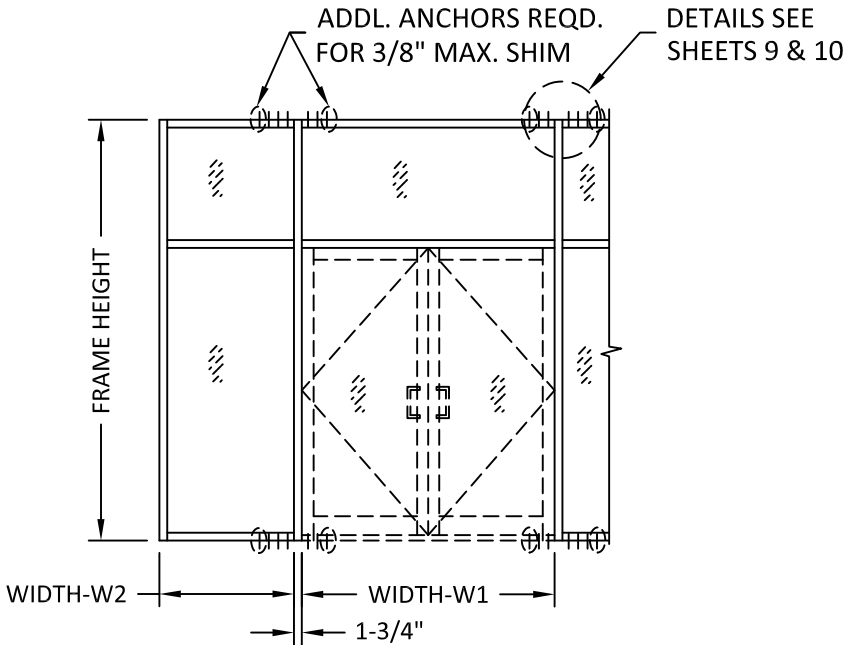
FL #:	FL12926
DATE:	08.10.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK217
SHEET:	6

DOOR MULLION LOAD TABLE

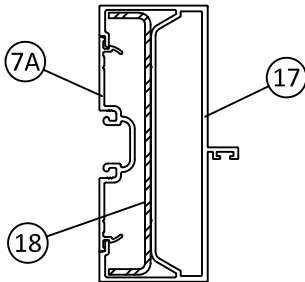
LIGHT REINFORCING

DOOR MULLION LOAD CAPACITY - LIGHT REINFORCING			
NOMINAL DIMS.			LOADS - PSF
WIDTH (W1)	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	EXT. (+) INT. (-)
60	30	102	57.1
	36		53.5
	42		50.4
	48		47.6
	54		45.1
66	60		42.8
	30		53.5
	36		50.4
	42		47.6
	48		45.1
72	54		42.8
	60		40.8
	30		50.4
	36		47.6
	42		45.1
84	48		42.8
	54		40.8
	60		38.9
	30		45.1
	36		42.8
60	42	108	40.8
	48		38.9
	54		36.4
	60		34.4
	30		50.9
66	36		47.7
	42		44.9
	48		42.4
	54		40.2
	60		38.2
72	30		47.7
	36		44.9
	42		42.4
	48		40.2
	54		38.2
84	60		36.4
	30		40.2
	36		38.2
	42		36.4

DOOR MULLION LOAD CAPACITY - LIGHT REINFORCING			
NOMINAL DIMS.			LOADS - PSF
WIDTH (W1)	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	EXT. (+) INT. (-)
60	30	114	45.7
	36		42.8
	42		40.3
	48		38.1
	54		36.1
66	60		34.3
	30		42.8
	36		40.3
	42		38.1
	48		36.1
72	54		34.3
	30		40.3
	36		38.1
	42		36.1
	48		34.3
84	30		40.3
	36		38.1
	42		36.1
60	30	120	41.2
	36		38.7
	42		36.4
	48		34.4
	54		32.5
66	60		38.7
	30		36.4
	36		34.4
	42		32.5
	48		30.4
72	30		36.4
	36		34.4
	42		32.5
84	30		32.5
	36		30.4



DOUBLE DOOR W/ TRANSOM



TYPE 'M7'
LIGHT REINFORCING

$$\text{WIDTH (W)} = \frac{W1 + W2}{2} + 1 \frac{3}{4}"$$

ELEVATION ABOVE SHOWS NUMBER OF ANCHORS REQD. AT HEAD/SILL OF DOOR MULLION FOR VARIOUS CONFIGURATIONS. SEE SHEETS 9 & 10 FOR DETAIL.



YKK AP AMERICA

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

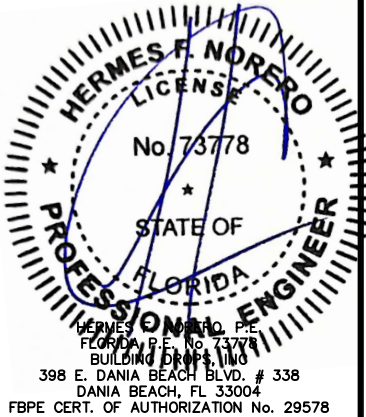
TITLE: YES 45 FS
ALUMINUM STOREFRONT SYSTEM
(HVHZ) (NON-IMPACT)
DOOR MULLION LOAD TABLES

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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FL #:
FL12926

DATE: **08.10.17**

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

SCALE: **NTS**

DWG. #: **YKK217**

SHEET:

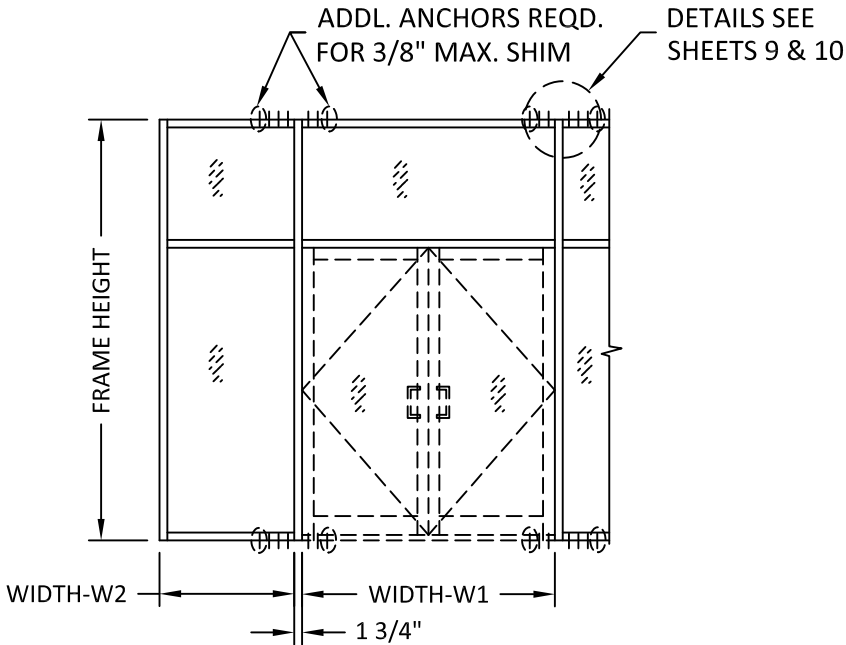
7

DOOR MULLION LOAD TABLE

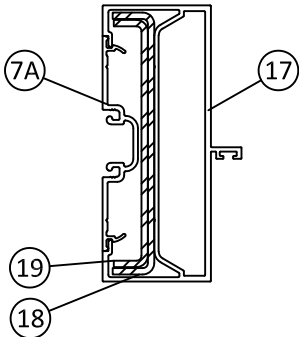
HEAVY REINFORCING

DOOR MULLION LOAD CAPACITY - LIGHT REINFORCING			
NOMINAL DIMS.			LOADS - PSF
WIDTH (W1)	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	EXT. (+) INT. (-)
60	30	102	78.9
	36		74.0
	42		69.7
	48		65.8
	54		62.3
	60		59.2
66	30		74.0
	36		69.7
	42		65.8
	48		62.3
	54		59.2
	60		56.4
72	30		69.7
	36		65.8
	42		62.3
	48		59.2
	54		56.4
	60		53.8
84	30		62.3
	36		59.2
	42		56.4
	48		53.8
	54		51.5
	60		70.4
60	36	108	66.0
	42		62.1
	48		58.7
	54		55.6
	60		52.8
	66		66.0
66	36		62.1
	42		58.7
	48		55.6
	54		52.8
	60		50.3
	72		62.1
72	36		58.7
	42		55.6
	48		52.8
	54		50.3
	60		48.0
	84		55.6
84	36		52.8
	42		50.3
	48		48.0

DOOR MULLION LOAD CAPACITY - LIGHT REINFORCING			
NOMINAL DIMS.			LOADS - PSF
WIDTH (W1)	WIDTH (W2) INCHES	FRAME HEIGHT INCHES	EXT. (+) INT. (-)
60	30	114	63.2
	36		59.3
	42		55.8
	48		52.7
	54		49.9
	60		47.4
66	30		59.3
	36		55.8
	42		52.7
	48		49.9
	54		47.4
	60		45.1
72	30		55.8
	36		52.7
	42		49.9
	48		47.4
	54		45.1
	60		49.9
84	36		47.4
	42		45.1
	60	120	57.0
60	36		53.5
	42		50.3
	48		47.5
	54		45.0
	60		42.8
	72		53.5
66	36		50.3
	42		47.5
	48		45.0
	54		42.8
	60		50.3
	72		47.5
72	36		45.0
	42		42.8
	48		45.0
	54		42.8
	60		45.0
	84		42.8



DOUBLE DOOR W/ TRANSOM



TYPE 'M8'
HEAVY REINFORCING

$$\text{WIDTH (W)} = \frac{W1 + W2}{2} + 1 \frac{3}{4}"$$

ELEVATION ABOVE SHOWS NUMBER OF ANCHORS REQD. AT HEAD/SILL OF DOOR MULLION FOR VARIOUS CONFIGURATIONS. SEE SHEETS 9 & 10 FOR DETAIL.



