

YKK AP AMERICA, INC.

YHS 50 FI ALUMINUM STOREFRONT SYSTEM - OUTSIDE GLAZED (WZ3) (IMPACT)

INSTALLATION NOTES:

1. SEE SHEET 16 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.

2. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.

3. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.

4. 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.

5. 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.

6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.

7. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.

8. 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.

9. 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.

10.INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.

B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

C. 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.

D. STEEL - MINIMUM YIELD STRENGTH OF 36 KSI. MINIMUM 12 GA. WALL THICKNESS.

E. STEEL - MINIMUM YIELD STRENGTH OF 36 KSI. MINIMUM 18 GA. WALL THICKNESS.

F. ALUMINUM - MINIMUM 1/8 INCH THICK 6063-T5 ALUMINUM.

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:

TAS 201-94

TAS 202-94

TAS 203-94

AAMA 501-15

ASTM E1886-13a

ASTM E1996-17

2. 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.

3. 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.

4. 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.

5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONES 3 OR LESS. SEE SHEETS 3, 4 & 5 FOR LMI AND SMI GLASS TYPES.

6. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONES 4.

7. STOREFRONT FRAME MATERIAL: ALUMINUM 6063-T5

8. 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.

9. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEETS 3, 4 & 5 FOR GLAZING DETAILS.

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INSTRUCTIONS FOR USE:

1. DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, AND WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

2. SEE CHARTS ON SHEETS 3, 4 & 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.

3. CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 6, 7, 8, 9, 10 & 11 FOR STORE FRONT MULLION AND SHEETS 14 & 15 FOR DOOR MULLION, THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.

4. USING CHART ON SHEET 12, 13, & 13A SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

5. 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
(WZ3) (IMPACT)

INSTALLATION & GENERAL NOTES

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15

MIAMI, FL 33132

PH: (954) 399-8478

FAX: (954) 744-4738

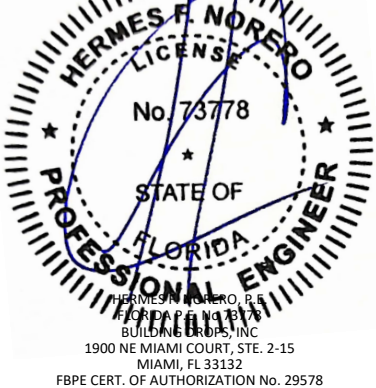
WEB: www.buildingdrops.com



REMARKS	BY	DATE
FBC CODE UPDATE	RV	07.12.17
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
ANCHOR UPDATE	SH	02.10.26

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.02.22 12:00:00 -0600

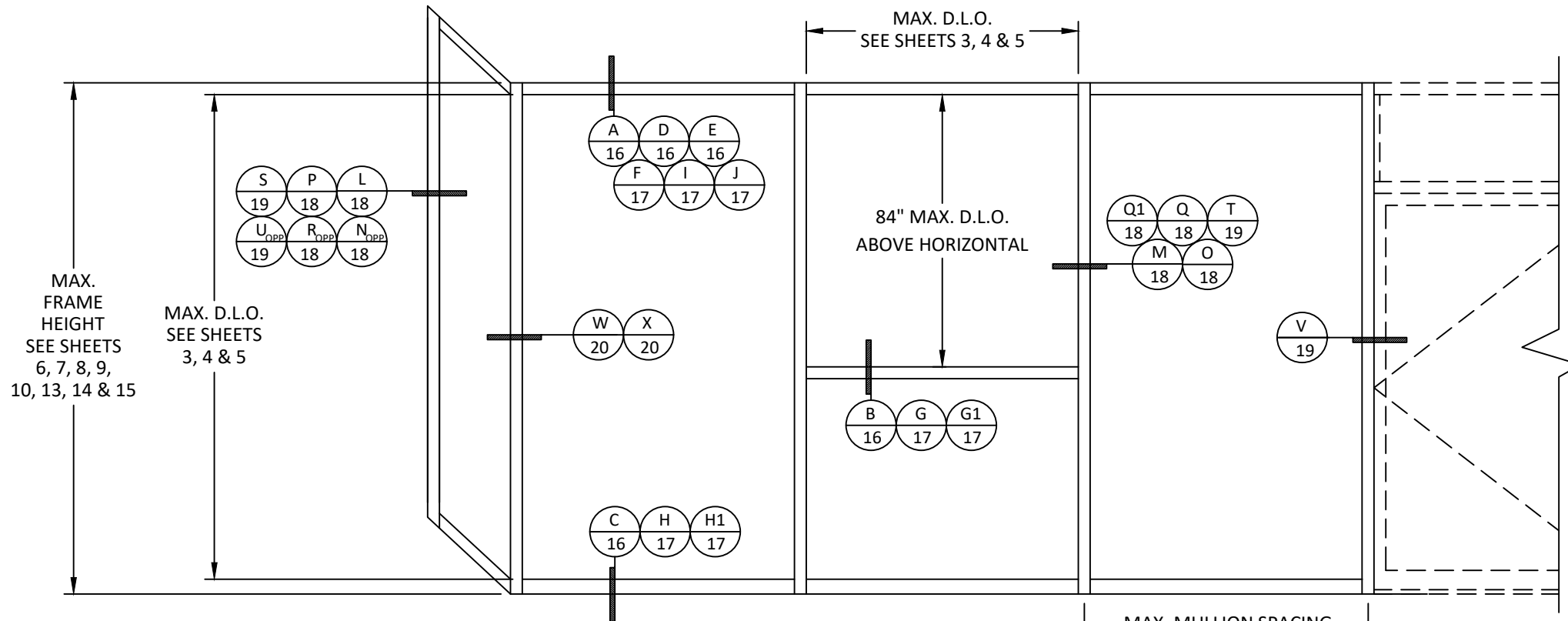


FL #:	FL14218
DATE:	01.28.16
DWG. BY:	CHK. BY:
SM	HFN
SCALE:	NTS
DWG. #:	YKK164

SHEET:

1

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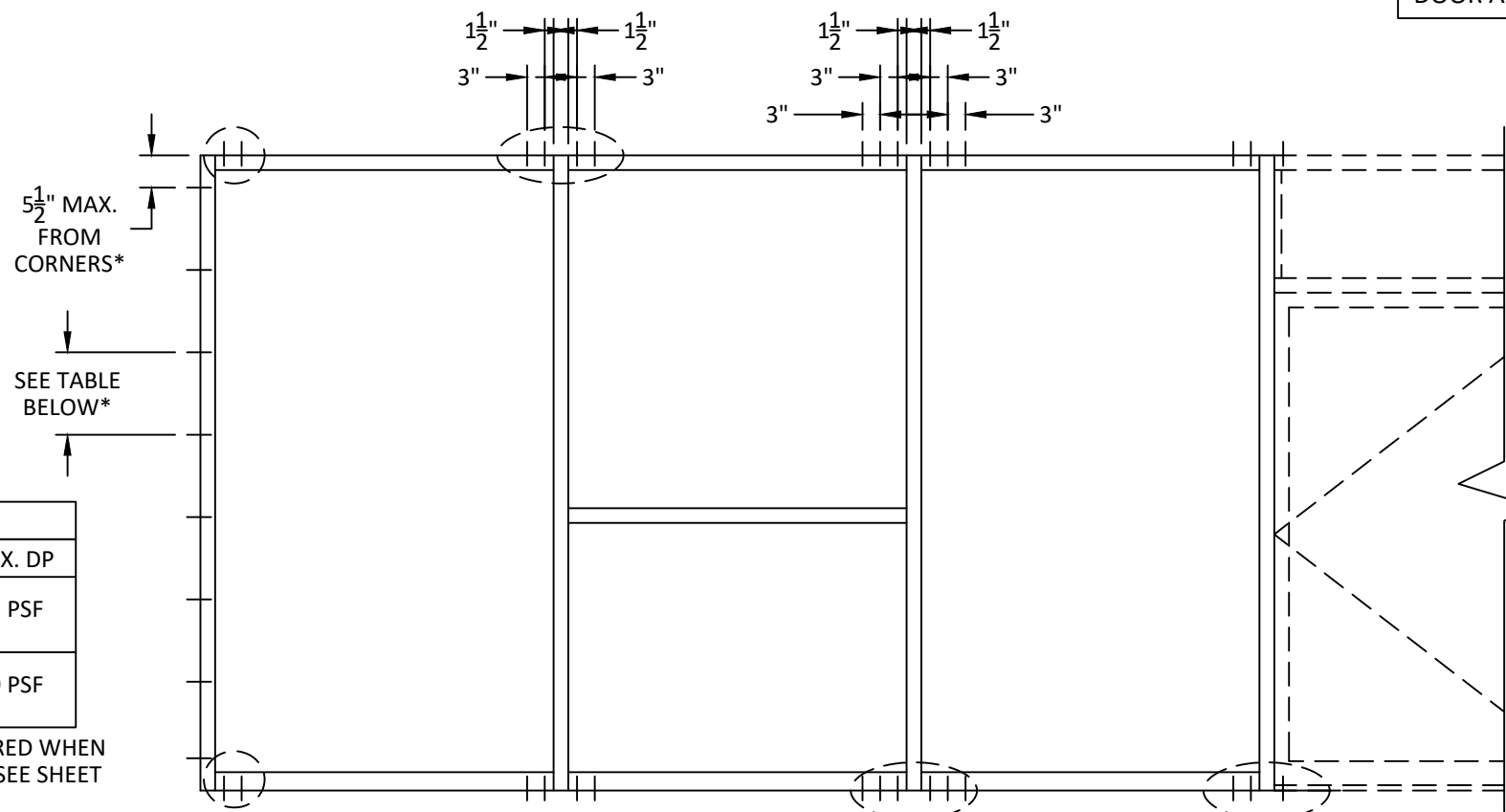


