

YKK AP AMERICA, INC.

YHS 50 FI ALUMINUM STOREFRONT SYSTEM - INSIDE GLAZED (HVHZ) (IMPACT)

INSTALLATION NOTES:

- SEE SHEET 14 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 SHEETS 3 & 4 FOR LMI AND SMI GLASS TYPES.
- 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 E1300 GLASS CHARTS. SEE SHEETS 3 & 4 FOR GLAZING DETAILS.

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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 CHARTS ON SHEETS 3 & 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 5, 6, 7, 8 & 9 FOR STORE FRONT MULLION AND SHEETS 12 & 13 FOR DOOR MULLION, THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- USING CHART ON SHEET 10, 11, & 11A 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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PH: (678) 838-6000

TITLE: YHS 50 FI ALUMINUM STOREFRONT SYSTEM - INSIDE GLAZED (HVHZ) (IMPACT)

INSTALLATION & GENERAL NOTES

PREPARED BY: BUILDING DROPS, INC.

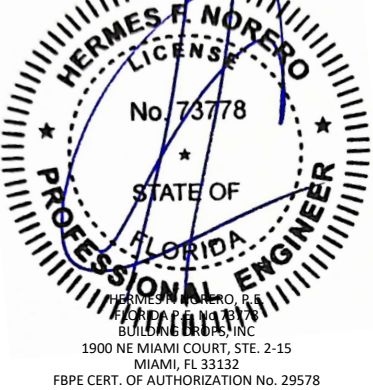
1900 NE MIAMI COURT, STE. 2-15
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WEB: www.buildingdrops.com



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

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.

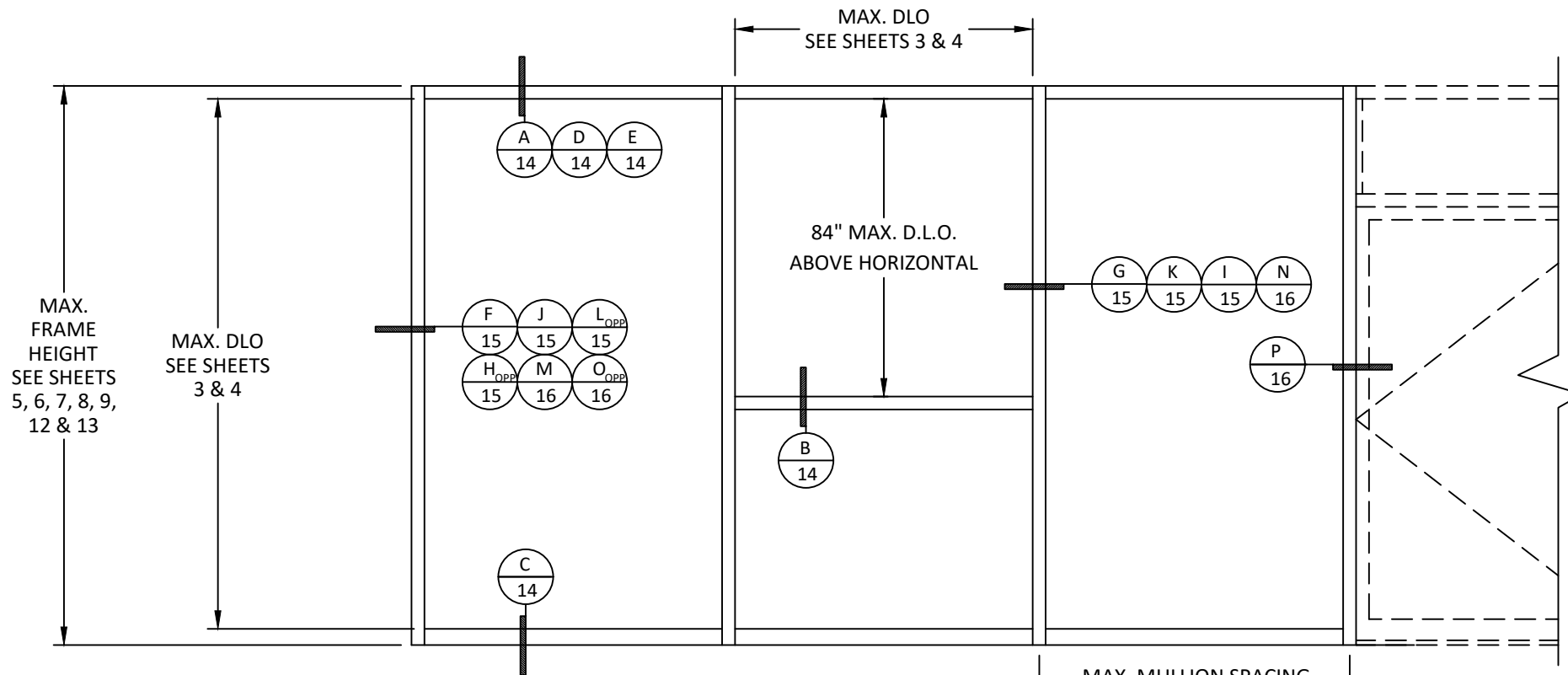
Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.08.03 18:21:04 -0400



FL #:		FL14218	
DATE:		11.18.15	
DWG. BY:	SM	CHK. BY:	HFN
SCALE:		NTS	
DWG. #:		YKK160	
SHEET:		REV. D	
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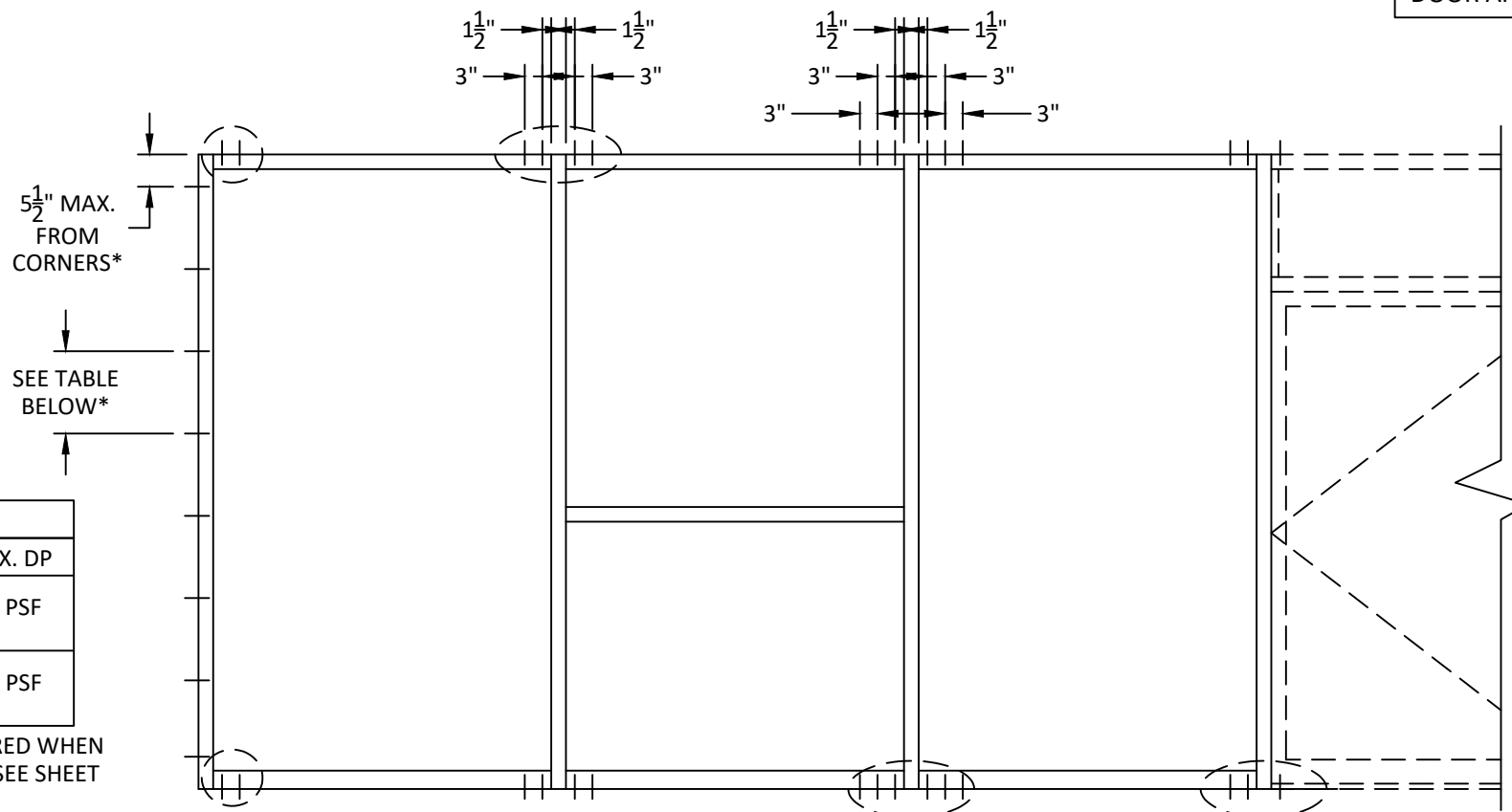


ELEVATION
TYPICAL YHS 50 FI STOREFRONT

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

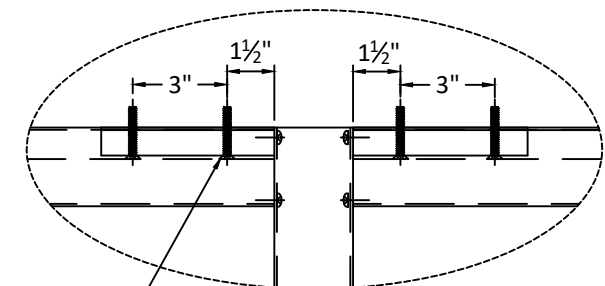
JAMB ANCHOR SPACING*		
ANCHOR TYPE	MAX. SPACING	MAX. DP
A OR B	18.75"	65 PSF
C, E OR D	13"	
A OR B	13.5"	90 PSF
C, E OR D	9.375"	

*NOTE: JAMB ANCHORS ARE ONLY REQUIRED WHEN USING "HEAVY" JAMB CONFIGURATIONS, SEE SHEET 16 FOR HEAVY JAMB DETAILS

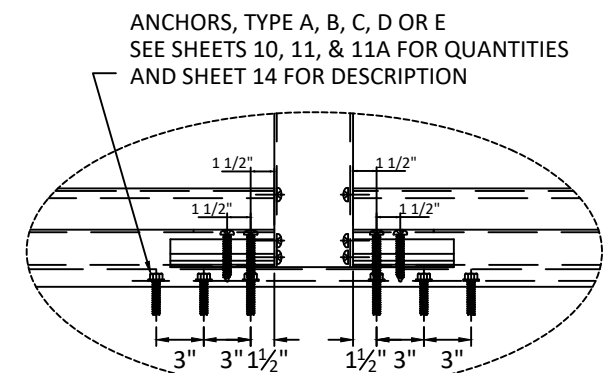


TYPICAL ANCHOR LAYOUT

FOR DOOR ADJACENT
MULLION ANCHOR
REQUIREMENTS SEE
SHEETS 12 & 13



ANCHORS, TYPE A, B, C, D OR E
SEE SHEETS 10, 11, & 11A FOR QUANTITIES
AND SHEET 14 FOR DESCRIPTION



ANCHORS, TYPE A, B, C, D OR E
SEE SHEETS 10, 11, & 11A FOR QUANTITIES
AND SHEET 14 FOR DESCRIPTION



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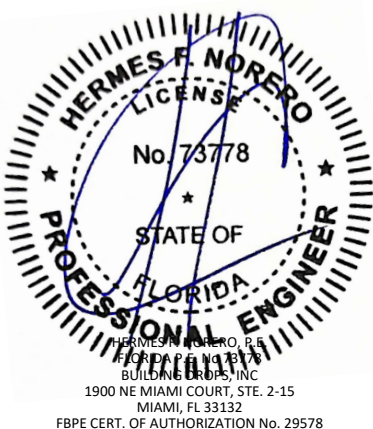
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SYSTEM - INSIDE GLAZED
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ELEVATION &
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SCALE: **NTS**

DWG. #: **YKK160**

SHEET: **2** REV. **D**

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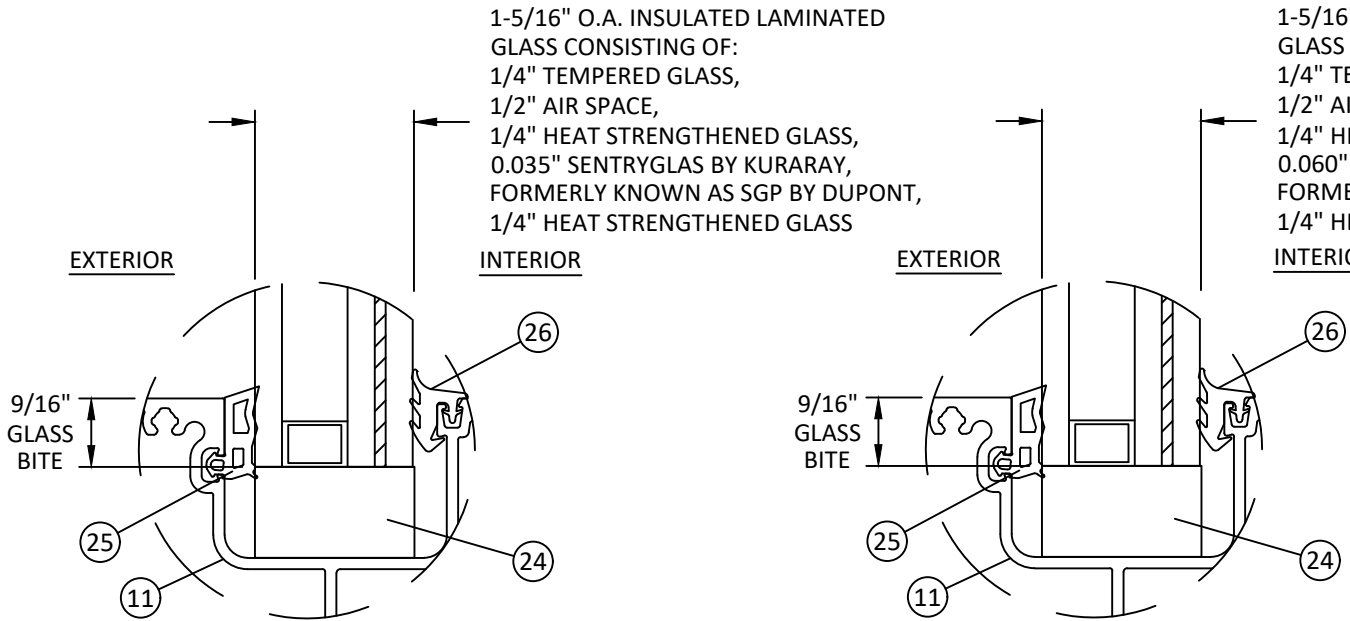
GLASS LOAD CAPACITY (PSF)				
DAYLIGHT OPENING (IN)		GLASS TYPES I OR J		GLASS TYPE K
DLO WIDTH	DLO HEIGHT	EXT. (+)	INT. (-)	EXT. (+) INT. (-)
27.5	54.375	70.0	90.0	70.0
33.5		70.0	90.0	70.0
39.5		70.0	90.0	70.0
45.5		70.0	90.0	70.0
51.5		70.0	90.0	70.0
57.5		70.0	90.0	70.0
63.5		70.0	90.0	70.0
69.5		70.0	90.0	70.0
27.5	60.375	70.0	90.0	70.0
33.5		70.0	90.0	70.0
39.5		70.0	90.0	70.0
45.5		70.0	90.0	70.0
51.5		70.0	90.0	70.0
57.5		70.0	90.0	70.0
63.5		66.7	85.7	66.7
69.5		66.7	85.7	66.7
27.5	66.375	70.0	90.0	70.0
33.5		70.0	90.0	70.0
39.5		70.0	90.0	70.0
45.5		70.0	90.0	70.0
51.5		70.0	90.0	70.0
57.5		70.0	90.0	70.0
63.5		63.4	81.5	63.4
69.5		60.6	78.0	60.6
27.5	72.375	70.0	90.0	70.0
33.5		70.0	90.0	70.0
39.5		70.0	90.0	70.0
45.5		70.0	90.0	70.0
51.5		70.0	90.0	70.0
57.5		70.0	90.0	70.0
63.5		63.4	81.5	63.4
69.5		57.9	74.5	57.9
27.5	78.375	70.0	90.0	70.0
33.5		70.0	90.0	70.0
39.5		70.0	90.0	70.0
45.5		70.0	90.0	70.0
51.5		70.0	90.0	70.0
57.5		70.0	90.0	70.0
63.5		63.4	81.5	63.4
69.5		57.9	74.5	57.9
27.5	84.375	70.0	90.0	70.0
33.5		70.0	90.0	70.0
39.5		70.0	90.0	70.0
45.5		70.0	90.0	70.0
51.5		70.0	90.0	70.0
57.5		70.0	90.0	70.0
63.5		63.4	81.5	63.4
69.5		57.9	74.5	57.9