YKK AP AMERICA

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

TITLE: YES 45 FS
ALUMINUM STOREFRONT SYSTEM
(HVHZ) (NON-IMPACT)
DOOR MULLION LOAD TABLES

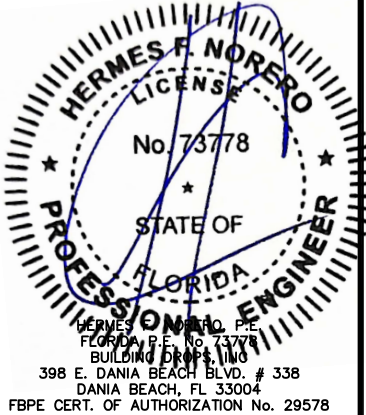
PREPARED BY:
BUILDING DROPS, INC.

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

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FL #:
FL12926

DATE: **08.10.17**

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

SCALE: **NTS**

DWG. #: **YKK217**

SHEET:
8



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

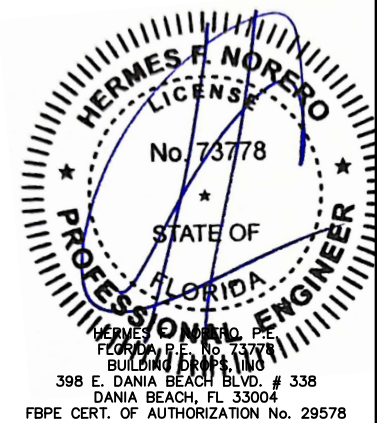
TITLE: YES 45 FS
ALUMINUM STOREFRONT SYSTEM
(HVHZ) (NON-IMPACT)
ANCHOR LAYOUT

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

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.



FL #:
FL12926

DATE: **08.10.17**

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

SCALE: **NTS**

DWG. #: **YKK217**

SHEET:
9

OF 14

TYPICAL ANCHORS

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= 125 KSI, Fy= 100 KSI)
1/4" DIA. ULTRACON+ BY DEWALT (Fu= 177 KSI, Fy= 155 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

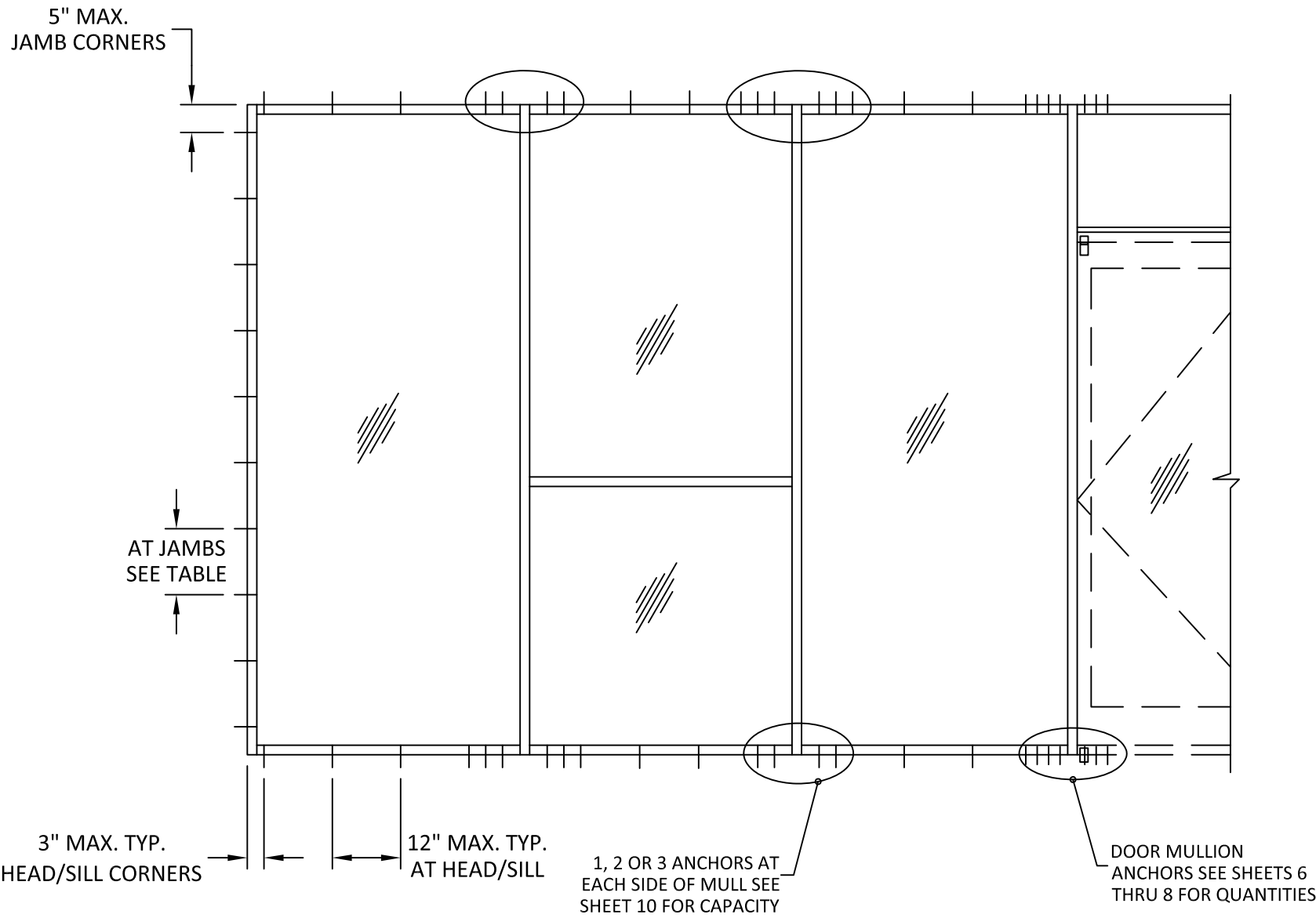
INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 3/4" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

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

MAXIMUM JAMB ANCHOR SPACING (IN.)					
PANEL WIDTH (IN.)	1/4" SHIM		3/8" SHIM		1/4" OR 3/8" SHIM ANCHOR TYPE A INSTALLED IN CMU
	ANCHOR TYPE A	ANCHOR TYPE B	ANCHOR TYPE A	ANCHOR TYPE B	
36	12.0	12.0	12.0	12.0	10.8
42	12.0	12.0	12.0	12.0	9.3
48	12.0	12.0	11.3	12.0	8.1
54	12.0	12.0	10.1	12.0	7.2
60	12.0	12.0	9.1	12.0	6.5
66	11.9	12.0	8.2	12.0	5.9
72	10.9	12.0	7.6	12.0	5.4
78	10.1	12.0	7.0	11.1	5.0