ELEVATION
TYPICAL YHS 50 FI STOREFRONT

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

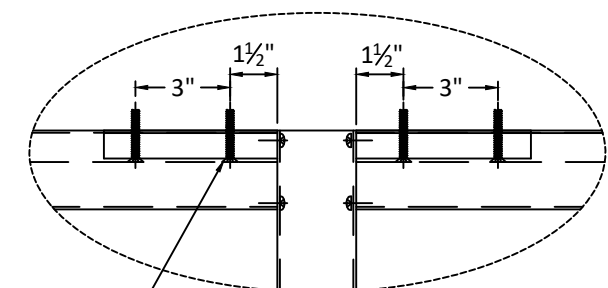
JAMB ANCHOR SPACING*		
ANCHOR TYPE	MAX. SPACING	MAX. DP
A OR B	18.75"	65 PSF
C, E OR D	13"	
A OR B	13.5"	90 PSF
C, E OR D	9.375"	

*NOTE: JAMB ANCHORS ARE ONLY REQUIRED WHEN USING "HEAVY" JAMB CONFIGURATIONS, SEE SHEET 19 FOR HEAVY JAMB DETAILS

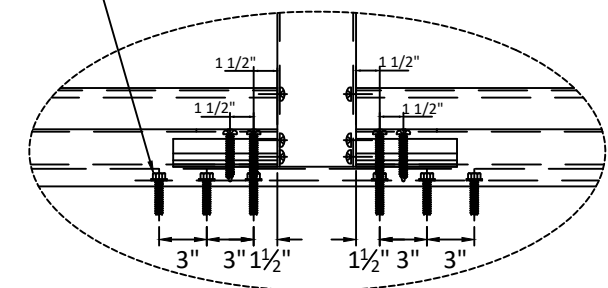


TYPICAL ANCHOR LAYOUT

FOR DOOR ADJACENT MULLION ANCHOR REQUIREMENTS SEE SHEETS 14 & 15



ANCHORS, TYPE A, B, C, D OR E
SEE SHEETS 12, 13, & 13A FOR QUANTITIES
AND SHEET 16 FOR DESCRIPTION



ANCHORS, TYPE A, B, C, D OR E
SEE SHEETS 12, 13, & 13A FOR QUANTITIES
AND SHEET 16 FOR DESCRIPTION



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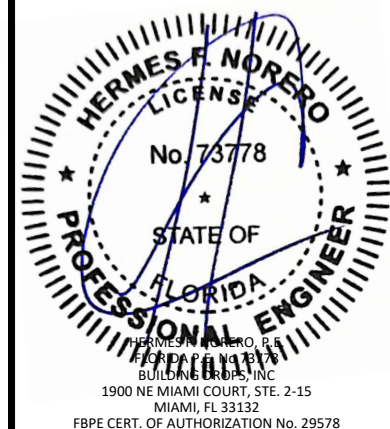
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ELEVATION & ANCHOR LAYOUT

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FL14218

DATE: **01.28.16**

DWG. BY: **SM**

CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK164**

SHEET:

2

GLASS LOAD CAPACITY (PSF)				
DAYLIGHT OPENING (IN)		GLASS TYPES I OR J		GLASS TYPE K
D.L.O. WIDTH	D.L.O. 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	60.375	70.0	90.0	70.0
69.5		70.0	90.0	70.0
27.5		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	66.375	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		70.0	90.0	70.0
33.5		70.0	90.0	70.0
39.5	72.375	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	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	84.375	63.4	81.5	63.4
69.5		57.9	74.5	57.9
27.5		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	90.375	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		70.0	90.0	70.0
33.5		70.0	90.0	70.0
39.5	96.375	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		60.5	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	108.375	63.4	81.5	51.7
69.5		60.6	78.0	51.7
27.5		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	114.375	70.0	90.0	70.0
57.5		70.0	90.0	70.0
63.5		63.4	81.5	70.0
69.5		60.6	78.0	70.0
27.5		70.0	90.0	70.0
33.5		70.0	90.0	70.0
39.5	120.375	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	70.0
69.5		60.6	78.0	70.0
27.5	126.375	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	132.375	63.4	81.5	70.0
69.5		60.6	78.0	70.0
27.5		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	138.375	70.0	90.0	70.0
57.5		70.0	90.0	70.0
63.5		63.4	81.5	70.0
69.5		60.6	78.0	70.0
27.5		70.0	90.0	70.0
33.5		70.0	90.0	70.0

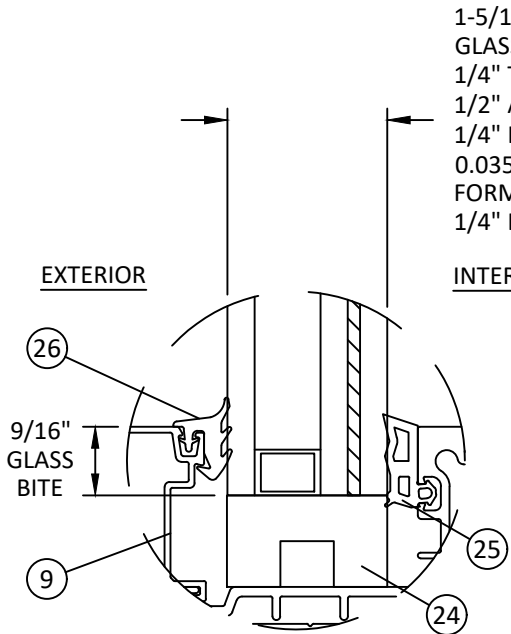
NOTE:

- 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.

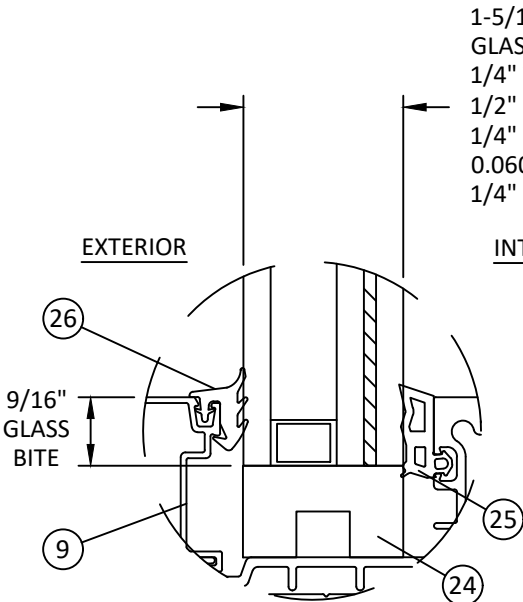
GLASS LOAD CAPACITY (PSF)				
DAYLIGHT OPENING (IN)		GLASS TYPES I OR J		GLASS TYPE K
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	INT. (-)	EXT. (+) INT. (-)
27.5	90.375	70.0	90.0	70.0
33.5		70.0	90.0	70.0
39.5		70.0	90.0	70.0
45.5		70.0	90.0	70.0
51.5		70.0	90.0	70.0
57.5		70.0	90.0	70.0
63.5	96.375	63.4	81.5	63.4
69.5		57.9	74.5	47.2
27.5		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	102.375	70.0	90.0	70.0
57.5		70.0	90.0	70.0
63.5		63.4	81.5	51.7
69.5		60.5	77.8	49.4
27.5		70.0	90.0	70.0
33.5		70.0	90.0	70.0
39.5	108.375	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	70.0
69.5		60.6	78.0	70.0
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	70.0
57.5		70.0	90.0	70.0
63.5	120.375	63.4	81.5	70.0
69.5		60.6	78.0	70.0
27.5		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	126.375	70.0	90.0	70.0
57.5		70.0	90.0	70.0
63.5		63.4	81.5	70.0
69.5		60.6	78.0	70.0
27.5		70.0	90.0	70.0
33.5		70.0	90.0	70.0
39.5	132.375	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	70.0
69.5		60.6	78.0	70.0
27.5	138.375	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

GLASS TYPES

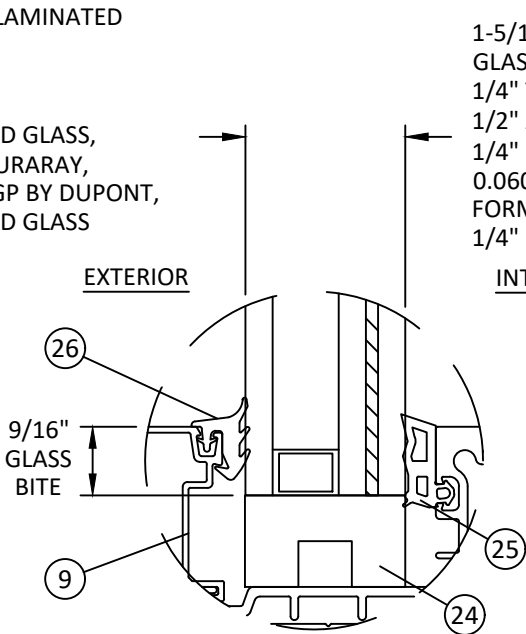
SMALL MISSILE IMPACT ONLY



GLAZING DETAIL I
(DRY GLAZED)



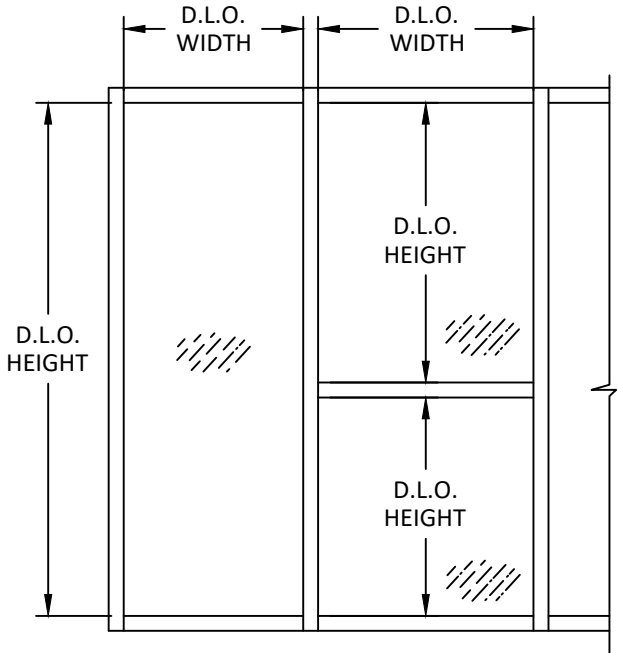
GLAZING DETAIL K
(DRY GLAZED)



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.

