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YKK AP AMERICA, INC.

YHS 50 FI ALUMINUM STOREFRONT SYSTEM - OUTSIDE GLAZED (HVHZ) (MISSILE LEVEL E IMPACT)

INSTALLATION NOTES:

- SEE SHEET 9 FOR ANCHOR TYPE REQUIREMENTS, MINIMUM EMBEDMENTS, 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.
 - 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:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
 - AAMA 501-25
 - ASTM E1886-19
 - ASTM E1996-23
- 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 NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE. SEE SHEET 3 FOR GLASS TYPE.
- 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.
- GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 3 FOR GLAZING DETAIL.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	INSTALLATION & GENERAL NOTES
2	ELEVATION & ANCHOR LAYOUT
3	MISSILE LEVEL E GLAZING DETAILS
4	HEAVY MULLION TABLES
5	TYPE A & B ANCHOR TABLES
6	TYPE C & D ANCHOR TABLES
6A	TYPE E ANCHOR TABLES
7	DOOR MULLION TABLE
8	DOOR MULLION TABLES (1)
9	VERTICAL SECTIONS & ANCHOR DESCRIPTIONS
10	HEAVY MULLION HORIZONTAL SECTIONS
11	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 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHART ON SHEET 4 FOR STORE FRONT MULLION AND SHEETS 7 & 8 FOR DOOR MULLION, THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- USING CHARTS ON SHEETS 5, 6, & 6A 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.



YKK AP AMERICA, INC.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (678) 838-6000

TITLE: YHS 50 FI ALUMINUM STOREFRONT SYSTEM - OUTSIDE GLAZED (HVHZ) (MISSILE LEVEL E IMPACT)
INSTALLATION & GENERAL NOTES

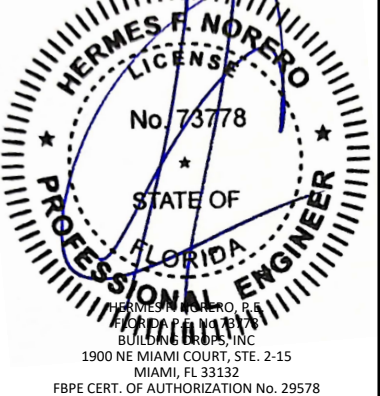
PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
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FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
FBC CODE UPDATE	RV	07.12.17
MISC. UPDATES	SH	12.14.22
ANCHOR UPDATE	SH	02.10.26
2026 CODE UPDATE	SH	07.28.26

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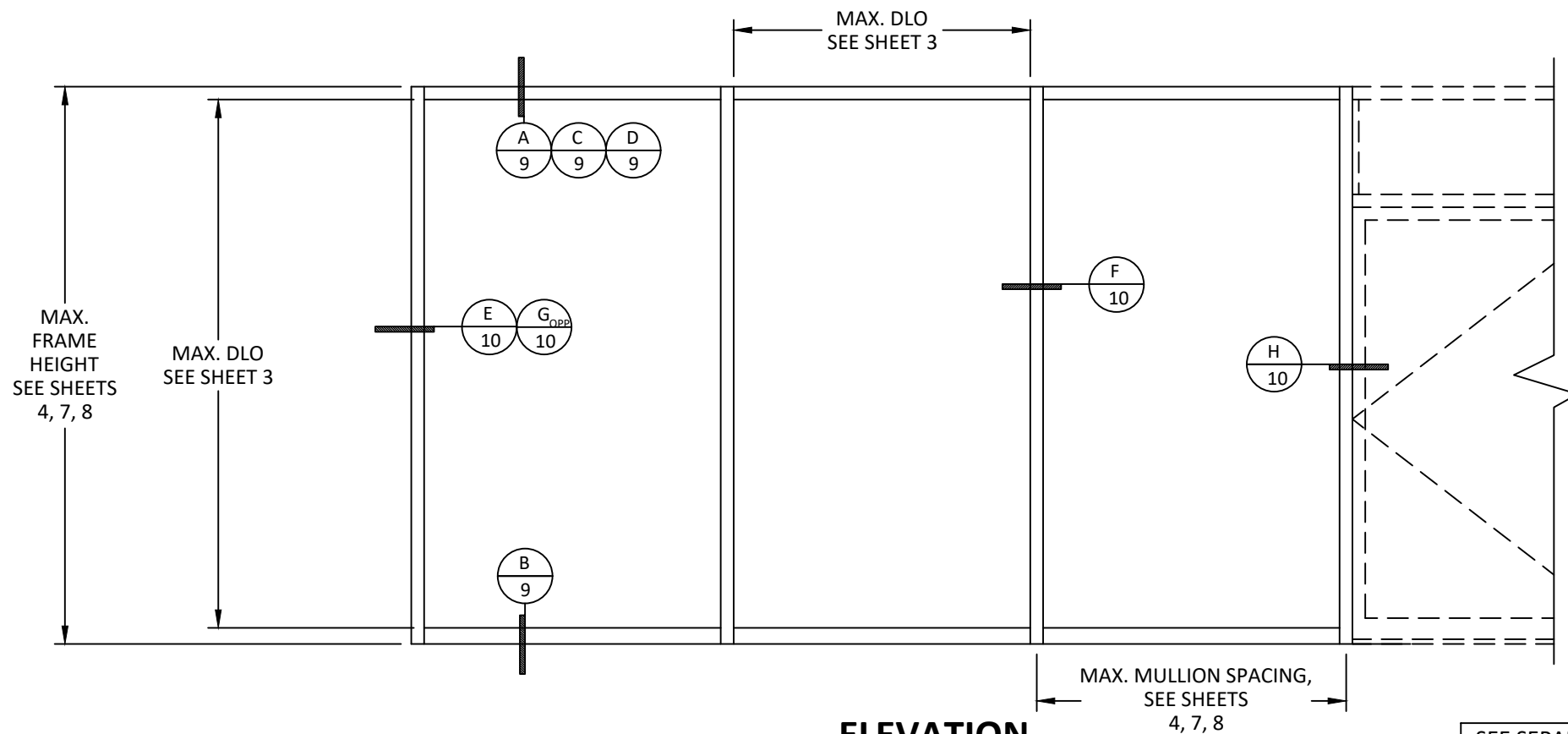
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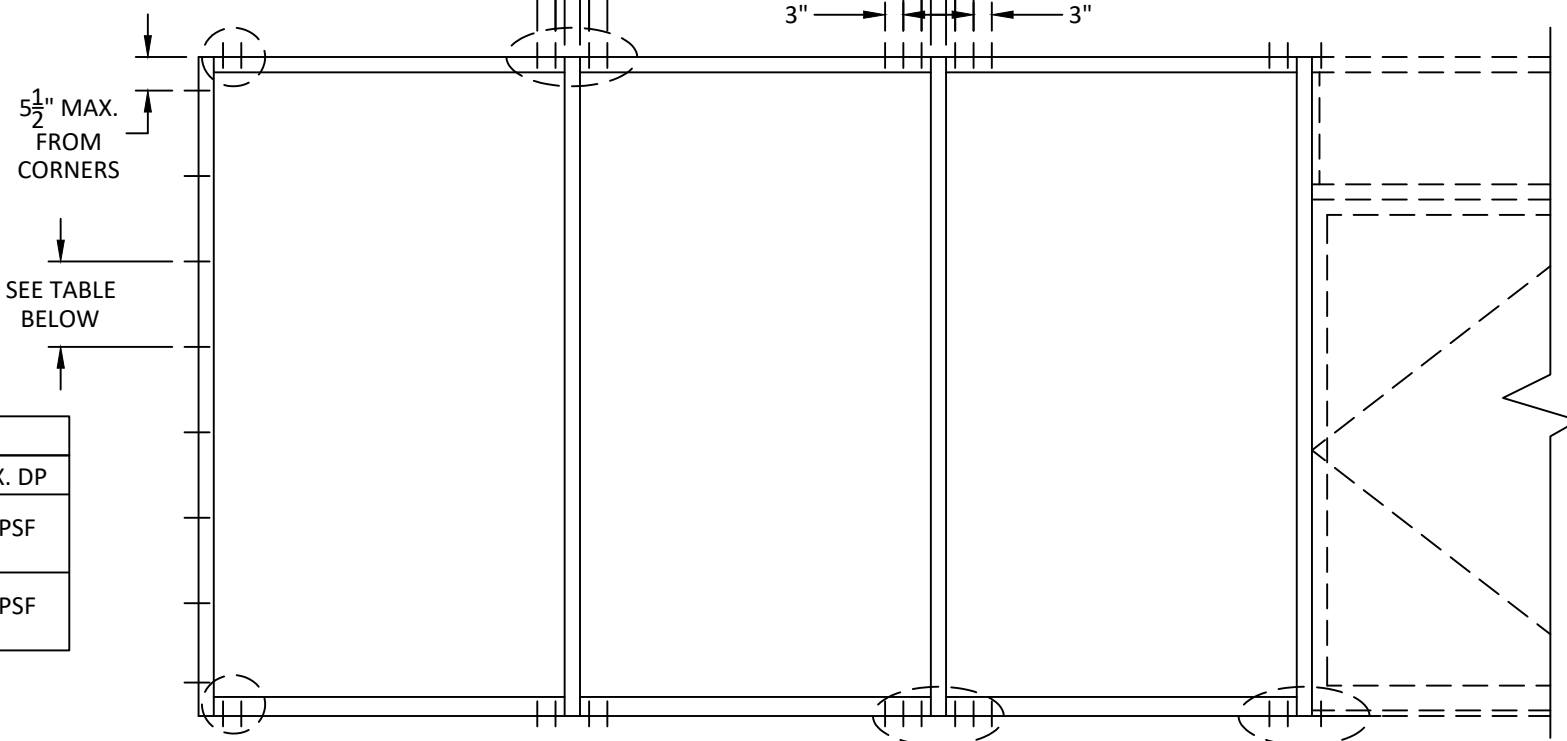
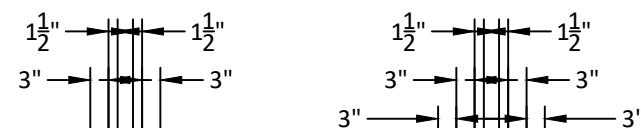
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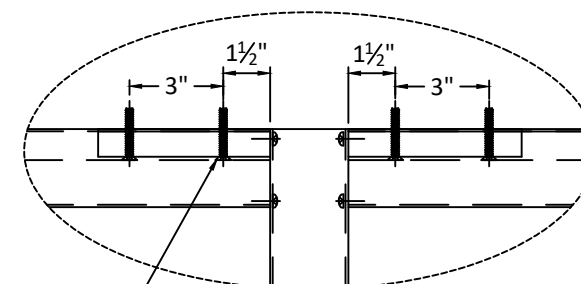
ELEVATION
TYPICAL YHS 50 FI STOREFRONT

SEE SEPARATE DOOR APPROVAL FOR DOOR RATING & DETAILS.
LOWER DESIGN PRESSURE FROM STOREFRONT OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.