- * 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.

GLASS LOAD CAPACITY (PSF)				
DAYLIGHT OPENING (IN)		GLASS TYPES I OR J		GLASS TYPE K
DLO WIDTH	DLO HEIGHT	EXT. (+)	INT. (-)	"EXT. (+) INT. (-)"
27.5	90.375	70.0	90.0	70.0
33.5		70.0	90.0	70.0
39.5		70.0	90.0	70.0
45.5		70.0	90.0	70.0
51.5		70.0	90.0	70.0
57.5		70.0	90.0	70.0
63.5		63.4	81.5	63.4
69.5		57.9	74.5	47.2
27.5	96.375	70.0	90.0	70.0
33.5		70.0	90.0	70.0
39.5		70.0	90.0	70.0
45.5		70.0	90.0	70.0
51.5		70.0	90.0	70.0
57.5		70.0	90.0	70.0
63.5		63.4	81.5	51.7
66.5		60.5	77.8	49.4
27.5	102.375	70.0	90.0	70.0
33.5		70.0	90.0	70.0
39.5		70.0	90.0	70.0
45.5		70.0	90.0	70.0
51.5		70.0	90.0	70.0
57.5		70.0	90.0	70.0
63.5		63.4	81.5	51.7
27.5	108.375	70.0	90.0	70.0
33.5		70.0	90.0	70.0
39.5		70.0	90.0	70.0
45.5		70.0	90.0	70.0
51.5		70.0	90.0	70.0
57.5		70.0	90.0	57.1
60.5		66.5	85.5	54.3
27.5	114.375	70.0	90.0	70.0
33.5		70.0	90.0	70.0
39.5		70.0	90.0	70.0
45.5		70.0	90.0	70.0
51.5		70.0	90.0	57.1
57.5		70.0	90.0	57.1
27.5	120.375	70.0	90.0	70.0
33.5		70.0	90.0	70.0
38.5		70.0	90.0	70.0
27.5	126.375	70.0	90.0	70.0
33.5		70.0	90.0	70.0
36.5		70.0	90.0	70.0
27.5	132.375	70.0	90.0	70.0
33.5		70.0	90.0	70.0
34.5		70.0	90.0	70.0
27.5	138.375	70.0	90.0	70.0
33.5		70.0	90.0	70.0
33.5		70.0	90.0	70.0

GLASS TYPES

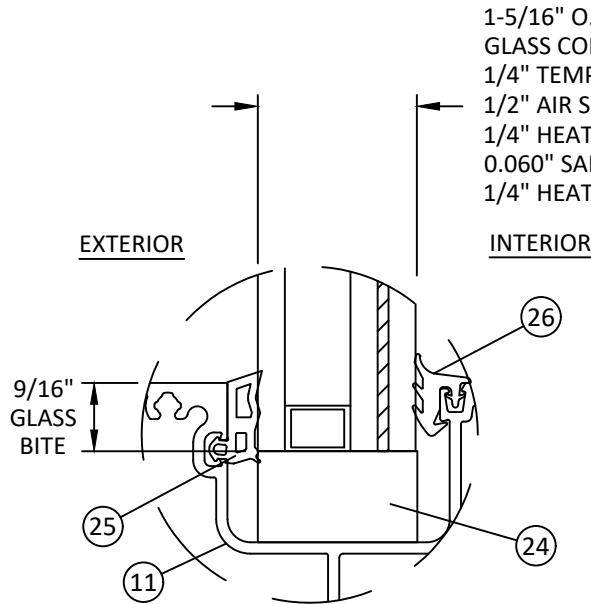
SMALL MISSILE IMPACT ONLY



GLAZING DETAIL I
(DRY GLAZED)

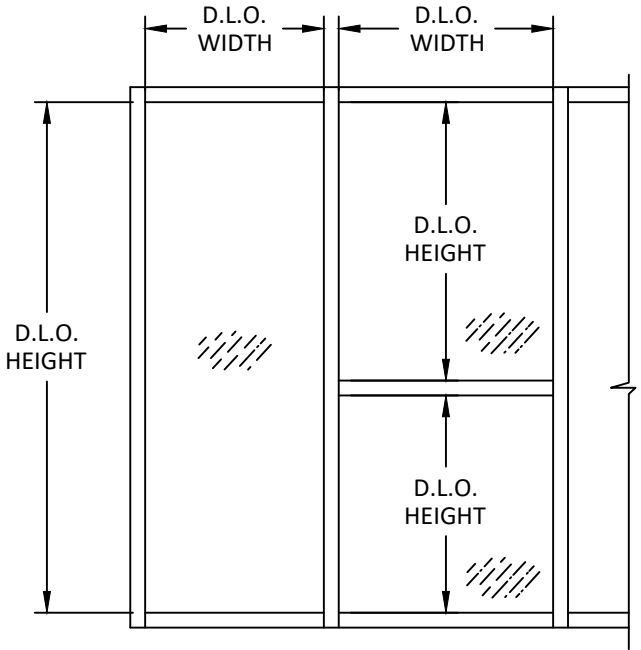
GLAZING DETAIL J
(DRY GLAZED)

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



GLAZING DETAIL K
(DRY GLAZED)

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



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TITLE:
YHS 50 FL ALUMINUM STOREFRONT
SYSTEM - INSIDE GLAZED
(HVHZ) (IMPACT)

SMI GLAZING DETAILS

PREPARED BY:

BUILDING DROPS, INC.

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PH: (954) 399-8478

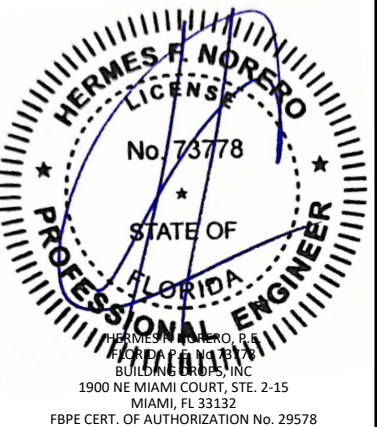
FAX: (954) 744-4738

WEB: www.buildingdrops.com



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FBC CODE UPDATE	RV	07.12.17
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DWG. BY:
SM

CHK. BY:
HFN

SCALE: NTS

DWG. #: YKK160

SHEET:

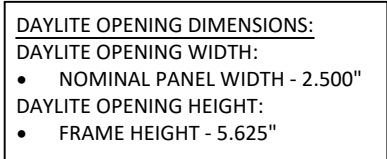
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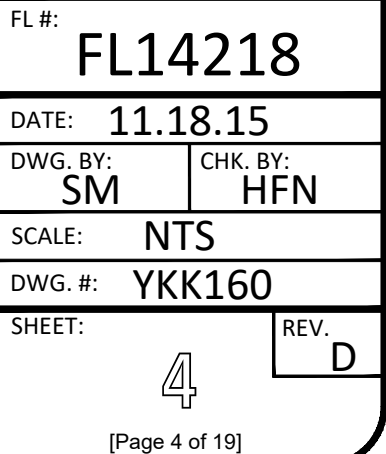
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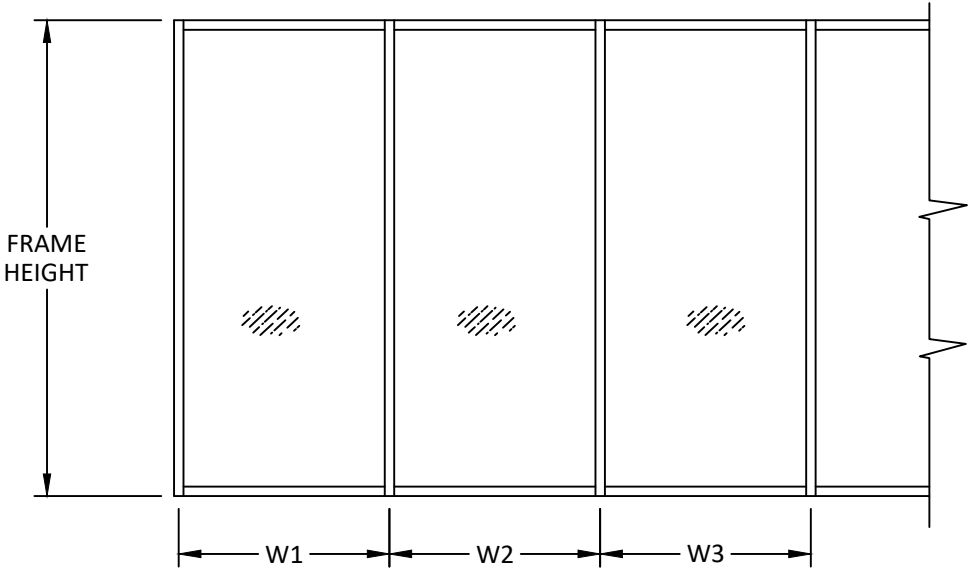
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MULLION LOAD TABLES

LIGHT CONFIGURATION

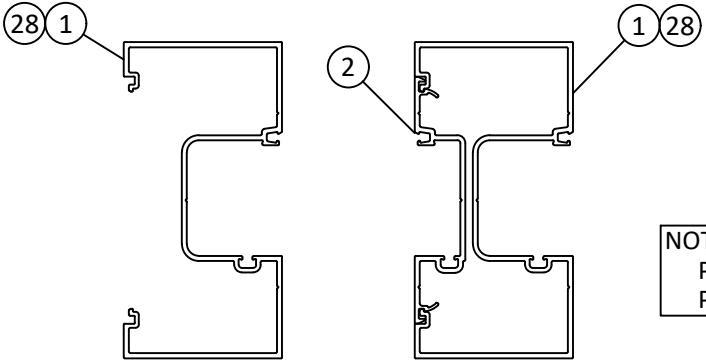
DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		LIGHT JAMB - J1	LIGHT MULLION - M1
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	72	50.0	50.0
33		50.0	50.0
36		50.0	50.0
39		50.0	50.0
42		50.0	50.0
45		50.0	50.0
48		50.0	50.0
51		50.0	50.0
54		50.0	50.0
57		50.0	50.0
60		50.0	50.0
63		50.0	50.0
66	78	50.0	50.0
69		50.0	50.0
72		50.0	50.0
30		50.0	50.0
33		50.0	50.0
36		50.0	50.0
39		50.0	50.0
42		50.0	50.0
45		50.0	50.0
48		50.0	50.0
51		50.0	50.0
54		50.0	50.0
57	84	50.0	50.0
60		50.0	50.0
63		50.0	50.0
66		50.0	50.0
30		50.0	50.0
33		50.0	50.0
36		50.0	50.0
39		50.0	50.0
42		50.0	50.0
45		50.0	50.0
48		50.0	50.0
51		50.0	50.0
54		50.0	50.0
57		50.0	50.0
60		50.0	50.0

DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		LIGHT JAMB - J1	LIGHT MULLION - M1
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	90	50.0	50.0
33		50.0	50.0
36		50.0	50.0
39		50.0	50.0
42		50.0	50.0
45		50.0	50.0
48		50.0	50.0
51		50.0	50.0
54		50.0	48.4
57		50.0	45.9
30	96	50.0	50.0
33		50.0	50.0
36		50.0	50.0
39		50.0	50.0
42		50.0	50.0
45		50.0	50.0
48		50.0	47.9
51		50.0	45.1
54		50.0	42.6
30	102	50.0	50.0
33		50.0	50.0
36		50.0	50.0
39		50.0	50.0
42		50.0	48.5
45		50.0	45.2
48		50.0	42.4
51		50.0	40.7
30	108	50.0	50.0
33		50.0	50.0
36		50.0	50.0
39		50.0	46.6
42		50.0	43.2
45		50.0	40.3
48		50.0	37.8



WIDTH (W) = W1 (JAMB)

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



LIGHT JAMB - J1

LIGHT MULLION - M1

LIGHT CONFIGURATION



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PH: (678) 838-6000

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YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - INSIDE GLAZED
(HVHZ) (IMPACT)
LIGHT MULL TABLES

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BUILDING DROPS, INC.
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MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



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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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SM	HFN
SCALE:	NTS
DWG. #:	YKK160
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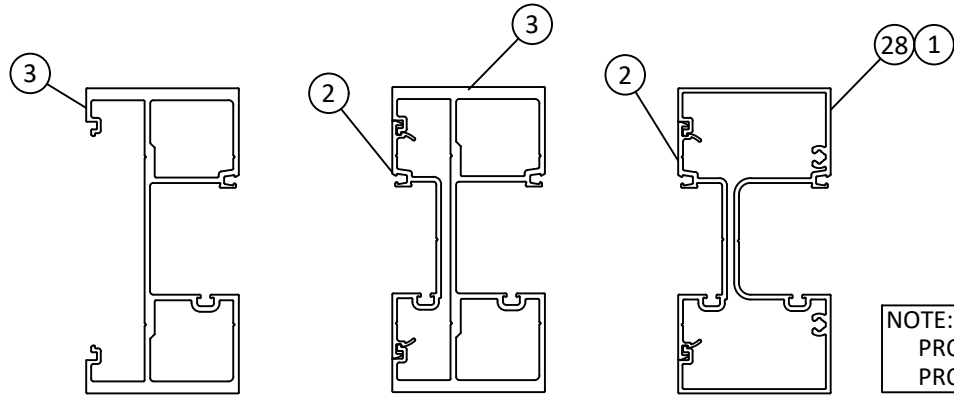
[Page 5 of 19]