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



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SMI GLAZING DETAILS

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3

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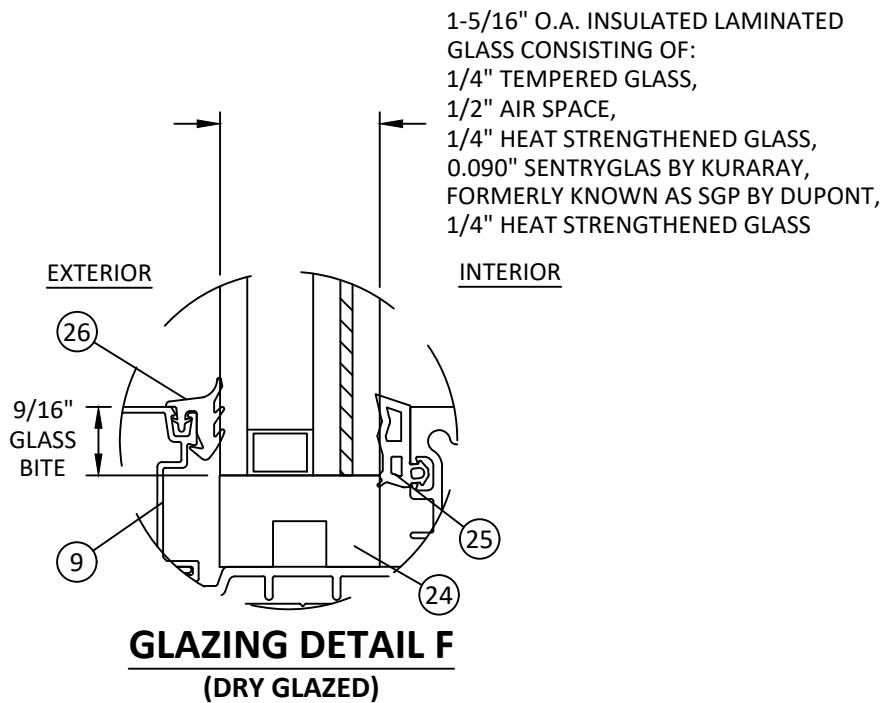
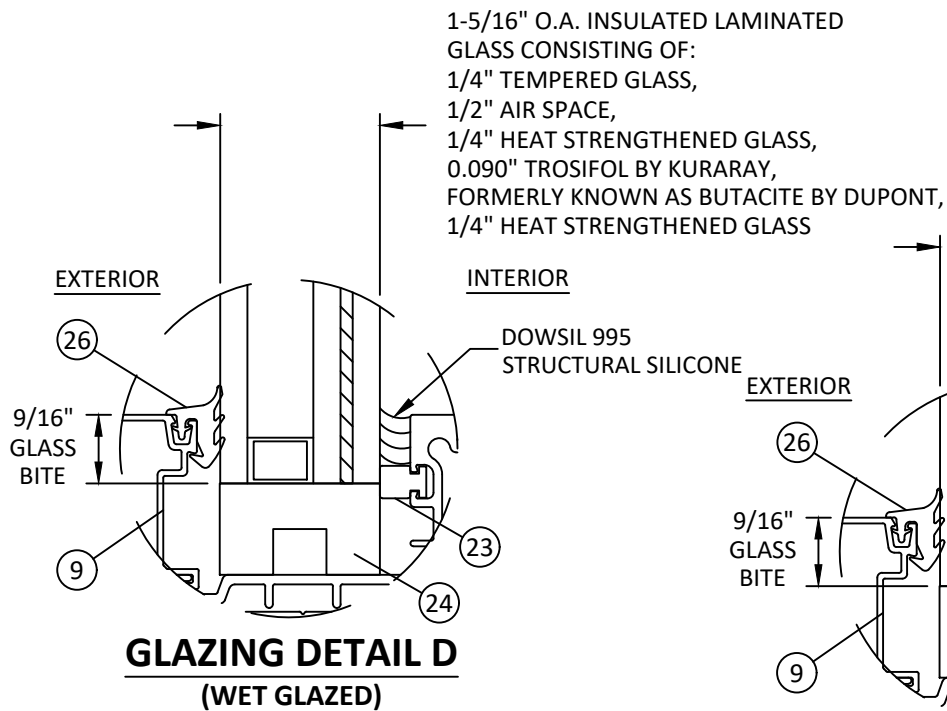
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GLASS LOAD CAPACITY (PSF)					
DAYLIGHT OPENING (IN)		GLASS TYPES D, E OR L	GLASS TYPE F		GLASS TYPES G OR H
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	EXT. (+)	INT. (-)	EXT. (+) INT. (-)
27.5	54.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	90.0	70.0
45.5		50.0	70.0	88.5	70.0
51.5		44.2	70.0	78.2	70.0
57.5		44.2	70.0	78.3	70.0
63.5	60.375	48.7	70.0	79.7	70.0
69.5		41.8	68.4	68.4	68.4
27.5	66.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	90.0	70.0
45.5		50.0	70.0	88.5	70.0
51.5		44.2	70.0	78.2	70.0
57.5		39.6	70.0	70.0	70.0
63.5	66.375	39.6	70.0	70.1	70.0
69.5		43.4	70.0	73.6	70.0
27.5	72.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	90.0	70.0
45.5		50.0	70.0	88.5	70.0
51.5		44.2	70.0	78.2	70.0
57.5		39.6	70.0	70.0	70.0
63.5	78.375	35.8	63.4	63.4	63.4
69.5		35.9	63.5	63.5	63.5
27.5	84.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	90.0	70.0
45.5		50.0	70.0	88.5	70.0
51.5		44.2	70.0	78.2	70.0
57.5		39.6	70.0	70.0	70.0
63.5	84.375	-	63.4	63.4	63.4
69.5		-	57.9	57.9	57.9
27.5	84.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	90.0	70.0
45.5		50.0	70.0	87.1	70.0
51.5		44.2	70.0	78.2	70.0
57.5		-	70.0	70.0	70.0
63.5	84.375	-	63.4	63.4	63.4
69.5		-	57.9	57.9	57.9

GLASS LOAD CAPACITY (PSF)					
DAYLIGHT OPENING (IN)		GLASS TYPES D, E OR L	GLASS TYPE F		GLASS TYPES G OR H
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	EXT. (+)	INT. (-)	EXT. (+) INT. (-)
27.5	90.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	90.0	70.0
45.5		50.0	70.0	85.0	70.0
51.5		44.2	70.0	78.2	70.0
57.5		-	70.0	70.0	70.0
63.5	96.375	-	63.4	63.4	63.4
69.5		-	53.8	53.8	-
27.5	102.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	90.0	70.0
45.5		50.0	70.0	83.3	70.0
51.5		-	70.0	76.7	70.0
57.5		-	70.0	70.0	70.0
63.5	108.375	-	58.9	58.9	-
66.5		-	56.2	56.2	-
27.5	114.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	90.0	70.0
45.5		50.0	70.0	81.8	70.0
51.5		-	70.0	75.1	70.0
57.5		-	70.0	70.0	70.0
63.5	120.375	-	58.9	58.9	-
27.5	126.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	89.6	70.0
45.5		-	70.0	80.5	70.0
51.5		-	70.0	73.7	70.0
57.5	132.375	-	65.0	65.0	-
60.5		-	61.8	61.8	-
27.5	138.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	88.6	70.0
45.5		-	70.0	79.4	70.0
51.5	138.375	-	65.0	65.0	-
57.5		-	65.0	65.0	-
27.5	138.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
36.5		50.0	70.0	90.0	70.0
27.5	138.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
34.5		50.0	70.0	90.0	70.0
27.5	138.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0

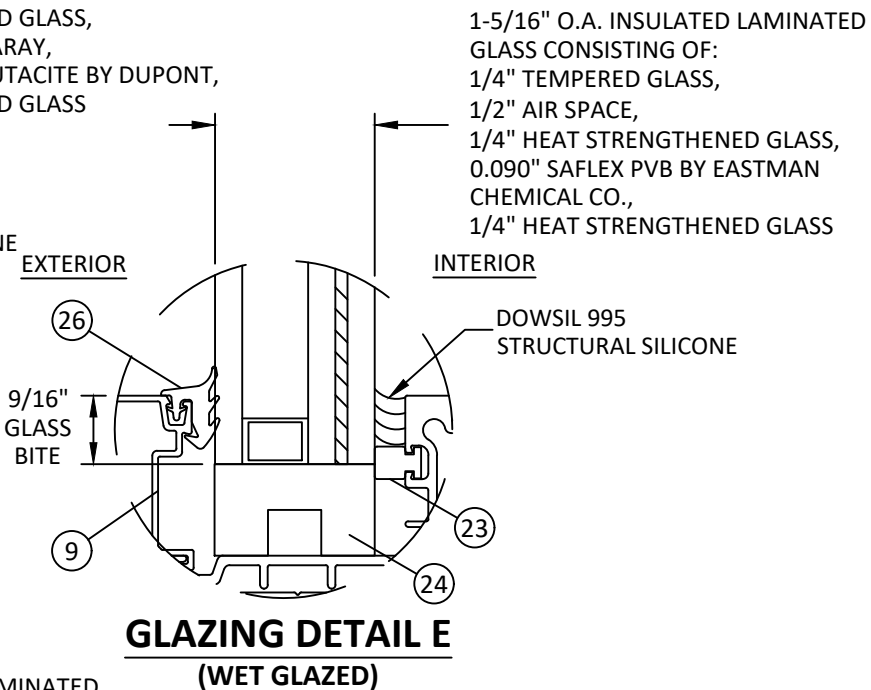
GLASS TYPES

LARGE & SMALL MISSILE IMPACT

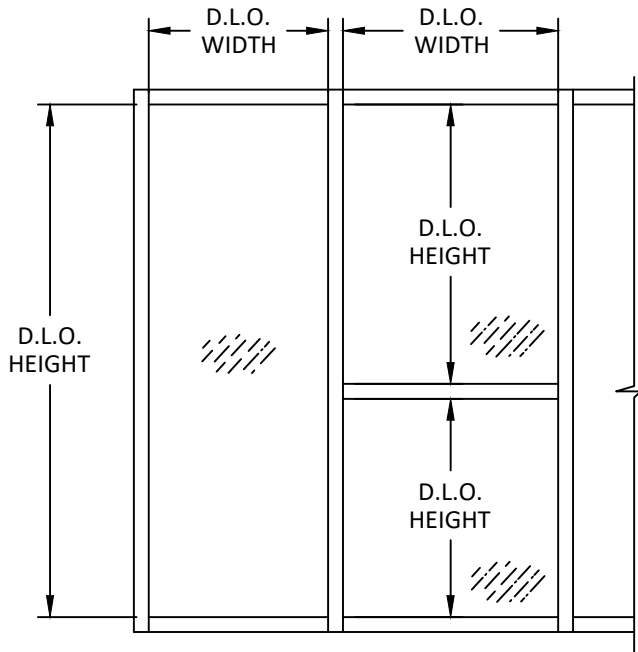


GLAZING DETAILS CONTINUED ON NEXT PAGE

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



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



- 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.



