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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 ±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.
 - FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).
 - CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).
- 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 501-25
 - ASTM E283-19
 - ASTM E330-14
 - ASTM E331-00(23)
 - 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.

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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 & 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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YKK AP AMERICA

101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303

PH: (478)277-1955 FAX: (678)838-6001

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

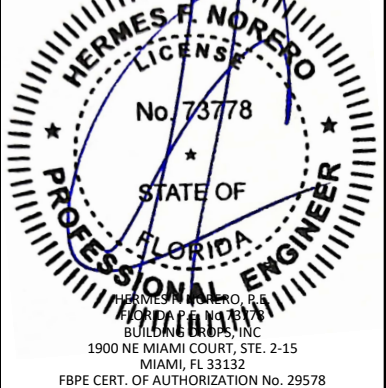
PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
VALIDATOR'S COMM.	AR	10.12.17
2023 FBC CODE UPDATE	MS	04.21.23
2026 FBC CODE UPDATE	SH	07.06.26

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.

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.08.01 16:13:11 -04'00'



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SCALE:

NTS

DWG. #:

YKK217

SHEET:

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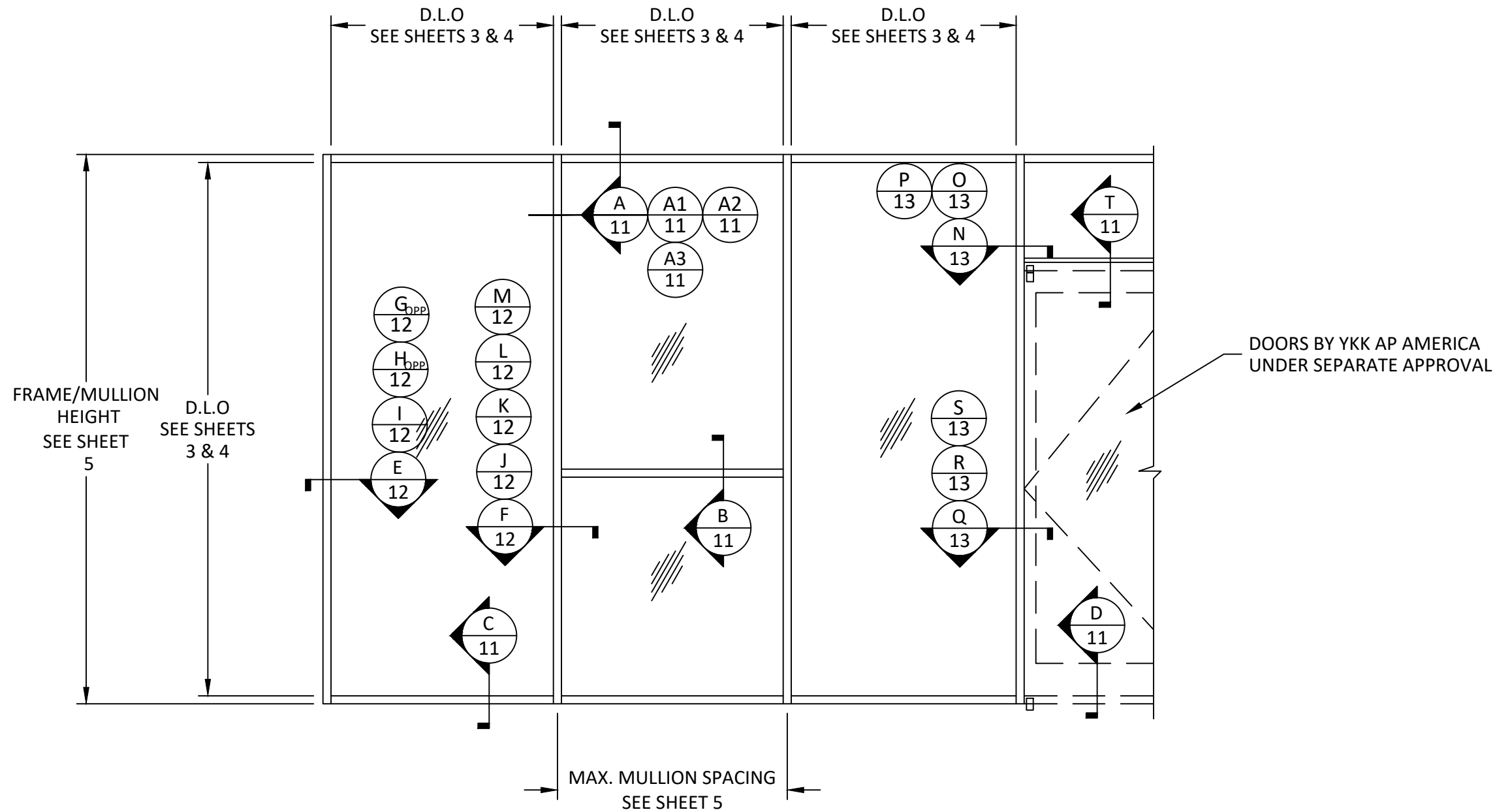
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ELEVATION
TYPICAL YES 45 FS STOREFRONT

MONOLITHIC GLASS
NON-IMPACT



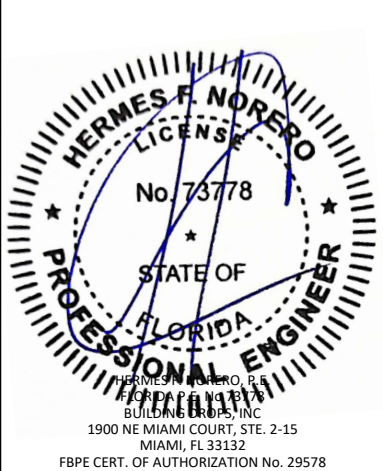
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TITLE: YES 45 FS
ALUMINUM STOREFRONT SYSTEM
(HVHZ) (NON-IMPACT)
ELEVATION

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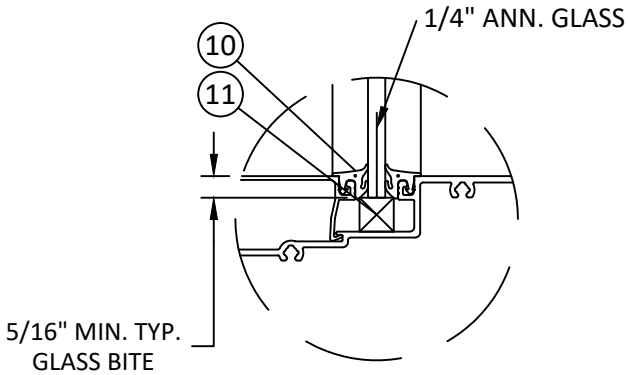
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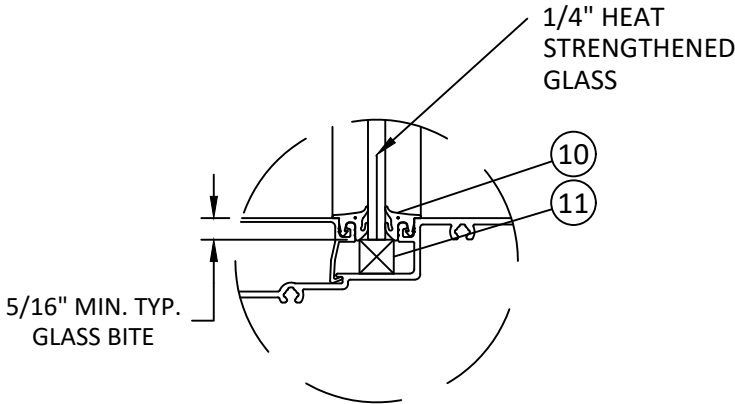
GLASS LOAD TABLE

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	33	76.1
18		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	36	81.2
48		76.6
18		120.0
21		120.0
24		120.0
27		119.0
30		109.0
33		101.0
36		95.6
39		88.5
42	39	82.1
45		78.2
18		120.0
21		120.0
24		120.0
27		108.0
30		100.0
33		94.0
36		88.5
39		84.0
42	42	79.3
18		120.0
21		120.0
24		110.0
27		100.0
30		93.2
33		86.9
36		82.1
39		79.3

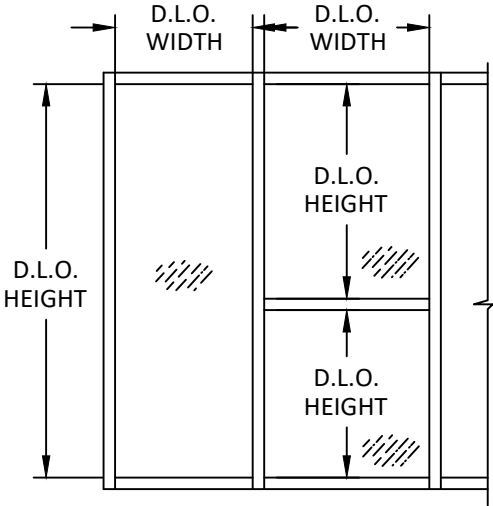
GLASS LOAD CAPACITY (PSF)		
NOMINAL DIMS. (in)		1/4" ANNEALED
DLO WIDTH	DLO HEIGHT	EXT. (+) INT. (-)
18	45	120.0
21		120.0
24		104.0
27		93.5
30		85.9
33		81.2
36		78.2
18	48	120.0
21		120.0
24		99.4
27		87.2
30		80.5
33		76.6
18	51	120.0
21		117.0
24		95.0
27		82.3
30		76.1
18	54	120.0
21		113.0
24		90.9
27		78.6
18	57	120.0
21		109.0
24		87.4
27		75.1
18	60	120.0
21		106.0
24		84.2
27		71.8
18	63	120.0
21		103.0
24		82.1
18	66	120.0
21		102.0
24		80.3
18	69	120.0
21		100.0
18	72	120.0
21		98.7
18	75	120.0
21		97.3
18	78	120.0
21		96.1
18	81	120.0
18	84	120.0



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
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

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	72	80.0
54		75.5
30		85.3
33		108.0
36		96.4
39		91.6
42		88.9
45	78	87.5
48		84.9
51		80.0
30		101.0
33		89.6
36		83.2
39		80.4
42	84	79.4
45		78.8
30		97.2
33		83.7
36		77.5
39		74.4
42		72.7

- 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.