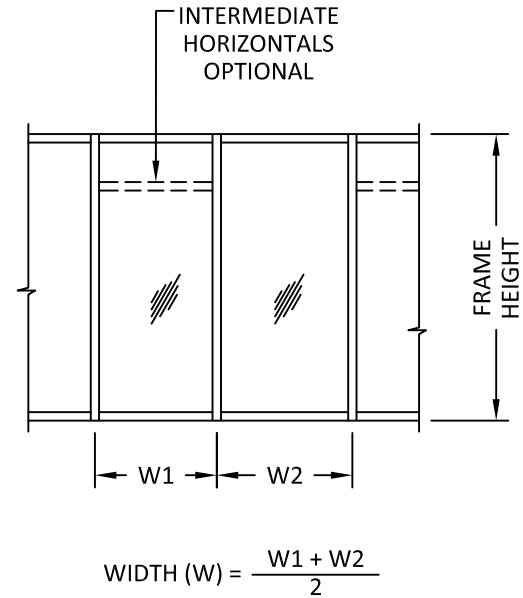


ANCHOR LAYOUT

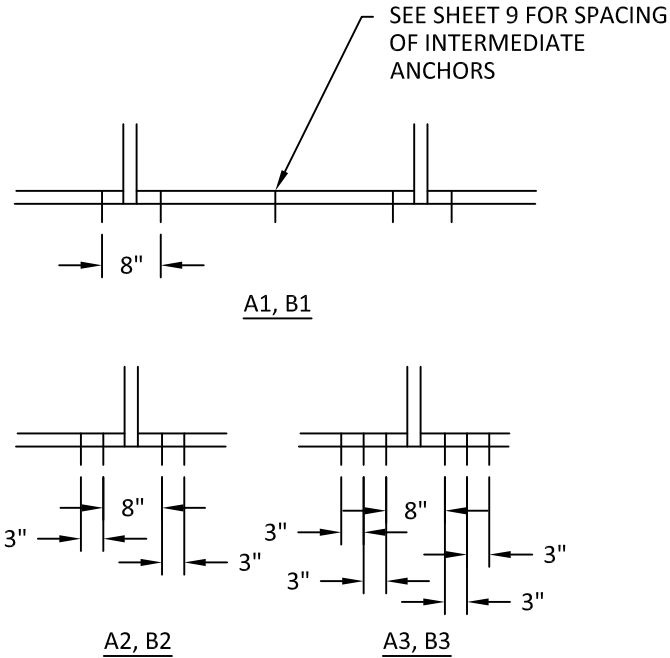
ANCHOR LOAD TABLE

ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT. (-)													
NOMINAL DIMS.		1/4" SHIM SPACE						3/8" SHIM SPACE					
		ANCHOR TYPE						ANCHOR TYPE					
WIDTH (W)	FRAME HEIGHT	A1	B1	A2	B2	A3	B3	A1	B1	A2	B2	A3	B3
24	72	109.3	120.0	120.0	120.0	120.0	120.0	75.5	120.0	120.0	120.0	120.0	120.0
30		87.5	120.0	120.0	120.0	120.0	120.0	60.4	96.1	120.0	120.0	120.0	120.0
36		72.9	101.9	120.0	120.0	120.0	120.0	50.3	80.1	100.7	120.0	120.0	120.0
42		62.5	87.3	120.0	120.0	120.0	120.0	43.2	68.7	86.3	120.0	120.0	120.0
48		54.7	76.4	109.3	120.0	120.0	120.0	37.8	60.1	75.5	120.0	113.3	120.0
54		48.6	67.9	97.2	120.0	120.0	120.0	33.6	53.4	67.1	106.8	100.7	120.0
60		43.7	61.1	87.5	120.0	120.0	120.0	30.2	48.1	60.4	96.1	90.6	120.0
66		39.8	55.6	79.5	111.1	119.3	120.0	27.5	43.7	54.9	87.4	82.4	120.0
72	78	36.4	50.9	72.9	101.9	109.3	120.0	25.2	40.1	50.3	80.1	75.5	120.0
78		33.6	47.0	67.3	94.0	100.9	120.0	23.2	37.0	46.5	73.9	69.7	110.9
24		100.9	120.0	120.0	120.0	120.0	120.0	69.7	110.9	120.0	120.0	120.0	120.0
30		80.7	112.8	120.0	120.0	120.0	120.0	55.8	88.7	111.5	120.0	120.0	120.0
36		67.3	94.0	120.0	120.0	120.0	120.0	46.5	73.9	93.0	120.0	120.0	120.0
42		57.7	80.6	115.3	120.0	120.0	120.0	39.8	63.4	79.7	120.0	119.5	120.0
48		50.5	70.5	100.9	120.0	120.0	120.0	34.9	55.5	69.7	110.9	104.6	120.0
54		44.9	62.7	89.7	120.0	120.0	120.0	31.0	49.3	62.0	98.6	93.0	120.0
60	84	40.4	56.4	80.7	112.8	120.0	120.0	27.9	44.4	55.8	88.7	83.7	120.0
66		36.7	51.3	73.4	102.6	110.1	120.0	25.4	40.3	50.7	80.7	76.1	120.0
72		33.6	47.0	67.3	94.0	100.9	120.0	23.2	37.0	46.5	73.9	69.7	110.9
24		93.7	120.0	120.0	120.0	120.0	120.0	64.7	103.0	120.0	120.0	120.0	120.0
30		75.0	104.8	120.0	120.0	120.0	120.0	51.8	82.4	103.6	120.0	120.0	120.0
36		62.5	87.3	120.0	120.0	120.0	120.0	43.2	68.7	86.3	120.0	120.0	120.0
42		53.6	74.8	107.1	120.0	120.0	120.0	37.0	58.9	74.0	117.7	111.0	120.0
48		46.9	65.5	93.7	120.0	120.0	120.0	32.4	51.5	64.7	103.0	97.1	120.0
54	90	41.7	58.2	83.3	116.4	120.0	120.0	28.8	45.8	57.5	91.6	86.3	120.0
60		37.5	52.4	75.0	104.8	112.5	120.0	25.9	41.2	51.8	82.4	77.7	120.0
66		34.1	47.6	68.2	95.2	102.2	120.0	23.5	37.5	47.1	74.9	70.6	112.4
24		87.5	120.0	120.0	120.0	120.0	120.0	60.4	96.1	120.0	120.0	120.0	120.0
30		70.0	97.8	120.0	120.0	120.0	120.0	48.3	76.9	96.7	120.0	120.0	120.0
36		58.3	81.5	116.6	120.0	120.0	120.0	40.3	64.1	80.6	120.0	120.0	120.0
42		50.0	69.8	100.0	120.0	120.0	120.0	34.5	54.9	69.0	109.9	103.6	120.0
48		43.7	61.1	87.5	120.0	120.0	120.0	30.2	48.1	60.4	96.1	90.6	120.0
54	96	38.9	54.3	77.7	108.6	116.6	120.0	26.9	42.7	53.7	85.5	80.6	120.0
60		35.0	48.9	70.0	97.8	105.0	120.0	24.2	38.5	48.3	76.9	72.5	115.4
24		82.0	114.6	120.0	120.0	120.0	120.0	56.6	90.1	113.3	120.0	120.0	120.0
30		65.6	91.7	120.0	120.0	120.0	120.0	45.3	72.1	90.6	120.0	120.0	120.0
36		54.7	76.4	109.3	120.0	120.0	120.0	37.8	60.1	75.5	120.0	113.3	120.0
42		46.9	65.5	93.7	120.0	120.0	120.0	32.4	51.5	64.7	103.0	97.1	120.0
48		41.0	57.3	82.0	114.6	120.0	120.0	28.3	45.1	56.6	90.1	85.0	120.0
54		36.4	50.9	72.9	101.9	109.3	120.0	25.2	40.1	50.3	80.1	75.5	120.0
60	102	32.8	45.8	65.6	91.7	98.4	120.0	22.7	36.1	45.3	72.1	68.0	108.2
24		77.2	107.8	120.0	120.0	120.0	120.0	53.3	84.8	106.6	120.0	120.0	120.0
30		61.7	86.3	120.0	120.0	120.0	120.0	42.6	67.9	85.3	120.0	120.0	120.0
36		51.5	71.9	102.9	120.0	120.0	120.0	35.5	56.5	71.1	113.1	106.6	120.0
42		44.1	61.6	88.2	120.0	120.0	120.0	30.5	48.5	60.9	96.9	91.4	120.0
48		38.6	53.9	77.2	107.8	115.8	120.0	26.7	42.4	53.3	84.8	80.0	120.0
54		34.3	47.9	68.6	95.9	102.9	120.0	23.7	37.7	47.4	75.4	71.1	113.1
24		72.9	101.9	120.0	120.0	120.0	120.0	50.3	80.1	100.7	120.0	120.0	120.0
30	108	58.3	81.5	116.6	120.0	120.0	120.0	40.3	64.1	80.6	120.0	120.0	120.0
36		48.6	67.9	97.2	120.0	120.0	120.0	33.6	53.4	67.1	106.8	100.7	120.0
42		41.7	58.2	83.3	116.4	120.0	120.0	28.8	45.8	57.5	91.6	86.3	120.0
48		36.4	50.9	72.9	101.9	109.3	120.0	25.2	40.1	50.3	80.1	75.5	120.0
54		32.4	45.3	64.8	90.5	97.2	120.0	22.4	35.6	44.8	71.2	67.1	106.8
24		69.1	96.5	120.0	120.0	120.0	120.0	47.7	75.9	95.4	120.0	120.0	120.0
30		55.2	77.2	110.5	120.0	120.0	120.0	38.2	60.7	76.3	120.0	114.5	120.0
36		46.0	64.3	92.1	120.0	120.0	120.0	31.8	50.6	63.6	101.2	95.4	120.0
42	114	39.5	55.1	78.9	110.3	118.4	120.0	27.3	43.4	54.5	86.7	81.8	120.0
48		34.5	48.2	69.1	96.5	103.6	120.0	23.8	37.9	47.7	75.9	71.5	113.8

ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT. (-)													
NOMINAL DIMS.		1/4" SHIM SPACE						3/8" SHIM SPACE					
		ANCHOR TYPE						ANCHOR TYPE					
WIDTH (W)	FRAME HEIGHT	A1	B1	A2	B2	A3	B3	A1	B1	A2	B2	A3	B3
24	120	65.6	91.7	120.0	120.0	120.0	120.0	45.3	72.1	90.6	120.0	120.0	120.0
30		52.5	73.3	105.0	120.0	120.0	120.0	36.3	57.7	72.5	115.4	108.8	120.0
36		43.7	61.1	87.5	120.0	120.0	120.0	30.2	48.1	60.4	96.1	90.6	120.0
42		37.5	52.4	75.0	104.8	112.5	120.0	25.9	41.2	51.8	82.4	77.7	120.0
48		32.8	45.8	65.6	91.7	98.4	120.0	22.7	36.1	45.3	72.1	68.0	108.2
24	126	62.5	87.3	120.0	120.0	120.0	120.0	43.2	68.7	86.3	120.0	120.0	120.0
30		50.0	69.8	100.0	120.0	120.0	120.0	34.5	54.9	69.0	109.9	103.6	120.0
36		41.7	58.2	83.3	116.4	120.0	120.0	28.8	45.8	57.5	91.6	86.3	120.0
42		35.7	49.9	71.4	99.8	107.1	120.0	24.7	39.2	49.3	78.5	74.0	117.7
24	132	59.6	83.3	119.3	120.0	120.0	120.0	41.2	65.5	82.4	120.0	120.0	120.0
30		47.7	66.7	95.4	120.0	120.0	120.0	33.0	52.4	65.9	104.9	98.9	120.0
36		39.8	55.6	79.5	111.1	119.3	120.0	27.5	43.7	54.9	87.4	82.4	120.0
42		34.1	47.6	68.2	95.2	102.2	120.0	23.5	37.5	47.1	74.9	70.6	112.4
24	138	57.0	79.7	114.1	120.0	120.0	120.0	39.4	62.7	78.8	120.0	118.2	120.0
30		45.6	63.8	91.3	120.0	120.0	120.0	31.5	50.2	63.0	100.3	94.6	120.0
36		38.0	53.1	76.1	106.3	114.1	120.0	26.3	41.8	52.5	83.6	78.8	120.0
42		32.6	45.5	65.2	91.1	97.8	120.0	22.5	35.8	45.0	71.7	67.5	107.5
24	144	54.7	76.4	109.3	120.0	120.0	120.0	37.8	60.1	75.5	120.0	113.3	120.0
30		43.7	61.1	87.5	120.0	120.0	120.0	30.2	48.1	60.4	96.1	90.6	120.0
36		36.4	50.9	72.9	101.9	109.3	120.0	25.2	40.1	50.3	80.1	75.5	120.0