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
(WZ3) (IMPACT)

LMI GLAZING DETAILS

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15

MIAMI, FL 33132

PH: (954) 399-8478

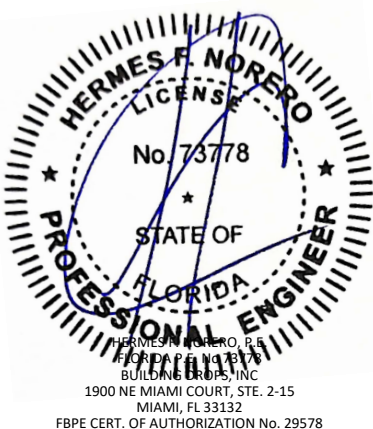
FAX: (954) 744-4738

WEB: www.buildingdrops.com



REMARKS	BY	DATE
FBC CODE UPDATE	RV	07.12.17
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
ANCHOR UPDATE	SH	02.10.26

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FL #:

FL14218

DATE: 01.28.16

DWG. BY:
SM

CHK. BY:
HFN

SCALE: NTS

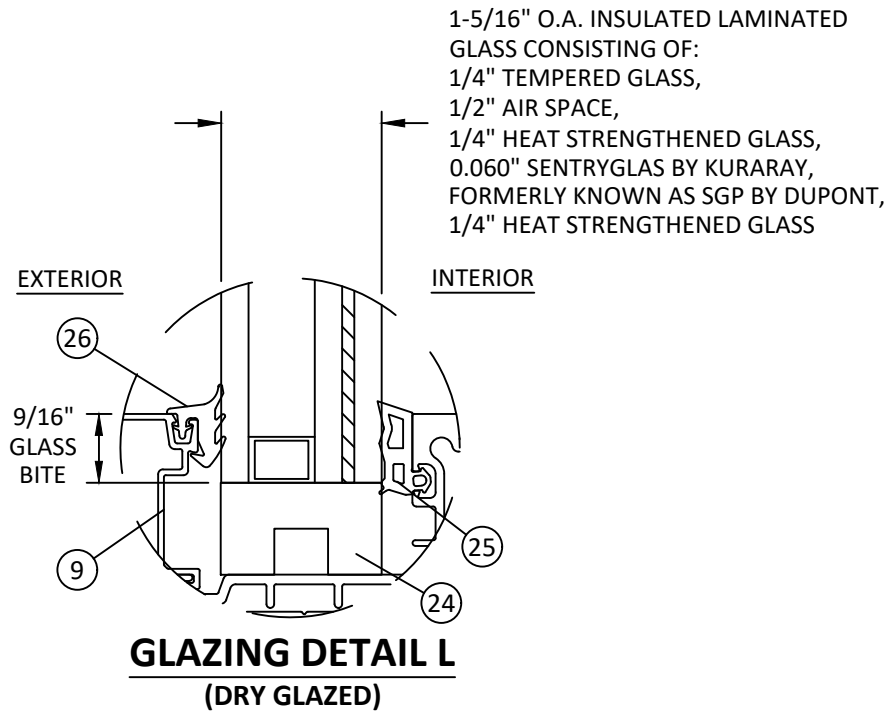
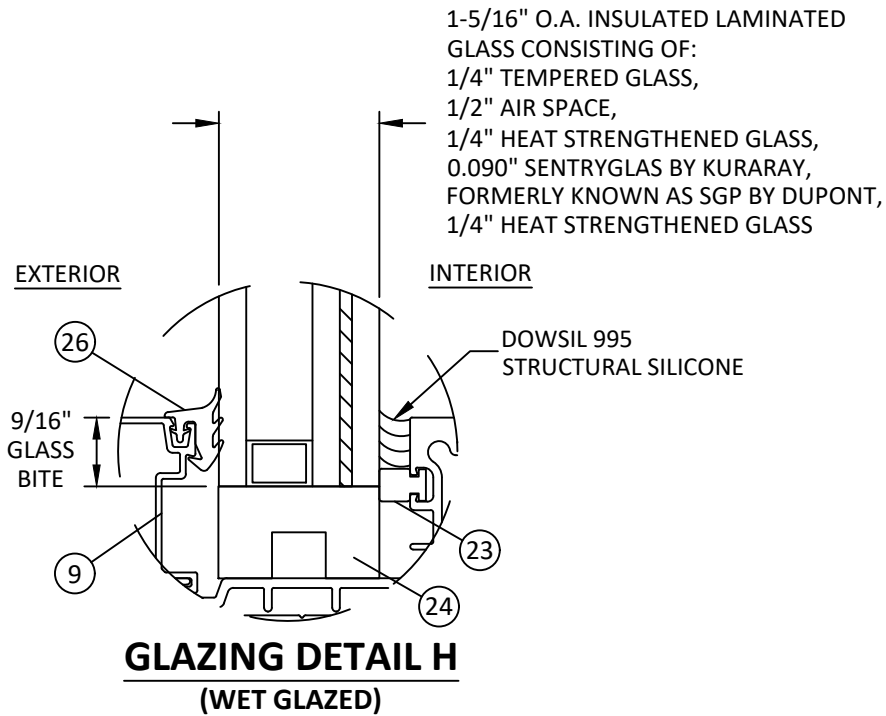
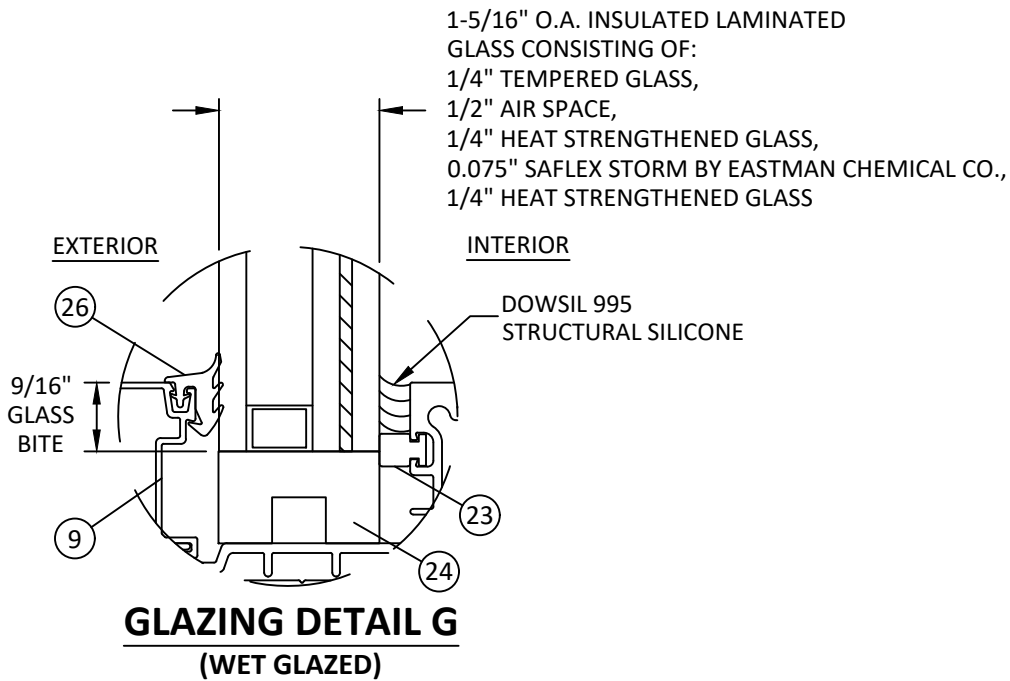
DWG. #: YKK164

SHEET:

4

[Page 4 of 24]

GLASS TYPES
LARGE & SMALL MISSILE IMPACT
(CONTINUED)



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

- NOTE:
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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
(WZ3) (IMPACT)

LMI GLAZING DETAILS

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
FBC CODE UPDATE	RV	07.12.17
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
ANCHOR UPDATE	SH	02.10.26

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FL #:
FL14218

DATE: **01.28.16**

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

SCALE: **NTS**

DWG. #: **YKK164**

SHEET:

5

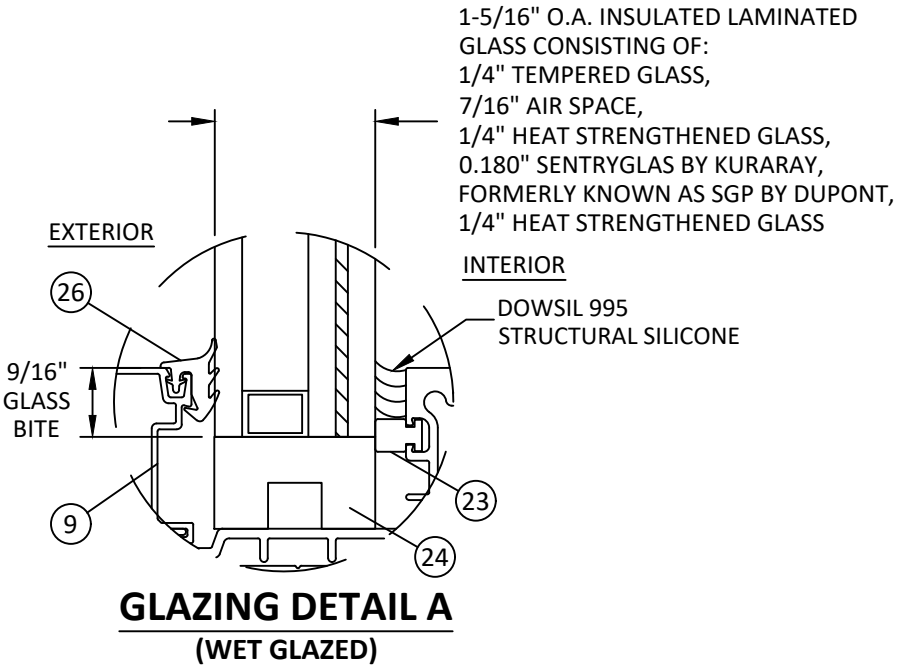
GLASS TYPES

LARGE MISSILE IMPACT

MISSILE LEVEL E RATED

GLASS LOAD CAPACITY (PSF)			
DAYLIGHT OPENING (IN)		GLASS TYPE A	
D.L.O. WIDTH	D.L.O. 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		70.0	90.0
69.5		70.0	90.0
27.5	60.375	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		70.0	90.0
69.5		70.0	90.0
27.5	66.375	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		63.4	81.5
69.5		63.5	81.6
27.5	72.375	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		63.4	81.5
69.5		57.9	74.5
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		63.4	81.5
69.5		57.9	74.5
27.5	84.375	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		63.4	81.5
69.5		57.9	74.5

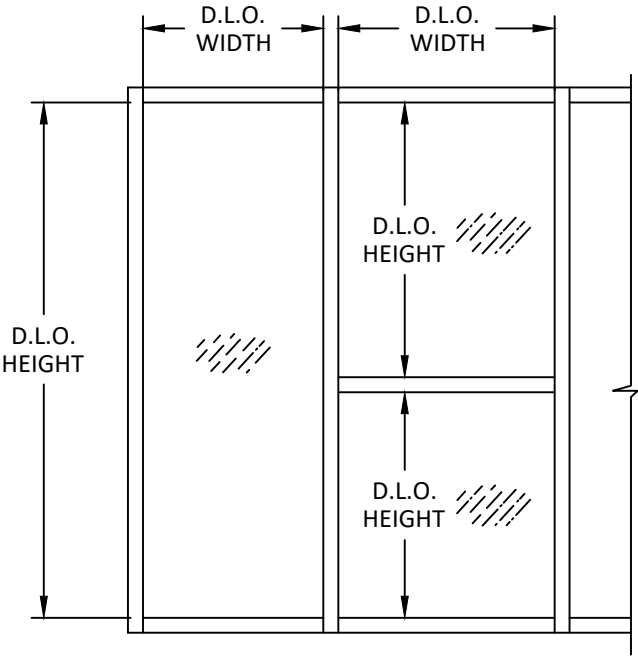
GLASS LOAD CAPACITY (PSF)			
DAYLIGHT OPENING (IN)		GLASS TYPE A	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	INT. (-)
27.5	90.3750	70.0	90.0
33.5		70.0	90.0
39.5		70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0
63.5		63.4	81.5
69.5		57.9	74.5
27.5	96.3750	70.0	90.0
33.5		70.0	90.0
39.5		70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0
63.5		63.4	81.5
66.5		60.5	77.8
27.5	102.375	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		63.4	81.5
27.5		108.375	70.0
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
60.5	66.5		85.5
27.5	114.375		70.0
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



- NOTE:**
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 4. 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"

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



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
(WZ3) (IMPACT)

GLAZING DETAILS (MISSILE LEVEL E)

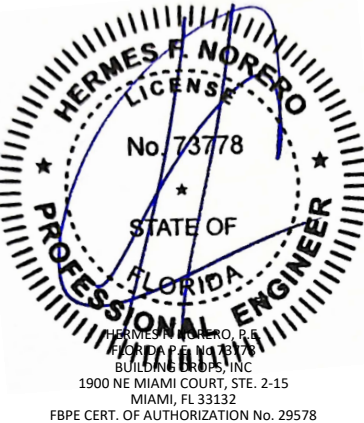
PREPARED BY:

900 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
SILL UPDATE	SH	09.23.24
ANCHOR UPDATE	SH	02.10.26

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FL #: **FL14218**

DATE: 01.28.16

DWG. BY: SM | CHK. BY: HFN

SCALE: NTS

DWG. #: YKK164

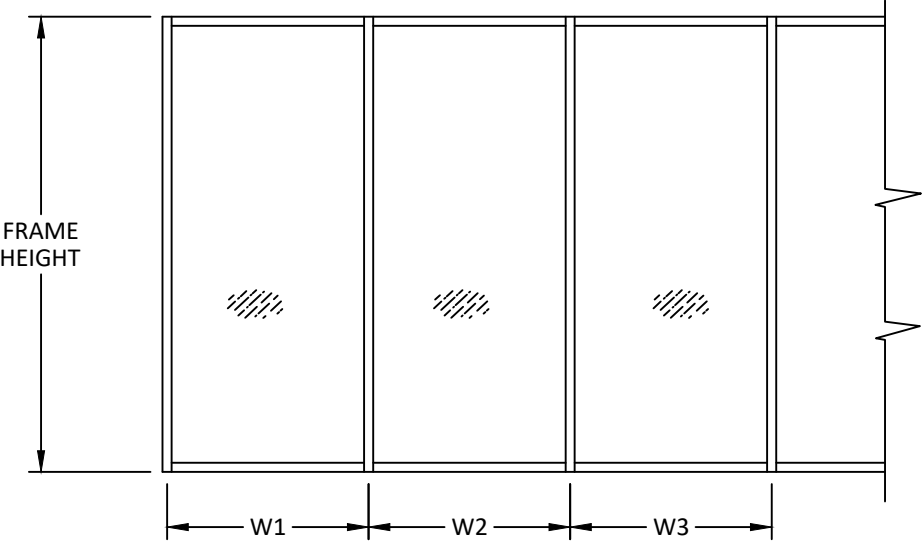
SHEET:

5A

MULLION LOAD TABLES

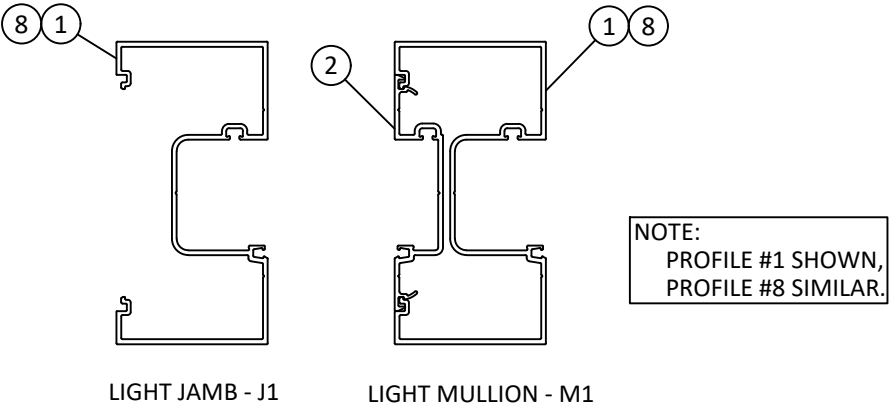
LIGHT CONFIGURATION

DESIGN LOAD CAPACITY - PSF				DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS. (IN)		LIGHT JAMB - J1	LIGHT MULLION - M1	NOMINAL DIMS. (IN)		LIGHT JAMB - J1	LIGHT MULLION - M1
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	72	50.0	50.0	30	90	50.0	50.0
33		50.0	50.0	33		50.0	50.0
36		50.0	50.0	36		50.0	50.0
39		50.0	50.0	39		50.0	50.0
42		50.0	50.0	42		50.0	50.0
45		50.0	50.0	45		50.0	50.0
48		50.0	50.0	48		50.0	50.0
51		50.0	50.0	51		50.0	50.0
54		50.0	50.0	54		50.0	48.4
57		50.0	50.0	57		50.0	45.9
60		50.0	50.0	30	96	50.0	50.0
63		50.0	50.0	33		50.0	50.0
66	78	50.0	50.0	36		50.0	50.0
69		50.0	50.0	39		50.0	50.0
72		50.0	50.0	42		50.0	50.0
30		50.0	50.0	45		50.0	50.0
33		50.0	50.0	48		50.0	47.9
36		50.0	50.0	51		50.0	45.1
39		50.0	50.0	54		50.0	42.6
42		50.0	50.0	30	102	50.0	50.0
45		50.0	50.0	33		50.0	50.0
48		50.0	50.0	36		50.0	50.0
51		50.0	50.0	39		50.0	50.0
54		50.0	50.0	42		50.0	48.5
57		50.0	50.0	45		50.0	45.2
60	84	50.0	50.0	48		50.0	42.4
63		50.0	50.0	51		50.0	40.7
66		50.0	50.0	30	108	50.0	50.0
30		50.0	50.0	33		50.0	50.0
33		50.0	50.0	36		50.0	50.0
36		50.0	50.0	39		50.0	46.6
39		50.0	50.0	42		50.0	43.2
42		50.0	50.0	45		50.0	40.3
45		50.0	50.0	48		50.0	37.8
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				



WIDTH (W) = W1 (JAMB)

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



LIGHT JAMB - J1

LIGHT MULLION - M1

LIGHT CONFIGURATION



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
(WZ3) (IMPACT)
LIGHT MULL TABLES