YKK AP AMERICA
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ALUMINUM STOREFRONT SYSTEM
(HVHZ) (NON-IMPACT)
GLASS LOAD TABLE &
GLAZING DETAILS

PREPARED BY:
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REMARKS

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HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

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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	84	75.5
57		71.5
60		68.0
63		64.7
66		61.8
69		59.1
72		56.6
75		53.3
78		50.0
81		46.7
84		43.3

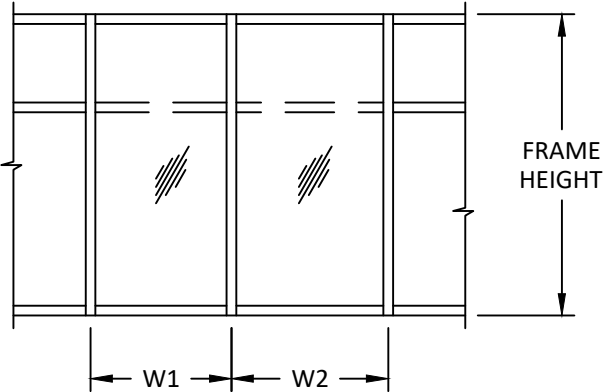
GLASS LOAD CAPACITY (PSF)			
NOMINAL DIMS. (in)		1/4" TEMP.	
DLO WIDTH	DLO HEIGHT	EXT. (+) INT. (-)	
30	90	112.7	
33		104.5	
36		97.8	
39		92.2	
42		87.5	
45		83.5	
48		80.0	
51		77.1	
54		74.5	
57		71.5	
60		68.0	
30		96	111.3
33	103.1		
36	96.3		
39	90.7		
42	85.9		
45	81.8		
48	78.3		
51	75.2		
54	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	

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MULLION LOAD TABLES

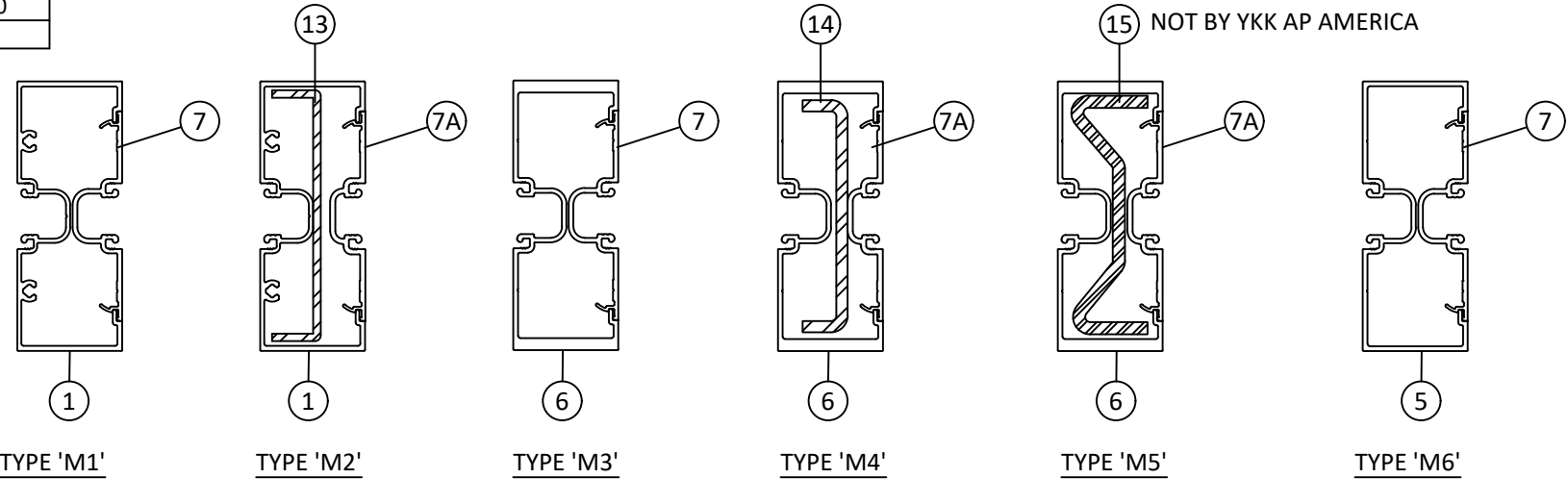
DESIGN LOAD CAPACITY - PSF							
NOMINAL DIMS.		TYPE 'M1'	TYPE 'M2'	TYPE 'M3'	TYPE 'M4'	TYPE 'M5'	TYPE 'M6'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
24	72	120.0	120.0	120.0	120.0	120.0	75.0
30		105.4	120.0	120.0	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	78	-	77.5	-	78.9	115.5	25.0
78		-	71.5	-	72.8	106.6	-
24		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	84	-	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		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	90	-	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		90.4	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	96	-	66.1	-	84.2	98.5	26.7
60		-	59.5	-	75.7	88.7	-
24		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



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Quality
inspires™

YKK AP AMERICA
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
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.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
VALIDATOR'S COMM.	AR	10.12.17
2023 FBC CODE UPDATE	MS	04.21.23
2026 FBC CODE UPDATE	SH	07.06.26

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

HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL12926

DATE:
08.10.17

DWG. BY:
RV

CHK. BY:
HFN

SCALE:
NTS

DWG. #:
YKK217

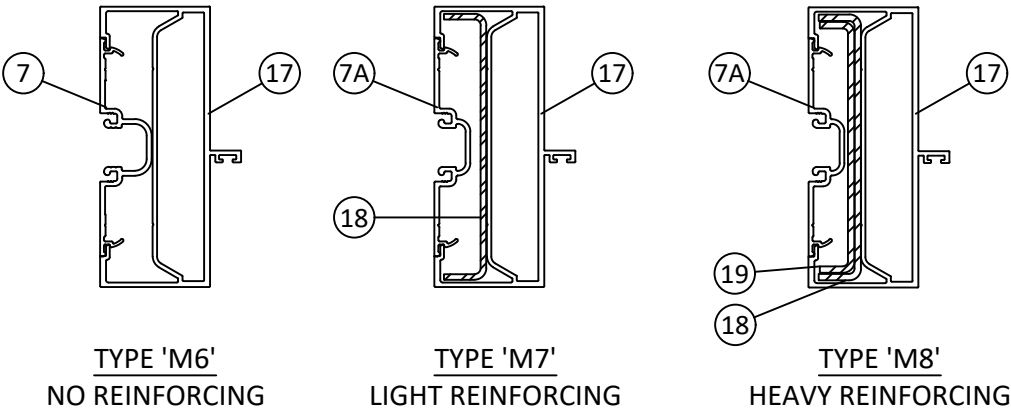
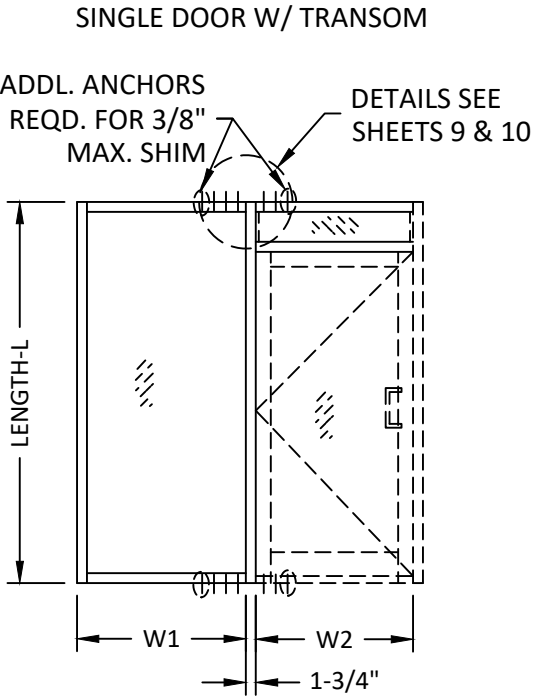
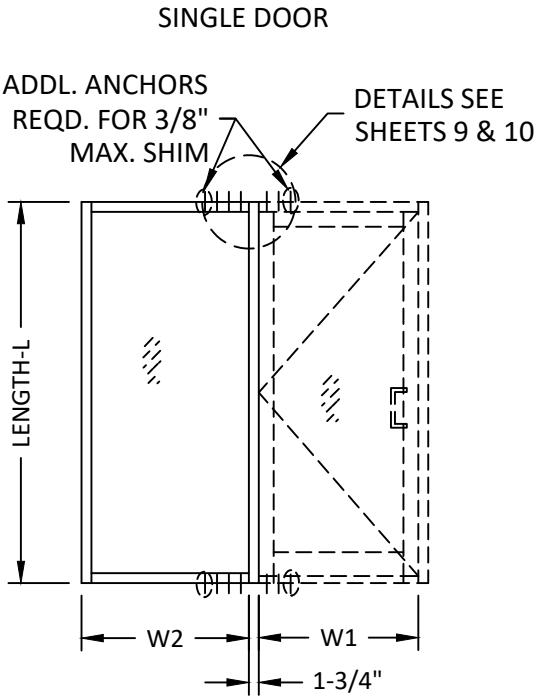
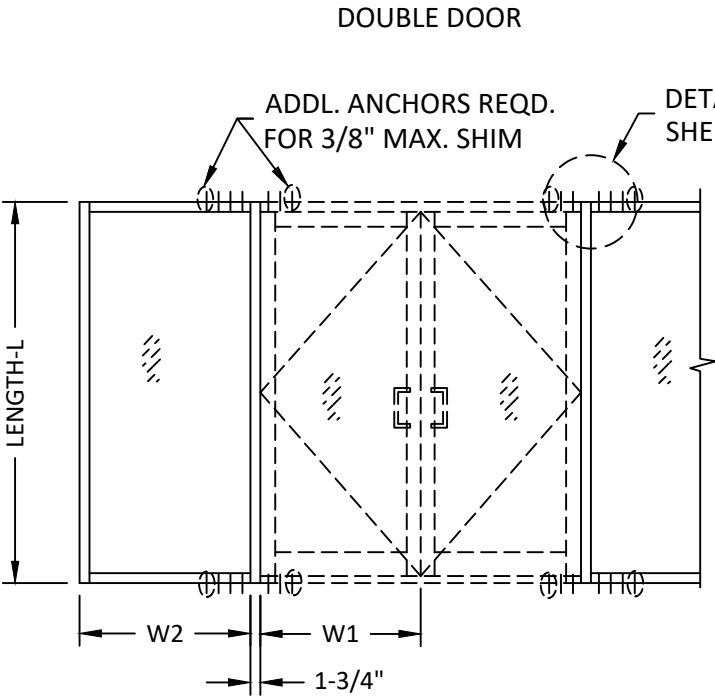
SHEET:
5