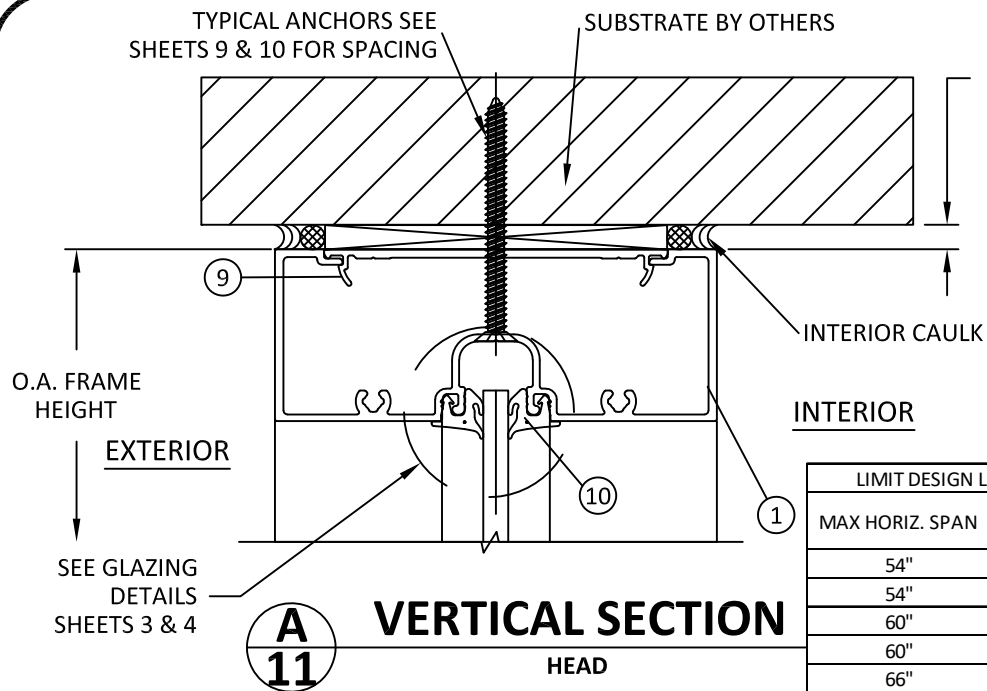


ANCHOR LOAD CHARTS FOR MULLS WITH OR WITHOUT INTERMEDIATE HORIZONTALS

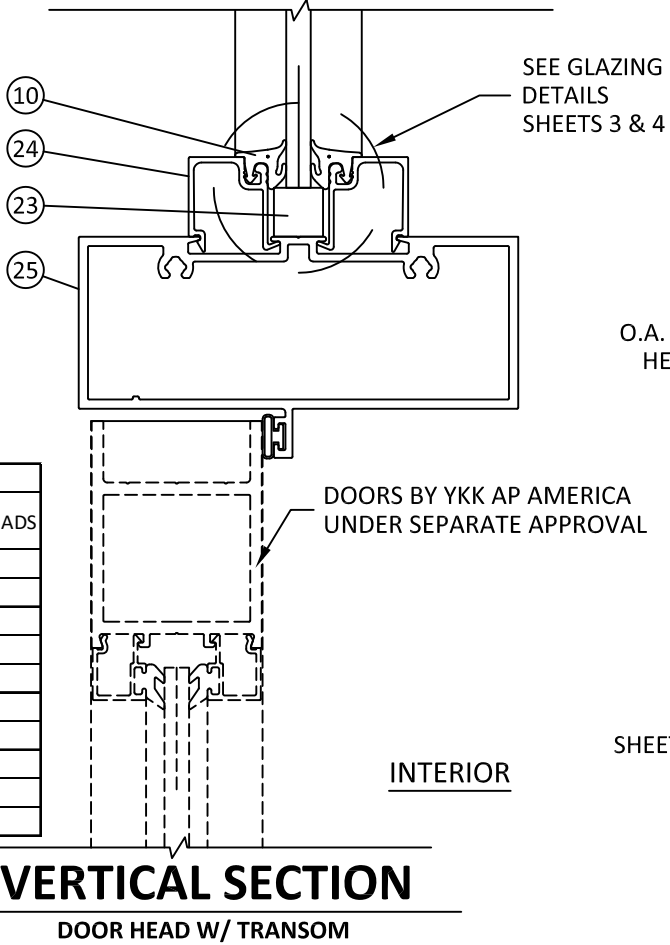


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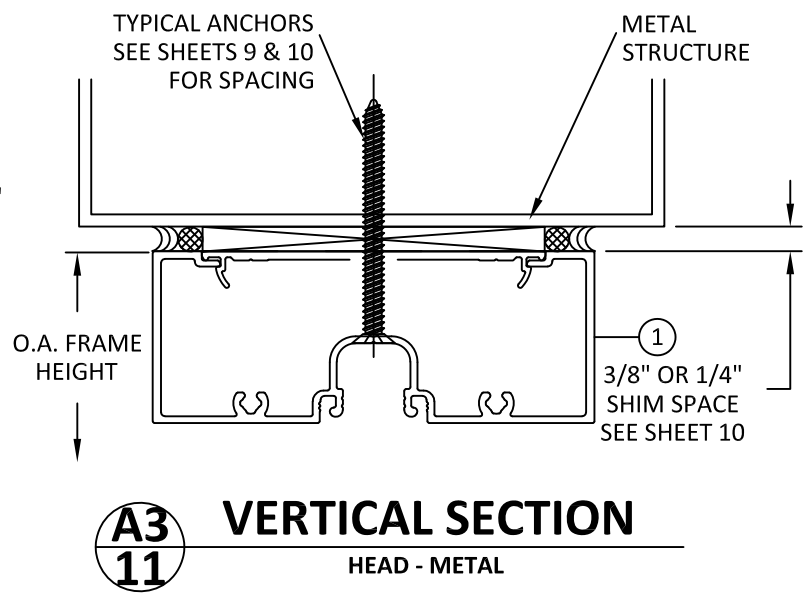
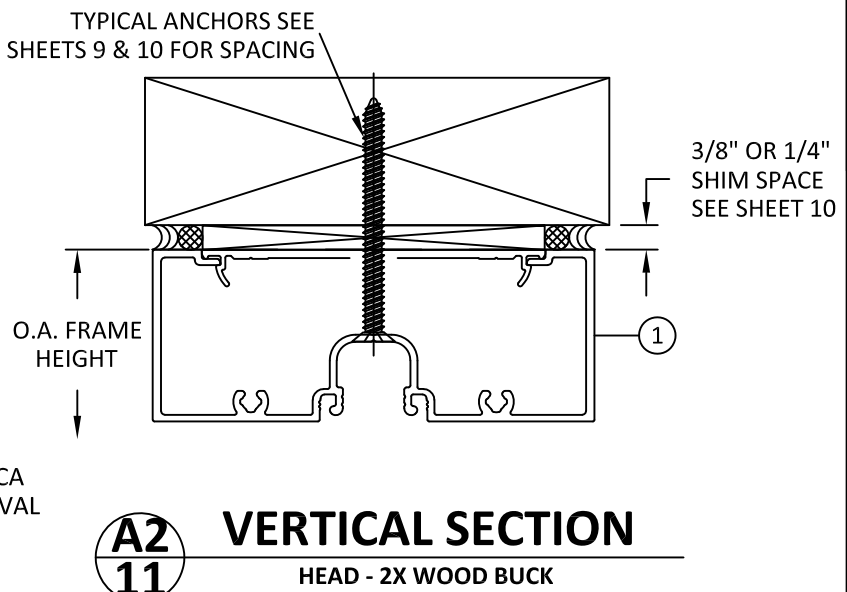
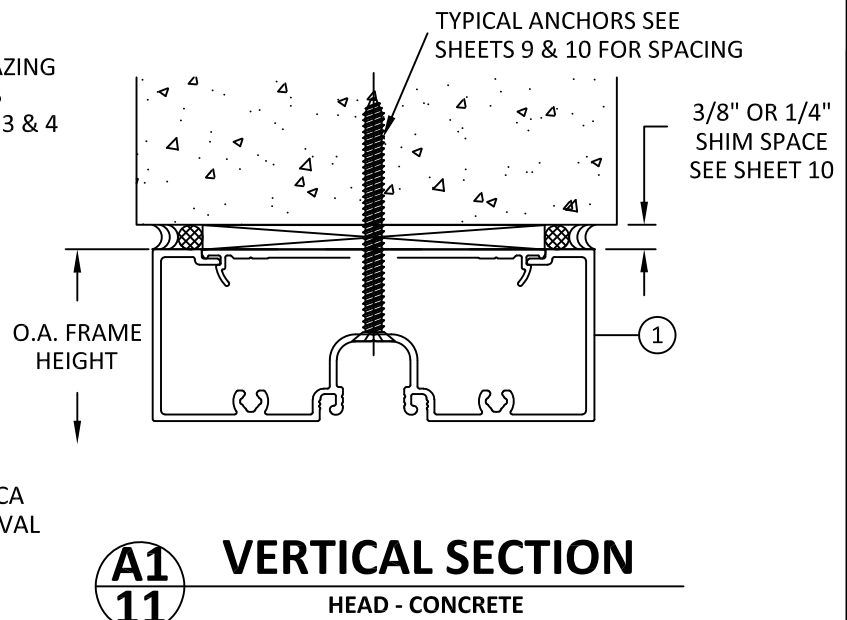
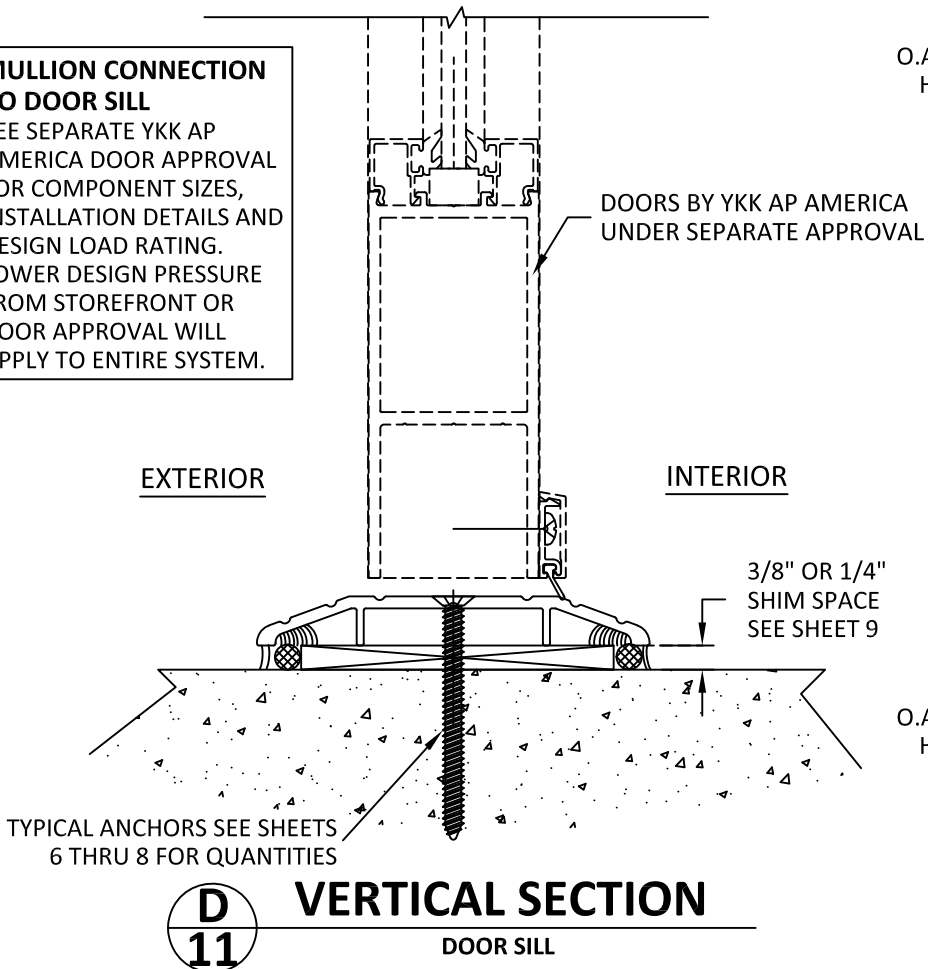
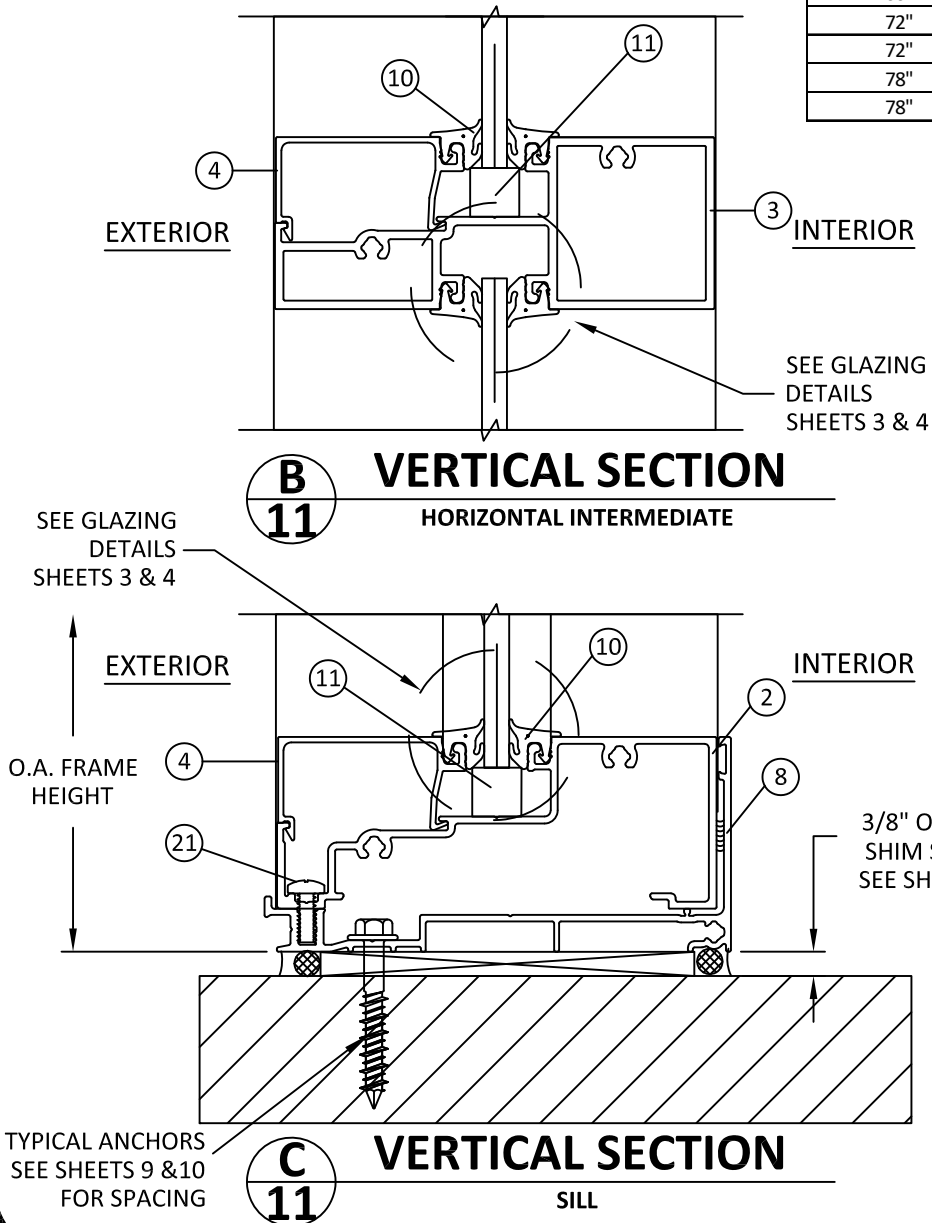
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LIMIT DESIGN LOADS FOR HORIZONTAL AS FOLLOWS		
MAX HORIZ. SPAN	MAX GLASS HEIGHT ABOVE HORIZ.	MAX DESIGN LOADS
54"	66"	90 PSF
54"	84"	85 PSF
60"	66"	70 PSF
60"	84"	65 PSF
66"	66"	50 PSF
66"	84"	42 PSF
72"	66"	36 PSF
72"	84"	32 PSF
78"	66"	26 PSF
78"	84"	22 PSF



MULLION CONNECTION TO DOOR SILL
SEE SEPARATE YKK AP AMERICA DOOR APPROVAL FOR COMPONENT SIZES, INSTALLATION DETAILS AND DESIGN LOAD RATING. LOWER DESIGN PRESSURE FROM STOREFRONT OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.