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
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
ANCHOR UPDATE	SH	02.10.26

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FL #:
FL14218

DATE: 01.28.16

DWG. BY: SM
CHK. BY: HFN

SCALE: NTS

DWG. #: YKK164

SHEET:

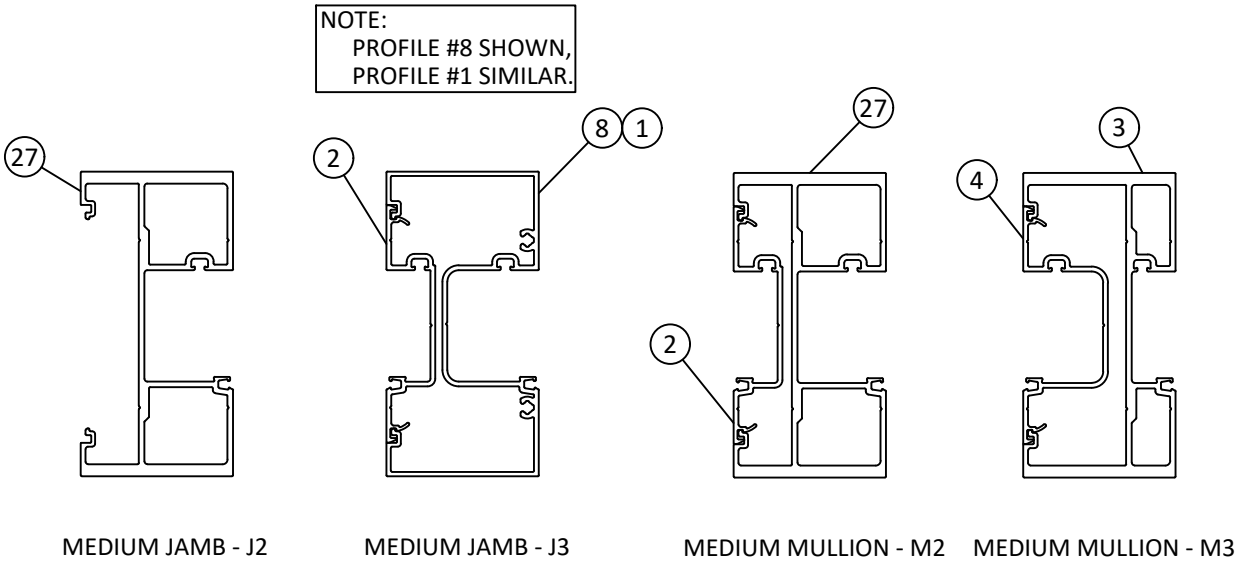
6

MULLION LOAD TABLES

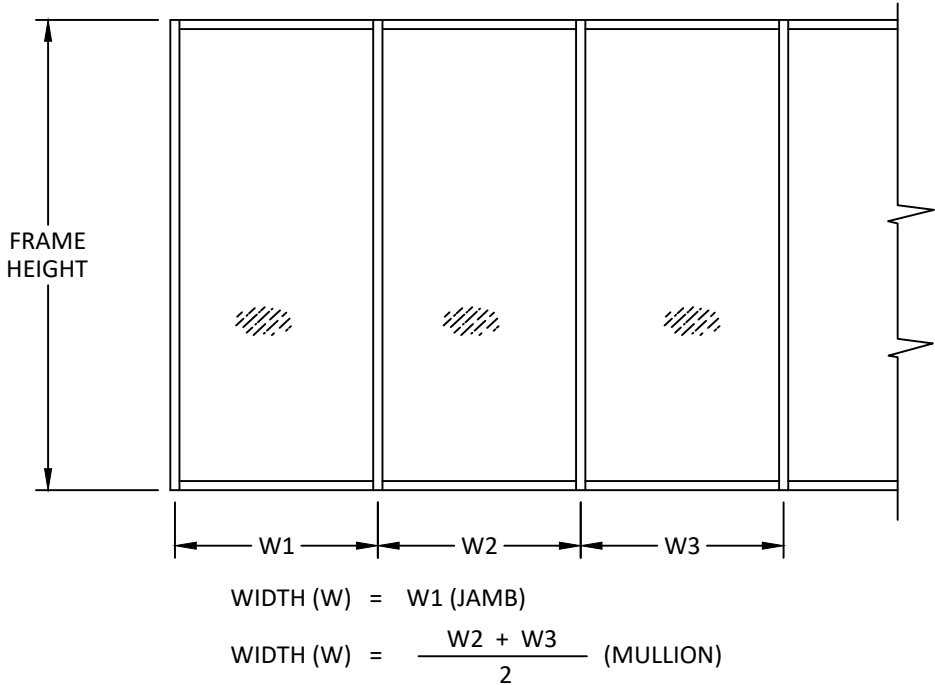
MEDIUM CONFIGURATION

DESIGN LOAD CAPACITY - PSF					
NOMINAL DIMS. (IN)		MEDIUM JAMB - J2	MEDIUM JAMB - J3	MEDIUM MULLION - M2	MEDIUM MULLION - M3
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	60	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0
54		70.0	70.0	70.0	70.0
60		70.0	70.0	70.0	70.0
66	66	70.0	70.0	70.0	70.0
72		70.0	70.0	70.0	70.0
30		70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0
54	72	70.0	70.0	70.0	70.0
60		70.0	70.0	70.0	70.0
66		70.0	70.0	70.0	70.0
72		70.0	70.0	70.0	70.0
30		70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0
42	78	70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0
54		70.0	70.0	70.0	70.0
60		70.0	70.0	70.0	70.0
66		70.0	70.0	70.0	70.0
72		70.0	70.0	70.0	70.0

DESIGN LOAD CAPACITY - PSF					
NOMINAL DIMS. (IN)		MEDIUM JAMB - J2	MEDIUM JAMB - J3	MEDIUM MULLION - M2	MEDIUM MULLION - M3
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	84	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0
54		70.0	70.0	70.0	70.0
60		70.0	70.0	70.0	70.0
66	90	70.0	70.0	70.0	70.0
72		70.0	70.0	70.0	70.0
30		70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0
54	96	70.0	70.0	70.0	70.0
60		70.0	70.0	70.0	70.0
66		70.0	70.0	70.0	70.0
72		70.0	67.2	64.7	64.4
30		70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0
42	102	70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0
54		70.0	69.8	67.2	66.8
60		70.0	62.8	60.4	60.2
30		70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0
42	108	70.0	70.0	70.0	70.0
48		70.0	70.0	67.4	67.1
54		70.0	62.3	59.9	59.6
60		70.0	56.0	53.9	53.7



MEDIUM CONFIGURATION



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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
(WZ3) (IMPACT)
MEDIUM MULL 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
SILL UPDATE	SH	09.23.24
ANCHOR UPDATE	SH	02.10.26
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: **01.28.16**

DWG. BY:
SM

CHK. BY:
HFN

SCALE: **NTS**

DWG. #: **YKK164**

SHEET:
7
[Page 8 of 24]

c:\users\sebastianherrerros\building drops, inc\building drops, inc\building drops, inc\fbc-26-0123 - fl14218 yns 50 tu pre-glazed storefront systems\dwgs\fy\ykk164.dwg 2/10/2026 4:06 PM

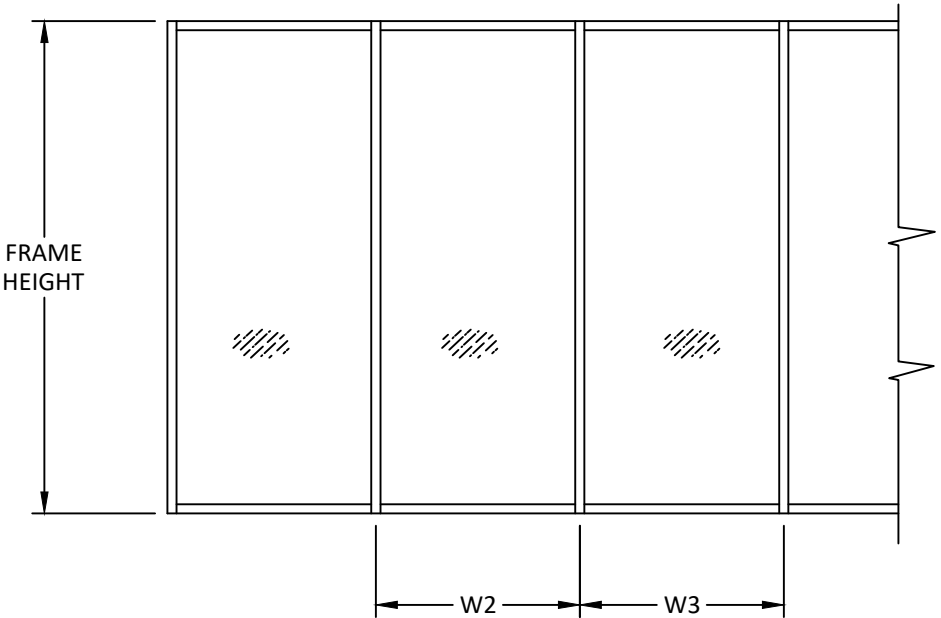
MULLION LOAD TABLES

EXPANSION MULLION

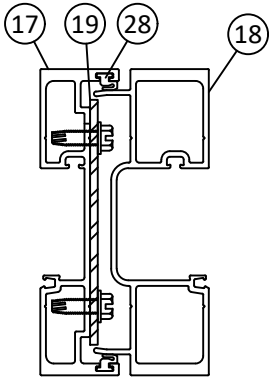
DESIGN LOAD CAPACITY - PSF		
NOMINAL DIMS. (IN)		EXPANSION MULLION
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)
30	72	65.0
33		65.0
36		65.0
39		65.0
42		65.0
45		65.0
48		65.0
51		65.0
54		65.0
57		65.0
60	78	65.0
63		65.0
66		65.0
69		65.0
72		65.0
30		65.0
33		65.0
36		65.0
39		65.0
42		65.0
45	84	65.0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