REV.
C

OF 14

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.



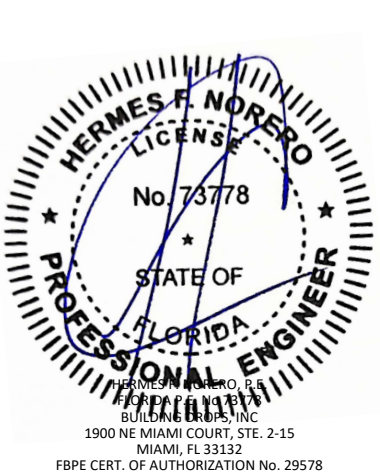
YKK AP AMERICA
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

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

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
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2026 FBC CODE UPDATE	SH	07.06.26

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DATE:	08.10.17
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RV	HFN
SCALE:	NTS
DWG. #:	YKK217
SHEET:	REV.
6	C

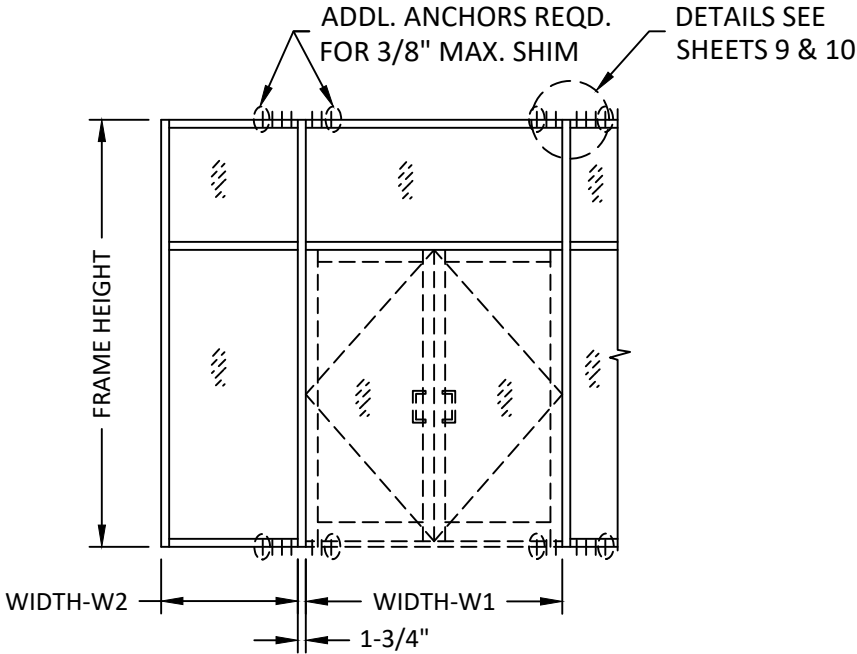
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DOOR MULLION LOAD TABLE

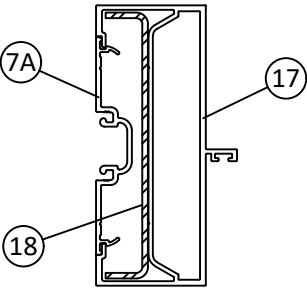
LIGHT REINFORCING

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
	60		42.8
66	30		53.5
	36		50.4
	42		47.6
	48		45.1
	54		42.8
	60		40.8
72	30		50.4
	36		47.6
	42		45.1
	48		42.8
	54		40.8
	60		38.9
84	30		45.1
	36		42.8
	42		40.8
	48		38.9
60	30	108	50.9
	36		47.7
	42		44.9
	48		42.4
	54		40.2
	60		38.2
66	30		47.7
	36		44.9
	42		42.4
	48		40.2
	54		38.2
	60		36.4
72	30		44.9
	36		42.4
	42		40.2
	48		38.2
	54		36.4
	60		40.2
84	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
	60		34.3
66	30		42.8
	36		40.3
	42		38.1
	48		36.1
	54		34.3
	60		40.3
72	30		40.3
	36		38.1
	42		36.1
84	30		34.3
	36		36.1
	42		34.3
60	30	120	41.2
	36		38.7
	42		36.4
	48		34.4
	54		32.5
	60		38.7
66	30		38.7
	36		36.4
	42		34.4
72	30		32.5
	36		36.4
	42		34.4
84	30		32.5
	36		32.5



DOUBLE DOOR W/ TRANSOM



TYPE 'M7'
LIGHT REINFORCING

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

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
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

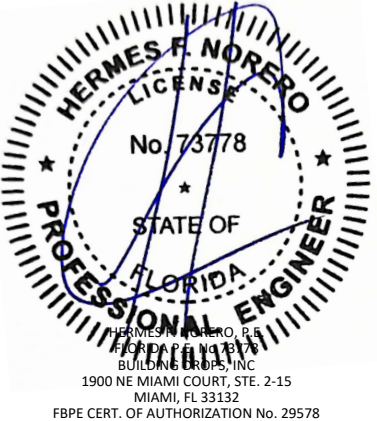
TITLE: YES 45 FS
ALUMINUM STOREFRONT SYSTEM
(HVHZ) (NON-IMPACT)
DOOR MULLION LOAD TABLES

PREPARED BY:
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1900 NE MIAMI COURT, STE. 2-15
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REMARKS	BY	DATE
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FL #: FL12926

DATE: 08.10.17

DWG. BY: RV
CHK. BY: HFN

SCALE: NTS

DWG. #: YKK217

SHEET: 7
REV. C

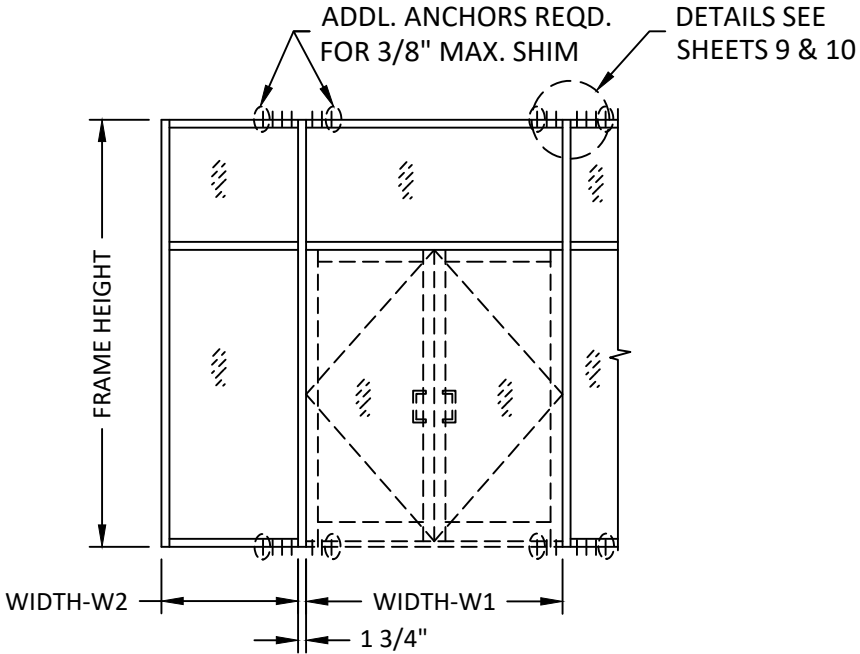
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DOOR MULLION LOAD TABLE

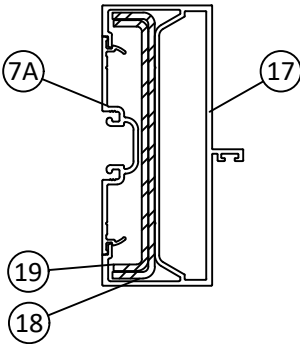
HEAVY REINFORCING

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
66	60		59.2
	30		74.0
	36		69.7
	42		65.8
	48		62.3
72	54		59.2
	60		56.4
	30		69.7
	36		65.8
	42		62.3
84	48		59.2
	54		56.4
	60		53.8
	30		62.3
	36		59.2
60	42	108	70.4
	36		66.0
	48		62.1
	54		58.7
	60		55.6
66	66		52.8
	30		66.0
	36		62.1
	42		58.7
	48		55.6
72	54		52.8
	60		50.3
	30		62.1
	36		58.7
	42		55.6
84	48		52.8
	54		50.3
	60		48.0
	30		55.6
	36		52.8
84	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
66	60		47.4
	30		59.3
	36		55.8
	42		52.7
	48		49.9
72	54		47.4
	60		45.1
	30		55.8
	36		52.7
	42		49.9
84	48		47.4
	54		45.1
	30	120	49.9
	36		47.4
	42		45.1
60	48		57.0
	36		53.5
	42		50.3
	54		47.5
	60		45.0
66	60		42.8
	30		53.5
	36		50.3
	42		47.5
	48		45.0
72	54		42.8
	60		40.3
	30		47.5
	36		45.0
	42		42.8
84	48		40.3
	30		45.0
84	36		42.8