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MULLION LOAD TABLES
MEDIUM CONFIGURATION

DESIGN LOAD CAPACITY - PSF				
NOMINAL DIMS.		MEDIUM JAMB - J2	MEDIUM JAMB - J3	MEDIUM MULLION - M2
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	60	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	70.0
54		70.0	70.0	70.0
60		70.0	70.0	70.0
66		70.0	70.0	70.0
72		70.0	70.0	70.0
30	66	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	70.0
54		70.0	70.0	70.0
60		70.0	70.0	70.0
66		70.0	70.0	70.0
72		70.0	70.0	70.0
30	72	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	70.0
54		70.0	70.0	70.0
60		70.0	70.0	70.0
66		70.0	70.0	70.0
72		70.0	70.0	70.0
30	78	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	70.0
54		70.0	70.0	70.0
60		70.0	70.0	70.0
66		70.0	70.0	70.0
72		70.0	70.0	70.0

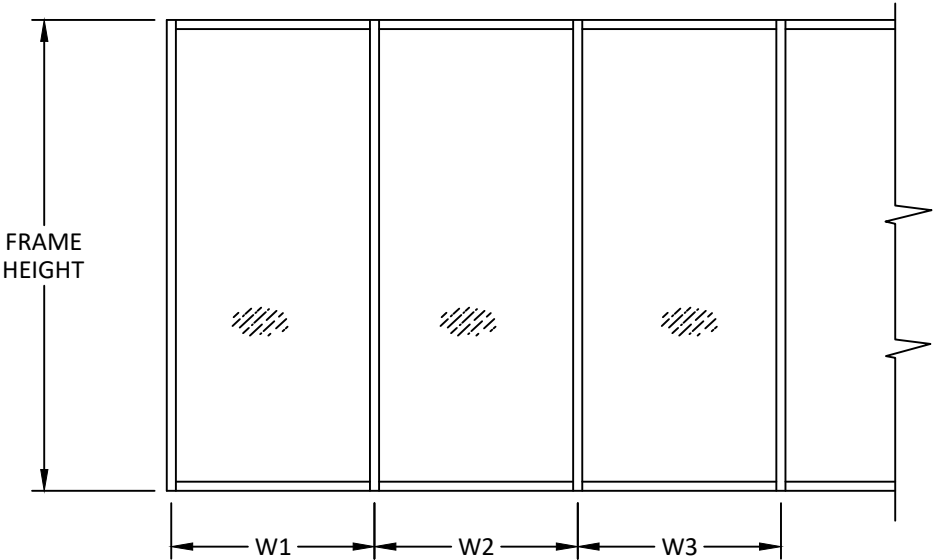
DESIGN LOAD CAPACITY - PSF				
NOMINAL DIMS.		MEDIUM JAMB - J2	MEDIUM JAMB - J3	MEDIUM MULLION - M2
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	84	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	70.0
54		70.0	70.0	70.0
60		70.0	70.0	70.0
66		70.0	70.0	70.0
72		70.0	70.0	70.0
30	90	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	70.0
54		70.0	70.0	70.0
60		70.0	70.0	70.0
66		70.0	70.0	70.0
72		70.0	70.0	70.0
30	96	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	70.0
54		70.0	70.0	70.0
60		70.0	70.0	70.0
66		70.0	70.0	70.0
72		70.0	67.2	64.7
30	102	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	70.0
54		70.0	70.0	70.0
60		70.0	70.0	68.2
66		70.0	64.5	62.0
72		70.0	70.0	70.0
30	108	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	70.0
54		70.0	69.8	67.2
60		70.0	62.8	60.4
66		70.0	70.0	70.0
72		70.0	70.0	70.0
30	108	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	67.4
54	108	70.0	62.3	59.9
60		70.0	56.0	53.9



NOTE:
PROFILE #28 SHOWN,
PROFILE #1 SIMILAR.

MEDIUM JAMB - J2 MEDIUM MULLION - M2 MEDIUM JAMB - J3

MEDIUM CONFIGURATION



WIDTH (W) = W1 (JAMB)
WIDTH (W) = $\frac{W2 + W3}{2}$ (MULLION)



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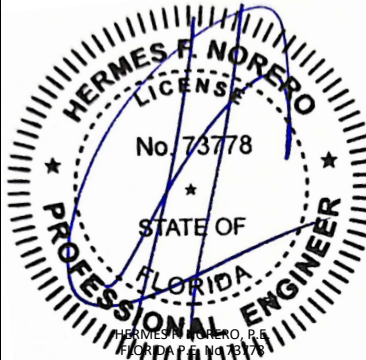
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MEDIUM MULL TABLES

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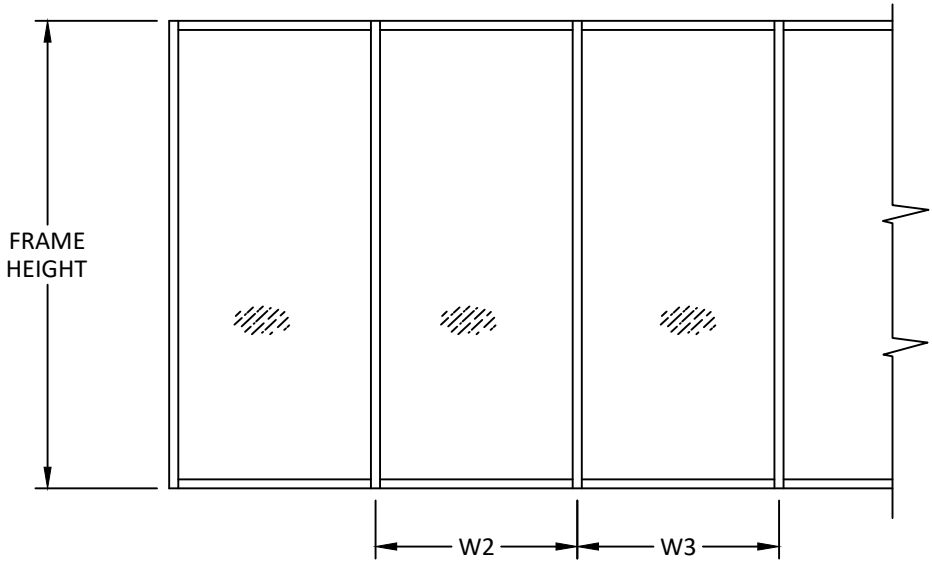
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MULLION LOAD TABLES

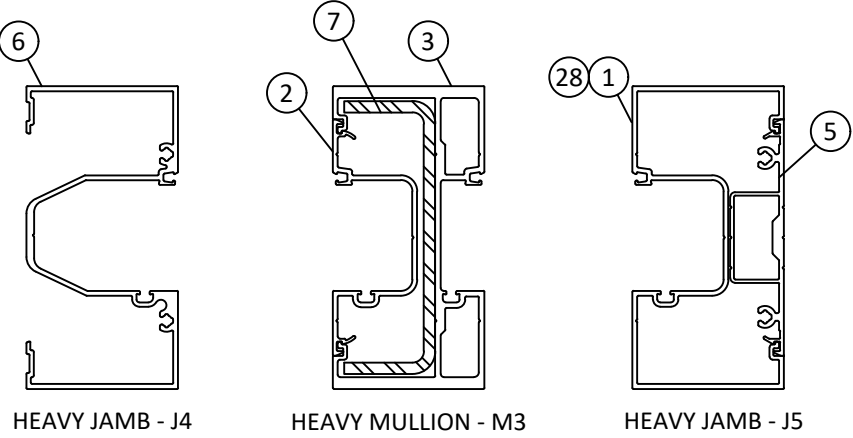
HEAVY CONFIGURATION

DESIGN LOAD CAPACITY - PSF		
NOMINAL DIMS.		HEAVY MULLION - M3
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)
72	96	65.0
69	102	65.0
66	108	65.0
63	114	65.0
60	120	65.0
41	126	65.0
39	132	65.0
37	138	65.0
36	144	65.0

NOTE: HEAVY CONFIGURATION JAMBS ARE ANCHORED ALONG THEIR LENGTH AND THEREFORE DO NOT LIMIT DESIGN PRESSURE.



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



HEAVY CONFIGURATION

NOTE:
PROFILE #1 SHOWN,
PROFILE #28 SIMILAR.



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(HVHZ) (IMPACT)
HEAVY MULL TABLES

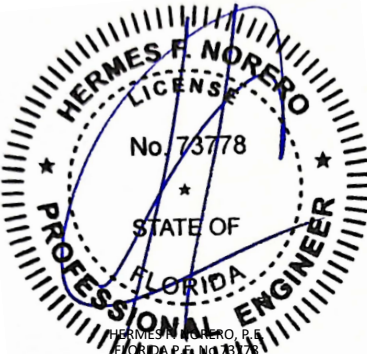
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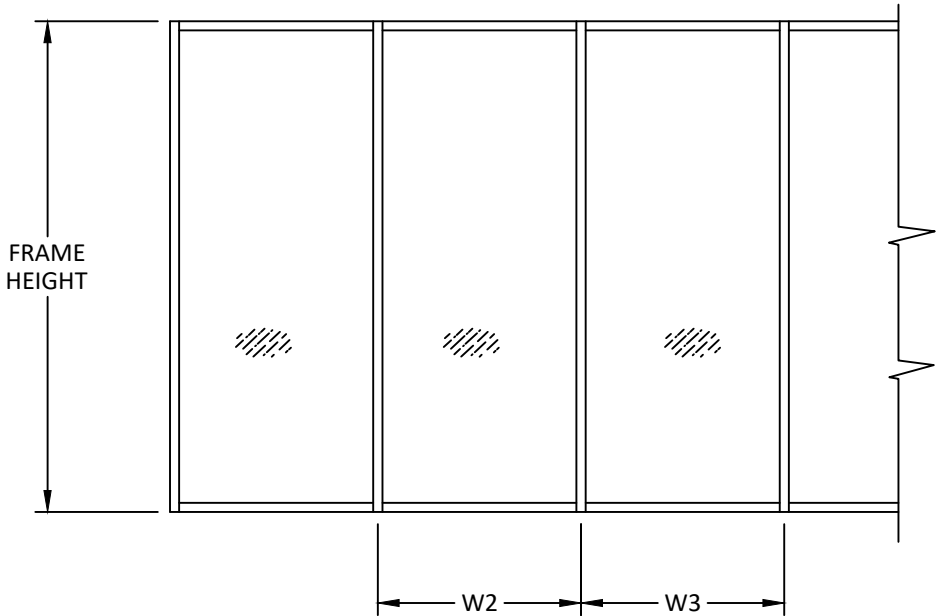
MULLION LOAD TABLES

EXPANSION MULLION

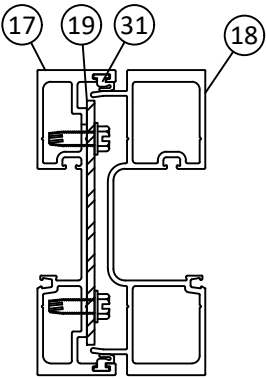
DESIGN LOAD CAPACITY - PSF		
NOMINAL DIMS.		EXPANSION MULLION
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)
30	72	65.0
33		65.0
36		65.0
39		65.0
42		65.0
45		65.0
48		65.0
51		65.0
54		65.0
57		65.0
60		65.0
63		65.0
66	78	65.0
69		65.0
72		65.0
30		65.0
33		65.0
36		65.0
39		65.0
42		65.0
45		65.0
48		65.0
51		65.0
54		65.0
57	84	64.1
60		65.0
63		65.0
66		65.0
69		65.0
72		65.0
30		65.0
33		65.0
36		65.0
39		65.0
42		65.0
45		65.0
48		65.0
51		65.0
54		65.0
57		65.0
60		65.0
63		63.2
66		60.3
69		57.7
72		55.3

DESIGN LOAD CAPACITY - PSF		
NOMINAL DIMS.		EXPANSION MULLION
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)
30	90	65.0
33		65.0
36		65.0
39		65.0
42		65.0
45		65.0
48		65.0
51		65.0
54		64.2
57		60.8
60		57.8
63		55.0
66	96	52.5
69		50.2
72		48.1
30		65.0
33		65.0
36		65.0
39		65.0
42		65.0
45		65.0
48		63.5
51		59.7
54		56.4
57	102	53.5
60		50.8
63		48.4
66		46.2
69		44.2
72		42.3
30		65.0
33		65.0
36		65.0
39		65.0
42		64.3
45		60.0
48		56.2
51		52.9
54		50.0
57		47.3
60		45.0
63		42.8
66		40.9
69		39.1

DESIGN LOAD CAPACITY - PSF		
NOMINAL DIMS.		EXPANSION MULLION
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)
30	108	65.0
33		65.0
36		65.0
39		61.7
42		57.3
45		53.5
48		50.2
51		47.2
54		44.6
57		42.2
60		40.1
63		38.2
66	114	36.5
30		65.0
33		65.0
36		60.0
39		55.4
42		51.4
45		48.0
48		45.0
51		42.4
54		40.0
57		37.9
60		36.0
63	120	34.3
30		65.0
33		59.1
36		54.2
39		50.0
42		46.4
45		43.3
48		40.6
51		38.2
54		36.1
57		34.2
60		32.5
63	126	29.0
30		59.0
33		53.6
36		49.1
39		45.4
41		43.1
30	132	53.7
33		48.8
36		44.8
39		41.3
30		49.1
33		44.7
37		39.8
30	144	45.1
33		41.0
36		37.6



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



EXPANSION MULLION

NOTE: EXPANSION MULL MAY BE USED WITH ANY MULLION CONFIGURATION SUCH THAT ALLOWABLE SIZES AND PRESSURES ARE NOT EXCEEDED.