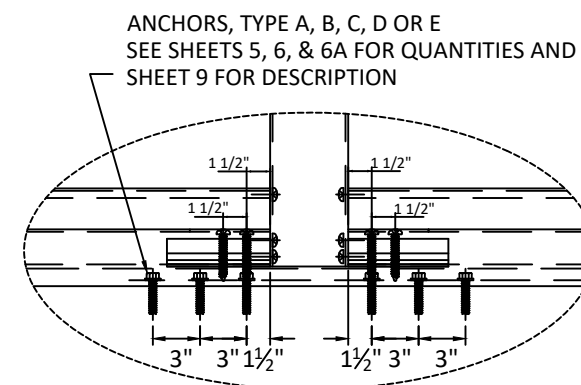


TYPICAL ANCHOR LAYOUT

JAMB ANCHOR SPACING		
ANCHOR TYPE	MAX. SPACING	MAX. DP
A OR B	18.75"	65 PSF
C, E OR D	13"	
A OR B	13.5"	90 PSF
C, E OR D	9.375"	



ANCHORS, TYPE A, B, C, D OR E
SEE SHEETS 5, 6, & 6A FOR QUANTITIES
AND SHEET 9 FOR DESCRIPTION



ANCHORS, TYPE A, B, C, D OR E
SEE SHEETS 5, 6, & 6A FOR QUANTITIES AND
SHEET 9 FOR DESCRIPTION



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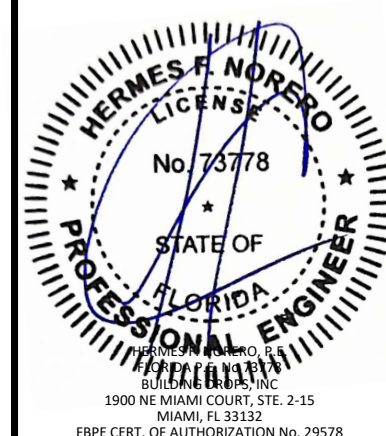
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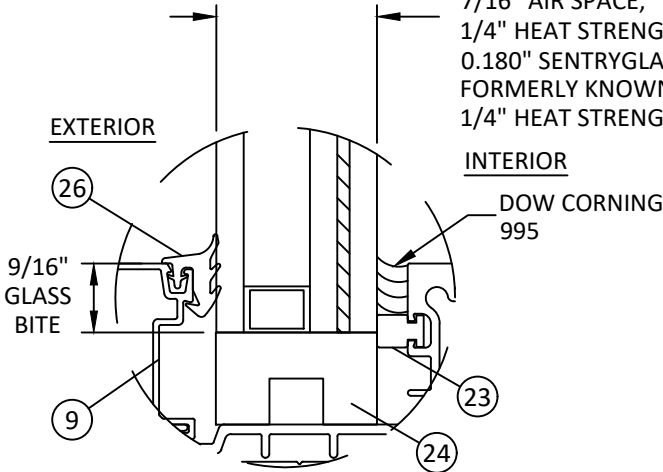
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GLASS TYPES

MISSILE LEVEL E IMPACT

GLASS LOAD CAPACITY (PSF)			
DAYLIGHT OPENING (IN)		GLASS TYPE A	
DLO WIDTH	DLO HEIGHT	EXT. (+)	INT. (-)
27.5	54.375	70.0	90.0
33.5		70.0	90.0
39.5		70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0
63.5	60.375	70.0	90.0
69.5		70.0	90.0
27.5		70.0	90.0
33.5		70.0	90.0
39.5		70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5	66.375	70.0	90.0
63.5		70.0	90.0
69.5		70.0	90.0
27.5		70.0	90.0
33.5		70.0	90.0
39.5		70.0	90.0
45.5	72.375	70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0
63.5		63.4	81.5
69.5		63.5	81.6
27.5	78.375	70.0	90.0
33.5		70.0	90.0
39.5		70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0
63.5	84.375	63.4	81.5
69.5		57.9	74.5
27.5		70.0	90.0
33.5		70.0	90.0
39.5		70.0	90.0
45.5		70.0	90.0
51.5	90.3750	70.0	90.0
57.5		70.0	90.0
63.5		63.4	81.5
69.5		57.9	74.5
27.5		70.0	90.0
33.5	96.3750	70.0	90.0
39.5		70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0
63.5		63.4	81.5
69.5	102.375	60.5	77.8
27.5		70.0	90.0
33.5		70.0	90.0
39.5		70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5	108.375	70.0	90.0
63.5		63.4	81.5
69.5		70.0	90.0
27.5		70.0	90.0
33.5		70.0	90.0
39.5		70.0	90.0
45.5	114.375	70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0
63.5		70.0	90.0
69.5		70.0	90.0
27.5	120.375	70.0	90.0
33.5		70.0	90.0
39.5		70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0

GLASS LOAD CAPACITY (PSF)			
DAYLIGHT OPENING (IN)		GLASS TYPE A	
DLO WIDTH	DLO HEIGHT	EXT. (+)	INT. (-)
27.5	54.375	70.0	90.0
33.5		70.0	90.0
39.5		70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0
63.5	60.375	70.0	90.0
69.5		70.0	90.0
27.5		70.0	90.0
33.5		70.0	90.0
39.5		70.0	90.0
45.5		70.0	90.0
51.5	66.375	70.0	90.0
57.5		70.0	90.0
63.5		63.4	81.5
69.5		63.5	81.6
27.5		70.0	90.0
33.5	72.375	70.0	90.0
39.5		70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0
63.5		63.4	81.5
69.5	78.375	57.9	74.5
27.5		70.0	90.0
33.5		70.0	90.0
39.5		70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5	84.375	70.0	90.0
63.5		63.4	81.5
69.5		57.9	74.5
27.5		70.0	90.0
33.5		70.0	90.0
39.5		70.0	90.0
45.5	90.3750	70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0
63.5		63.4	81.5
69.5		57.9	74.5
27.5	96.3750	70.0	90.0
33.5		70.0	90.0
39.5		70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0
63.5	102.375	60.5	77.8
69.5		70.0	90.0
27.5		70.0	90.0
33.5		70.0	90.0
39.5		70.0	90.0
45.5	108.375	70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0
63.5		63.4	81.5
69.5		70.0	90.0
27.5	114.375	70.0	90.0
33.5		70.0	90.0
39.5		70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0



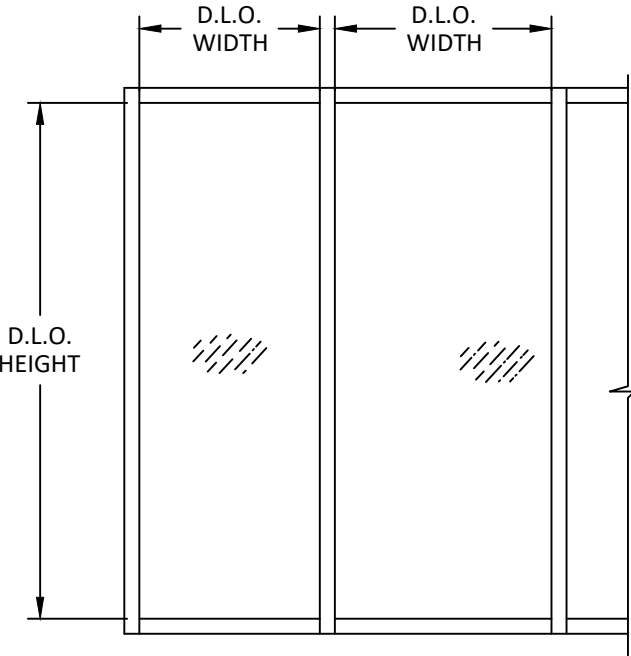
GLAZING DETAIL A
(WET GLAZED)

- * NOTE:
- GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300 (3 SEC. GUSTS) AND CHAPTER 17 OF THE CURRENT FBC FOR SIZES OTHER THAN TESTED.
 - SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
 - SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER CHAPTER 24.
 - D.L.O. MAY NOT EXCEED MAX DIMENSIONS IN GLASS CHARTS FOR GLASS TYPE.

DAYLITE OPENING DIMENSIONS:
DAYLITE OPENING WIDTH:
• NOMINAL PANEL WIDTH - 2.500"
DAYLITE OPENING HEIGHT:
• FRAME HEIGHT - 5.625"

1-5/16" O.A. INSULATED LAMINATED GLASS CONSISTING OF:
1/4" TEMPERED GLASS,
7/16" AIR SPACE,
1/4" HEAT STRENGTHENED GLASS,
0.180" SENTRYGLAS BY KURARAY, FORMERLY KNOWN AS SGP BY DUPONT, 1/4" HEAT STRENGTHENED GLASS

ALUMINUM BOX SPACER:
AROUND THE PERIMETER OF THE GLASS.
PRIMARY SEALANT:
POLYISOBUTYLENE (PIB).
SECONDARY SEALANT:
STRUCTURAL SILICONE INTENDED FOR FABRICATION OF INSULATED GLASS UNITS.





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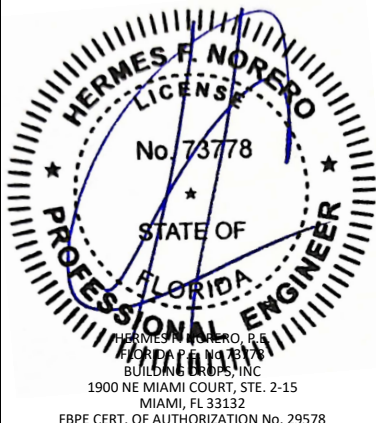
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MISSILE LEVEL E GLAZING DETAILS

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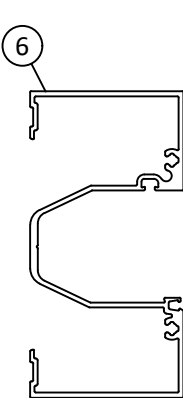
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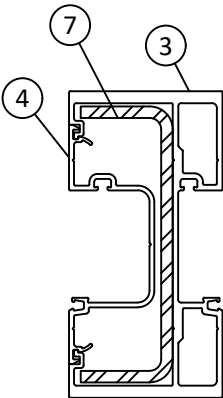
MULLION LOAD TABLES

HEAVY CONFIGURATION

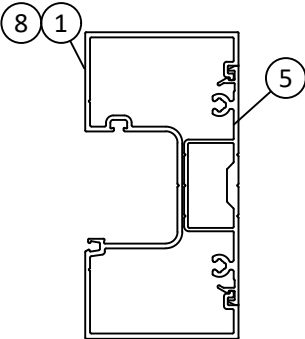
DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		HEAVY MULLION - M1	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)
72	96	70.0	90.0
69	102	70.0	90.0
66	108	70.0	90.0
63	114	70.0	90.0
60	120	70.0	90.0



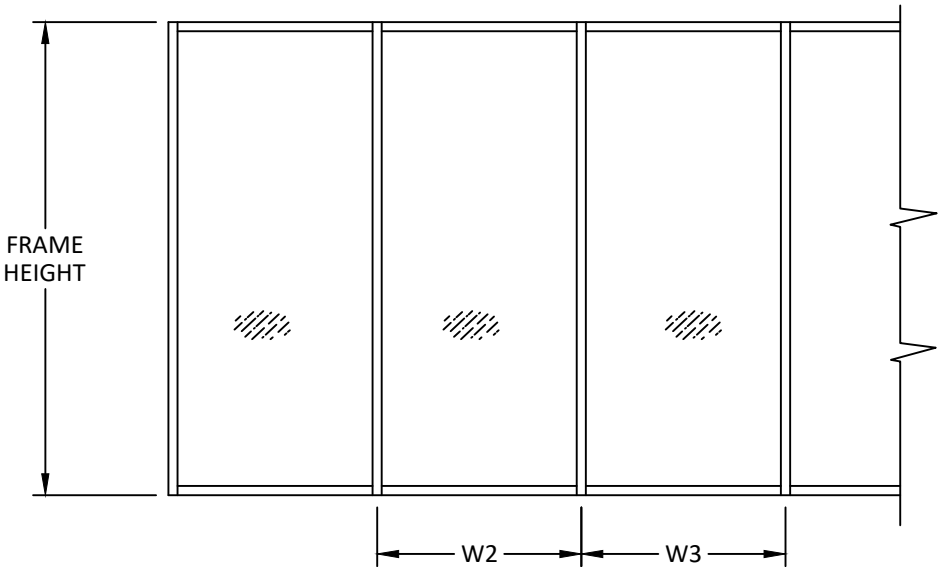
HEAVY JAMB - J1



HEAVY MULLION - M1



HEAVY JAMB - J2



WIDTH (W) = $\frac{W2 + W3}{2}$ (MULLION)

HEAVY CONFIGURATION

NOTE:
PROFILE #1 SHOWN,
PROFILE #8 SIMILAR.



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HEAVY MULL TABLES

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ANCHOR UPDATE

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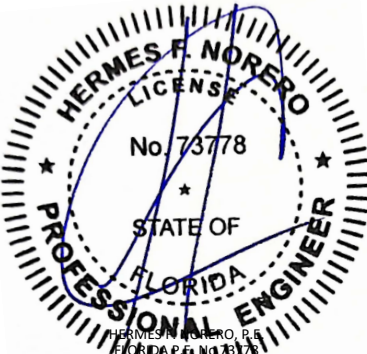
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HERMES F. NORERO, P.E.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

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YKK191

SHEET:

4

REV.