DOUBLE DOOR W/ TRANSOM



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

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



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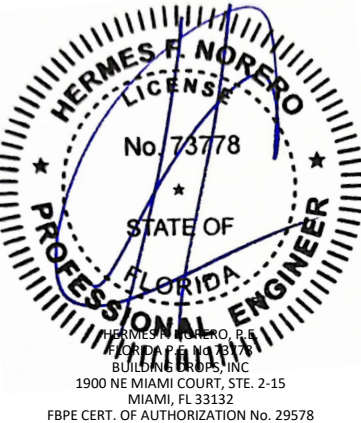
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

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

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
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REMARKS	BY	DATE
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HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL12926

DATE:

08.10.17

DWG. BY:

RV

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

YKK217

SHEET:

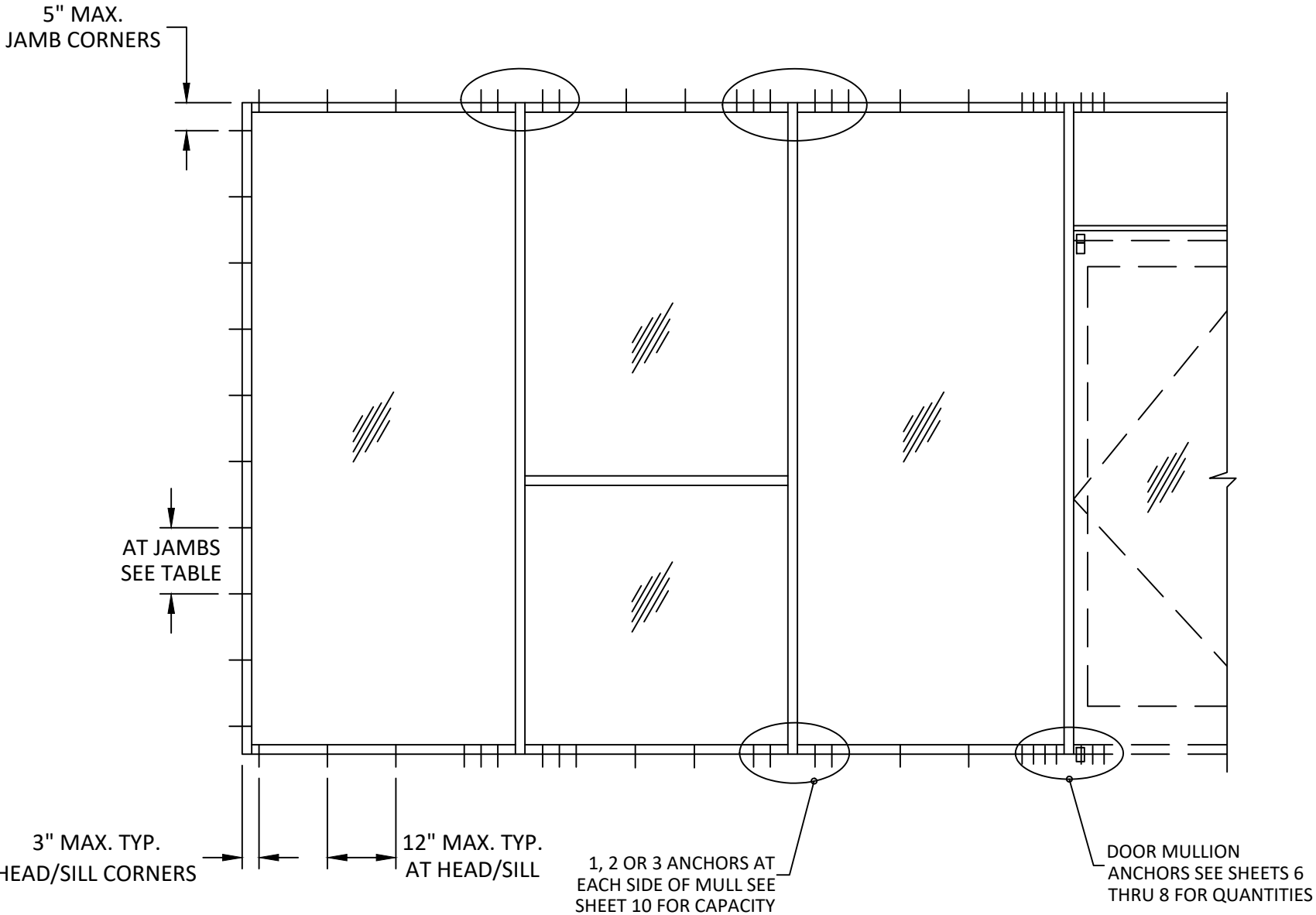
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REV.

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OF 14

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ANCHOR LAYOUT

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

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101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

YES 45 FS

ALUMINUM STOREFRONT SYSTEM (HVHZ) (NON-IMPACT)

ANCHOR LAYOUT

PREPARED BY:

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PH: (954)399-8478
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HERMES F. NORERO

LICENSE

No. 73778

STATE OF FLORIDA

PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.

BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

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DWG. BY:

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CHK. BY:

HFN

SCALE:

NTS

DWG. #:

YKK217

SHEET:

9

REV.

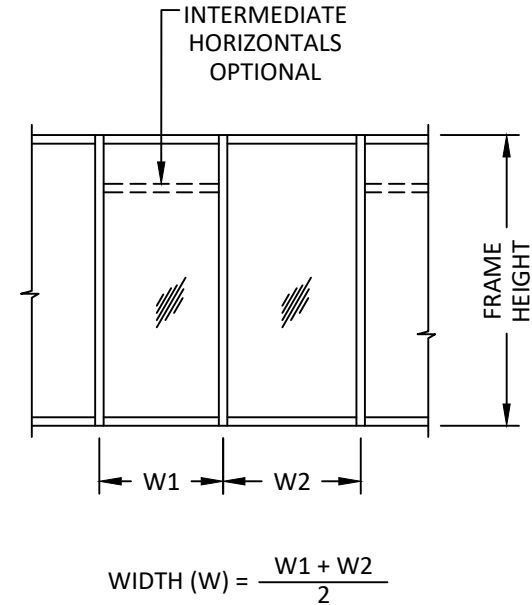
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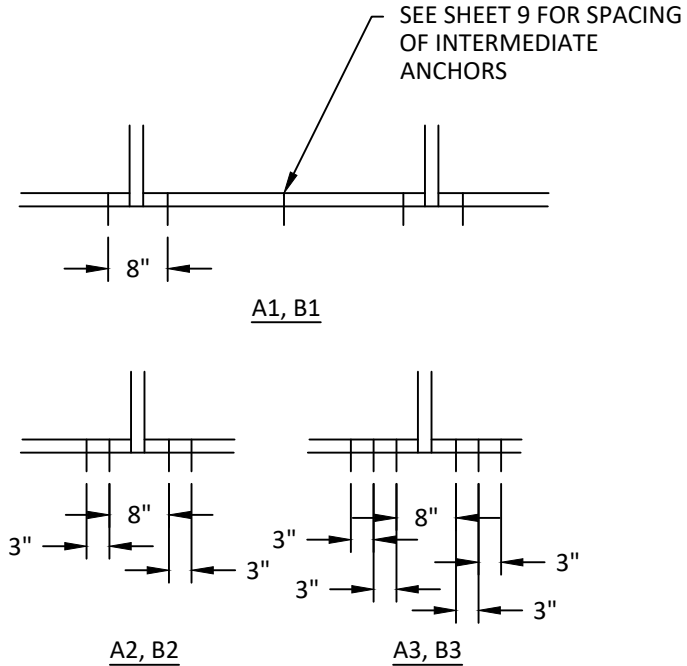
ANCHOR LOAD TABLE

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		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	78	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		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		84	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	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	90		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		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		96	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	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	102		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		108	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			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	114		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			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

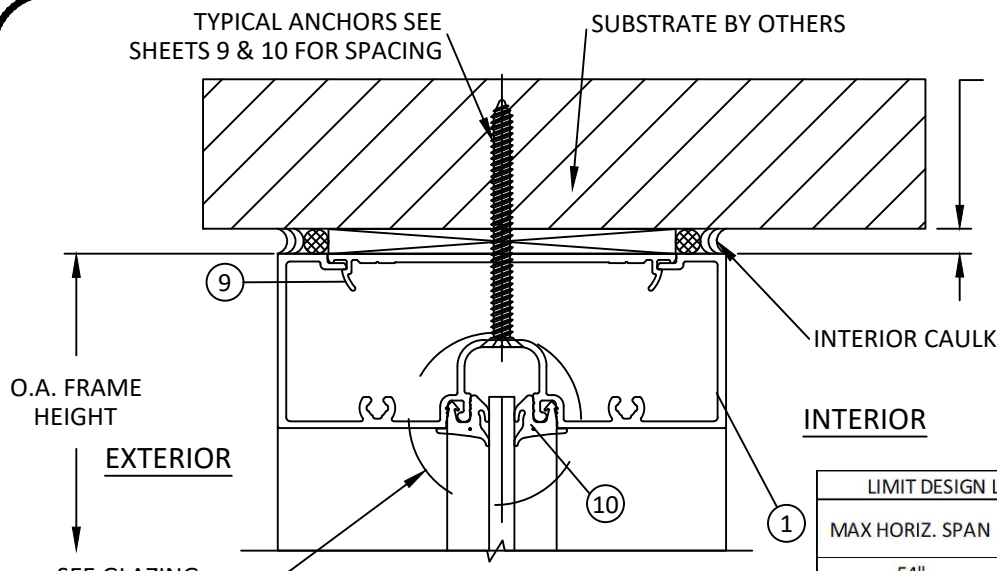


ANCHOR TYPES:
SEE SHEET 9 FOR DESCRIPTION

A1 = (1) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
B1 = (1) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION
A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
B2 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION
A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION

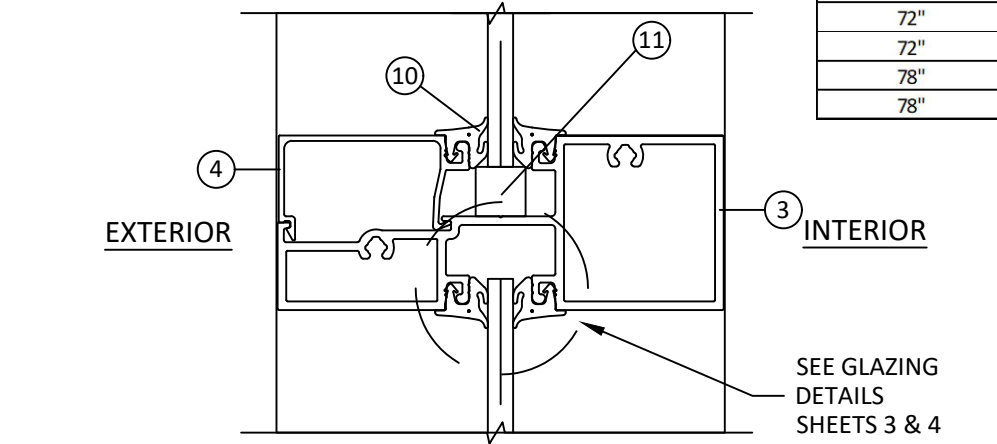


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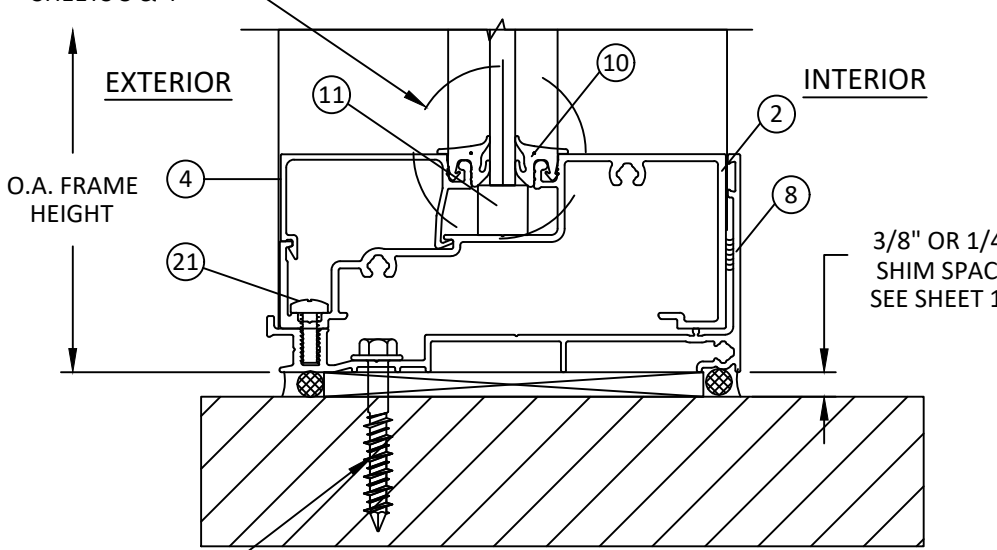
A
11

VERTICAL SECTION
HEAD - CONCRETE



B
11

VERTICAL SECTION
HORIZONTAL INTERMEDIATE



C
11

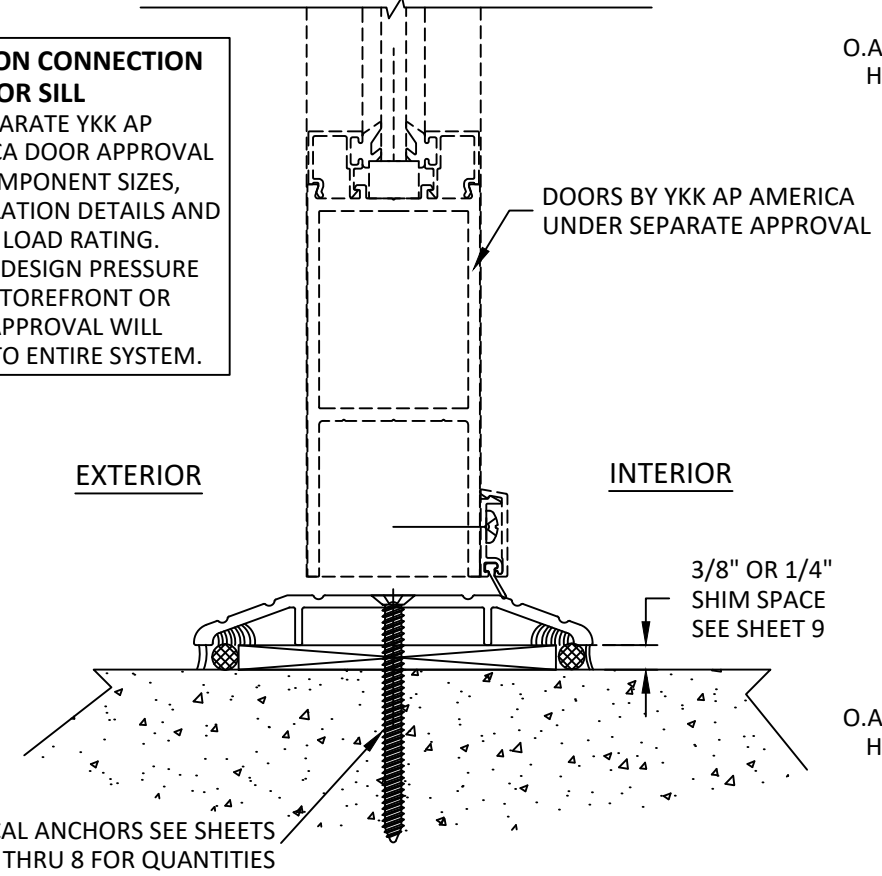
VERTICAL SECTION
SILL

LIMIT DESIGN LOADS FOR HORIZONTALS 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

T
11

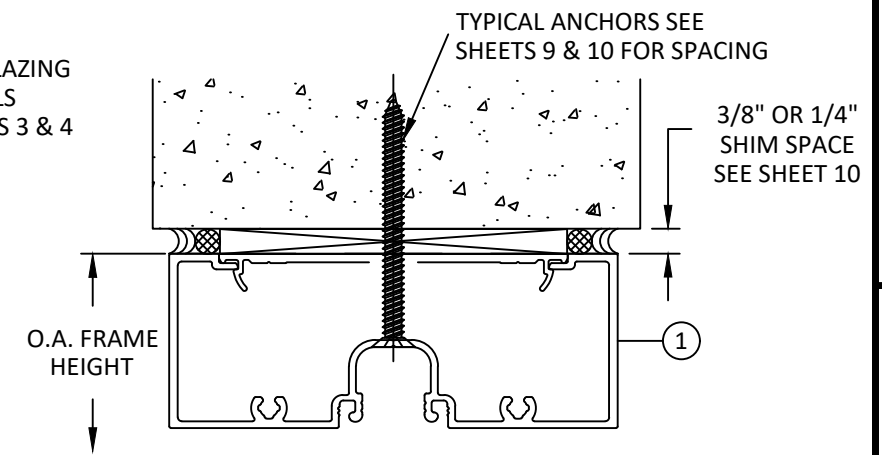
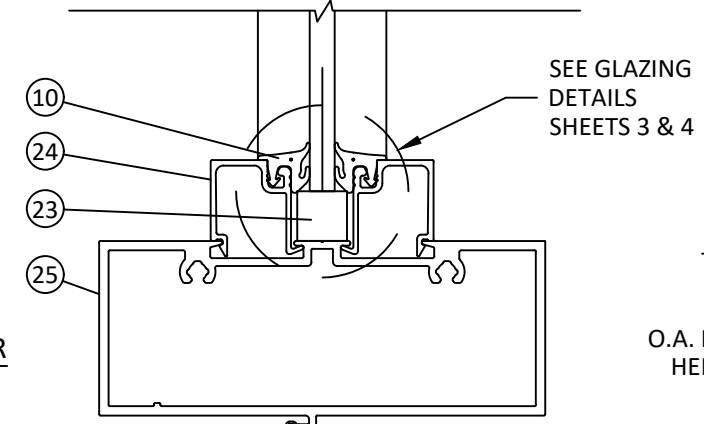
VERTICAL SECTION
DOOR HEAD W/ TRANSOM

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.