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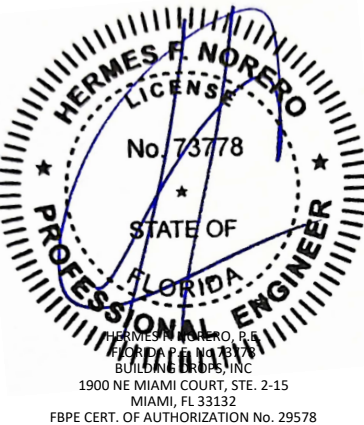
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EXPANSION MULL TABLES

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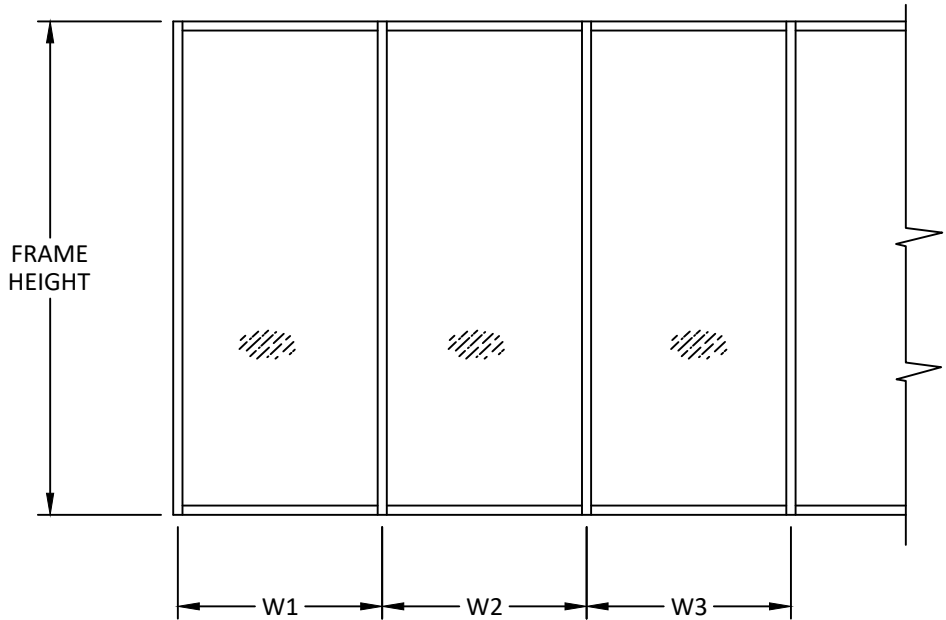
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SMI MULLION LOAD TABLES

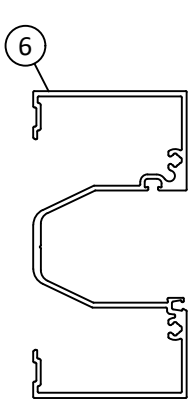
HEAVY CONFIGURATION FOR USE IN SMALL MISSILE IMPACT APPLICATIONS ONLY

DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		HEAVY MULLION - M3	
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
57	120	70.0	90.0
60		70.0	88.7
41	126	70.0	90.0
39	132	70.0	90.0
37	138	70.0	90.0
33	144	70.0	90.0
36		67.5	86.8

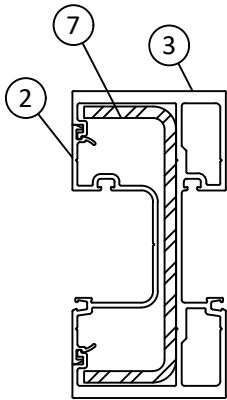
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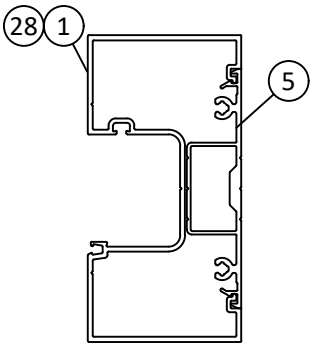
WIDTH (W) = $\frac{W2 + W3}{2}$ (MULLION)



HEAVY JAMB - J4



HEAVY MULLION - M3



HEAVY JAMB - J5

NOTE:
PROFILE #1 SHOWN,
PROFILE #28 SIMILAR.

HEAVY CONFIGURATION

NOTE: ALL PREVIOUSLY DETAILED MULLION CONFIGURATIONS ARE ACCEPTABLE FOR USE IN SMI CONFIGURATIONS IN ADDITION TO THE CONFIGURATION AND RATINGS SHOWN ON THIS PAGE.



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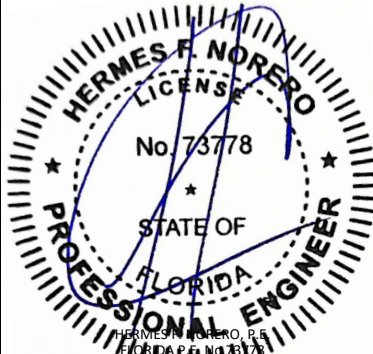
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ATLANTA, GA 30303
PH: (678) 838-6000

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SMI ONLY
HEAVY MULL TABLES

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MIAMI, FL 33132
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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

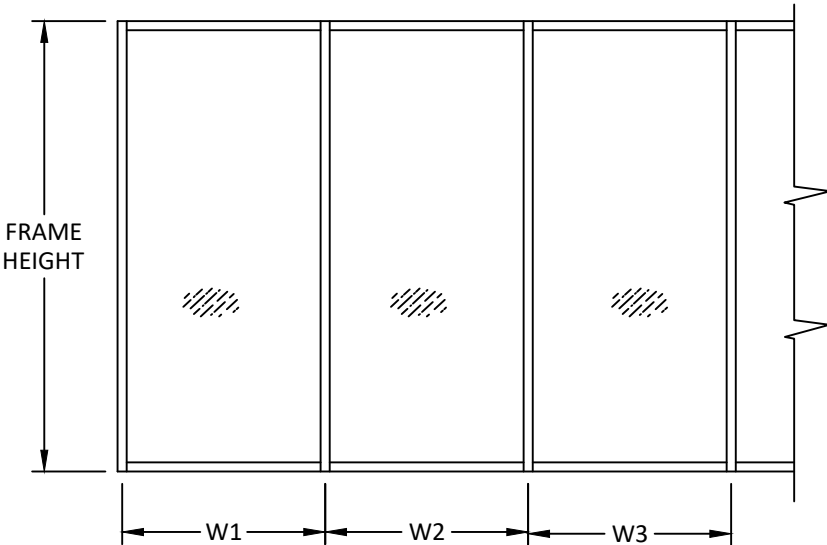
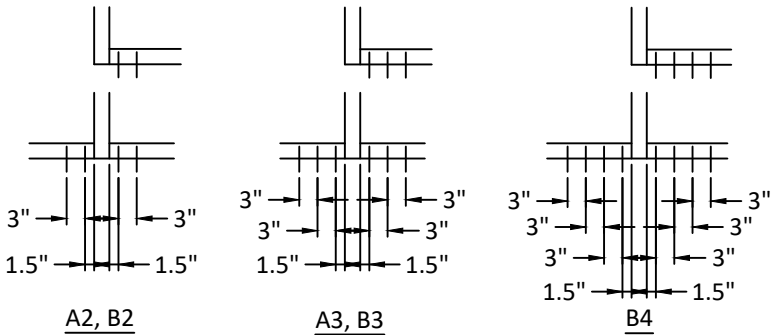
ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT (-)					
NOMINAL DIMS. (IN)		ANCHOR TYPE 'A'		ANCHOR TYPE 'B'	
WIDTH (W)	FRAME HEIGHT	A2	A3	B2	B3
30	90	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0
45		90.0	90.0	90.0	90.0
48		90.0	90.0	90.0	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	B4	
30	108	90.0	90.0	90.0	90.0	90.0	
33		90.0	90.0	90.0	90.0	90.0	
36		90.0	90.0	90.0	90.0	90.0	
39		90.0	90.0	90.0	90.0	90.0	
42		90.0	90.0	90.0	90.0	90.0	
45		90.0	90.0	87.4	90.0	90.0	
48		90.0	90.0	81.9	90.0	90.0	
51		90.0	90.0	77.1	90.0	90.0	
54		85.2	90.0	72.8	90.0	90.0	
57		80.7	90.0	69.0	90.0	90.0	
60		76.7	90.0	65.5	90.0	90.0	
63		73.0	90.0	62.4	90.0	90.0	
66		69.7	90.0	59.6	89.4	90.0	
30	114	90.0	90.0	90.0	90.0	90.0	
33		90.0	90.0	90.0	90.0	90.0	
36		90.0	90.0	90.0	90.0	90.0	
39		90.0	90.0	90.0	90.0	90.0	
42		90.0	90.0	88.7	90.0	90.0	
45		90.0	90.0	82.8	90.0	90.0	
48		90.0	90.0	77.6	90.0	90.0	
51		85.4	90.0	73.0	90.0	90.0	
54		80.7	90.0	69.0	90.0	90.0	
57		76.5	90.0	65.3	90.0	90.0	
60		72.6	90.0	62.1	90.0	90.0	
63		69.2	90.0	59.1	88.7	90.0	
30		120	90.0	90.0	90.0	90.0	90.0
33	90.0		90.0	90.0	90.0	90.0	
36	90.0		90.0	90.0	90.0	90.0	
39	90.0		90.0	90.0	90.0	90.0	
42	90.0		90.0	84.3	90.0	90.0	
45	90.0		90.0	78.6	90.0	90.0	
48	86.3		90.0	73.7	90.0	90.0	
51	81.2		90.0	69.4	90.0	90.0	
54	76.7		90.0	65.5	90.0	90.0	
57	72.6		90.0	62.1	90.0	90.0	
60	69.0		90.0	59.0	88.5	90.0	
30	126		90.0	90.0	90.0	90.0	90.0
33			90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	90.0	
39		90.0	90.0	86.4	90.0	90.0	
41		90.0	90.0	82.2	90.0	90.0	
30	132	90.0	90.0	90.0	90.0	90.0	
33		90.0	90.0	90.0	90.0	90.0	
36		90.0	90.0	89.4	90.0	90.0	
39		90.0	90.0	82.5	90.0	90.0	
30	138	90.0	90.0	90.0	90.0	90.0	
33		90.0	90.0	90.0	90.0	90.0	
36		90.0	90.0	85.5	90.0	90.0	
37		90.0	90.0	83.2	90.0	90.0	
30	144	90.0	90.0	90.0	90.0	90.0	
33		90.0	90.0	89.4	90.0	90.0	
36		90.0	90.0	81.9	90.0	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
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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 - INSIDE GLAZED
(HVHZ) (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

BD
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

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
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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

FL #:
FL14218

DATE: **11.18.15**

DWG. BY:
SM

CHK. BY:
HFN

SCALE: **NTS**

DWG. #: **YKK160**

SHEET:
10

REV.
D

[Page 10 of 19]

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	D5
30	72	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
36		90.0	90.0	90.0	88.9	90.0	90.0
39		90.0	90.0	90.0	82.1	90.0	90.0
42		90.0	90.0	90.0	76.2	90.0	90.0
45		90.0	90.0	90.0	71.1	90.0	90.0
48		90.0	90.0	90.0	66.7	90.0	90.0
51		90.0	90.0	90.0	62.7	90.0	90.0
54		85.2	90.0	90.0	59.3	88.9	90.0
57		80.8	90.0	90.0	56.1	84.2	90.0
60		76.7	90.0	90.0	53.3	80.0	90.0
63		73.1	90.0	90.0	50.8	76.2	90.0
66	78	69.7	90.0	90.0	48.5	72.7	90.0
69		66.7	90.0	90.0	46.4	69.6	90.0
72		63.9	90.0	90.0	44.4	66.7	88.9
30		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
36		90.0	90.0	90.0	82.1	90.0	90.0
39		90.0	90.0	90.0	75.7	90.0	90.0
42		90.0	90.0	90.0	70.3	90.0	90.0
45		90.0	90.0	90.0	65.6	90.0	90.0
48		88.5	90.0	90.0	61.5	90.0	90.0
51		83.3	90.0	90.0	57.9	86.9	90.0
54		78.7	90.0	90.0	54.7	82.1	90.0
57	84	74.5	90.0	90.0	51.8	77.7	90.0
60		70.8	90.0	90.0	49.2	73.8	90.0
63		67.4	90.0	90.0	46.9	70.3	90.0
66		64.4	90.0	90.0	44.8	67.1	89.5
69		61.6	90.0	90.0	42.8	64.2	85.6
72		59.0	88.5	90.0	41.0	61.5	82.1
30		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
36		90.0	90.0	90.0	76.2	90.0	90.0
39		90.0	90.0	90.0	70.3	90.0	90.0
42		90.0	90.0	90.0	65.3	90.0	90.0
45		87.7	90.0	90.0	61.0	90.0	90.0
48	90	82.2	90.0	90.0	57.1	85.7	90.0
51		77.4	90.0	90.0	53.8	80.7	90.0
54		73.1	90.0	90.0	50.8	76.2	90.0
57		69.2	90.0	90.0	48.1	72.2	90.0
60		65.8	90.0	90.0	45.7	68.6	90.0
63		62.6	90.0	90.0	43.5	65.3	87.1
66		59.8	89.7	90.0	41.6	62.3	83.1
69		57.2	85.8	90.0	39.8	59.6	79.5
72		54.8	82.2	90.0	38.1	57.1	76.2

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	96	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		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	102	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		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	108	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	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
30		126	87.7	90.0	90.0	61.0	90.0	90.0	90.0
33	79.7		90.0	90.0	55.4	83.1	90.0	90.0	90.0
36	73.1		90.0	90.0	50.8	76.2	90.0	90.0	90.0
39	67.4		90.0	90.0	46.9	70.3	90.0	90.0	90.0
41	64.2		90.0	90.0	44.6	66.9	89.2	90.0	90.0
30	83.7		90.0	90.0	58.2	87.3	90.0	90.0	90.0
33	132	76.1	90.0	90.0	52.9	79.3	90.0	90.0	90.0
36		69.7	90.0	90.0	48.5	72.7	90.0	90.0	90.0
39		64.4	90.0	90.0	44.8	67.1	89.5	90.0	90.0
30	138	80.1	90.0	90.0	55.7	83.5	90.0	90.0	90.0
33		72.8	90.0	90.0	50.6	75.9	90.0	90.0	90.0
36		66.7	90.0	90.0	46.4	69.6	90.0	90.0	90.0
37		64.9	90.0	90.0	45.1	67.7	90.0	90.0	90.0
30	144	76.7	90.0	90.0	53.3	80.0	90.0	90.0	90.0
33		69.7	90.0	90.0	48.5	72.7	90.0	90.0	90.0
36		63.9	90.0	90.0	44.4	66.7	88.9	90.0	90.0

7/29/2026 8:42 AM

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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	84	39.6	59.4	79.2	90.0	90.0	90.0
57		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	84	44.1	66.2	88.3	90.0	90.0	90.0
48		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