DESIGN LOAD CAPACITY - PSF		
NOMINAL DIMS. (IN)		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	96	57.8
63		55.0
66		52.5
69		50.2
72		48.1
30		65.0
33		65.0
36		65.0
39		65.0
42		65.0
45	102	63.5
48		59.7
51		56.4
54		53.5
57		50.8
60		48.4
63		46.2
66		44.2
69		42.3
72		42.3

DESIGN LOAD CAPACITY - PSF		
NOMINAL DIMS. (IN)		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	114	40.1
63		38.2
66		36.5
30		65.0
33		65.0
36		60.0
39		55.4
42		51.4
45		48.0
48		45.0
51	120	42.4
54		40.0
57		37.9
60		36.0
63		34.3
30		65.0
33		59.1
36		54.2
39		50.0
42		46.4
45	126	43.3
48		40.6
51		38.2
54		36.1
57		34.2
60		32.5
30		59.0
33		53.6
36		49.1
39		45.4
41	132	43.1
30		53.7
33		48.8
36		44.8
39		41.3
40		49.1
33	138	44.7
37		39.8
30		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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ATLANTA, GA 30303
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YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(WZ3) (IMPACT)
EXPANSION MULL TABLES

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MIAMI, FL 33132
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REMARKS

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

FL #:

FL14218

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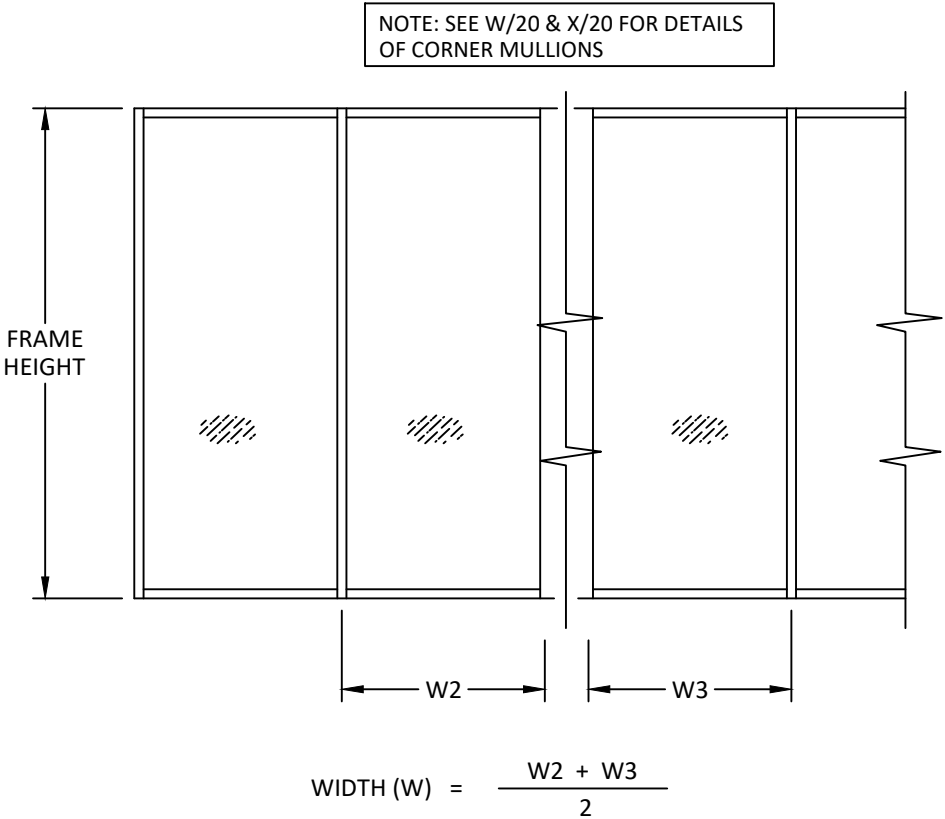
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CORNER MULLION LOAD TABLES

DESIGN LOAD CAPACITY - PSF				DESIGN LOAD CAPACITY - PSF				DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS. (IN)		90 DEGREE MULLION	135 DEGREE MULLION	NOMINAL DIMS. (IN)		90 DEGREE MULLION	135 DEGREE MULLION	NOMINAL DIMS. (IN)		90 DEGREE MULLION	135 DEGREE MULLION
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	72	70.0	70.0	30	90	70.0	70.0	30	108	61.7	57.9
33		70.0	70.0	33		70.0	70.0	33		56.1	52.7
36		70.0	70.0	36		70.0	69.5	36		51.4	48.3
39		70.0	70.0	39		68.4	64.2	39		47.5	44.6
42		70.0	70.0	42		63.5	59.6	42		44.1	41.4
45		70.0	70.0	45		59.3	55.6	45		41.2	38.6
48		70.0	70.0	48		55.6	52.1	48		38.6	36.2
51		70.0	70.0	51		52.3	49.1	51		36.3	34.1
54		70.0	70.0	54		49.4	46.3	54		34.3	32.2
57		70.0	68.6	57		46.8	43.9	57		32.5	30.5
60		69.4	65.2	60		44.4	41.7	60		30.9	29.0
63		66.1	62.1	63		42.3	39.7	63		29.4	27.6
66	78	63.1	59.2	66	96	40.4	37.9	66	114	28.1	26.3
69		60.4	56.7	69		38.6	36.3	69		55.4	52.0
72		57.9	54.3	72		37.0	34.8	33		50.4	47.3
30		70.0	70.0	30		70.0	70.0	36		46.2	43.3
33		70.0	70.0	33		70.0	66.6	39		42.6	40.0
36		70.0	70.0	36		65.1	61.1	42		39.6	37.1
39		70.0	70.0	39		60.1	56.4	45		36.9	34.7
42		70.0	70.0	42		55.8	52.4	48		34.6	32.5
45		70.0	70.0	45		52.1	48.9	51		32.6	30.6
48		70.0	69.4	48		48.8	45.8	54		30.8	28.9
51		69.6	65.3	51		46.0	43.1	57		29.2	27.4
54		65.7	61.7	54		43.4	40.7	60		27.7	26.0
57		62.3	58.4	57		41.1	38.6	63		26.4	24.8
60	84	59.2	55.5	60	102	39.1	36.7	30	120	50.0	46.9
63		56.4	52.9	63		37.2	34.9	33		45.5	42.7
66		53.8	50.5	66		35.5	33.3	36		41.7	39.1
69		51.5	48.3	69		34.0	31.9	39		38.5	36.1
72		49.3	46.3	72		32.6	30.5	42		35.7	33.5
30		70.0	70.0	30		69.2	64.9	45		33.3	31.3
33		70.0	70.0	33		62.9	59.0	48		31.2	29.3
36		70.0	70.0	36		57.7	54.1	51		29.4	27.6
39		70.0	70.0	39		53.2	49.9	54		27.8	26.1
42		70.0	68.4	42		49.4	46.4	57		26.3	24.7
45		68.0	63.8	45		46.1	43.3	60		25.0	23.5
48		63.8	59.8	48		43.3	40.6	30	126	45.4	42.6
51	84	60.0	56.3	51	102	40.7	38.2	33		41.2	38.7
54		56.7	53.2	54		38.4	36.1	36		37.8	35.5
57		53.7	50.4	57		36.4	34.2	39		34.9	32.7
60		51.0	47.9	60		34.6	32.5	41		33.2	31.1
63		48.6	45.6	63		33.0	30.9	30	132	41.3	38.8
66		46.4	43.5	66		31.5	29.5	33		37.6	35.2
69		44.4	41.6	69		30.1	28.2	36		34.4	32.3
72		42.5	39.9					39		31.8	29.8
								30	138	37.8	35.5
								33		34.4	32.2
								37		30.7	28.8
								30	144	34.7	32.6
								33		31.6	29.6
								36		28.9	27.2



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

TITLE:
YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(WZ3) (IMPACT)
CORNER MULL 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

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FBC CODE UPDATE

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MISC. UPDATES

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ANCHOR UPDATE

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HERMES F. NORERO

LICENSE

No. 73778

STATE OF FLORIDA

PROFESSIONAL ENGINEER

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

FL #:

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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

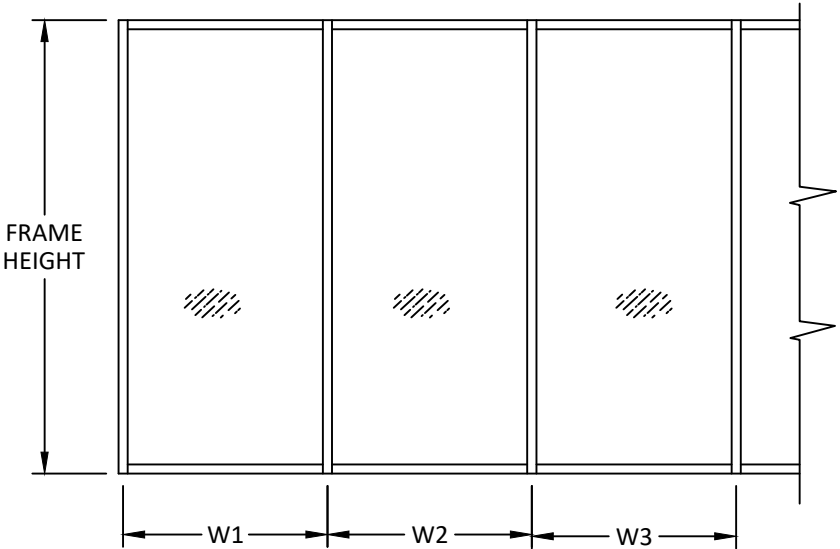
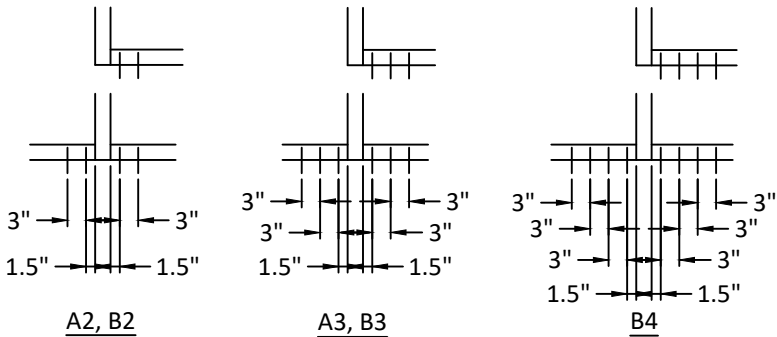
ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT (-)					
NOMINAL DIMS. (IN)		ANCHOR TYPE 'A'		ANCHOR TYPE 'B'	
WIDTH (W)	FRAME HEIGHT	A2	A3	B2	B3
30	90	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0
45		90.0	90.0	90.0	90.0
48		90.0	90.0	90.0	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	89.4
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	88.7
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	88.5
30	126	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	86.4	90.0
41		90.0	90.0	82.2	90.0
30	132	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0
36		90.0	90.0	89.4	90.0
39		90.0	90.0	82.5	90.0
30	138	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0
36		90.0	90.0	85.5	90.0
37		90.0	90.0	83.2	90.0
30	144	90.0	90.0	90.0	90.0
33		90.0	90.0	89.4	90.0
36		90.0	90.0	81.9	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
(WZ3) (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
SILL UPDATE	SH	09.23.24
ANCHOR UPDATE	SH	02.10.26