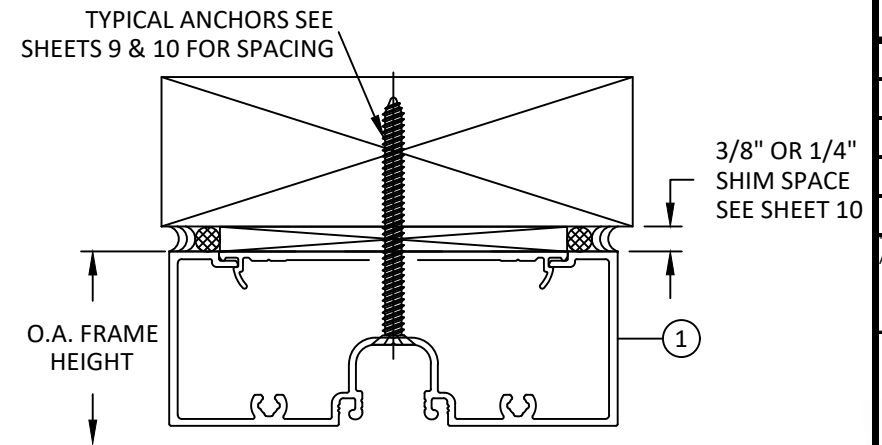
D
11

VERTICAL SECTION
DOOR SILL



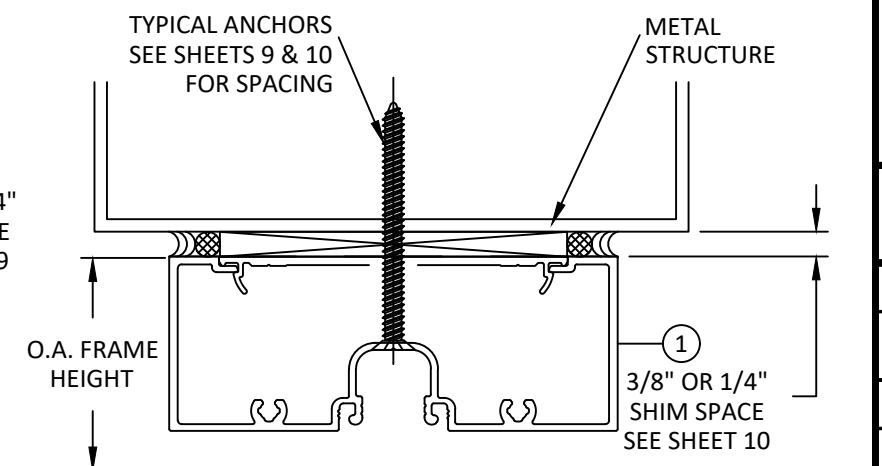
A1
11

VERTICAL SECTION
HEAD - CONCRETE



A2
11

VERTICAL SECTION
HEAD - 2X WOOD BUCK



A3
11

VERTICAL SECTION
HEAD - METAL

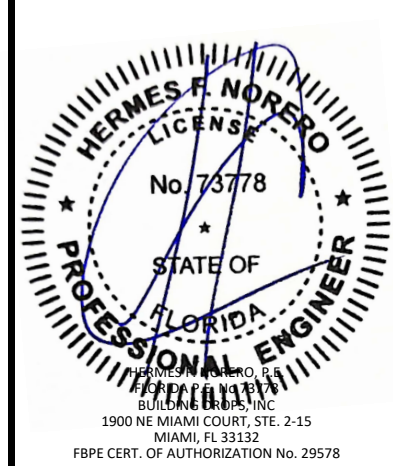


YKK AP AMERICA
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YES 45 FS
ALUMINUM STOREFRONT SYSTEM (HVHZ) (NON-IMPACT)
VERTICAL SECTIONS
PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
VALIDATOR'S COMM.	AR	10.12.17
2023 FBC CODE UPDATE	MS	04.21.23
2026 FBC CODE UPDATE	SH	07.06.26

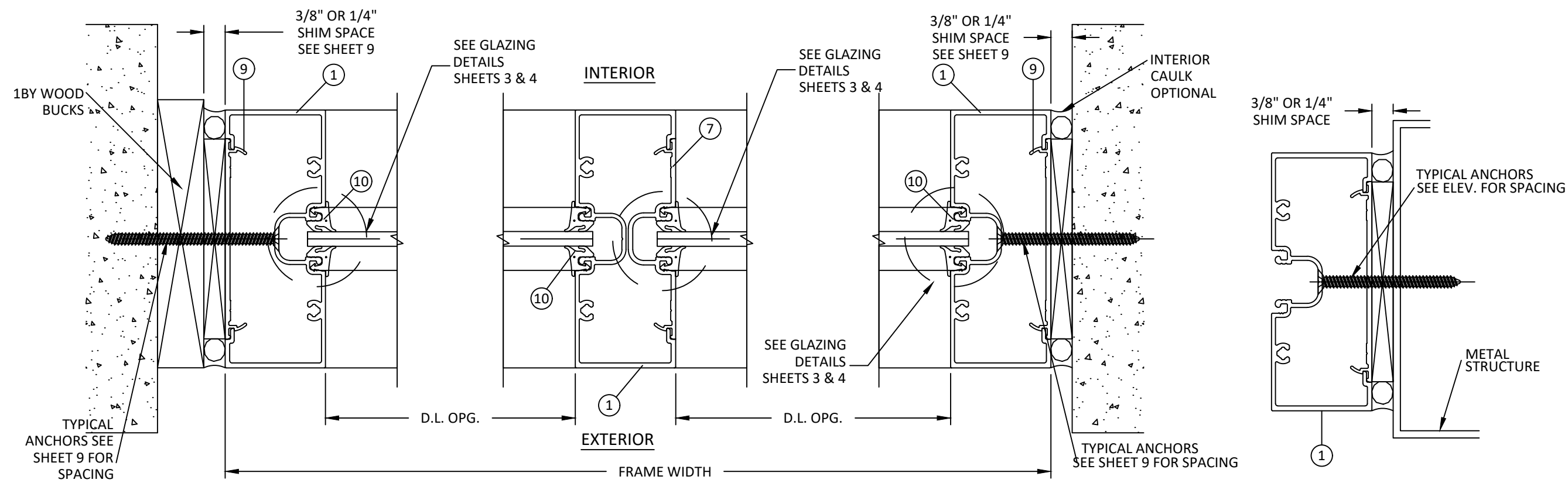
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



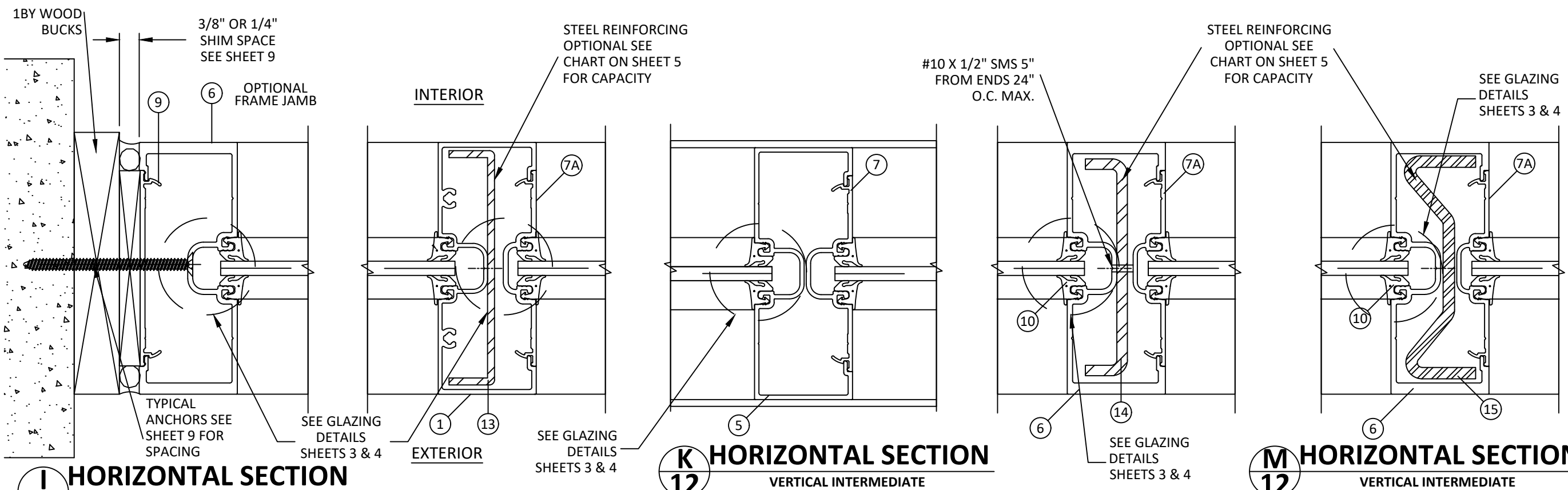
FL #:	FL12926	
DATE:	08.10.17	
DWG. BY:	RV	CHK. BY: HFN
SCALE:	NTS	
DWG. #:	YKK217	
SHEET:	11	REV. C

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



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



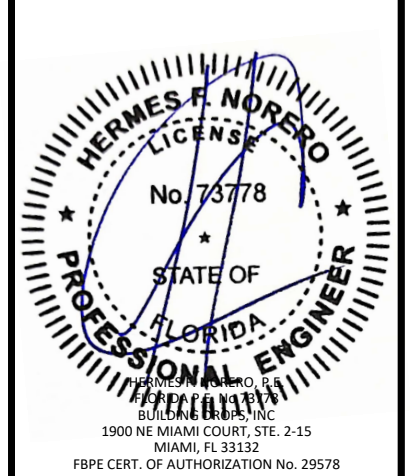
YKK AP AMERICA
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