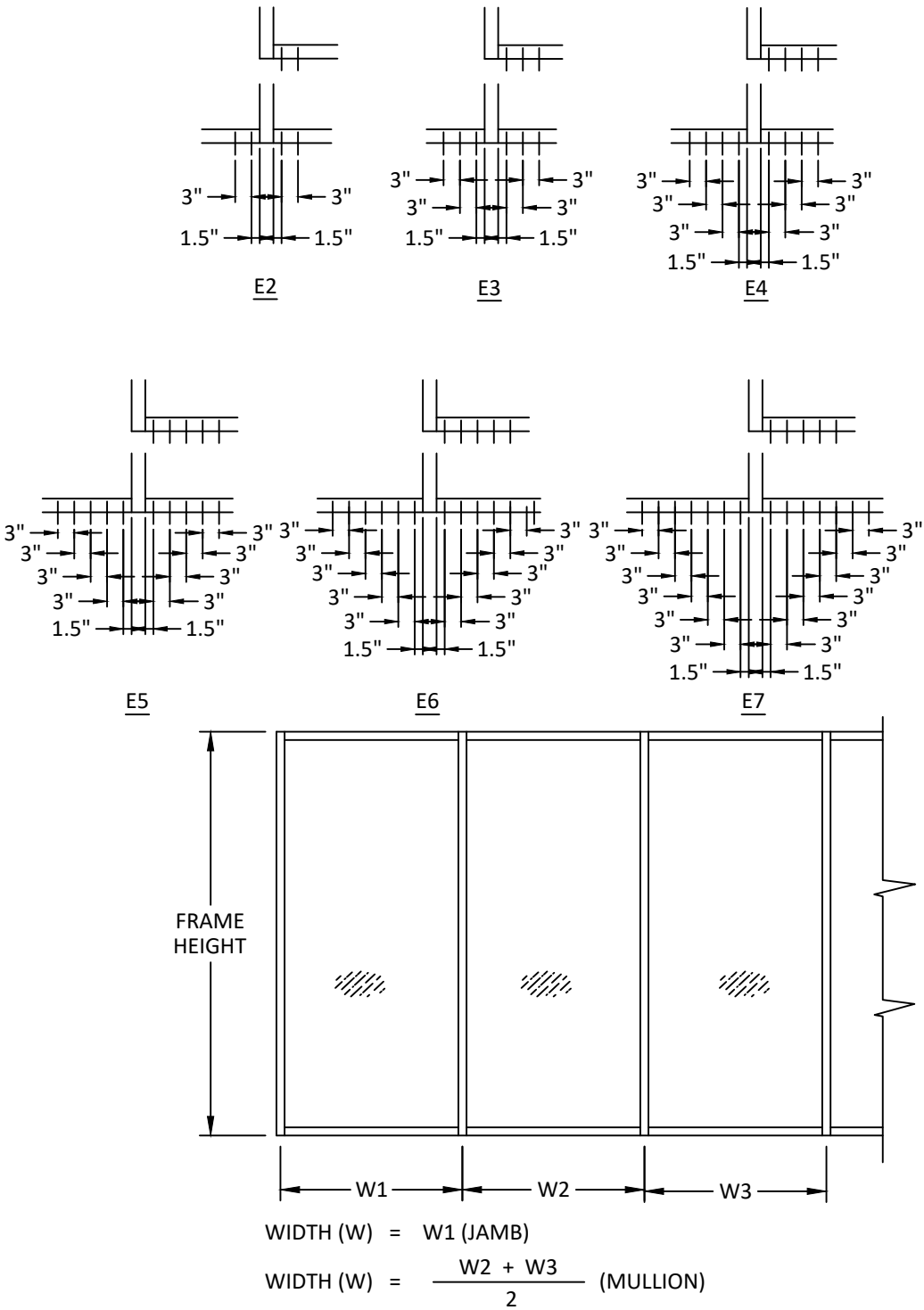
ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT (-)							
NOMINAL DIMS. (IN)		ANCHOR TYPE 'E'					
WIDTH (W)	FRAME HEIGHT	E2	E3	E4	E5	E6	E7
30	90	61.8	90.0	90.0	90.0	90.0	90.0
33		56.2	84.2	90.0	90.0	90.0	90.0
36		51.5	77.2	90.0	90.0	90.0	90.0
39		47.5	71.3	90.0	90.0	90.0	90.0
42		44.1	66.2	88.3	90.0	90.0	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	102	32.2	48.3	64.4	80.4	90.0	90.0
57		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	102	36.3	54.5	72.7	90.0	90.0	90.0
48		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		25.7	38.6	51.5	64.4	77.2	90.0
66		24.4	36.6	48.8	61.0	73.2	85.4
69		23.2	34.8	46.3	57.9	69.5	81.1
72		22.0	33.0	44.0	54.0	66.0	78.0

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
30	126	44.1	66.2	88.3	90.0	90.0	90.0
33		40.1	60.2	80.2	90.0	90.0	90.0
36		36.8	55.2	73.5	90.0	90.0	90.0
39		33.9	50.9	67.9	84.9	90.0	90.0
41		32.3	48.4	64.6	80.7	90.0	90.0
30	132	42.1	63.2	84.2	90.0	90.0	90.0
33		38.3	57.4	76.6	90.0	90.0	90.0
36		35.1	52.7	70.2	87.8	90.0	90.0
39		32.4	48.6	64.8	81.0	90.0	90.0
30	138	40.3	60.4	80.6	90.0	90.0	90.0
33		36.6	54.9	73.3	90.0	90.0	90.0
36		33.6	50.4	67.2	83.9	90.0	90.0
37		32.7	49.0	65.3	81.7	90.0	90.0
30	144	38.6	57.9	77.2	90.0	90.0	90.0
33		35.1	52.7	70.2	87.8	90.0	90.0
36		32.2	48.3	64.4	80.4	90.0	90.0

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 FL ALUMINUM STOREFRONT
SYSTEM - INSIDE GLAZED
(HVHZ) (IMPACT)
TYPE E ANCHOR TABLES

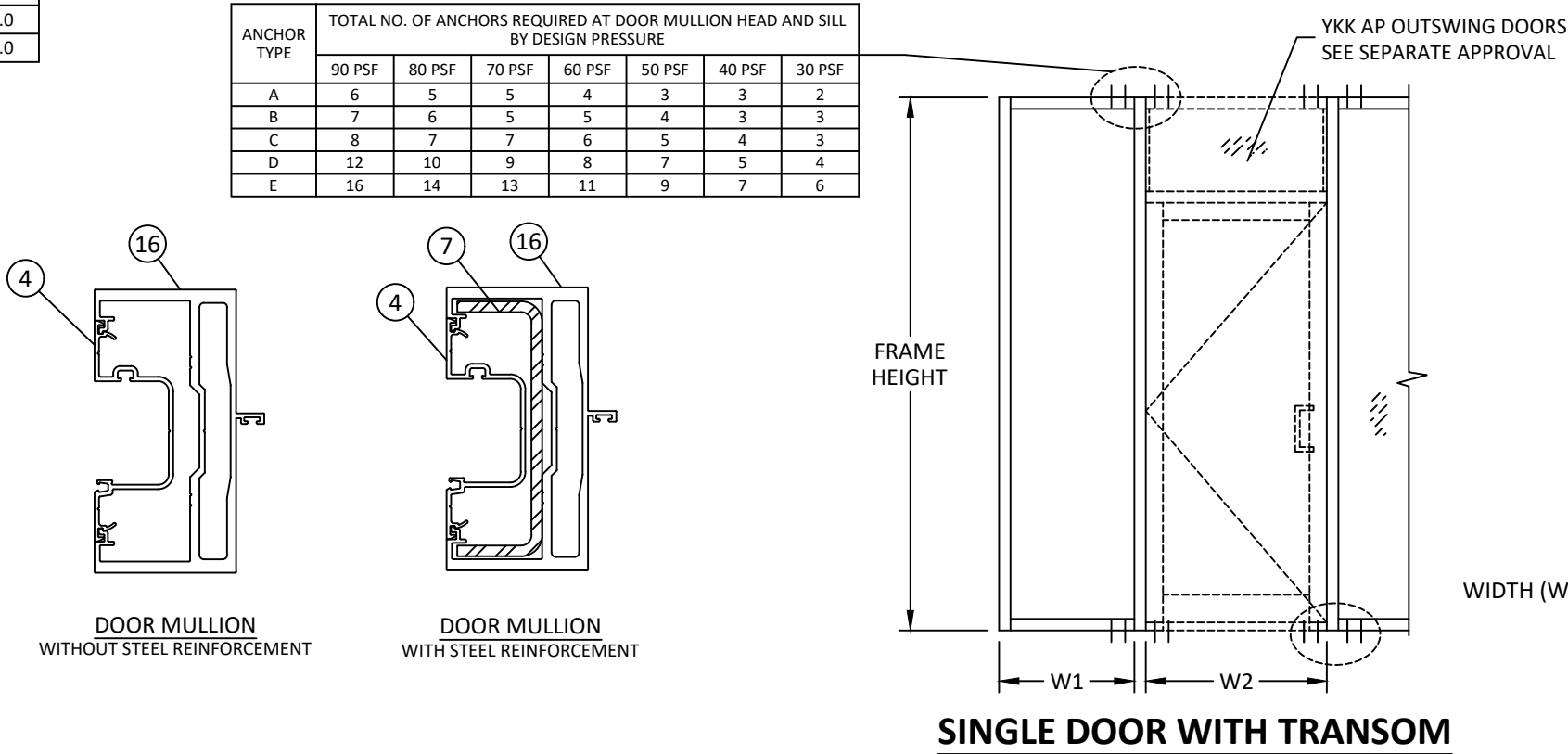
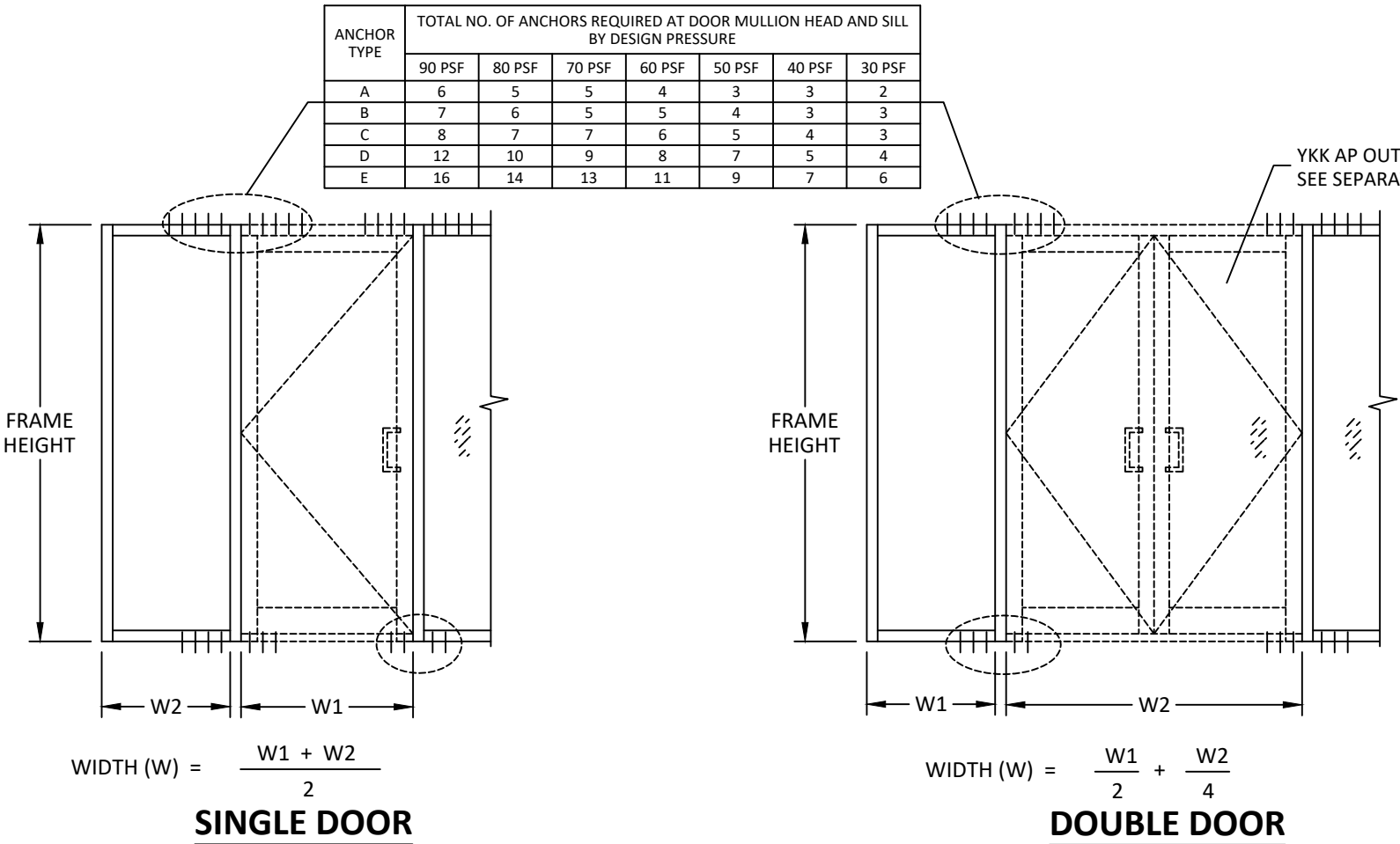
PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

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	07.2

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DOOR MULLION LOAD & ANCHOR TABLES

DOOR MULLION LOAD CAPACITY (PSF)					
NOMINAL DIMS.		WITHOUT STEEL REINF.		WITH STEEL REINF.	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24	102	70.0	70.0	70.0	90.0
30		70.0	70.0	70.0	90.0
36		70.0	70.0	70.0	90.0
42		70.0	70.0	70.0	90.0
48		70.0	70.0	70.0	90.0
54	108	70.0	70.0	70.0	90.0
60		70.0	70.0	70.0	90.0
24		70.0	70.0	70.0	90.0
30		70.0	70.0	70.0	90.0
36		70.0	70.0	70.0	90.0
42	114	70.0	70.0	70.0	90.0
48		70.0	70.0	70.0	90.0
54		70.0	70.0	70.0	90.0
60		70.0	70.0	70.0	90.0
24	120	70.0	70.0	70.0	90.0
30		70.0	70.0	70.0	90.0
36		70.0	70.0	70.0	90.0
42		70.0	70.0	70.0	90.0
48		70.0	70.0	70.0	90.0
54		69.2	69.2	70.0	90.0
60		62.3	62.3	70.0	90.0



YKK
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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 - INSIDE GLAZED
(HVHZ) (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

BD
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

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
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 #:

FL14218

DATE: **11.18.15**

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

DWG. #: **YKK160**

SHEET:	REV. D
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12

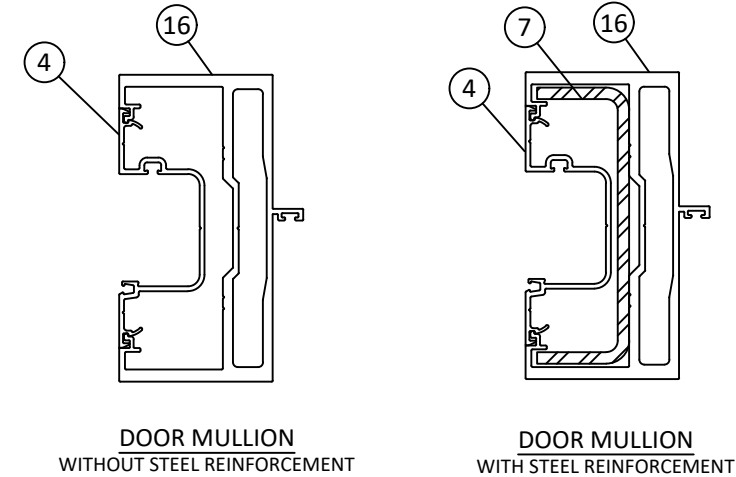
[Page 13 of 19]