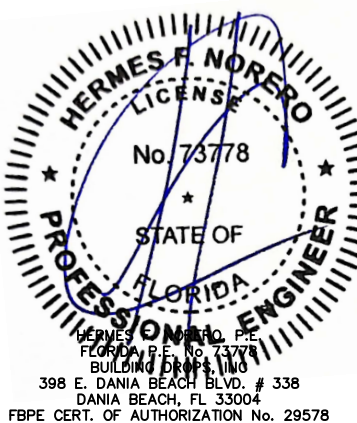


YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YES 45 FS
ALUMINUM STOREFRONT SYSTEM
(HVHZ) (NON-IMPACT)
VERTICAL 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

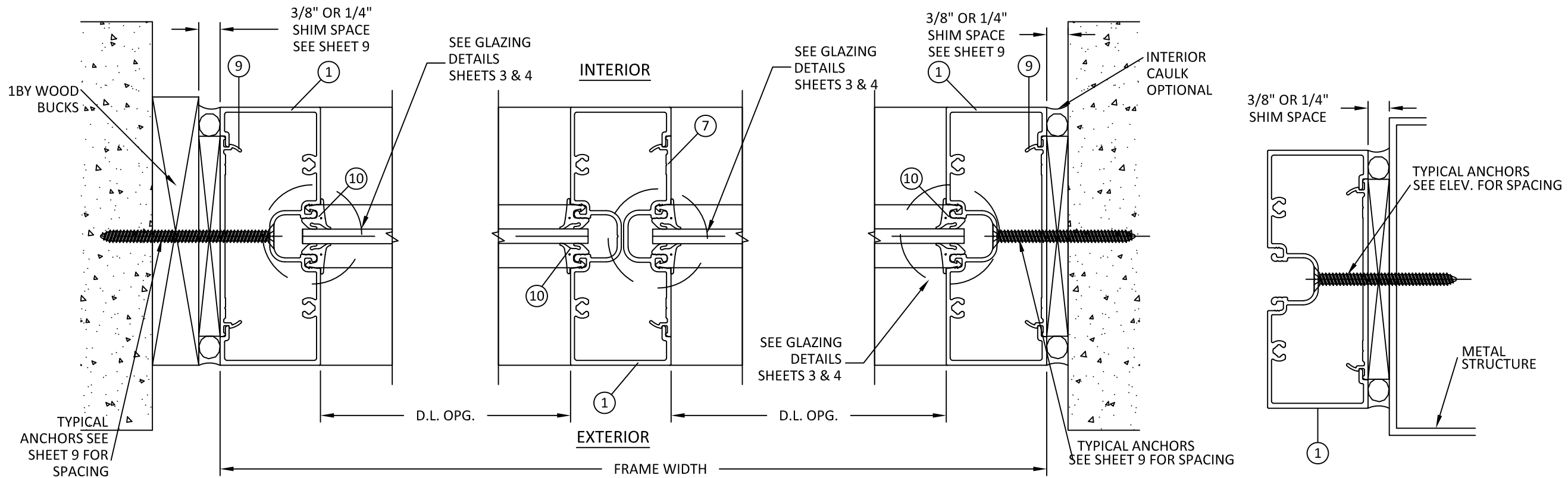
REMARKS	BY	DATE
A-VALIDATOR'S COMM.	AR	10.12.17
B-2023 FBC CODE UPDATE	MS	04.21.23
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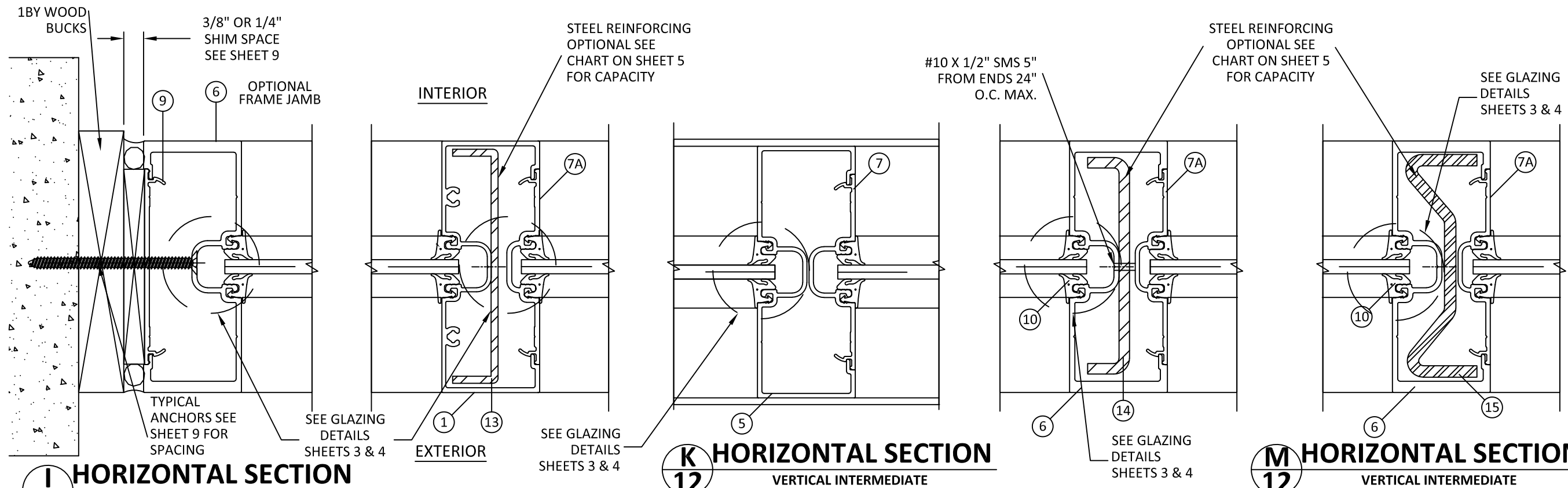
FL #:	FL12926
DATE:	08.10.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK217
SHEET:	11

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E 12 HORIZONTAL SECTION JAMB
F 12 HORIZONTAL SECTION VERTICAL INTERMEDIATE
G 12 HORIZONTAL SECTION JAMB
H 12 HORIZONTAL SECTION JAMB - OPTIONAL



I 12 HORIZONTAL SECTION JAMB
J 12 HORIZONTAL SECTION VERTICAL INTERMEDIATE
K 12 HORIZONTAL SECTION VERTICAL INTERMEDIATE
L 12 HORIZONTAL SECTION VERTICAL INTERMEDIATE
M 12 HORIZONTAL SECTION VERTICAL INTERMEDIATE



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

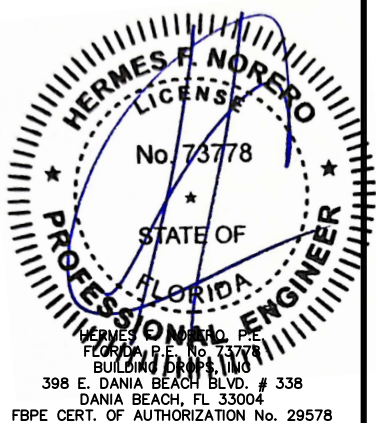
TITLE: YES 45 FS
ALUMINUM STOREFRONT SYSTEM
(HVHZ) (NON-IMPACT)
HORIZONTAL SECTIONS

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REMARKS	BY	DATE
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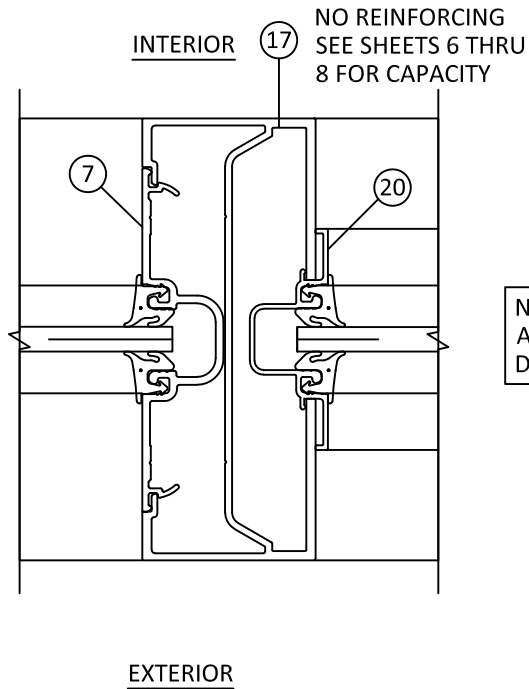
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FL #:	FL12926
DATE:	08.10.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK217
SHEET:	12

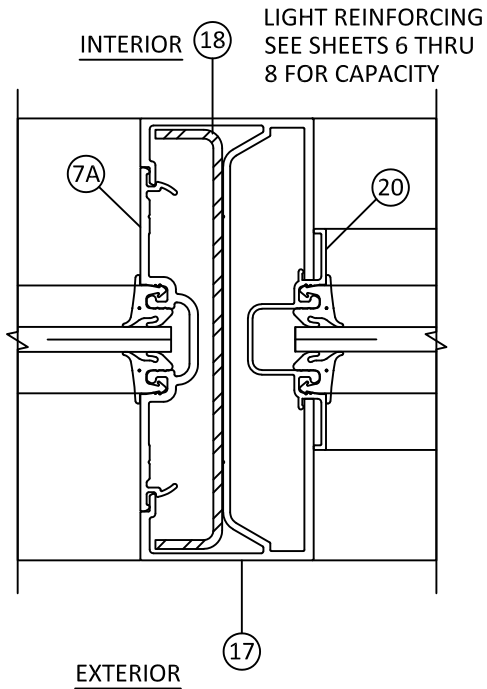
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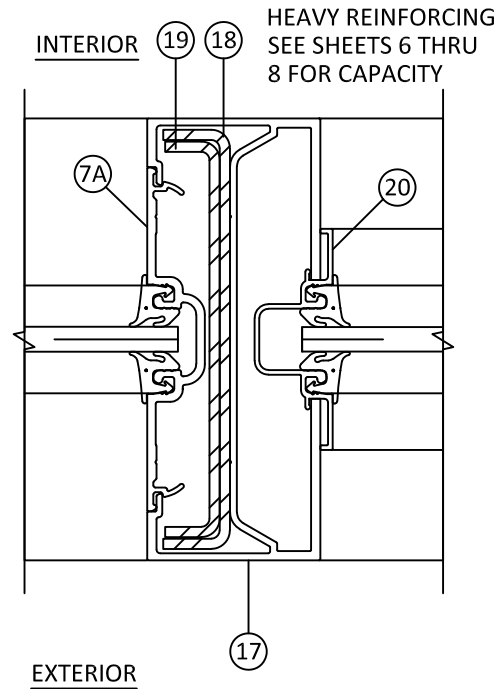
N
13 **HORIZONTAL SECTION**
VERTICAL INTERMEDIATE
NO REINFORCEMENT

NOTE: SEE YKK AP AMERICA DOOR APPROVAL FOR DOOR RATING AND DETAILS.