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

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BUILDING DROPS, INC.
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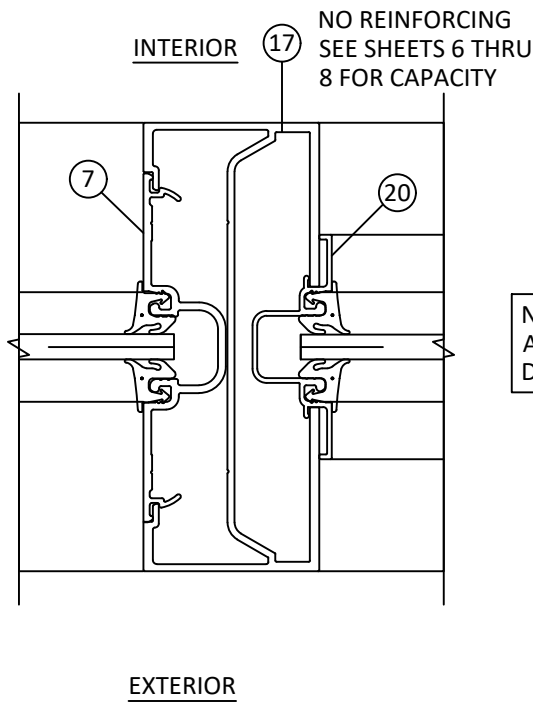
REMARKS	BY	DATE
VALIDATOR'S COMM.	AR	10.12.17
2023 FBC CODE UPDATE	MS	04.21.23
2026 FBC CODE UPDATE	SH	07.06.26

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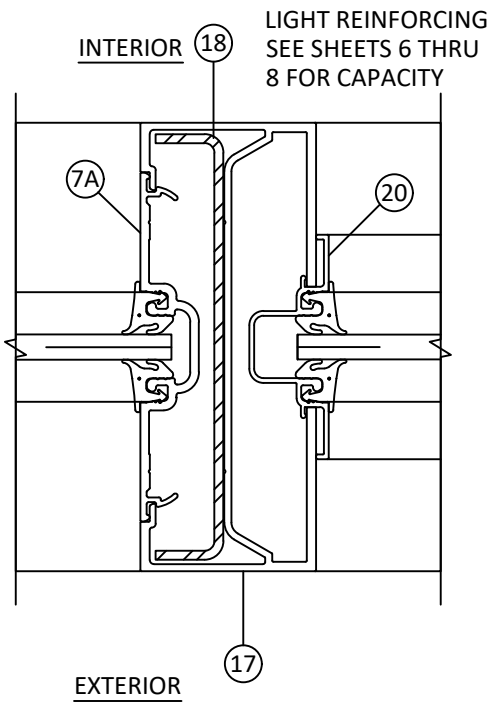


FL #:	FL12926
DATE:	08.10.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK217
SHEET:	12
REV.	C

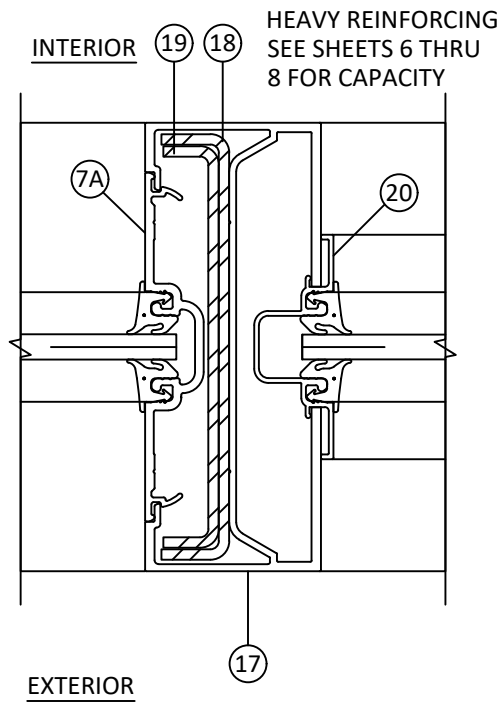
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NOTE: SEE YKK AP AMERICA DOOR APPROVAL FOR DOOR RATING AND DETAILS.



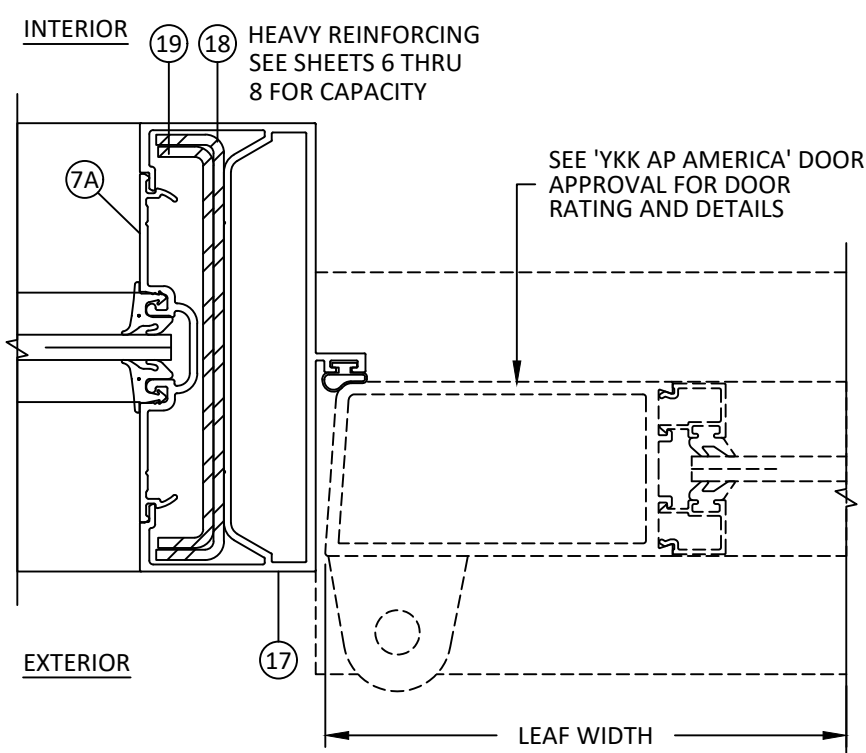
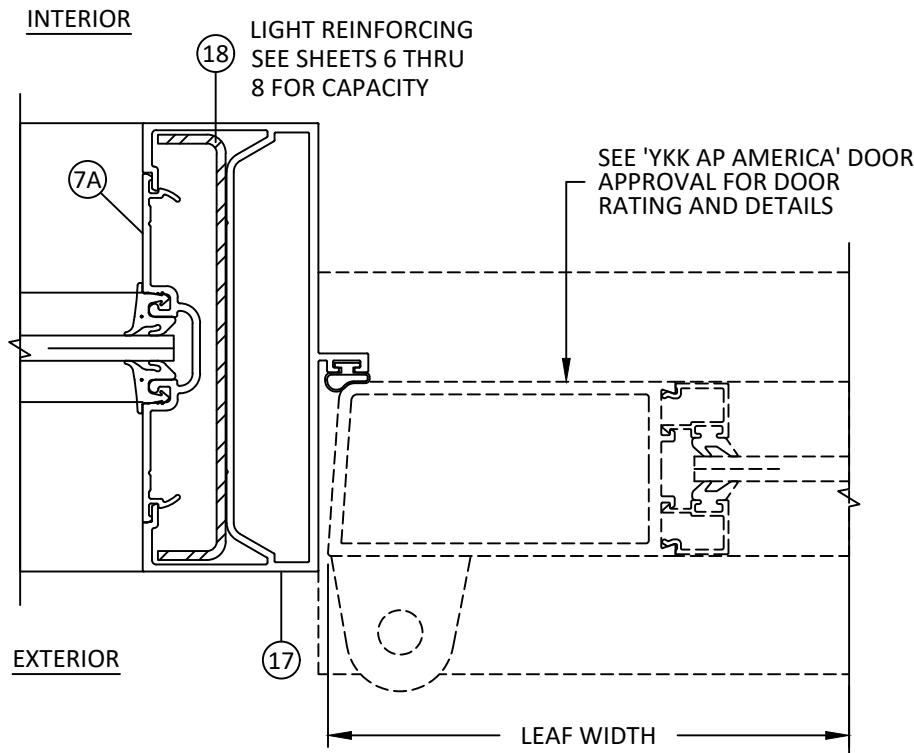
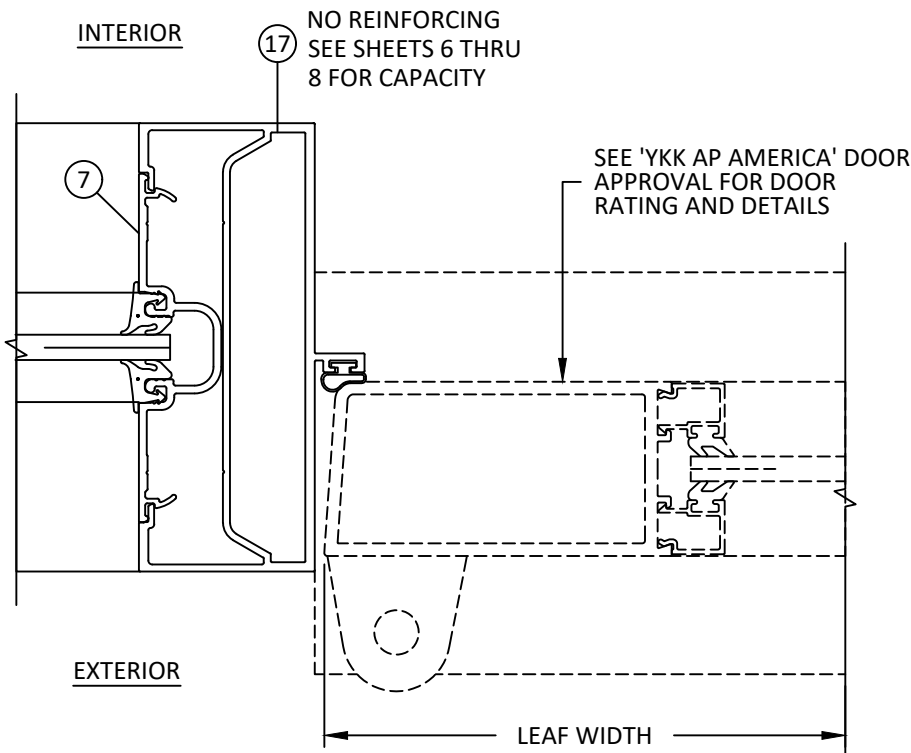
NOTE: WHERE REINFORCEMENT (ITEM #18 OR 19) IS USED ADJACENT TO DOOR OPENING, USE SHALLOW POCKET FILLER (ITEM #7A) . AT OPPOSITE SIDE OF DLO, USE OF THE DEEP POCKET FILLER (ITEM #7) OR MULLION (ITEM #1, 5 OR 6) IS REQUIRED.