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[Page 4 of 12]

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ANCHOR TYPE 'A & B' TABLES

ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT. (-)					
NOMINAL DIMS. (IN)		ANCHOR TYPE 'A'		ANCHOR TYPE 'B'	
WIDTH (W)	FRAME HEIGHT	A2	A3	B2	B3
30	72	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0
45		90.0	90.0	90.0	90.0
48		90.0	90.0	90.0	90.0
51		90.0	90.0	90.0	90.0
54		90.0	90.0	90.0	90.0
57		90.0	90.0	90.0	90.0
60		90.0	90.0	90.0	90.0
63		90.0	90.0	90.0	90.0
66		90.0	90.0	89.4	90.0
69		90.0	90.0	85.5	90.0
72		90.0	90.0	81.9	90.0
30	78	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0
45		90.0	90.0	90.0	90.0
48		90.0	90.0	90.0	90.0
51		90.0	90.0	90.0	90.0
54		90.0	90.0	90.0	90.0
57		90.0	90.0	90.0	90.0
60		90.0	90.0	90.0	90.0
63		90.0	90.0	86.4	90.0
66		90.0	90.0	82.5	90.0
69		90.0	90.0	78.9	90.0
72		88.5	90.0	75.6	90.0
30	84	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0
45		90.0	90.0	90.0	90.0
48		90.0	90.0	90.0	90.0
51		90.0	90.0	90.0	90.0
54		90.0	90.0	90.0	90.0
57		90.0	90.0	88.7	90.0
60		90.0	90.0	84.3	90.0
63		90.0	90.0	80.2	90.0
66		89.6	90.0	76.6	90.0
69		85.7	90.0	73.3	90.0
72		82.1	90.0	70.2	90.0

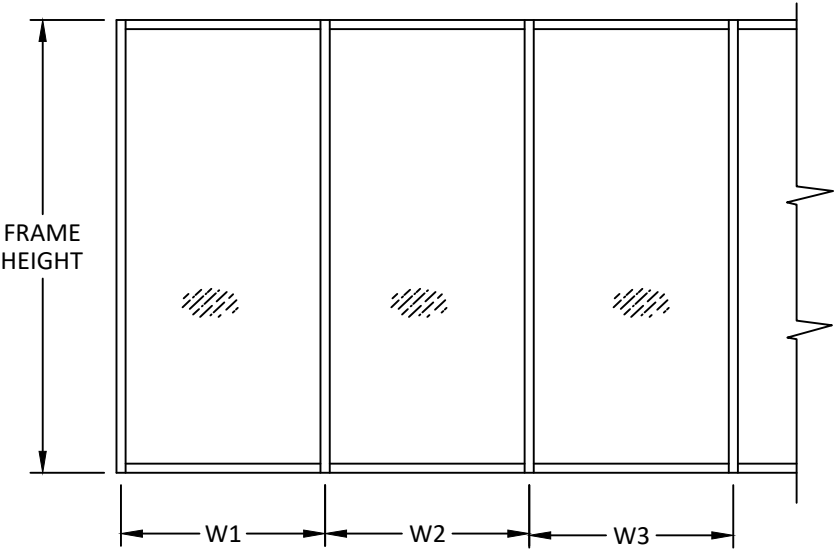
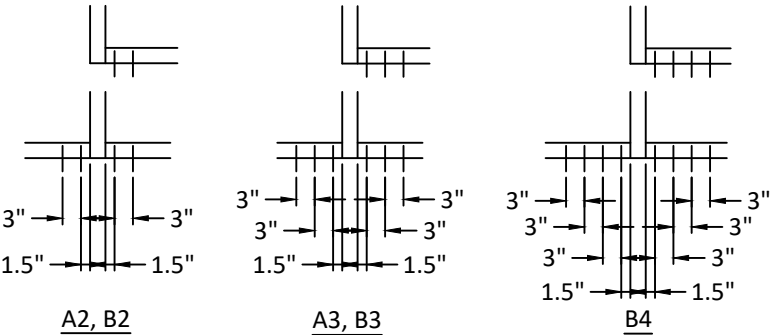
ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT. (-)					
NOMINAL DIMS. (IN)		ANCHOR TYPE 'A'		ANCHOR TYPE 'B'	
WIDTH (W)	FRAME HEIGHT	A2	A3	B2	B3
30	90	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0
45		90.0	90.0	90.0	90.0
48		90.0	90.0	90.0	90.0
51		90.0	90.0	90.0	90.0
54		90.0	90.0	87.4	90.0
57		90.0	90.0	82.8	90.0
60		90.0	90.0	78.6	90.0
63		87.6	90.0	74.9	90.0
66		83.6	90.0	71.5	90.0
69		80.0	90.0	68.4	90.0
72		76.7	90.0	65.5	90.0
30	96	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0
45		90.0	90.0	90.0	90.0
48		90.0	90.0	90.0	90.0
51		90.0	90.0	86.7	90.0
54		90.0	90.0	81.9	90.0
57		90.0	90.0	77.6	90.0
60		86.3	90.0	73.7	90.0
63		82.1	90.0	70.2	90.0
66		78.4	90.0	67.0	90.0
69		75.0	90.0	64.1	90.0
72		71.9	90.0	61.4	90.0
30	102	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0
45		90.0	90.0	90.0	90.0
48		90.0	90.0	86.7	90.0
51		90.0	90.0	81.6	90.0
54		90.0	90.0	77.1	90.0
57		85.4	90.0	73.0	90.0
60		81.2	90.0	69.4	90.0
63		77.3	90.0	66.1	90.0
66		73.8	90.0	63.1	90.0
69		70.6	90.0	60.3	90.0

ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT. (-)					
NOMINAL DIMS. (IN)		ANCHOR TYPE 'A'		ANCHOR TYPE 'B'	
WIDTH (W)	FRAME HEIGHT	A2	A3	B2	B3
30	108	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0
45		90.0	90.0	87.4	90.0
48		90.0	90.0	81.9	90.0
51		90.0	90.0	77.1	90.0
54		85.2	90.0	72.8	90.0
57		80.7	90.0	69.0	90.0
60		76.7	90.0	65.5	90.0
63		73.0	90.0	62.4	90.0
66		69.7	90.0	59.6	90.0
30	114	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0
42		90.0	90.0	88.7	90.0
45		90.0	90.0	82.8	90.0
48		90.0	90.0	77.6	90.0
51		85.4	90.0	73.0	90.0
54		80.7	90.0	69.0	90.0
57		76.5	90.0	65.3	90.0
60		72.6	90.0	62.1	90.0
63		69.2	90.0	59.1	90.0
30	120	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0
42		90.0	90.0	84.3	90.0
45		90.0	90.0	78.6	90.0
48		86.3	90.0	73.7	90.0
51		81.2	90.0	69.4	90.0
54		76.7	90.0	65.5	90.0
57		72.6	90.0	62.1	90.0
60		69.0	90.0	59.0	90.0

ANCHORS TYPES: SEE SHEET 14 FOR DESCRIPTION

- A2 = (2) ANCHORS TYPE 'A' AT JAMB OR EACH SIDE OF MULLION
A3 = (3) ANCHORS TYPE 'A' AT JAMB OR EACH SIDE OF MULLION
B2 = (2) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION
B3 = (3) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION
B4 = (4) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION



WIDTH (W) = W1 (JAMB)

WIDTH (W) = $\frac{W2 + W3}{2}$ (MULLION)

YKK
ap

Quality
inspires™

YKK AP AMERICA, INC.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (678) 838-6000

TITLE:
YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(HVHZ) (MISSILE LEVEL E IMPACT)

TYPE A & B ANCHOR TABLES

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
FBC CODE UPDATE	RV	07.12.17
MISC. UPDATES	SH	12.14.22
ANCHOR UPDATE	SH	02.10.26
2026 CODE UPDATE	SH	07.28.26

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

FL #:

FL14218

DATE:

11.23.16

DWG. BY:

LMS

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

YKK191

SHEET:

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REV.

D

[Page 5 of 12]

ANCHOR TYPE 'C & D' TABLES

ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT (-)								
NOMINAL DIMS. (IN)		ANCHOR TYPE 'C'			ANCHOR TYPE 'D'			
WIDTH (W)	FRAME HEIGHT	C2	C3	C4	D2	D3	D4	D5
30	72	90.0	90.0	90.0	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	88.9	90.0	90.0	90.0
39		90.0	90.0	90.0	82.1	90.0	90.0	90.0
42		90.0	90.0	90.0	76.2	90.0	90.0	90.0
45		90.0	90.0	90.0	71.1	90.0	90.0	90.0
48		90.0	90.0	90.0	66.7	90.0	90.0	90.0
51		90.0	90.0	90.0	62.7	90.0	90.0	90.0
54		85.2	90.0	90.0	59.3	88.9	90.0	90.0
57		80.8	90.0	90.0	56.1	84.2	90.0	90.0
60		76.7	90.0	90.0	53.3	80.0	90.0	90.0
63		73.1	90.0	90.0	50.8	76.2	90.0	90.0
66		69.7	90.0	90.0	48.5	72.7	90.0	90.0
69		66.7	90.0	90.0	46.4	69.6	90.0	90.0
72		63.9	90.0	90.0	44.4	66.7	88.9	90.0
30	78	90.0	90.0	90.0	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	89.5	90.0	90.0	90.0
36		90.0	90.0	90.0	82.1	90.0	90.0	90.0
39		90.0	90.0	90.0	75.7	90.0	90.0	90.0
42		90.0	90.0	90.0	70.3	90.0	90.0	90.0
45		90.0	90.0	90.0	65.6	90.0	90.0	90.0
48		88.5	90.0	90.0	61.5	90.0	90.0	90.0
51		83.3	90.0	90.0	57.9	86.9	90.0	90.0
54		78.7	90.0	90.0	54.7	82.1	90.0	90.0
57		74.5	90.0	90.0	51.8	77.7	90.0	90.0
60		70.8	90.0	90.0	49.2	73.8	90.0	90.0
63		67.4	90.0	90.0	46.9	70.3	90.0	90.0
66		64.4	90.0	90.0	44.8	67.1	89.5	90.0
69		61.6	90.0	90.0	42.8	64.2	85.6	90.0
72		59.0	88.5	90.0	41.0	61.5	82.1	90.0
30	84	90.0	90.0	90.0	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	83.1	90.0	90.0	90.0
36		90.0	90.0	90.0	76.2	90.0	90.0	90.0
39		90.0	90.0	90.0	70.3	90.0	90.0	90.0
42		90.0	90.0	90.0	65.3	90.0	90.0	90.0
45		87.7	90.0	90.0	61.0	90.0	90.0	90.0
48		82.2	90.0	90.0	57.1	85.7	90.0	90.0
51		77.4	90.0	90.0	53.8	80.7	90.0	90.0
54		73.1	90.0	90.0	50.8	76.2	90.0	90.0
57		69.2	90.0	90.0	48.1	72.2	90.0	90.0
60		65.8	90.0	90.0	45.7	68.6	90.0	90.0
63		62.6	90.0	90.0	43.5	65.3	87.1	90.0
66		59.8	89.7	90.0	41.6	62.3	83.1	90.0
69		57.2	85.8	90.0	39.8	59.6	79.5	90.0
72		54.8	82.2	90.0	38.1	57.1	76.2	90.0

ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT (-)									
NOMINAL DIMS. (IN)		ANCHOR TYPE 'C'			ANCHOR TYPE 'D'				
WIDTH (W)	FRAME HEIGHT	C2	C3	C4	D2	D3	D4	D5	D6
30	90	90.0	90.0	90.0	85.3	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	77.6	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	71.1	90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	65.6	90.0	90.0	90.0	90.0
42		87.7	90.0	90.0	61.0	90.0	90.0	90.0	90.0
45		81.8	90.0	90.0	56.9	85.3	90.0	90.0	90.0
48		76.7	90.0	90.0	53.3	80.0	90.0	90.0	90.0
51		72.2	90.0	90.0	50.2	75.3	90.0	90.0	90.0
54		68.2	90.0	90.0	47.4	71.1	90.0	90.0	90.0
57		64.6	90.0	90.0	44.9	67.4	89.8	90.0	90.0
60		61.4	90.0	90.0	42.7	64.0	85.3	90.0	90.0
63		58.5	87.7	90.0	40.6	61.0	81.3	90.0	90.0
66		55.8	83.7	90.0	38.8	58.2	77.6	90.0	90.0
69		53.4	80.1	90.0	37.1	55.7	74.2	90.0	90.0
72		51.1	76.7	90.0	35.6	53.3	71.1	88.9	90.0
30	96	90.0	90.0	90.0	80.0	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	72.7	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	66.7	90.0	90.0	90.0	90.0
39		88.5	90.0	90.0	61.5	90.0	90.0	90.0	90.0
42		82.2	90.0	90.0	57.1	85.7	90.0	90.0	90.0
45		76.7	90.0	90.0	53.3	80.0	90.0	90.0	90.0
48		71.9	90.0	90.0	50.0	75.0	90.0	90.0	90.0
51		67.7	90.0	90.0	47.1	70.6	90.0	90.0	90.0
54		63.9	90.0	90.0	44.4	66.7	88.9	90.0	90.0
57		60.6	90.0	90.0	42.1	63.2	84.2	90.0	90.0
60		57.5	86.3	90.0	40.0	60.0	80.0	90.0	90.0
63		54.8	82.2	90.0	38.1	57.1	76.2	90.0	90.0
66		52.3	78.5	90.0	36.4	54.5	72.7	90.0	90.0
69		50.0	75.1	90.0	34.8	52.2	69.6	87.0	90.0
72		48.0	71.9	90.0	33.3	50.0	66.7	83.3	90.0
30	102	90.0	90.0	90.0	75.3	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	68.4	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	62.7	90.0	90.0	90.0	90.0
39		83.3	90.0	90.0	57.9	86.9	90.0	90.0	90.0
42		77.4	90.0	90.0	53.8	80.7	90.0	90.0	90.0
45		72.2	90.0	90.0	50.2	75.3	90.0	90.0	90.0
48		67.7	90.0	90.0	47.1	70.6	90.0	90.0	90.0
51		63.7	90.0	90.0	44.3	66.4	88.6	90.0	90.0
54		60.2	90.0	90.0	41.8	62.7	83.7	90.0	90.0
57		57.0	85.5	90.0	39.6	59.4	79.3	90.0	90.0
60		54.2	81.2	90.0	37.6	56.5	75.3	90.0	90.0
63		51.6	77.4	90.0	35.9	53.8	71.7	89.6	90.0
66		49.2	73.8	90.0	34.2	51.3	68.4	85.6	90.0
69		47.1	70.6	90.0	32.7	49.1	65.5	81.8	90.0

ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT (-)									
NOMINAL DIMS. (IN)		ANCHOR TYPE 'C'			ANCHOR TYPE 'D'				
WIDTH (W)	FRAME HEIGHT	C2	C3	C4	D2	D3	D4	D5	D6
30	108	90.0	90.0	90.0	71.1	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	64.6	90.0	90.0	90.0	90.0
36		85.2	90.0	90.0	59.3	88.9	90.0	90.0	90.0
39		78.7	90.0	90.0	54.7	82.1	90.0	90.0	90.0
42		73.1	90.0	90.0	50.8	76.2	90.0	90.0	90.0
45		68.2	90.0	90.0	47.4	71.1	90.0	90.0	90.0
48		63.9	90.0	90.0	44.4	66.7	88.9	90.0	90.0
51		60.2	90.0	90.0	41.8	62.7	83.7	90.0	90.0
54		56.8	85.2	90.0	39.5	59.3	79.0	90.0	90.0
57		53.8	80.8	90.0	37.4	56.1	74.9	90.0	90.0
60		51.1	76.7	90.0	35.6	53.3	71.1	88.9	90.0
63		48.7	73.1	90.0	33.9	50.8	67.7	84.7	90.0
66		46.5	69.7	90.0	32.3	48.5	64.6	80.8	90.0
30	114	90.0	90.0	90.0	67.4	90.0	90.0	90.0	90.0
33		88.1	90.0	90.0	61.2	90.0	90.0	90.0	90.0
36		80.8	90.0	90.0	56.1	84.2	90.0	90.0	90.0
39		74.5	90.0	90.0	51.8	77.7	90.0	90.0	90.0
42		69.2	90.0	90.0	48.1	72.2	90.0	90.0	90.0
45		64.6	90.0	90.0	44.9	67.4	89.8	90.0	90.0
48		60.6	90.0	90.0	42.1	63.2	84.2	90.0	90.0
51		57.0	85.5	90.0	39.6	59.4	79.3	90.0	90.0
54		53.8	80.8	90.0	37.4	56.1	74.9	90.0	90.0
57		51.0	76.5	90.0	35.5	53.2	70.9	88.6	90.0
60		48.5	72.7	90.0	33.7	50.5	67.4	84.2	90.0
63		46.1	69.2	90.0	32.1	48.1	64.2	80.2	90.0
30		120	90.0	90.0	90.0	64.0	90.0	90.0	90.0
33	83.7		90.0	90.0	58.2	87.3	90.0	90.0	90.0
36	76.7		90.0	90.0	53.3	80.0	90.0	90.0	90.0
39	70.8		90.0	90.0	49.2	73.8	90.0	90.0	90.0
42	65.8		90.0	90.0	45.7	68.6	90.0	90.0	90.0
45	61.4		90.0	90.0	42.7	64.0	85.3	90.0	90.0
48	57.5		86.3	90.0	40.0	60.0	80.0	90.0	90.0
51	54.2		81.2	90.0	37.6	56.5	75.3	90.0	90.0
54	51.1		76.7	90.0	35.6	53.3	71.1	88.9	90.0
57	48.5		72.7	90.0	33.7	50.5	67.4	84.2	90.0
60	46.0		69.0	90.0	32.0	48.0	64.0	80.0	90.0

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ANCHOR TYPE 'E' TABLES

ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT. (-)							
NOMINAL DIMS. (IN)		ANCHOR TYPE 'E'					
WIDTH (W)	FRAME HEIGHT	E2	E3	E4	E5	E6	E7
30	72	77.2	90.0	90.0	90.0	90.0	90.0
33		70.2	90.0	90.0	90.0	90.0	90.0
36		64.4	90.0	90.0	90.0	90.0	90.0
39		59.4	89.1	90.0	90.0	90.0	90.0
42		55.2	82.7	90.0	90.0	90.0	90.0
45		51.5	77.2	90.0	90.0	90.0	90.0
48		48.3	72.4	90.0	90.0	90.0	90.0
51		45.4	68.1	90.0	90.0	90.0	90.0
54		42.9	64.4	85.8	90.0	90.0	90.0
57		40.6	61.0	81.3	90.0	90.0	90.0
60		38.6	57.9	77.2	90.0	90.0	90.0
63		36.8	55.2	73.5	90.0	90.0	90.0
66	78	35.1	52.7	70.2	87.8	90.0	90.0
69		33.6	50.4	67.2	83.9	90.0	90.0
72		32.2	48.3	64.4	80.4	90.0	90.0
30		71.3	90.0	90.0	90.0	90.0	90.0
33		64.8	90.0	90.0	90.0	90.0	90.0
36		59.4	89.1	90.0	90.0	90.0	90.0
39		54.8	82.3	90.0	90.0	90.0	90.0
42		50.9	76.4	90.0	90.0	90.0	90.0
45		47.5	71.3	90.0	90.0	90.0	90.0
48		44.6	66.8	89.1	90.0	90.0	90.0
51		41.9	62.9	83.9	90.0	90.0	90.0
54		39.6	59.4	79.2	90.0	90.0	90.0
57	84	37.5	56.3	75.0	90.0	90.0	90.0
60		35.6	53.5	71.3	89.1	90.0	90.0
63		33.9	50.9	67.9	84.9	90.0	90.0
66		32.4	48.6	64.8	81.0	90.0	90.0
69		31.0	46.5	62.0	77.5	90.0	90.0
72		29.7	44.6	59.4	74.3	89.1	90.0
30		66.2	90.0	90.0	90.0	90.0	90.0
33		60.2	90.0	90.0	90.0	90.0	90.0
36		55.2	82.7	90.0	90.0	90.0	90.0
39		50.9	76.4	90.0	90.0	90.0	90.0
42		47.3	70.9	90.0	90.0	90.0	90.0
45		44.1	66.2	88.3	90.0	90.0	90.0
48	102	41.4	62.1	82.7	90.0	90.0	90.0
51		38.9	58.4	77.9	90.0	90.0	90.0
54		36.8	55.2	73.5	90.0	90.0	90.0
57		34.8	52.3	69.7	87.1	90.0	90.0
60		33.1	49.6	66.2	82.7	90.0	90.0
63		31.5	47.3	63.0	78.8	90.0	90.0
66		30.1	45.1	60.2	75.2	90.0	90.0
69		28.8	43.2	57.6	72.0	86.3	90.0
72		27.6	41.4	55.2	69.0	82.7	90.0

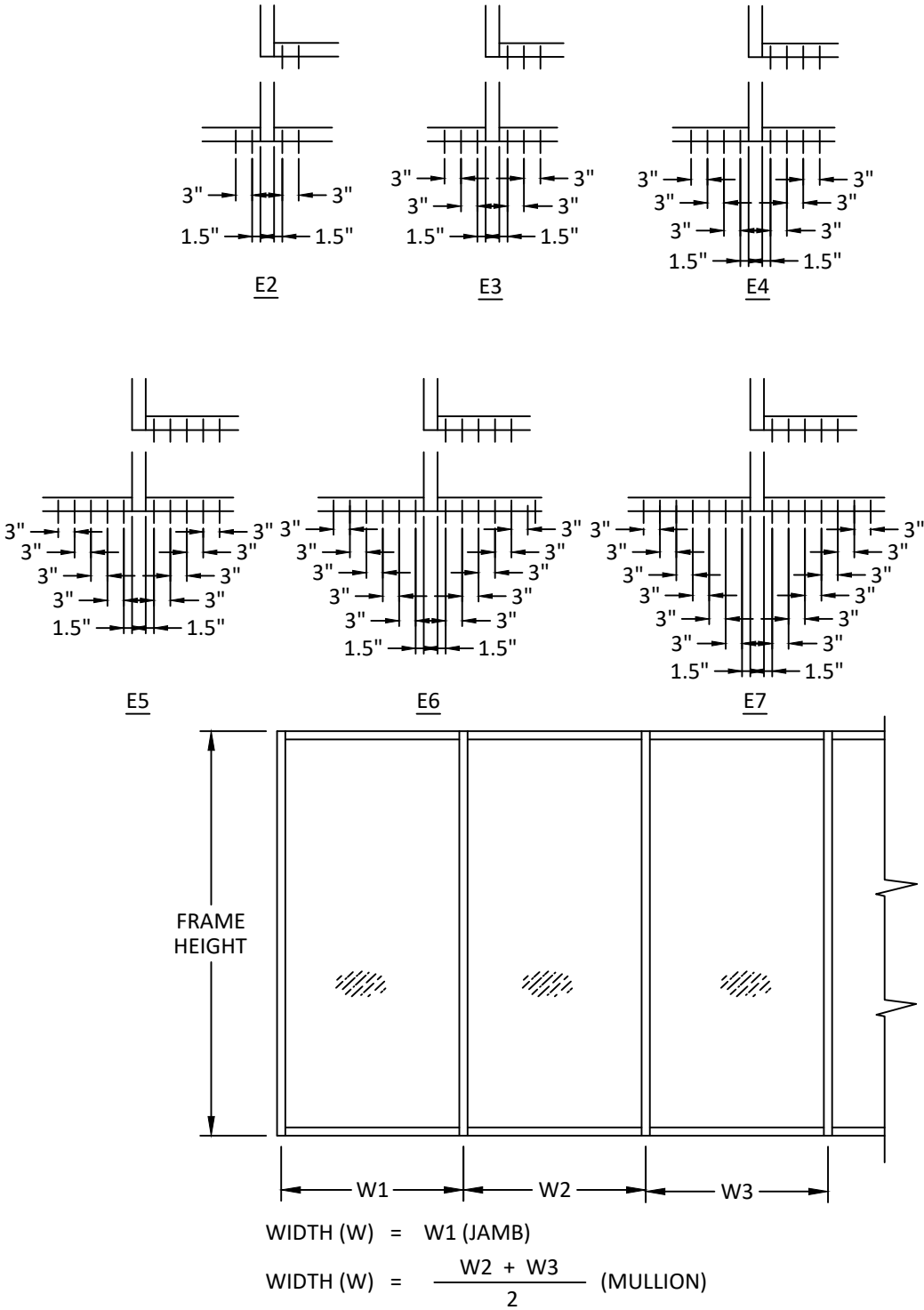
ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT. (-)							
NOMINAL DIMS. (IN)		ANCHOR TYPE 'E'					
WIDTH (W)	FRAME HEIGHT	E2	E3	E4	E5	E6	E7
30	90	61.8	90.0	90.0	90.0	90.0	90.0
33		56.2	84.2	90.0	90.0	90.0	90.0
36		51.5	77.2	90.0	90.0	90.0	90.0
39		47.5	71.3	90.0	90.0	90.0	90.0
42		44.1	66.2	88.3	90.0	90.0	90.0
45		41.2	61.8	82.4	90.0	90.0	90.0
48		38.6	57.9	77.2	90.0	90.0	90.0
51		36.3	54.5	72.7	90.0	90.0	90.0
54		34.3	51.5	68.6	85.8	90.0	90.0
57		32.5	48.8	65.0	81.3	90.0	90.0
60		30.9	46.3	61.8	77.2	90.0	90.0
63		29.4	44.1	58.8	73.5	88.3	90.0
66	96	28.1	42.1	56.2	70.2	84.2	90.0
69		26.9	40.3	53.7	67.2	80.6	90.0
72		25.7	38.6	51.5	64.4	77.2	90.0
30		57.9	86.9	90.0	90.0	90.0	90.0
33		52.7	79.0	90.0	90.0	90.0	90.0
36		48.3	72.4	90.0	90.0	90.0	90.0
39		44.6	66.8	89.1	90.0	90.0	90.0
42		41.4	62.1	82.7	90.0	90.0	90.0
45		38.6	57.9	77.2	90.0	90.0	90.0
48		36.2	54.3	72.4	90.0	90.0	90.0
51		34.1	51.1	68.1	85.2	90.0	90.0
54		32.2	48.3	64.4	80.4	90.0	90.0
57	102	30.5	45.7	61.0	76.2	90.0	90.0
60		29.0	43.4	57.9	72.4	86.9	90.0
63		27.6	41.4	55.2	69.0	82.7	90.0
66		26.3	39.5	52.7	65.8	79.0	90.0
69		25.2	37.8	50.4	63.0	75.5	88.1
72		24.1	36.2	48.3	60.3	72.4	84.5
30		54.5	81.8	90.0	90.0	90.0	90.0
33		49.6	74.3	90.0	90.0	90.0	90.0
36		45.4	68.1	90.0	90.0	90.0	90.0
39		41.9	62.9	83.9	90.0	90.0	90.0
42		38.9	58.4	77.9	90.0	90.0	90.0
45		36.3	54.5	72.7	90.0	90.0	90.0
48	120	34.1	51.1	68.1	85.2	90.0	90.0
51		32.1	48.1	64.1	80.2	90.0	90.0
54		30.3	45.4	60.6	75.7	90.0	90.0
57		28.7	43.0	57.4	71.7	86.1	90.0
60		27.3	40.9	54.5	68.1	81.8	90.0
63		26.0	38.9	51.9	64.9	77.9	90.0
66		24.8	37.2	49.6	61.9	74.3	86.7
69		23.7	35.6	47.4	59.3	71.1	83.0

ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT. (-)							
NOMINAL DIMS. (IN)		ANCHOR TYPE 'E'					
WIDTH (W)	FRAME HEIGHT	E2	E3	E4	E5	E6	E7
30	108	51.5	77.2	90.0	90.0	90.0	90.0
33		46.8	70.2	90.0	90.0	90.0	90.0
36		42.9	64.4	85.8	90.0	90.0	90.0
39		39.6	59.4	79.2	90.0	90.0	90.0
42		36.8	55.2	73.5	90.0	90.0	90.0
45		34.3	51.5	68.6	85.8	90.0	90.0
48		32.2	48.3	64.4	80.4	90.0	90.0
51		30.3	45.4	60.6	75.7	90.0	90.0
54		28.6	42.9	57.2	71.5	85.8	90.0
57		27.1	40.6	54.2	67.7	81.3	90.0
60		25.7	38.6	51.5	64.4	77.2	90.0
63		24.5	36.8	49.0	61.3	73.5	85.8
66	114	23.4	35.1	46.8	58.5	70.2	81.9
30		48.8	73.2	90.0	90.0	90.0	90.0
33		44.3	66.5	88.7	90.0	90.0	90.0
36		40.6	61.0	81.3	90.0	90.0	90.0
39		37.5	56.3	75.0	90.0	90.0	90.0
42		34.8	52.3	69.7	87.1	90.0	90.0
45		32.5	48.8	65.0	81.3	90.0	90.0
48		30.5	45.7	61.0	76.2	90.0	90.0
51		28.7	43.0	57.4	71.7	86.1	90.0
54		27.1	40.6	54.2	67.7	81.3	90.0
57		25.7	38.5	51.3	64.2	77.0	89.8
60		24.4	36.6	48.8	61.0	73.2	85.4
63	120	23.2	34.8	46.5	58.1	69.7	81.3
30		46.3	69.5	90.0	90.0	90.0	90.0
33		42.1	63.2	84.2	90.0	90.0	90.0
36		38.6	57.9	77.2	90.0	90.0	90.0
39		35.6	53.5	71.3	89.1	90.0	90.0
42		33.1	49.6	66.2	82.7	90.0	90.0
45		30.9	46.3	61.8	77.2	90.0	90.0
48		29.0	43.4	57.9	72.4	86.9	90.0
51		27.3	40.9	54.5	68.1	81.8	90.0
54		25.7	38.6	51.5	64.4	77.2	90.0
57		24.4	36.6	48.8	61.0	73.2	85.4
60		23.2	34.8	46.3	57.9	69.5	81.1

ANCHORS TYPES: SEE SHEETS 14 FOR DESCRIPTION

- E2 = (2) ANCHORS TYPE 'E' AT JAMB OR EACH SIDE OF MULLION
E3 = (3) ANCHORS TYPE 'E' AT JAMB OR EACH SIDE OF MULLION
E4 = (4) ANCHORS TYPE 'E' AT JAMB OR EACH SIDE OF MULLION
E5 = (5) ANCHORS TYPE 'E' AT JAMB OR EACH SIDE OF MULLION
E6 = (6) ANCHORS TYPE 'E' AT JAMB OR EACH SIDE OF MULLION
E7 = (7) ANCHORS TYPE 'E' AT JAMB OR EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION





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YKK AP AMERICA, INC.

101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (678) 838-6000

TITLE:
YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(HVHZ) (MISSILE LEVEL E IMPACT)

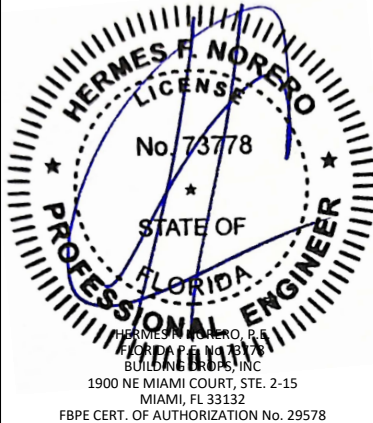
TYPE E ANCHOR TABLES

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
FBC CODE UPDATE	RV	07.12.17
MISC. UPDATES	SH	12.14.22
ANCHOR UPDATE	SH	02.10.26
2026 CODE UPDATE	SH	07.28.26

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

FL #:

FL14218

DATE:

11.23.16

DWG. BY:

LMS

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

YKK191

SHEET:

6A

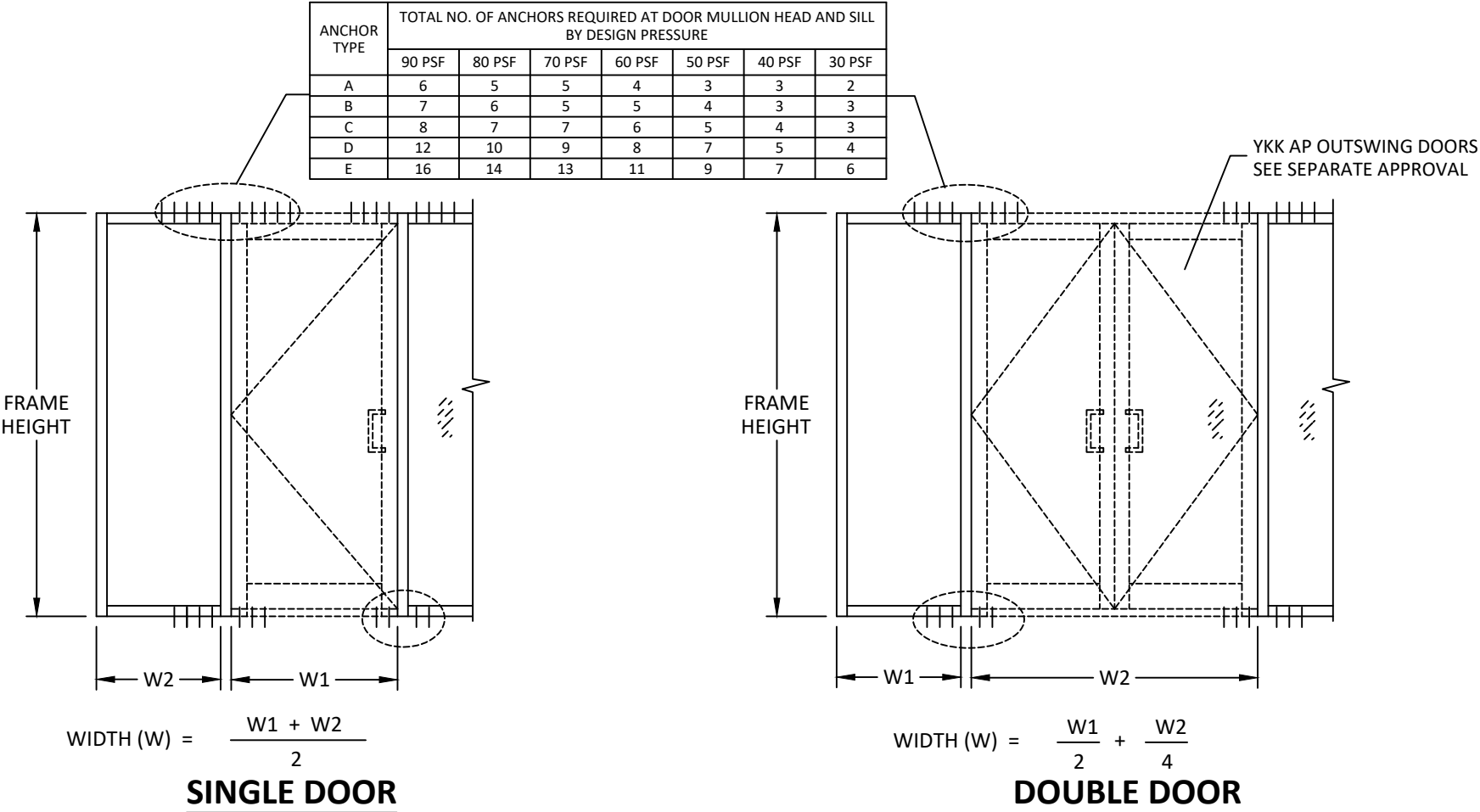
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[Page 7 of 12]