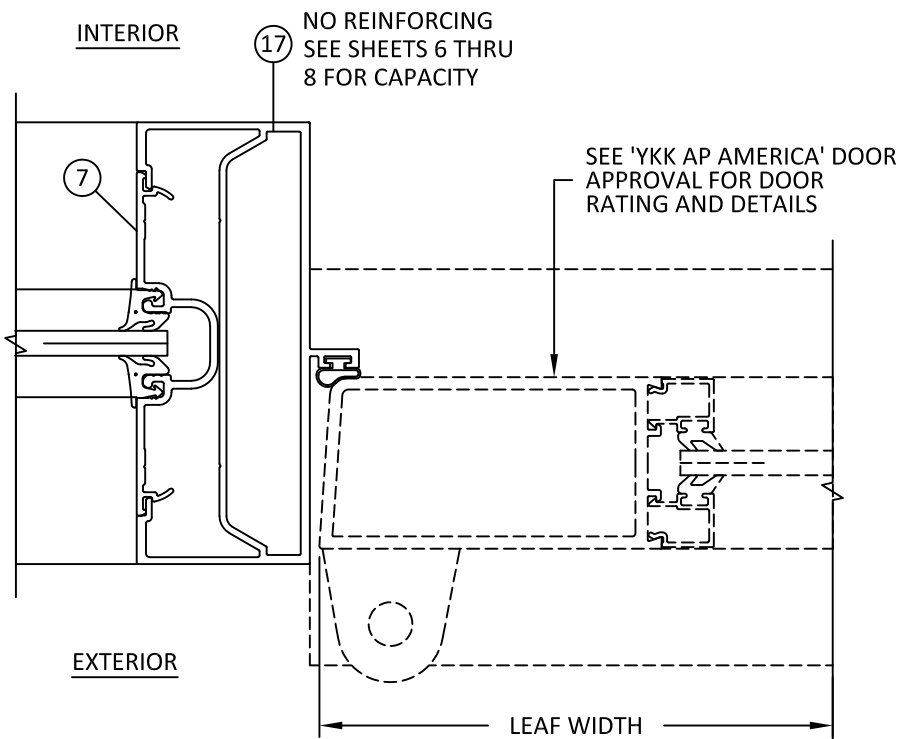


O
13 **HORIZONTAL SECTION**
VERTICAL INTERMEDIATE
LIGHT REINFORCEMENT

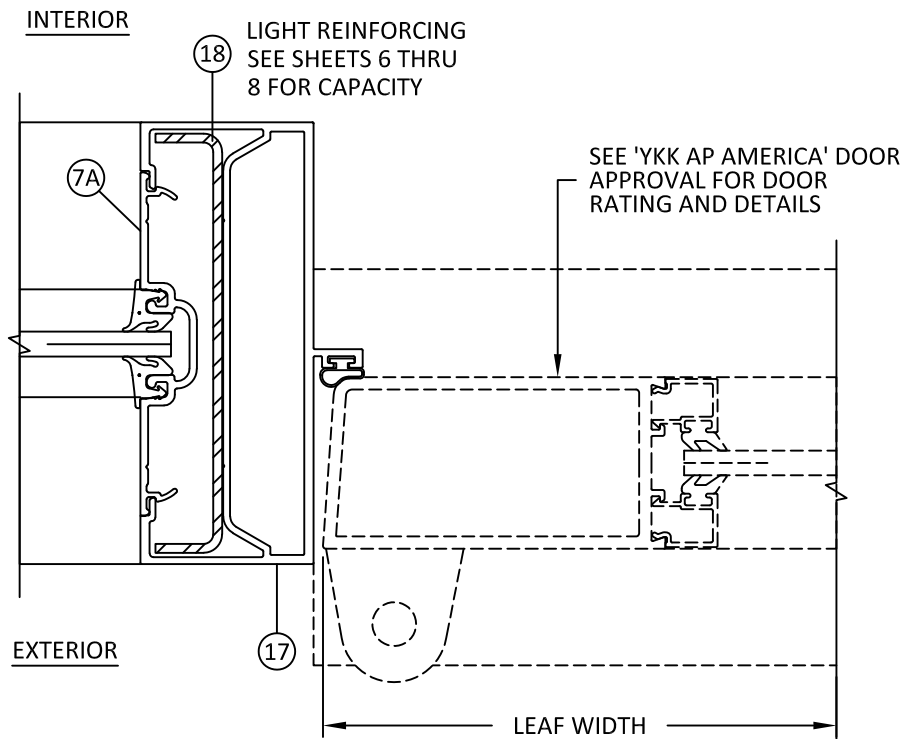
NOTE: WHERE REINFORCEMENT (ITEM #18 OR 19) IS USED ADJACENT TO DOOR OPENING, USE SHALLOW POCKET FILLER (ITEM #7A) . AT OPPOSITE SIDE OF DLO, USE OF THE DEEP POCKET FILLER (ITEM #7) OR MULLION (ITEM #1, 5 OR 6) IS REQUIRED.



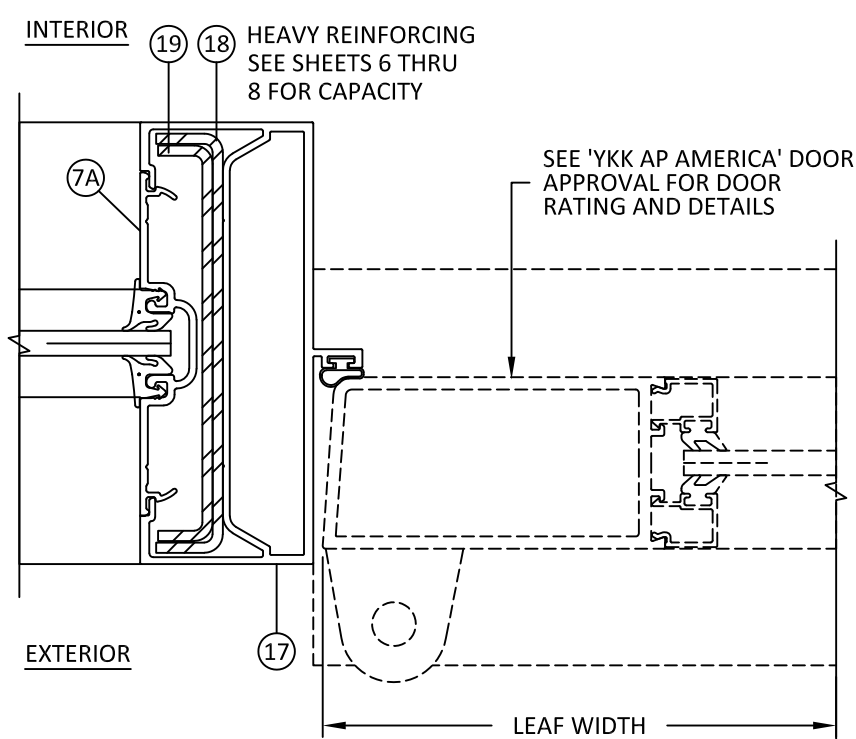
P
13 **HORIZONTAL SECTION**
VERTICAL INTERMEDIATE
HEAVY REINFORCEMENT



Q
13 **HORIZONTAL SECTION**
VERTICAL INTERMEDIATE
NO REINFORCEMENT



R
13 **HORIZONTAL SECTION**
VERTICAL INTERMEDIATE
LIGHT REINFORCEMENT



S
13 **HORIZONTAL SECTION**
VERTICAL INTERMEDIATE
HEAVY REINFORCEMENT



YKK AP AMERICA

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

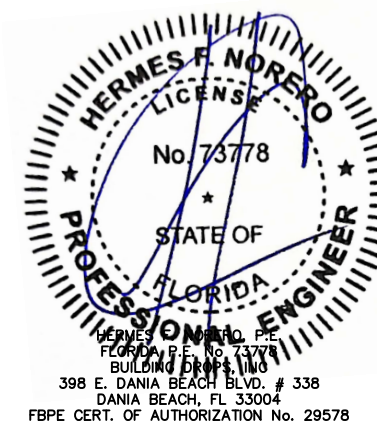
TITLE: YES 45 FS
ALUMINUM STOREFRONT SYSTEM
(HVHZ) (NON-IMPACT)
HORIZONTAL SECTIONS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
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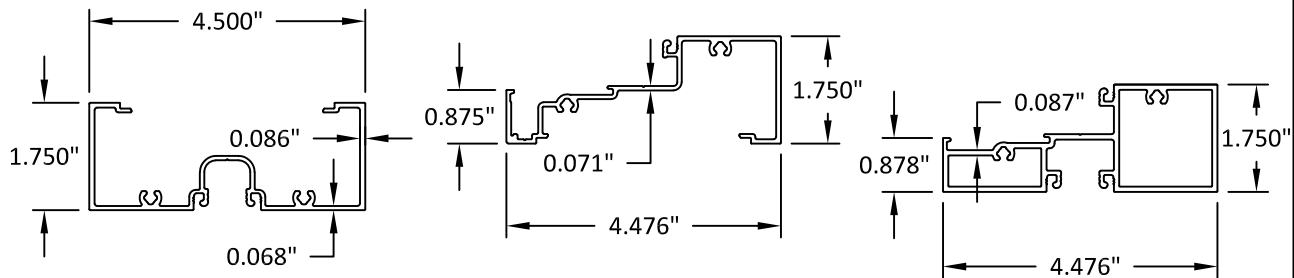
REMARKS	BY	DATE
A-VALIDATOR'S COMM.	AR	10.12.17
B-2023 FBC CODE UPDATE	MS	04.21.23