N HORIZONTAL SECTION
13 VERTICAL INTERMEDIATE
NO REINFORCEMENT

O HORIZONTAL SECTION
13 VERTICAL INTERMEDIATE
LIGHT REINFORCEMENT

P HORIZONTAL SECTION
13 VERTICAL INTERMEDIATE
HEAVY REINFORCEMENT



Q HORIZONTAL SECTION
13 VERTICAL INTERMEDIATE
NO REINFORCEMENT

R HORIZONTAL SECTION
13 VERTICAL INTERMEDIATE
LIGHT REINFORCEMENT

S HORIZONTAL SECTION
13 VERTICAL INTERMEDIATE
HEAVY REINFORCEMENT



YKK AP AMERICA
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PH: (478)277-1955 FAX: (678)838-6001

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

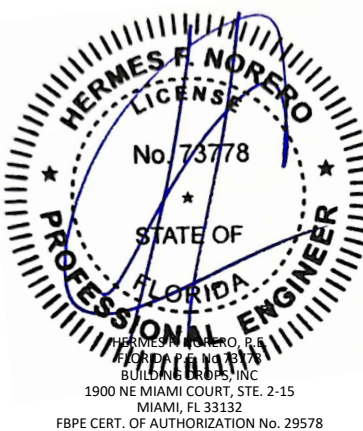
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2023 FBC CODE UPDATE	MS	04.21.23
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FL #: FL12926

DATE: 08.10.17

DWG. BY: RV
CHK. BY: HFN

SCALE: NTS

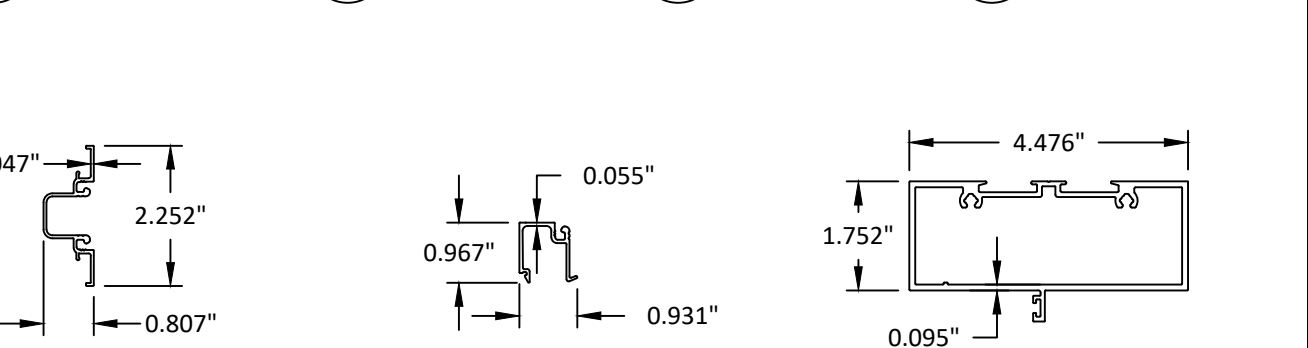
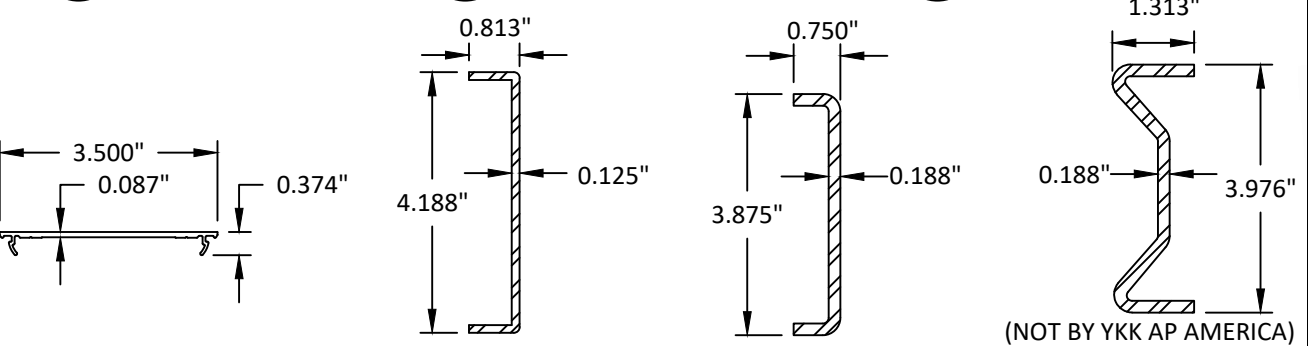
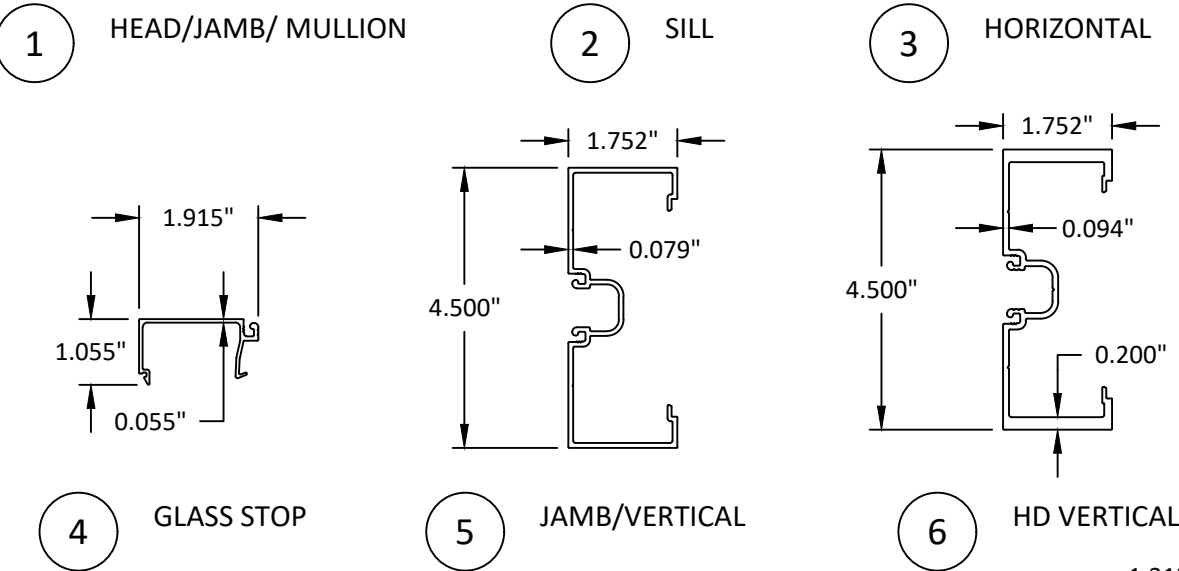
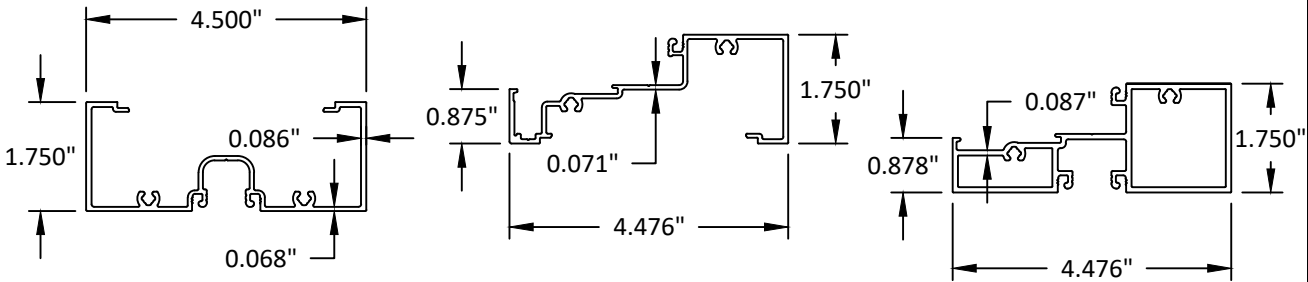
DWG. #: YKK217

SHEET: 13

REV. C

7/24/2026 10:09 AM
c:\users\sebastianhereros\desktop\ykk 2026 ca\112926\ykk217.dwg

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



YKK AP AMERICA
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YES 45 FS
ALUMINUM STOREFRONT SYSTEM
(HVHZ) (NON-IMPACT)
COMPONENTS & BILL OF MATERIALS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
VALIDATOR'S COMM.	AR	10.12.17
2023 FBC CODE UPDATE	MS	04.21.23
2026 FBC CODE UPDATE	SH	07.06.26

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

HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL12926**

DATE: **08.10.17**

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

DWG. #: **YKK217**

SHEET: **14** OF **14**

REV. **C**