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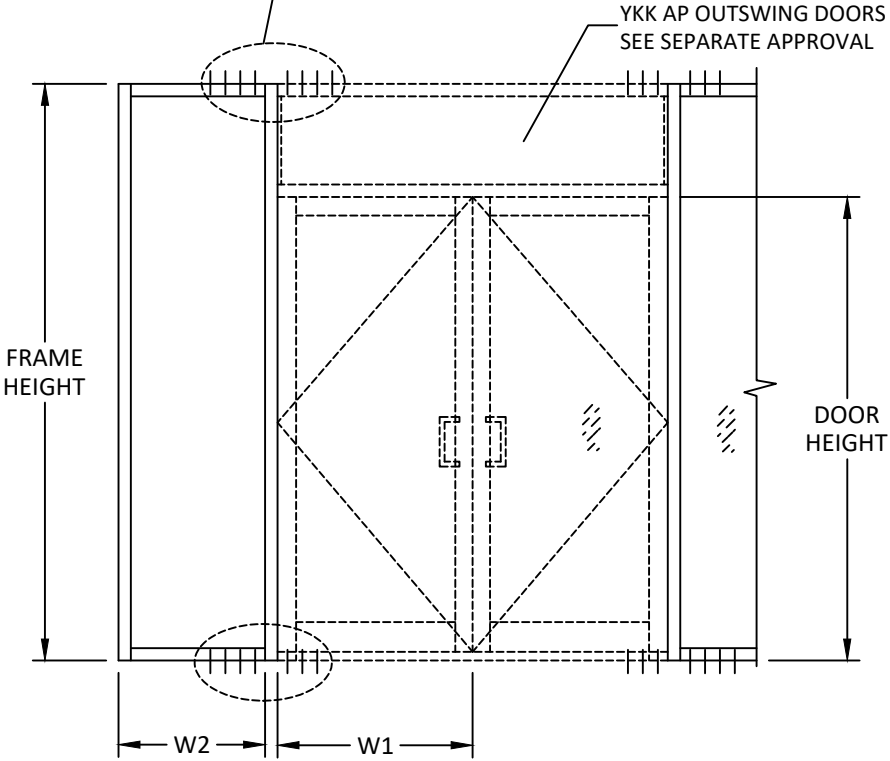
DOOR MULLION LOAD & ANCHOR TABLES

DOOR MULLION LOAD CAPACITY (PSF)						
NOMINAL DIMS.			WITHOUT STEEL REINF.		WITH STEEL REINF.	
FRAME HEIGHT (IN.)	DOOR PANEL WIDTH - W1 (IN.)	SIDELITE WIDTH - W2 (IN.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
96	36	30	70.0	70.0	70.0	90.0
		36	70.0	70.0	70.0	90.0
		42	70.0	70.0	70.0	90.0
		48	70.0	70.0	70.0	90.0
	42	30	70.0	70.0	70.0	90.0
		36	70.0	70.0	70.0	90.0
		42	70.0	70.0	70.0	90.0
		48	70.0	70.0	70.0	90.0
	48	30	70.0	70.0	70.0	90.0
		36	70.0	70.0	70.0	90.0
		42	70.0	70.0	70.0	90.0
		48	70.0	70.0	70.0	90.0
102	36	30	70.0	70.0	70.0	90.0
		36	70.0	70.0	70.0	90.0
		42	70.0	70.0	70.0	90.0
		48	70.0	70.0	70.0	90.0
	42	30	70.0	70.0	70.0	90.0
		36	70.0	70.0	70.0	90.0
		42	70.0	70.0	70.0	90.0
		48	70.0	70.0	70.0	90.0
	48	30	70.0	70.0	70.0	90.0
		36	70.0	70.0	70.0	90.0
		42	70.0	70.0	70.0	90.0
		48	70.0	70.0	70.0	90.0
108	36	30	70.0	70.0	70.0	90.0
		36	70.0	70.0	70.0	90.0
		42	70.0	70.0	70.0	90.0
		48	70.0	70.0	70.0	90.0
	42	30	70.0	70.0	70.0	90.0
		36	70.0	70.0	70.0	90.0
		42	70.0	70.0	70.0	90.0
		48	70.0	70.0	70.0	90.0
	48	30	70.0	70.0	70.0	90.0
		36	70.0	70.0	70.0	90.0
		42	70.0	70.0	70.0	90.0
		48	57.1	57.1	70.0	90.0

DOOR MULLION LOAD CAPACITY (PSF)						
NOMINAL DIMS.			WITHOUT STEEL REINF.		WITH STEEL REINF.	
FRAME HEIGHT (IN.)	DOOR PANEL WIDTH - W1 (IN.)	SIDELITE WIDTH - W2 (IN.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
114	36	30	70.0	70.0	70.0	90.0
		36	70.0	70.0	70.0	90.0
		42	70.0	70.0	70.0	90.0
		48	69.8	69.8	70.0	90.0
	42	30	70.0	70.0	70.0	90.0
		36	69.8	69.8	70.0	90.0
		42	66.6	66.6	70.0	90.0
		48	63.6	63.6	70.0	90.0
	48	30	66.6	66.6	70.0	90.0
		36	63.6	63.6	70.0	90.0
		42	57.1	57.1	70.0	90.0
		48	57.1	57.1	70.0	90.0
120	36	30	69.9	69.9	70.0	90.0
		36	66.2	66.2	70.0	90.0
		42	62.8	62.8	70.0	90.0
		48	59.8	59.8	70.0	90.0
	42	30	62.8	62.8	70.0	90.0
		36	59.8	59.8	70.0	90.0
		42	57.1	57.1	70.0	90.0
		48	57.1	57.1	70.0	90.0
	48	30	57.1	57.1	70.0	90.0
		36	57.1	57.1	70.0	90.0
		42	57.1	57.1	70.0	90.0
		44	57.1	57.1	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	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



Quality
inspires™

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ATLANTA, GA 30303
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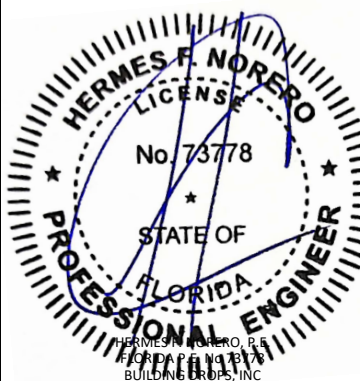
TITLE:
YHS 50 FL ALUMINUM STOREFRONT
SYSTEM - INSIDE GLAZED
(HVHZ) (IMPACT)

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

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
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 #:
FL14218

DATE: **11.18.15**

DWG. BY:
SM

CHK. BY:
HFN

SCALE: **NTS**

DWG. #: **YKK160**

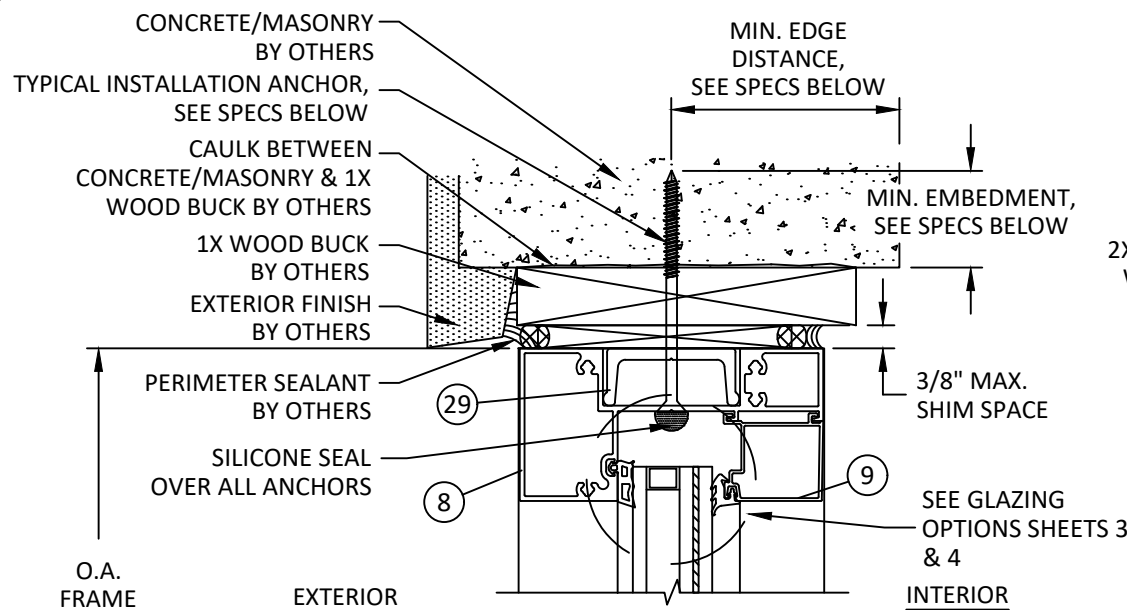
SHEET:
13

REV.
D

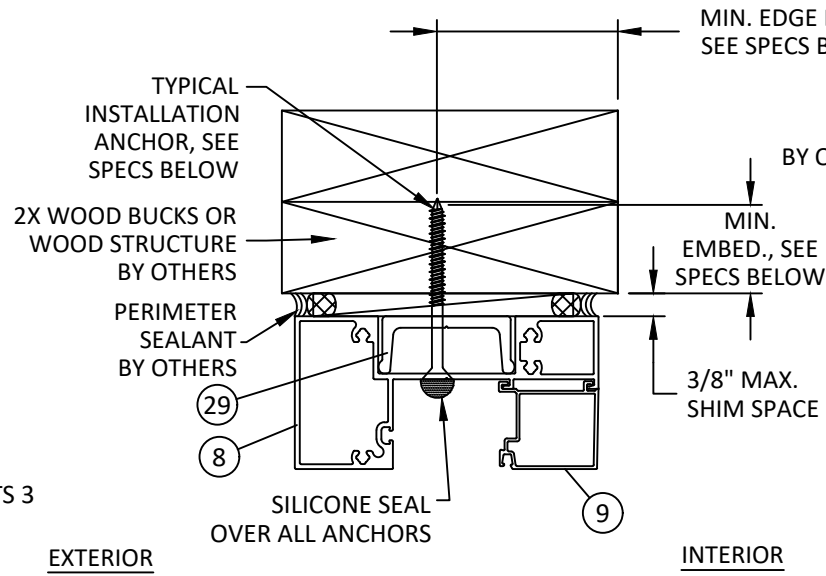
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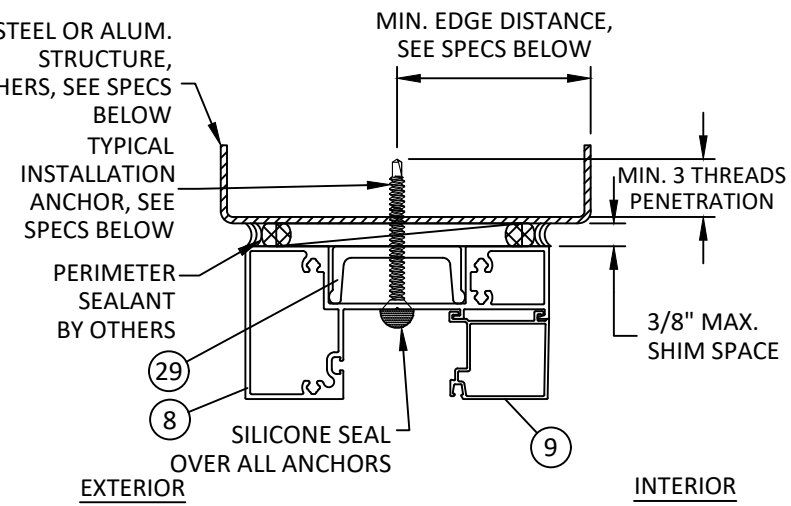
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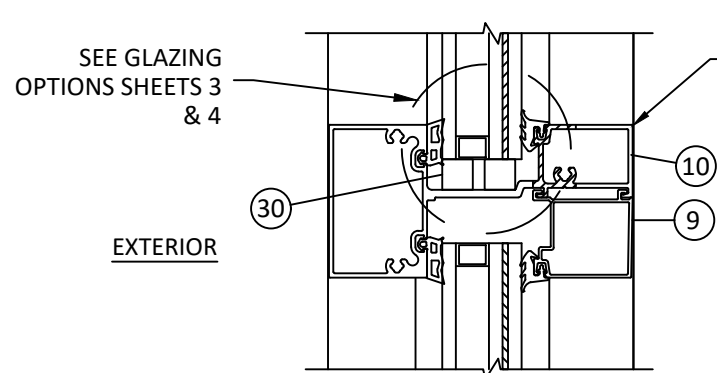
A
14 VERTICAL SECTION
HEAD - CONCRETE/MASONRY W/ 1X BUCK



D
14 VERTICAL SECTION
HEAD - WOOD FRAMING
TYPICAL INSTALLATION



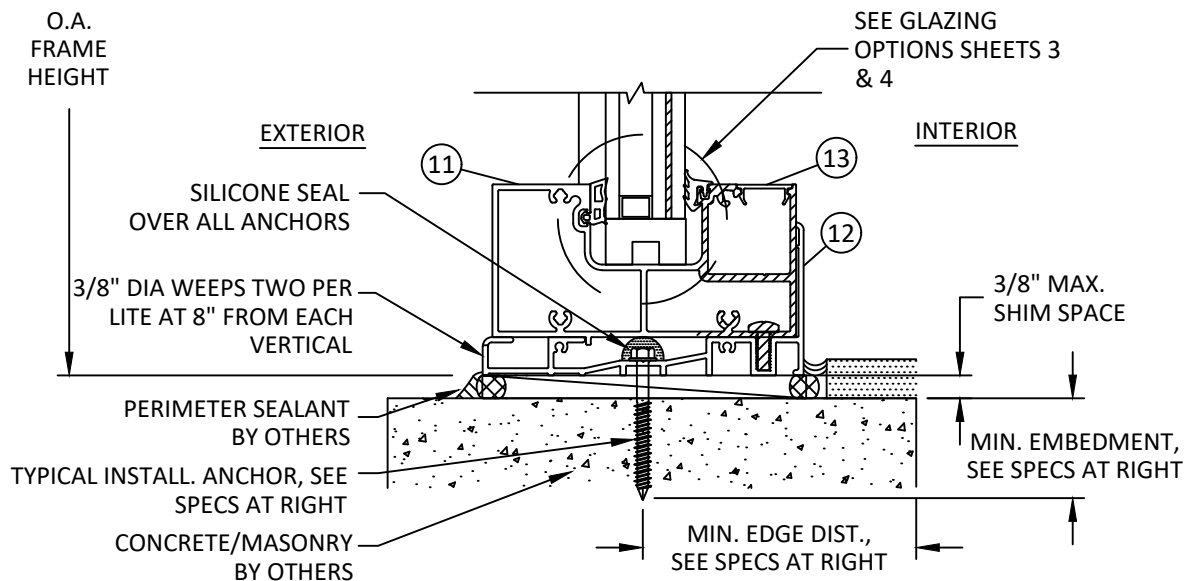
E
14 VERTICAL SECTION
HEAD - METAL SUBSTRATE
TYPICAL INSTALLATION



B
14 VERTICAL SECTION
HORIZONTAL MEMBER

LIMIT DESIGN LOADS FOR HORIZONTAL AS FOLLOWS		
MAX HORIZ. SPAN	MAX GLASS HEIGHT ABOVE HORIZ.	MAX DESIGN LOADS
60"	55-15/16"	65 PSF
60"	84"	52 PSF

DESIGN LOADS SHOWN ABOVE ARE BASED ON MAX. GLASS AREA ABOVE HORIZONTAL, FOR SIZES SMALLER THAN SHOWN ABOVE, ALLOWABLE DESIGN LOADS MAY BE CALCULATED SEPARATELY.