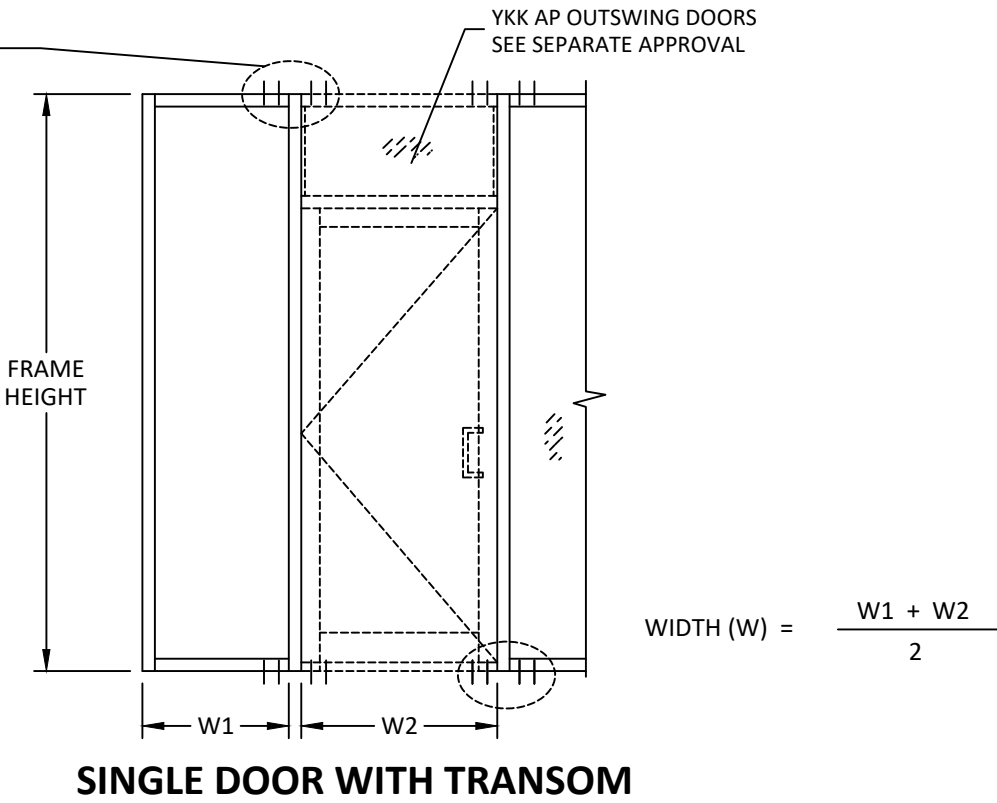
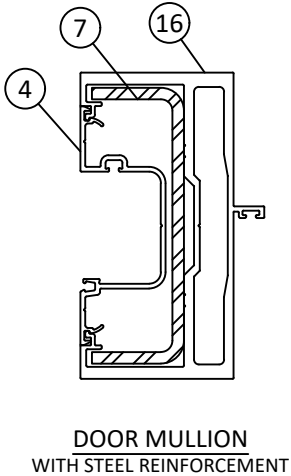
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DOOR MULLION LOAD & ANCHOR TABLES

DOOR MULLION LOAD CAPACITY (PSF)			
NOMINAL DIMS.		WITH STEEL REINF.	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)
24	102	70.0	90.0
30		70.0	90.0
36		70.0	90.0
42		70.0	90.0
48		70.0	90.0
54		70.0	90.0
60		70.0	90.0
24	108	70.0	90.0
30		70.0	90.0
36		70.0	90.0
42		70.0	90.0
48		70.0	90.0
54		70.0	90.0
60		70.0	90.0
24	114	70.0	90.0
30		70.0	90.0
36		70.0	90.0
42		70.0	90.0
48		70.0	90.0
54		70.0	90.0
60		70.0	90.0
24	120	70.0	90.0
30		70.0	90.0
36		70.0	90.0
42		70.0	90.0
48		70.0	90.0
54		70.0	90.0
60		70.0	90.0



ANCHOR TYPE	TOTAL NO. OF ANCHORS REQUIRED AT DOOR MULLION HEAD AND SILL BY DESIGN PRESSURE						
	90 PSF	80 PSF	70 PSF	60 PSF	50 PSF	40 PSF	30 PSF
A	6	5	5	4	3	3	2
B	7	6	5	5	4	3	3
C	8	7	7	6	5	4	3
D	12	10	9	8	7	5	4
E	16	14	13	11	9	7	6





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101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (678) 838-6000

TITLE:
YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(HVHZ) (MISSILE LEVEL E IMPACT)

DOOR MULLION TABLES

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

**BUILDING DROPS**

REMARKS	BY	DATE
FBC CODE UPDATE	RV	07.12.17
MISC. UPDATES	SH	12.14.22
ANCHOR UPDATE	SH	02.10.26
2026 CODE UPDATE	SH	07.28.26

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BIRMINGHAM, AL
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL14218

DATE: **11.23.16**

DWG. BY:
LMS

CHK. BY:
HFN

SCALE: **NTS**

DWG. #: **YKK191**

SHEET:

7

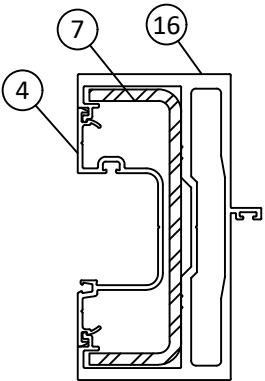
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DOOR MULLION LOAD & ANCHOR TABLES

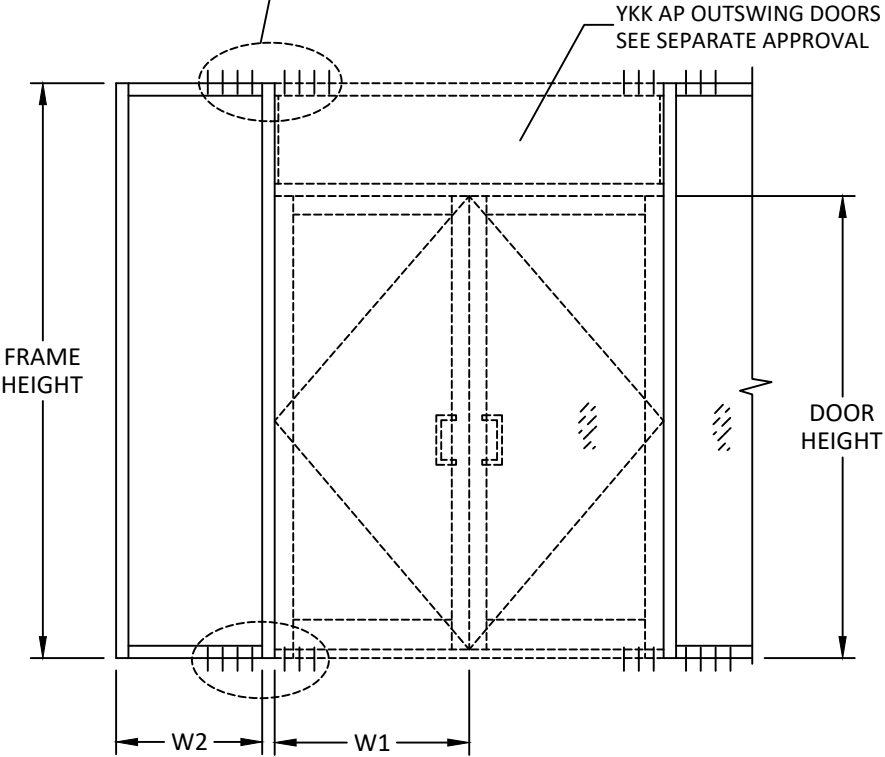
DOOR MULLION LOAD CAPACITY (PSF)				
NOMINAL DIMS.			WITH STEEL REINF.	
FRAME HEIGHT (IN.)	DOOR PANEL WIDTH - W1 (IN.)	SIDELITE WIDTH - W2 (IN.)	EXT. (+)	INT. (-)
96	36	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
	42	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
	48	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
102	36	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
	42	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
	48	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
108	36	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
	42	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
	48	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0

DOOR MULLION LOAD CAPACITY (PSF)				
NOMINAL DIMS.			WITH STEEL REINF.	
FRAME HEIGHT (IN.)	DOOR PANEL WIDTH - W1 (IN.)	SIDELITE WIDTH - W2 (IN.)	EXT. (+)	INT. (-)
114	36	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
	42	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
	48	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
120	36	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
	42	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
	48	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		44	70.0	90.0



DOOR MULLION WITH STEEL REINFORCEMENT

ANCHOR TYPE	TOTAL NO. OF ANCHORS REQUIRED AT DOOR MULLION HEAD AND SILL BY DESIGN PRESSURE						
	90 PSF	80 PSF	70 PSF	60 PSF	50 PSF	40 PSF	30 PSF
A	7	6	5	5	4	3	3
B	8	7	6	5	4	4	3
C	10	9	8	7	6	5	4
D	14	12	11	9	8	6	5
E	19	17	15	13	11	9	7



DOUBLE DOOR WITH TRANSOM



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101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (678) 838-6000

TITLE:
YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(HVHZ) (MISSILE LEVEL E IMPACT)

DOOR MULLION TABLES

PREPARED BY:

BUILDING DROPS, INC.

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MIAMI, FL 33132
PH: (954) 399-8478
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REMARKS	BY	DATE
FBC CODE UPDATE	RV	07.12.17
MISC. UPDATES	SH	12.14.22
ANCHOR UPDATE	SH	02.10.26
2026 CODE UPDATE	SH	07.28.26