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FL #:	FL12926
DATE:	08.10.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK217
SHEET:	13

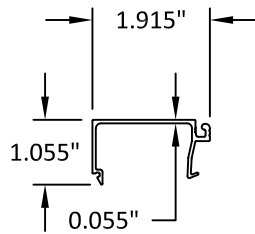
BILL OF MATERIALS				
ITEM	PART No.	DESCRIPTION	MATERIAL	MANUF./SUPPLIER/REMARKS
1	E9-1003	HEAD/ JAMB/ MULLION	6063-T5	YKK AP AMERICA
2	E9-1069	SILL	6063-T5	YKK AP AMERICA
3	E9-1006	HORIZONTAL	6063-T5	YKK AP AMERICA
4	E9-1005	GLASS STOP	6063-T5	YKK AP AMERICA
5	E9-1001	JAMB / VERTICAL	6063-T5	YKK AP AMERICA
6	E9-1059	HD VERTICAL	6063-T5	YKK AP AMERICA
7	E9-1009	DEEP POCKET FILLER	6063-T5	YKK AP AMERICA
7A	E9-1002	SHALLOW POCKET FILLER	6063-T5	YKK AP AMERICA
8	E9-1068	SILL FLASHING	6063-T5	YKK AP AMERICA
9	E1-1054	SNAP IN COVER 2½" LONG	6063-T5	YKK AP AMERICA
10	E2-0052	GLAZING GASKET	EPDM	-
11	E2-0019	SETTING BLOCK	EPDM	-
12	PC-1216	ASSEMBLY SCREWS	CRS	#12 X 1" PPH SMS
13	E1-0181	REINFORCING CHANNEL	STEEL	.813 X 4.188 X .813 X .125 THK
14	E1-0184	REINFORCING CHANNEL	STEEL	.750 X 3.875 X .750 X .188 THK
15	-	REINFORCING CHANNEL	STEEL	1.313 X 3.976 X 1.313 x .188 THK
16	PC-1220	ASSEMBLY SCREWS	ZINC PLATED STEEL	#12 X 1-1/4" PPH SMS
17	E9-0421	DOOR JAMB	6063-T5	YKK AP AMERICA
18	E1-0194	REINFORCING CHANNEL (Fy=38 KSI)	STEEL	.679 X 4.269 X .679 X .104"
19	E1-0193	REINFORCING CHANNEL (Fy=38 KSI)	STEEL	.556 X 4.028 X .556 X .104"
20	E9-0434	TRANSOM GLAZING POCKET	6063-T5	YKK AP AMERICA
21	PM-1008-SS	# 10 X 1/2" PHMS	STAINLESS STEEL	-
22	E2-0051	AIRTIGHT GASKET	SANTOPRENE	-
23	E2-0019	SETTING BLOCK	EPDM	-
24	E9-0403	TRANSOM GLAZING STOP	6063-T5	YKK AP AMERICA
25	E9-0402	SINGLE ACTING TRANSOM BAR	6063-T5	YKK AP AMERICA



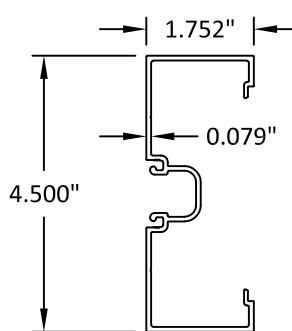
1 HEAD/JAMB/ MULLION

2 SILL

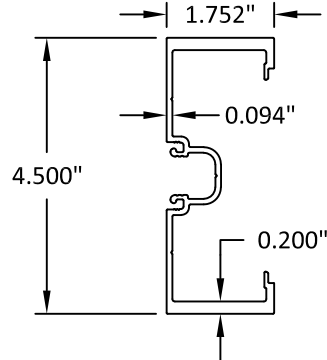
3 HORIZONTAL



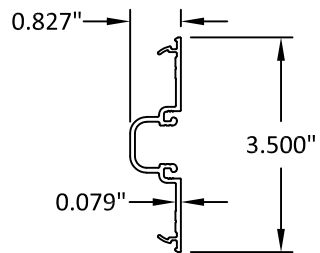
4 GLASS STOP



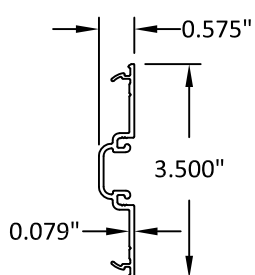
5 JAMB/VERTICAL



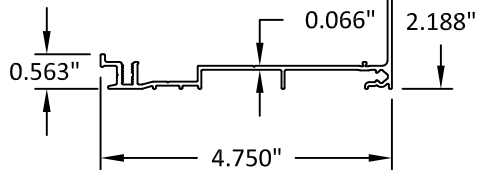
6 HD VERTICAL



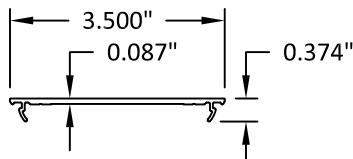
7 DEEP POCKET FILLER



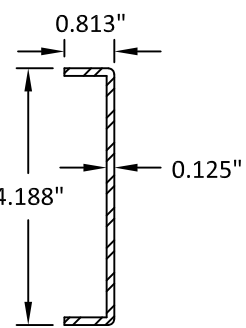
7A SHALLOW POCKET FILLER



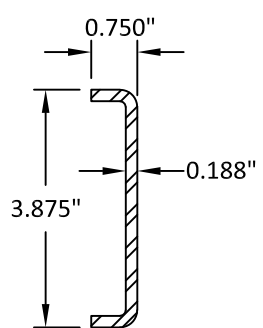
8 SILL FLASHING



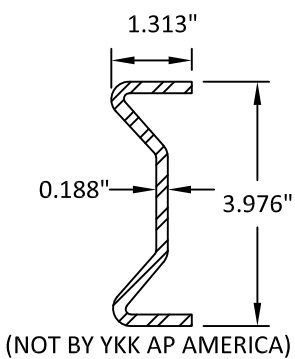
9 SNAP IN COVER



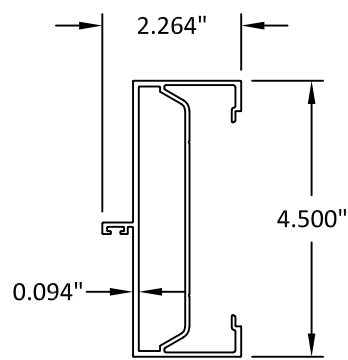
13 REINFORCING CHANNEL



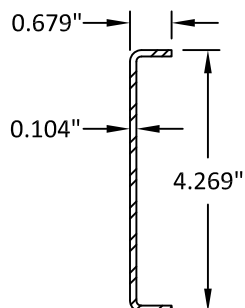
14 REINFORCING CHANNEL



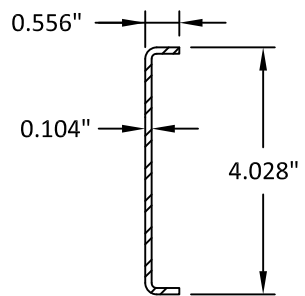
15 REINFORCING CHANNEL



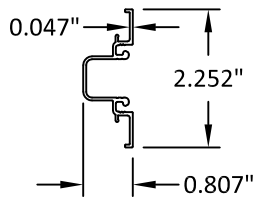
17 DOOR JAMB



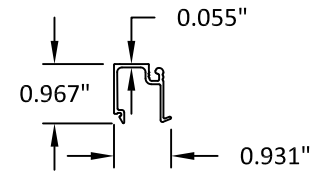
18 DOOR MULLION REINFORCING CHANNEL



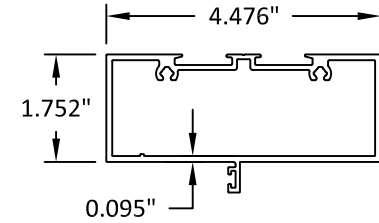
19 DOOR MULLION REINFORCING CHANNEL



20 TRANSOM GLAZING POCKET



20 TRANSOM GLAZING STOP



21 SINGLE ACTING TRANSOM BAR



YKK AP AMERICA

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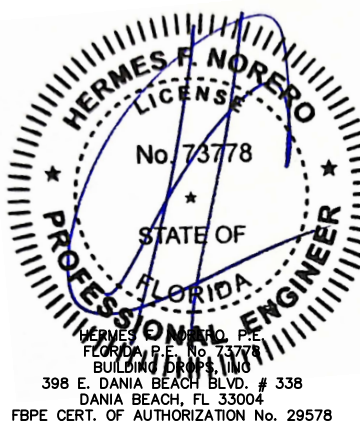
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COMPONENTS & BILL OF MATERIALS

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