C
14 VERTICAL SECTION
SILL - DIRECT TO CONCRETE/MASONRY

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.
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ATLANTA, GA 30303
PH: (678) 838-6000

TITLE: YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - INSIDE GLAZED
(HVHZ) (IMPACT)
VERTICAL SECTIONS
& ANCHOR DESCRIPTIONS

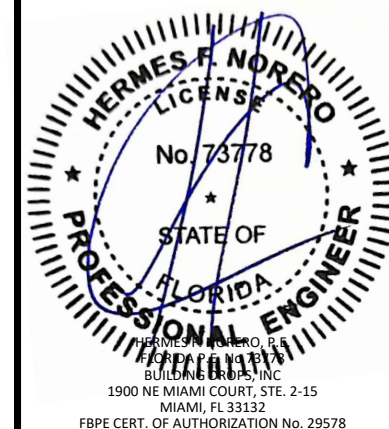
PREPARED BY: BUILDING DROPS, INC.

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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FL #:

FL14218

DATE: **11.18.15**

DWG. BY:
SM

CHK. BY:
HFN

SCALE: **NTS**

DWG. #: **YKK160**

SHEET:

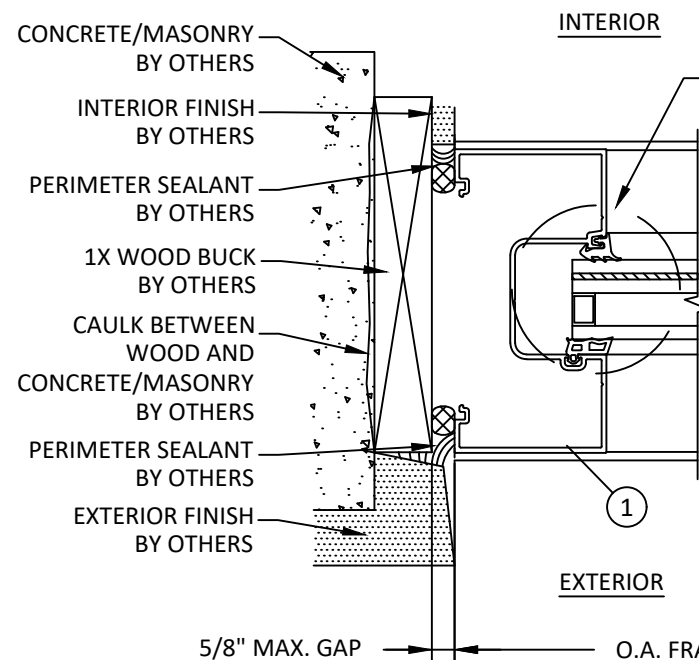
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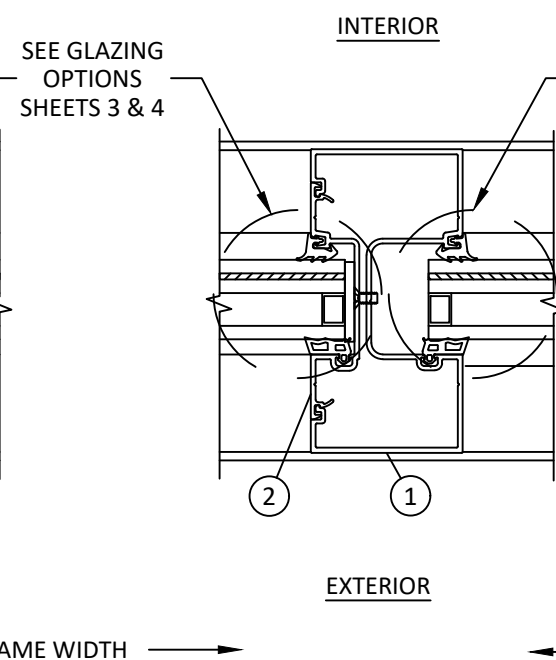
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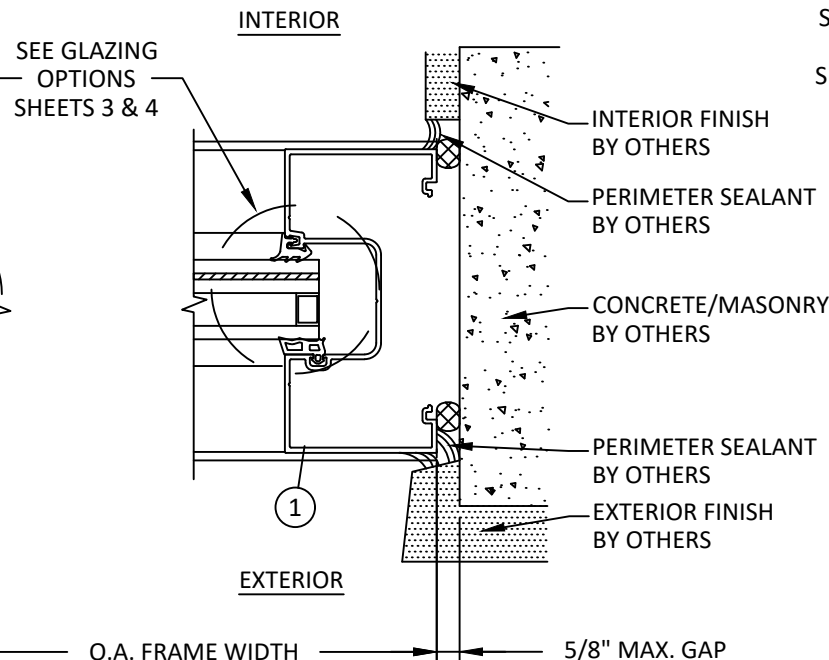
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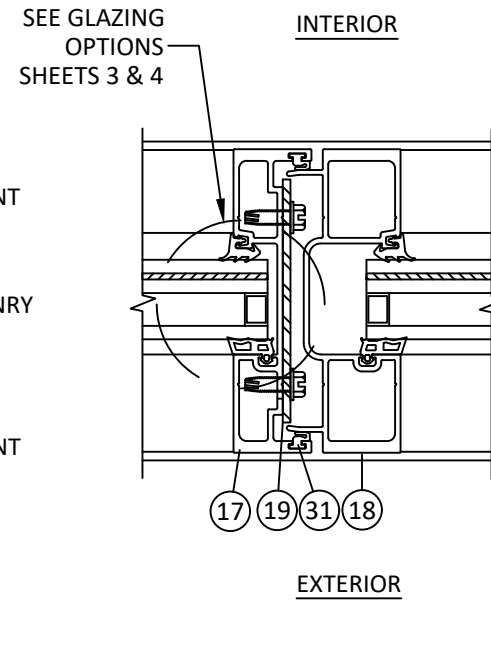
F **HORIZONTAL SECTION**
15 JAMB - CONCRETE/MASONRY W/ 1X BUCK
LIGHT CONFIGURATION



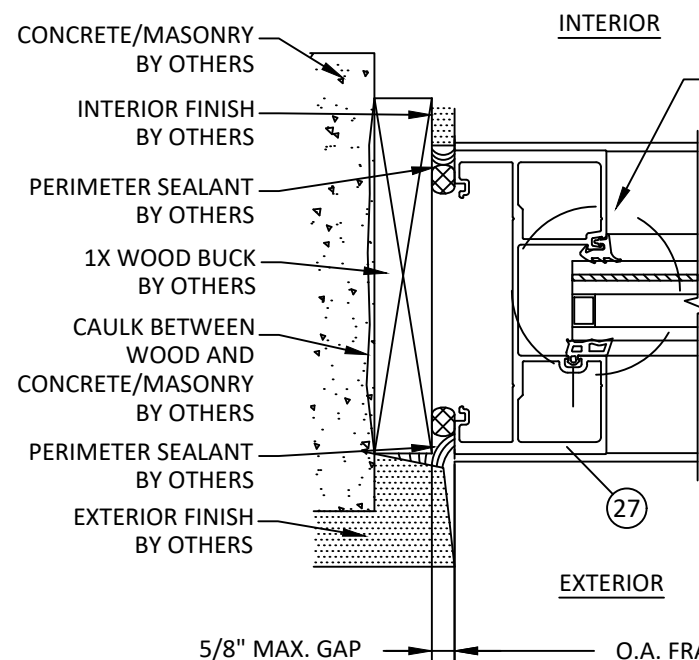
G **HORIZONTAL SECTION**
15 VERTICAL MULLION
LIGHT CONFIGURATION



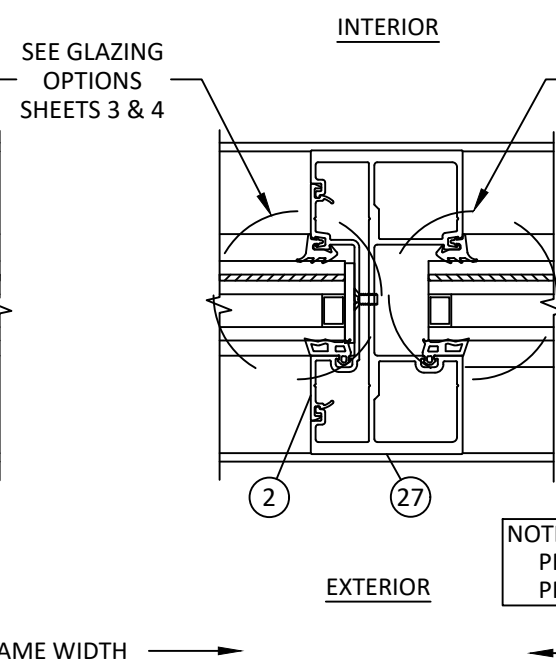
H **HORIZONTAL SECTION**
15 JAMB - DIRECT TO CONCRETE/MASONRY
LIGHT CONFIGURATION



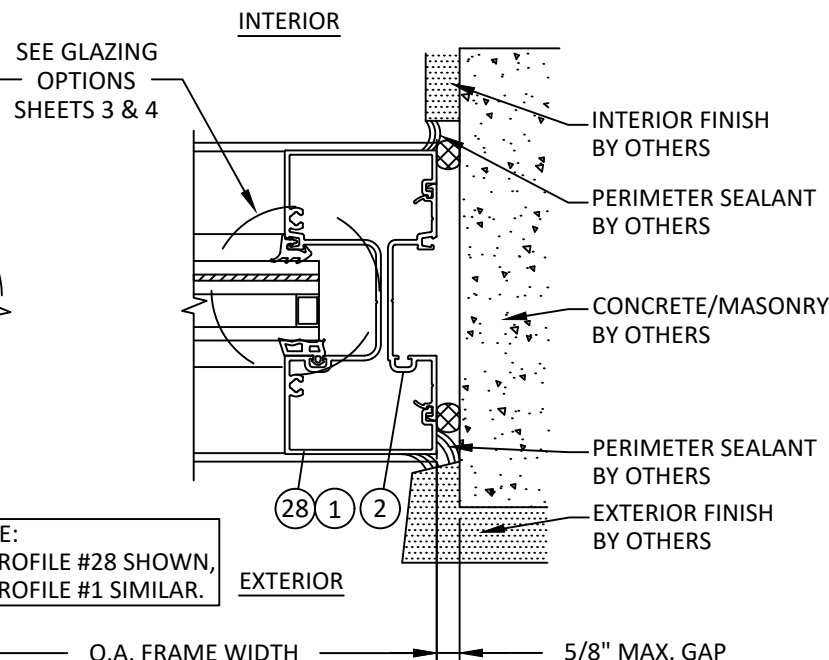
I **HORIZONTAL SECTION**
15 VERTICAL EXPANSION MULLION



J **HORIZONTAL SECTION**
15 JAMB - CONCRETE/MASONRY W/ 1X BUCK
MEDIUM CONFIGURATION



K **HORIZONTAL SECTION**
15 VERTICAL MULLION
MEDIUM CONFIGURATION



L **HORIZONTAL SECTION**
15 JAMB - DIRECT TO CONCRETE/MASONRY
MEDIUM CONFIGURATION

NOTE:
PROFILE #28 SHOWN,
PROFILE #1 SIMILAR.



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

TITLE:
YHS 50 FL ALUMINUM STOREFRONT
SYSTEM - INSIDE GLAZED
(HVHZ) (IMPACT)

HORIZONTAL SECTIONS

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132

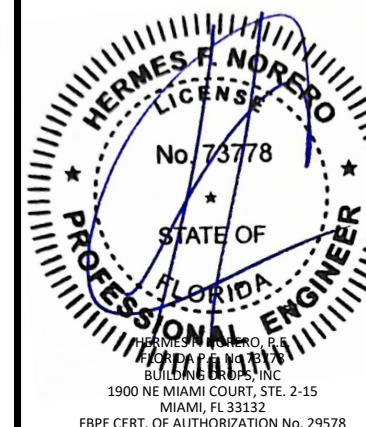
PH: (954) 399-8478
FAX: (954) 744-4738

WEB: www.buildingdrops.com



REMARKS	BY	DATE
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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DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL #:

FL14218

DATE: 11.18.15

DWG. BY:
SM

CHK. BY:
HFN

SCALE: NTS

DWG. #: YKK160

SHEET:

REV.