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FL14218

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11.23.16

DWG. BY:
LMS

CHK. BY:
HFN

SCALE:
NTS

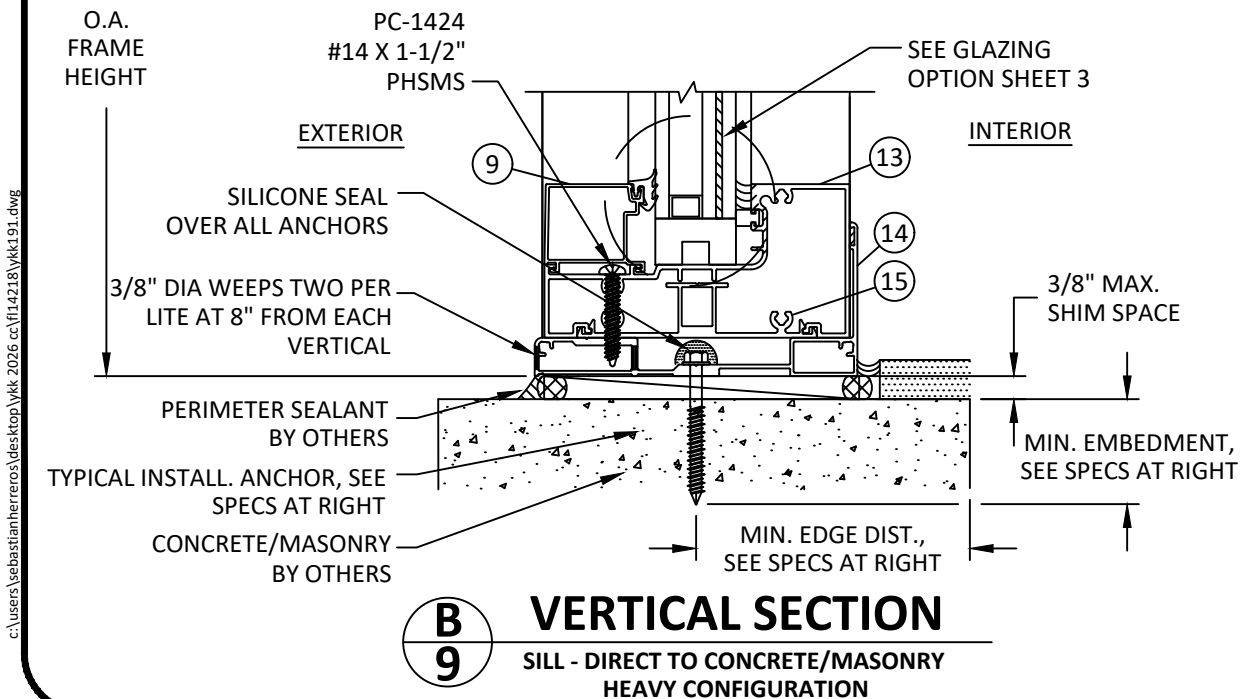
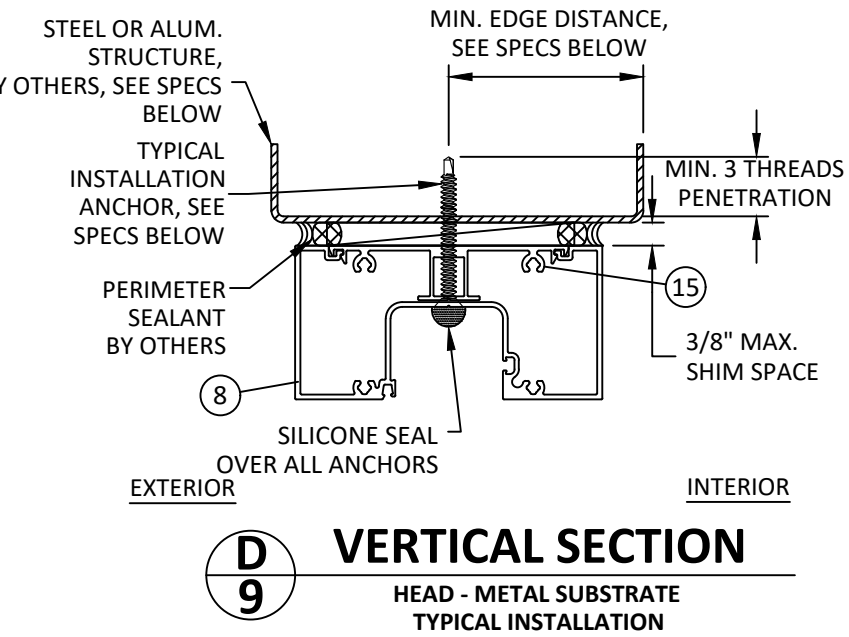
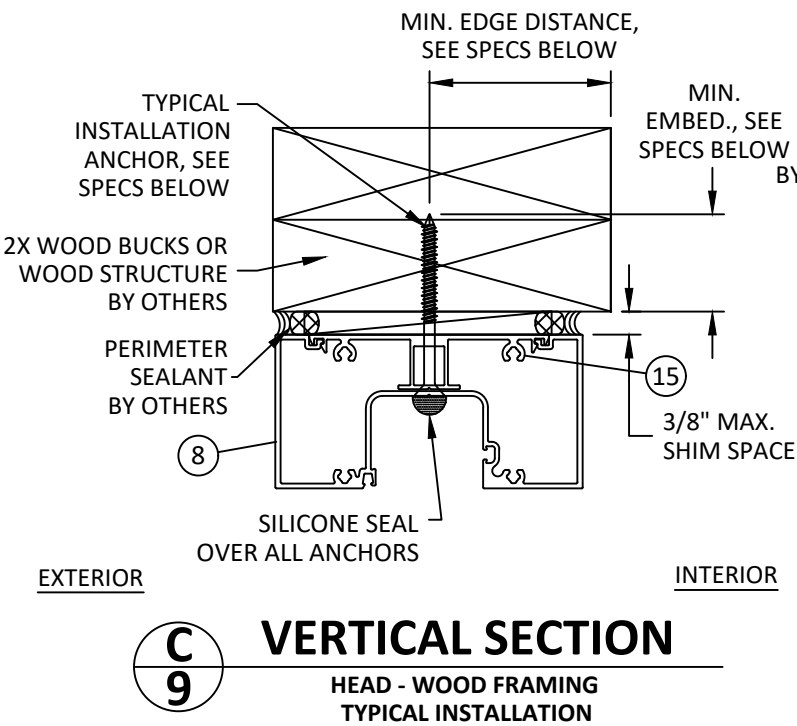
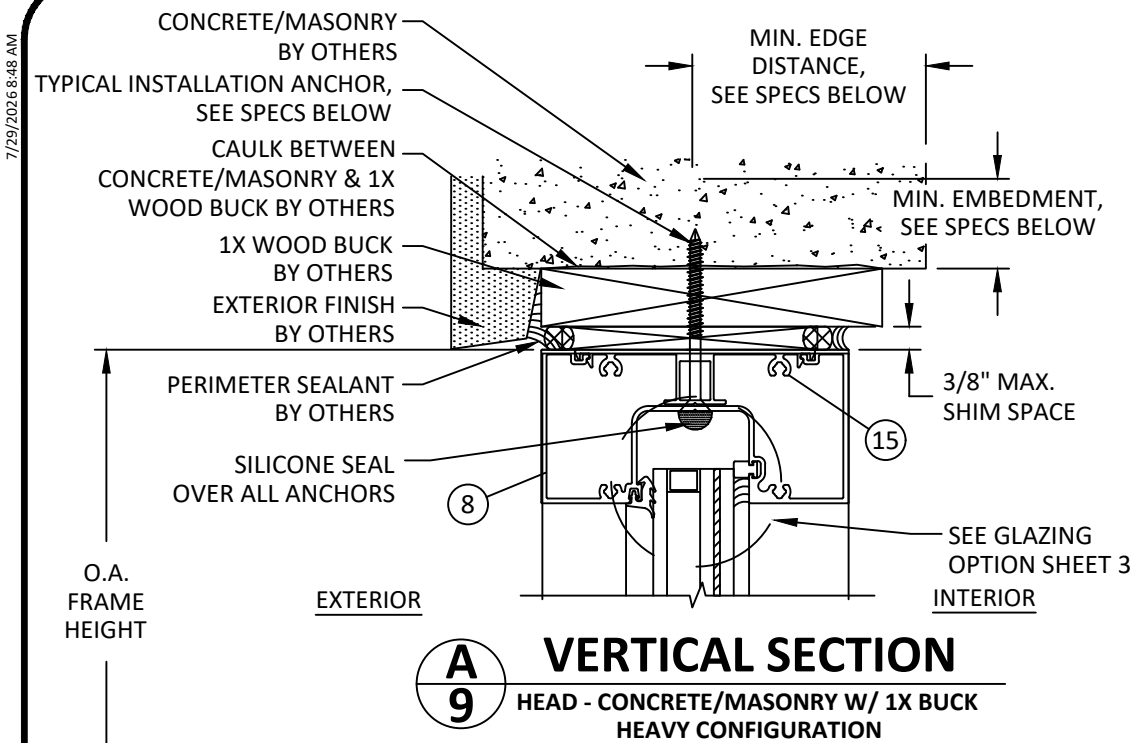
DWG. #:
YKK191

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8

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D

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YHS 50 FI ANCHOR SCHEDULE				
ANCHOR TYPE	ANCHOR DESCRIPTION	SUBSTRATE REQUIREMENTS	MIN. EMBEDMENT	MIN. EDGE DISTANCE
A	5/16" DEWALT ULTRACON	CONCRETE MIN. F'C = 3000 PSI	2"	3-1/8"
	5/16" ITW TAPCON+		1-1/4"	2-3/16"
	5/16" SELF-DRILLING SCREW (GRADE 5)	STEEL: MIN. 12 GA., MIN. Fy=36 KSI ALUM.: MIN. 1/8", MIN. 6063-T5"	3 THREADS PENETRATION PAST METAL STRUCTURE	3/4"
B	5/16" ITW TAPCON+	GROUT-FILLED BLOCK PER C-90, MIN. F'C = 2000 PSI	1-1/4"	3"
	5/16" DEWALT ULTRACON	WOOD MIN. S.G. = 0.55	1-1/2"	1-9/16"
	5/16" DEWALT TAPPER+	CONCRETE MIN. F'C = 3000 PSI	1-3/4"	2-1/2"
C	1/4" SELF-DRILLING SCREW (GRADE 5)	STEEL: MIN. 18 GA., MIN. Fy=36 KSI ALUM.: MIN. 1/8", MIN. 6063-T5"	3 THREADS PENETRATION PAST METAL STRUCTURE	3/4"
D	1/4" ITW TAPCON	CONCRETE MIN. F'C = 3000 PSI	1-3/4"	1-1/2"
	1/4" DEWALT ULTRACON+		1-3/4"	1-1/2"
	5/16" DEWALT ULTRACON	GROUT-FILLED BLOCK PER C-90, MIN. F'C = 2000 PSI	1-3/4"	2-1/2"
	1/4" DEWALT TAPPER+		1-1/2"	3"
E	1/4" DEWALT ULTRACON+	WOOD MIN. S.G. = 0.55	1-1/2"	1"
	1/4" DEWALT TAPPER+	CONCRETE MIN. F'C = 3000 PSI	1-3/4"	1-3/4"
	1/4" DEWALT ULTRACON+	GROUT-FILLED BLOCK PER C-90, MIN. F'C = 2000 PSI	1-3/4"	1-1/2"
	1/4" ITW TAPCON		1"	2"



YKK AP AMERICA, INC.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (678) 838-6000

TITLE: YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(HVHZ) (MISSILE LEVEL E IMPACT)

VERTICAL SECTIONS

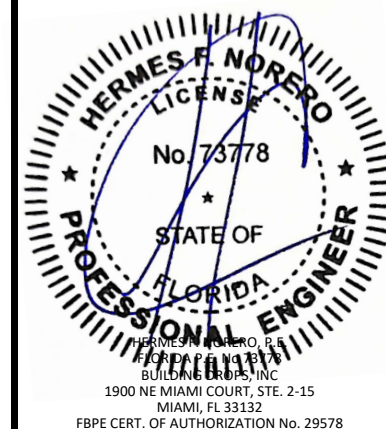
PREPARED BY: BUILDING DROPS, INC.

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MIAMI, FL 33132
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FAX: (954) 744-4738
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REMARKS	BY	DATE
FBC CODE UPDATE	RV	07.12.17
MISC. UPDATES	SH	12.14.22
ANCHOR UPDATE	SH	02.10.26
2026 CODE UPDATE	SH	07.28.26

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FL #:

FL14218

DATE: 11.23.16

DWG. BY:
LMS

CHK. BY:
HFN

SCALE: NTS

DWG. #: YKK191

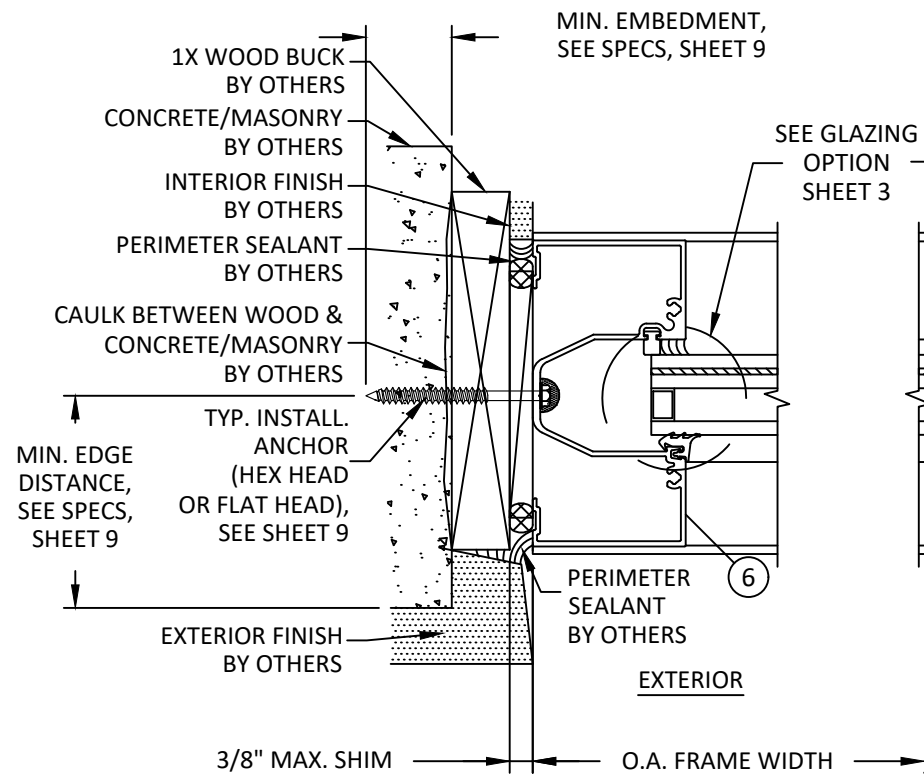
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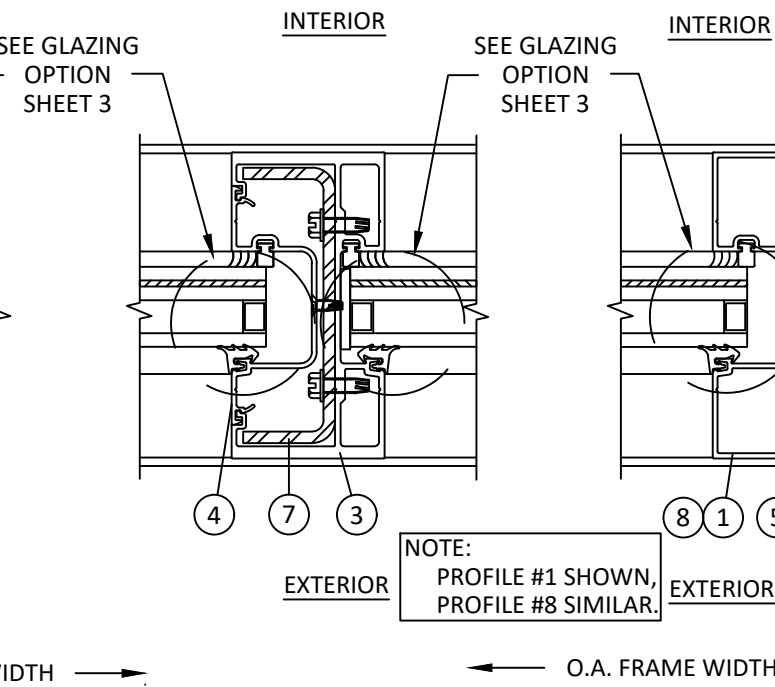
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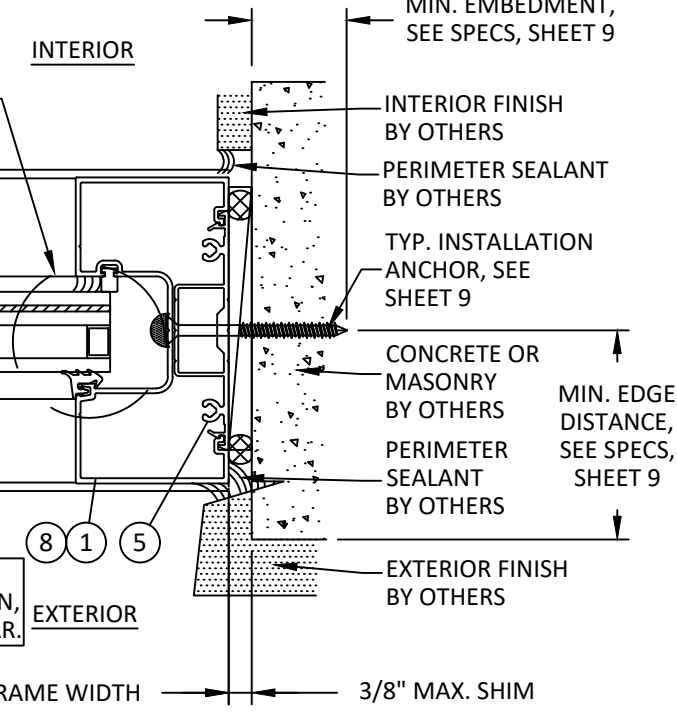
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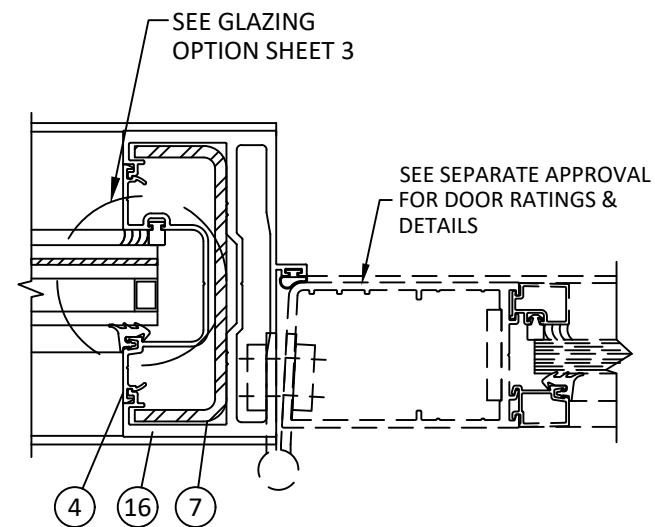
E
10 HORIZONTAL SECTION
JAMB - CONCRETE/MASONRY W/ 1X BUCK
HEAVY CONFIGURATION



F
10 HORIZONTAL SECTION
VERTICAL MULLION
HEAVY CONFIGURATION



G
10 HORIZONTAL SECTION
JAMB - DIRECT TO CONCRETE/MASONRY
HEAVY CONFIGURATION



H
10 HORIZONTAL SECTION
DOOR JAMB MULLION



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HORIZONTAL SECTIONS

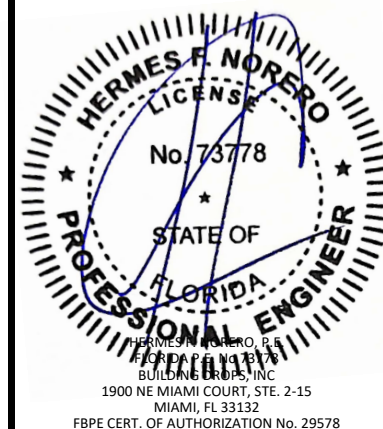
PREPARED BY: BUILDING DROPS, INC.

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DATE: **11.23.16**

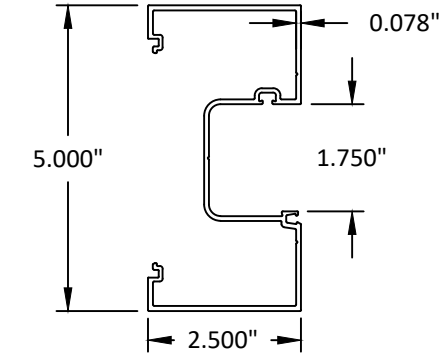
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SCALE: **NTS**

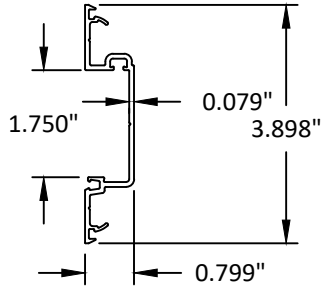
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SHEET: **10** REV. **D**

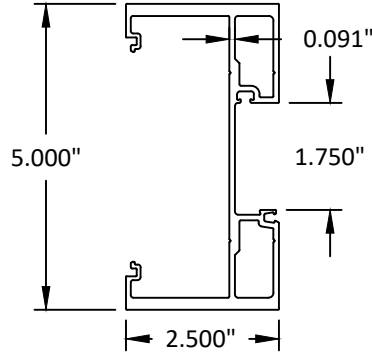
ITEM	PART NO.	DESCRIPTION	MATERIAL
1	E9-0663	JAMB / VERTICAL	6063-T5
2	E9-0655	SHALLOW POCKET FILLER	6063-T5
3	E9-0665	HEAVY DUTY VERTICAL	6063-T5
4	E9-0656	DEEP POCKET FILLER	6063-T5
5	E1-1068	FLAT FILLER AT PERIMETER ANCHOR	6063-T5
6	E9-0662	HEAD / JAMB	6063-T5
7	E1-1062	STEEL CHANNEL (1-1/2" X 4-1/2" X 3/16")	A36 STEEL
8	E9-0651	HEAD/JAMB	6063-T6
9	E9-0658	GLASS STOP	6063-T5
13	E9-0652	SILL (UP TO +70/-90 PSF)	6063-T5
14	E9-0619	SILL FLASHING (UP TO +70/-90 PSF)	6063-T5
15	E1-1073	ANCHOR FILLER	6063-T5
16	E9-0504	DOOR JAMB O/P	6063-T6
23	E2-0084	INTERIOR SILICONE SPACER	SILICONE
24	E2-0095	SETTING BLOCK	EPDM (85±5)
26	E2-0083	EXTERIOR GLAZING GASKET	EPDM



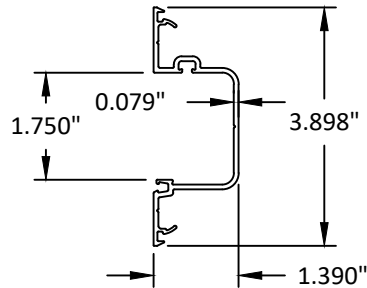
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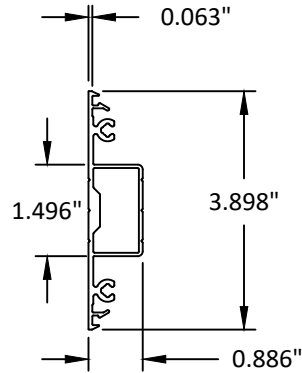
2 SHALLOW POCKET FILLER



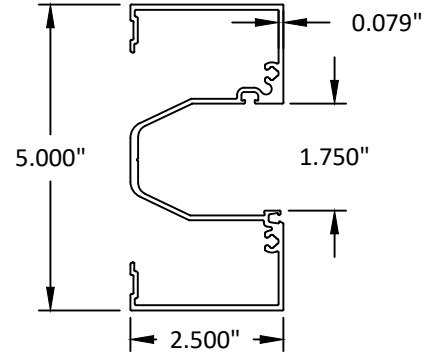
3 HEAVY DUTY MULLION



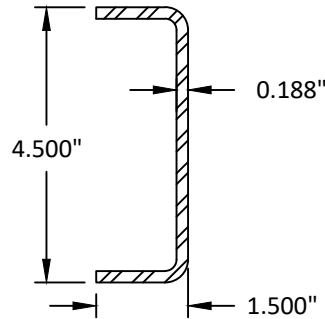
4 DEEP POCKET FILLER



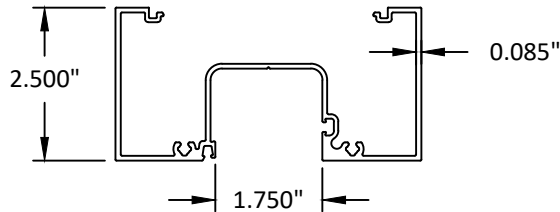
5 FLAT FILLER AT PERIMETER ANCHOR



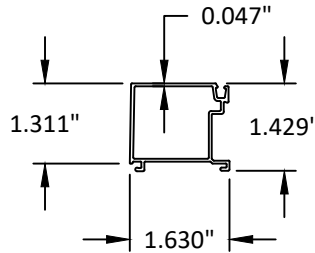
6 HEAD/JAMB



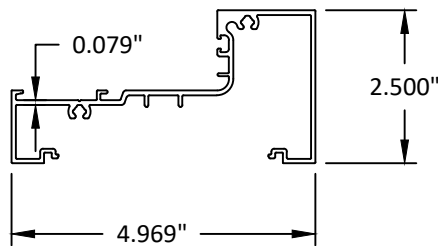
7 STEEL CHANNEL (1-1/2" X 4-1/2" X 3/16")



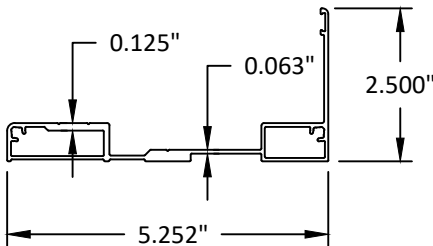
8 HEAD/JAMB



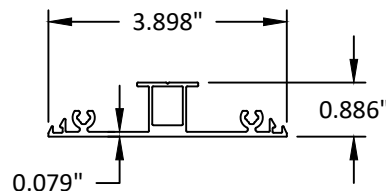
9 GLASS STOP



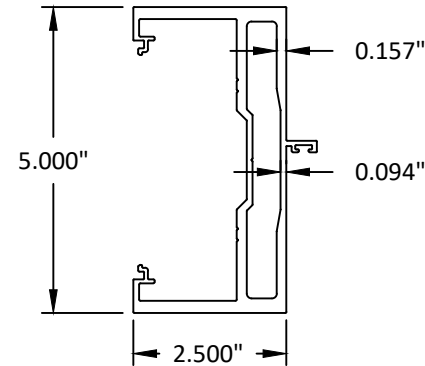
13 SILL (UP TO +70/-90 PSF)



14 SILL FLASHING (UP TO +70/-90 PSF)



15 ANCHOR FILLER



16 DOOR JAMB O/P



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SYSTEM - OUTSIDE GLAZED
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COMPONENTS & BILL OF MATERIALS

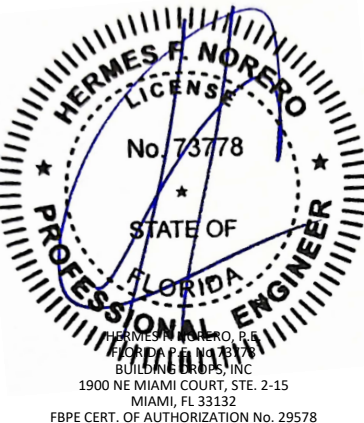
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SCALE: NTS

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SHEET: 11
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