15

D

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ATLANTA, GA 30303
PH: (678) 838-6000

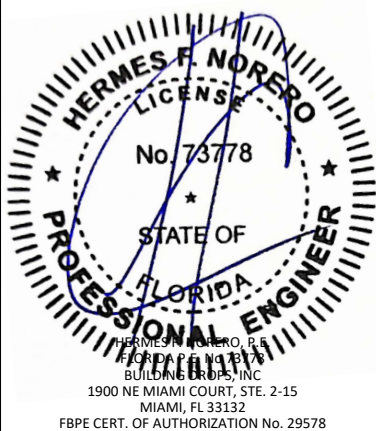
TITLE: YHS 50 FL ALUMINUM STOREFRONT
SYSTEM - INSIDE GLAZED
(HVHZ) (IMPACT)
HORIZONTAL SECTIONS

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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FL #:
FL14218

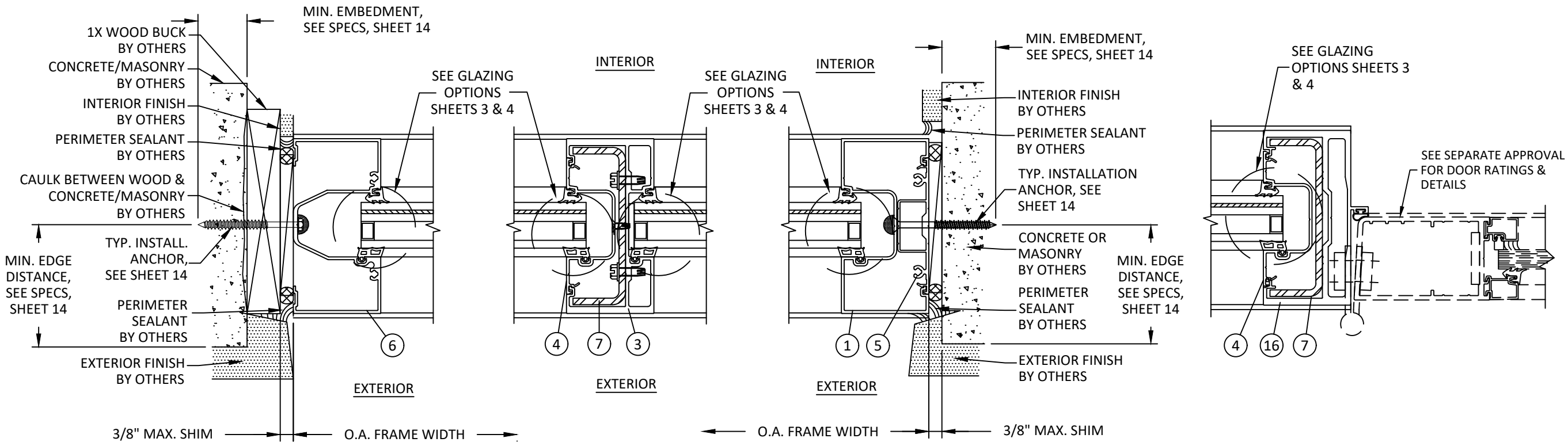
DATE: **11.18.15**

DWG. BY: **SM** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK160**

SHEET: **16** REV. **D**



M **HORIZONTAL SECTION**
16 JAMB - CONCRETE/MASONRY W/ 1X BUCK
HEAVY CONFIGURATION

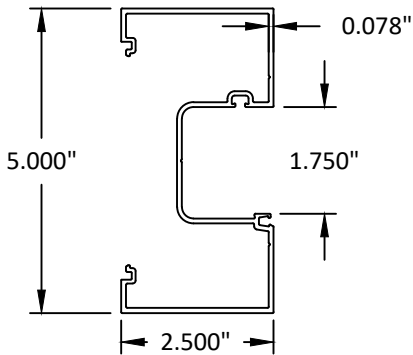
N **HORIZONTAL SECTION**
16 VERTICAL MULLION
HEAVY CONFIGURATION

O **HORIZONTAL SECTION**
16 JAMB - DIRECT TO CONCRETE/MASONRY
HEAVY CONFIGURATION

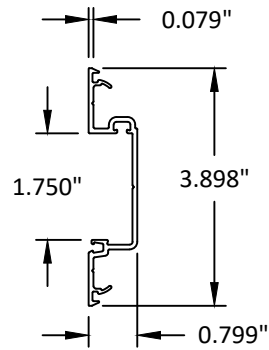
P **HORIZONTAL SECTION**
16 DOOR JAMB MULLION

7/29/2026 8:42 AM

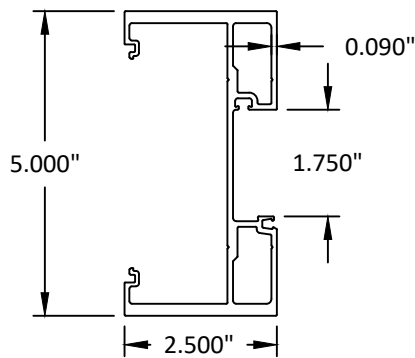
ITEM	PART NO.	DESCRIPTION	MATERIAL
1	E9-0663	JAMB / VERTICAL	6063-T5
2	E9-0655	SHALLOW POCKET FILLER	6063-T5
3	E9-0665	HEAVY DUTY VERTICAL	6063-T5
4	E9-0656	DEEP POCKET FILLER	6063-T5
5	E1-1068	FLAT FILLER AT PERIMETER ANCHOR	6063-T5
6	E9-0662	HEAD / JAMB	6063-T5
7	E1-1062	STEEL CHANNEL (1-1/2" X 4-1/2" X 3/16")	A36 STEEL
8	E9-7976	HEAD	6063-T5
9	E9-0658	GLASS STOP	6063-T5
10	E9-0653	HORIZONTAL	6063-T5
11	E9-7977	SILL	6063-T5
12	E9-7993	SILL FLASHING	6063-T5
13	E9-8647	SILL HOLE SNAP COVER	6063-T5
16	E9-0504	DOOR JAMB O/P	6063-T6
17	E9-0688	EXPANSION MULLION (FEMALE)	6063-T6
18	E9-0689	EXPANSION MULLION (MALE)	6063-T6
19	E1-0165	STEEL REINFORCEMENT BAR (4" X 1/8")	STEEL
23	E2-0084	INTERIOR SILICONE SPACER	SILICONE
24	E2-0095	SETTING BLOCK	EPDM (85±5)
25	E2-0088	INTERIOR GLAZING GASKET	EPDM
26	E2-0083	EXTERIOR GLAZING GASKET	EPDM
27	E9-0654	HEAVY DUTY MULLION	6063-T6
28	E9-0651	HEAD / JAMB / VERTICAL	6063-T6
29	E9-8650	HEAD ANCHOR	6063-T5
30	E2-0019	SETTING BLOCK (MONO)	EPDM (85±5)
31	K2-2441	WEATHERING GASKET	EPDM



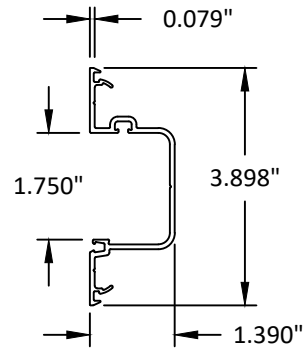
1 JAMB/VERTICAL



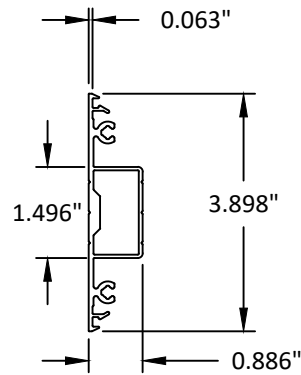
2 SHALLOW POCKET FILLER



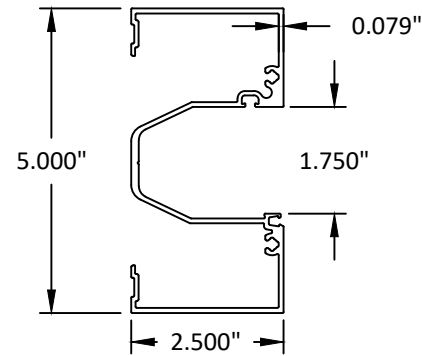
3 HEAVY DUTY VERTICAL



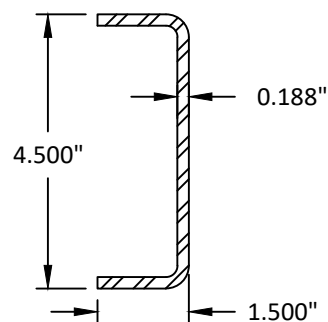
4 DEEP POCKET FILLER



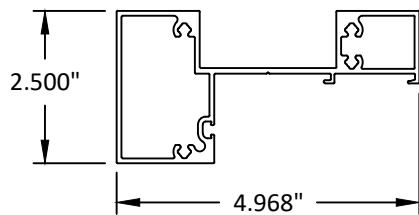
5 FLAT FILLER AT PERIMETER ANCHOR



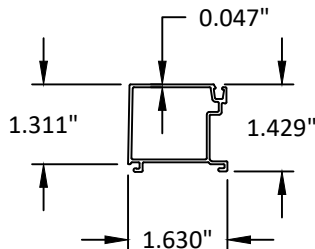
6 HEAD/JAMB



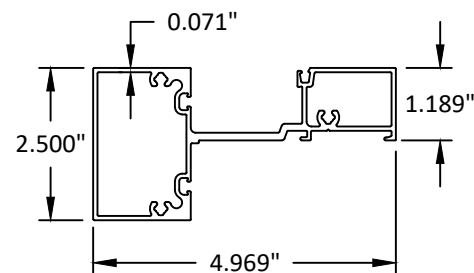
7 STEEL CHANNEL (1-1/2" X 4-1/2" X 3/16")



8 HEAD



9 GLASS STOP



10 HORIZONTAL



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ATLANTA, GA 30303
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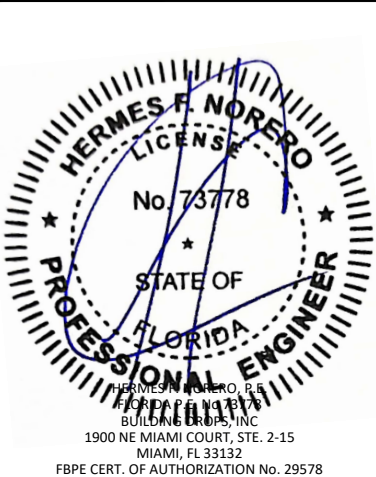
TITLE: YHS 50 FL ALUMINUM STOREFRONT
SYSTEM - INSIDE GLAZED
(HVHZ) (IMPACT)
COMPONENTS & BILL OF MATERIALS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
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REMARKS	BY	DATE
FBC CODE UPDATE	RV	07.12.17
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FL #: FL14218

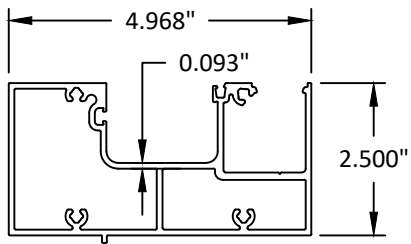
DATE: 11.18.15

DWG. BY: SM
CHK. BY: HFN

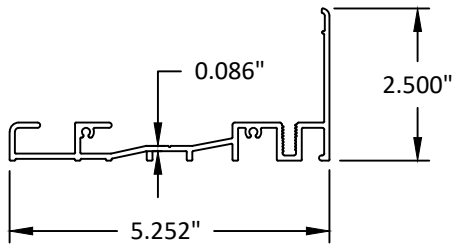
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DWG. #: YKK160

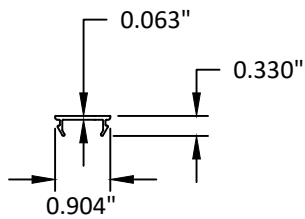
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REV. D



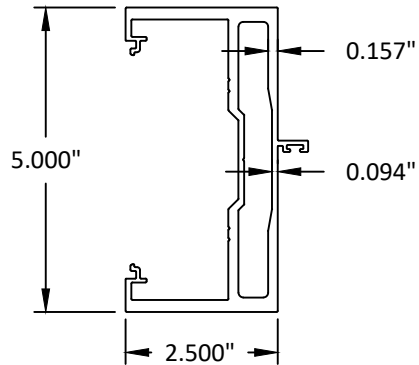
11 SILL



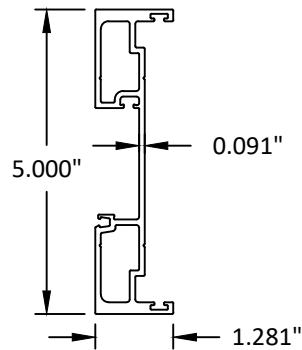
12 SILL FLASHING



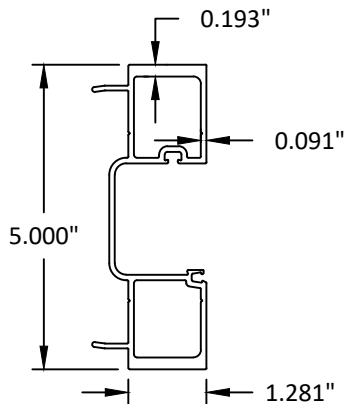
13 SILL HOLE SNAP COVER



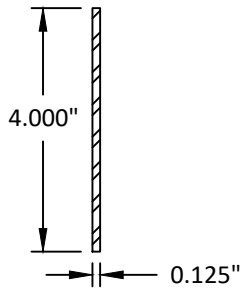
16 DOOR JAMB O/P



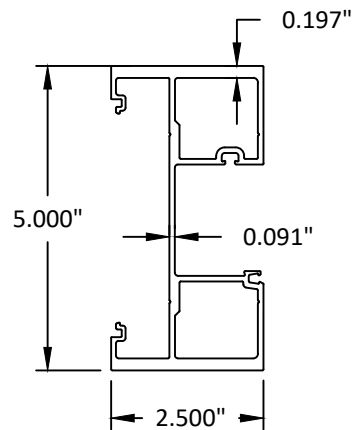
17 EXPANSION MULLION (FEMALE)



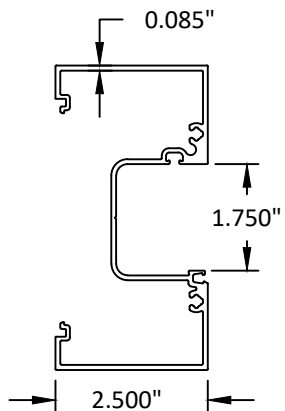
18 EXPANSION MULLION (MALE)



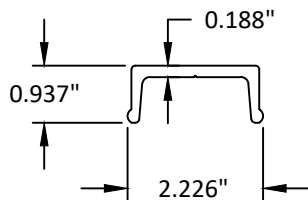
19 STEEL REINFORCEMENT BAR



27 HEAVY DUTY MULLION



28 HEAD/JAMB/VERTICAL



29 HEAD ANCHOR



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

TITLE: YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - INSIDE GLAZED
(HVHZ) (IMPACT)
COMPONENTS

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

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 #:
FL14218

DATE: **11.18.15**

DWG. BY: **SM** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK160**

SHEET: **18** REV. **D**