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

FL #:
FL14218

DATE: **01.28.16**

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

SCALE: **NTS**

DWG. #: **YKK164**

SHEET:

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

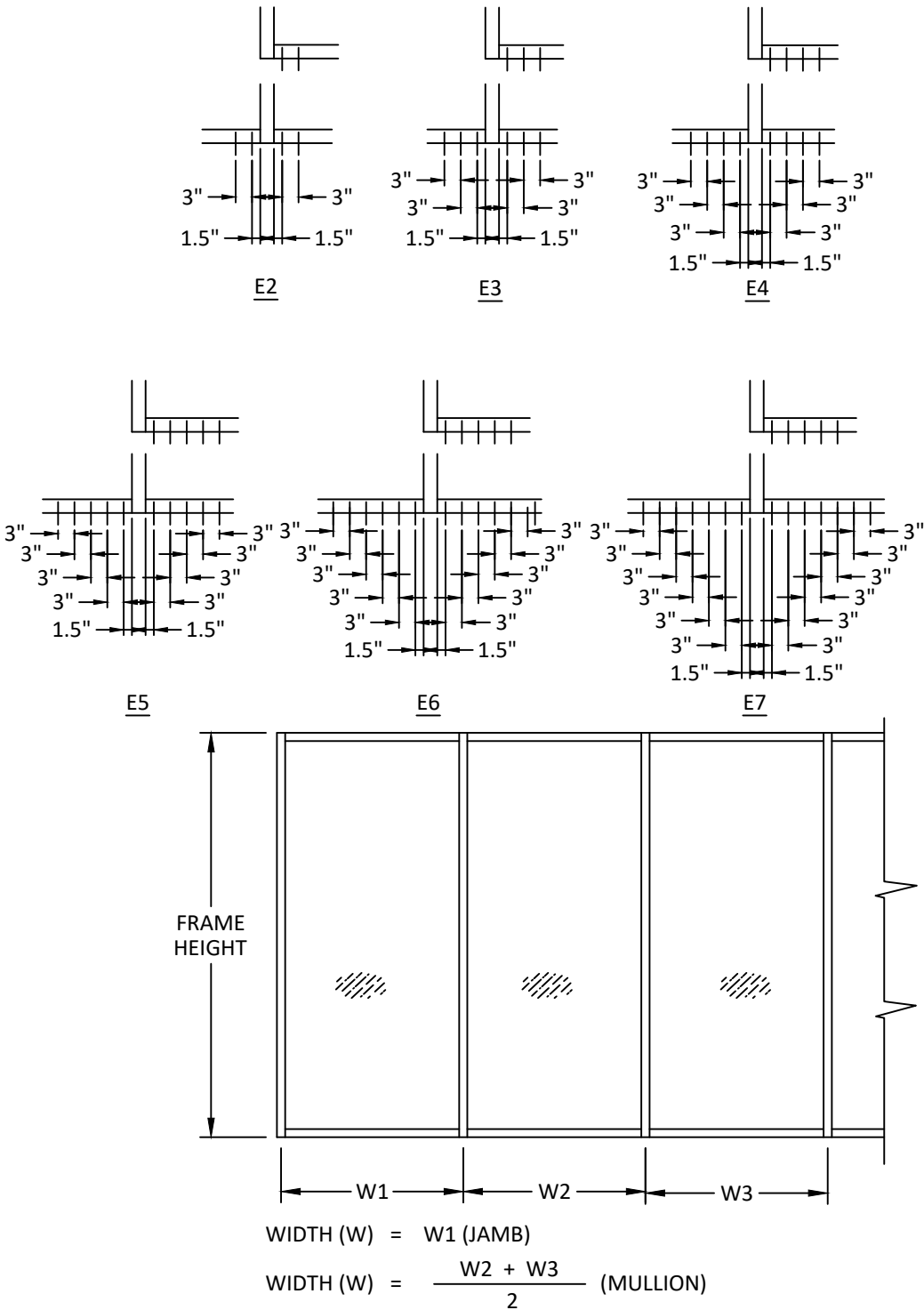
ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT (-)										
NOMINAL DIMS. (IN)		ANCHOR TYPE 'C'			ANCHOR TYPE 'D'					
WIDTH (W)	FRAME HEIGHT	C2	C3	C4	D2	D3	D4	D5	D6	
30	90	90.0	90.0	90.0	85.3	90.0	90.0	90.0	90.0	
33		90.0	90.0	90.0	77.6	90.0	90.0	90.0	90.0	
36		90.0	90.0	90.0	71.1	90.0	90.0	90.0	90.0	
39		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	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	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	132	83.7	90.0	90.0	58.2	87.3	90.0	90.0	90.0	
33		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	

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



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
(WZ3) (IMPACT)

TYPE E ANCHOR TABLES

PREPARED BY:

BUILDING DROPS, INC.

MIAMI COURT, STE. 2-15

MIAMI, FL 33132

PH: (954)399-8478



REMARKS	BY	DATE
FBC CODE UPDATE	RV	07.12.17
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
ANCHOR UPDATE	SH	02.10.26

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: 01.28.16

DWG. BY:
SM

CHK. BY:
HFN

SCALE: NTS

DWG. #: YKK164

SHEET:

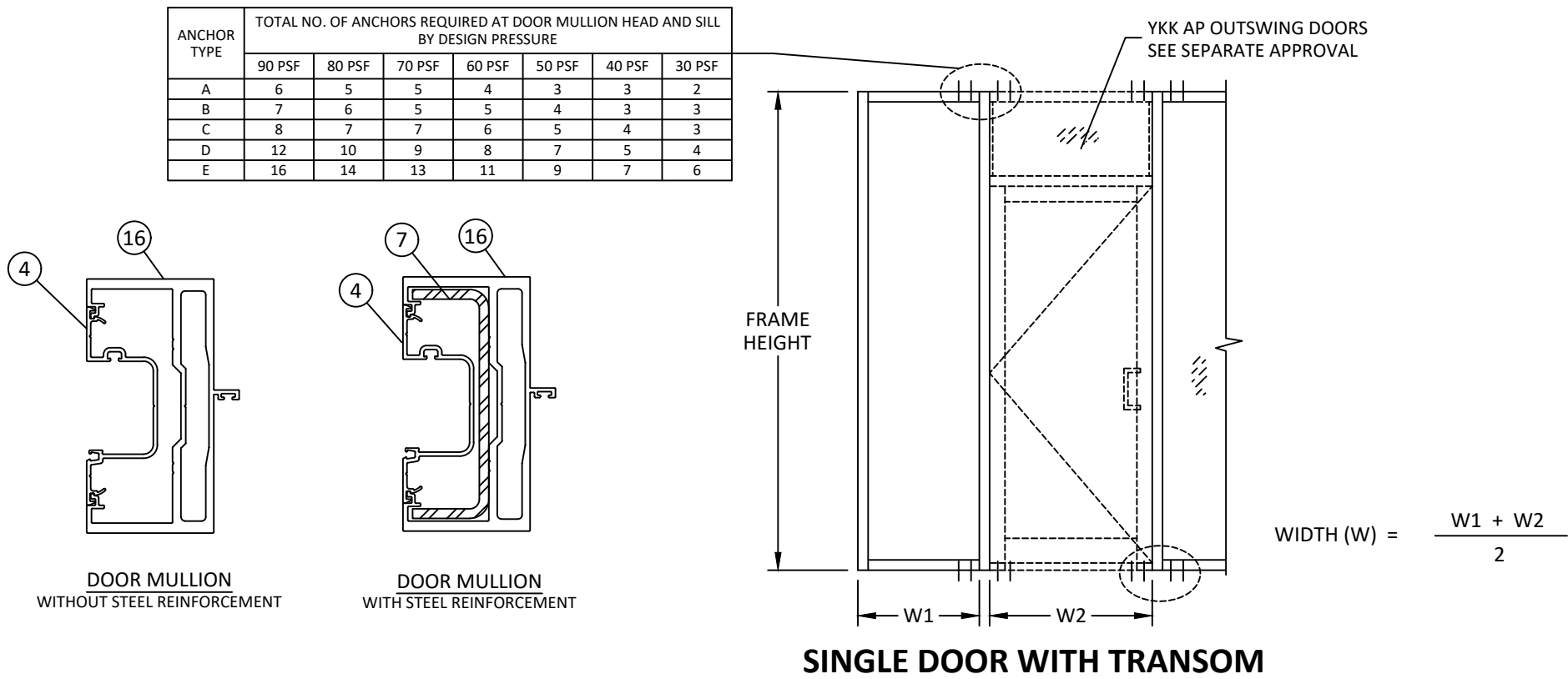
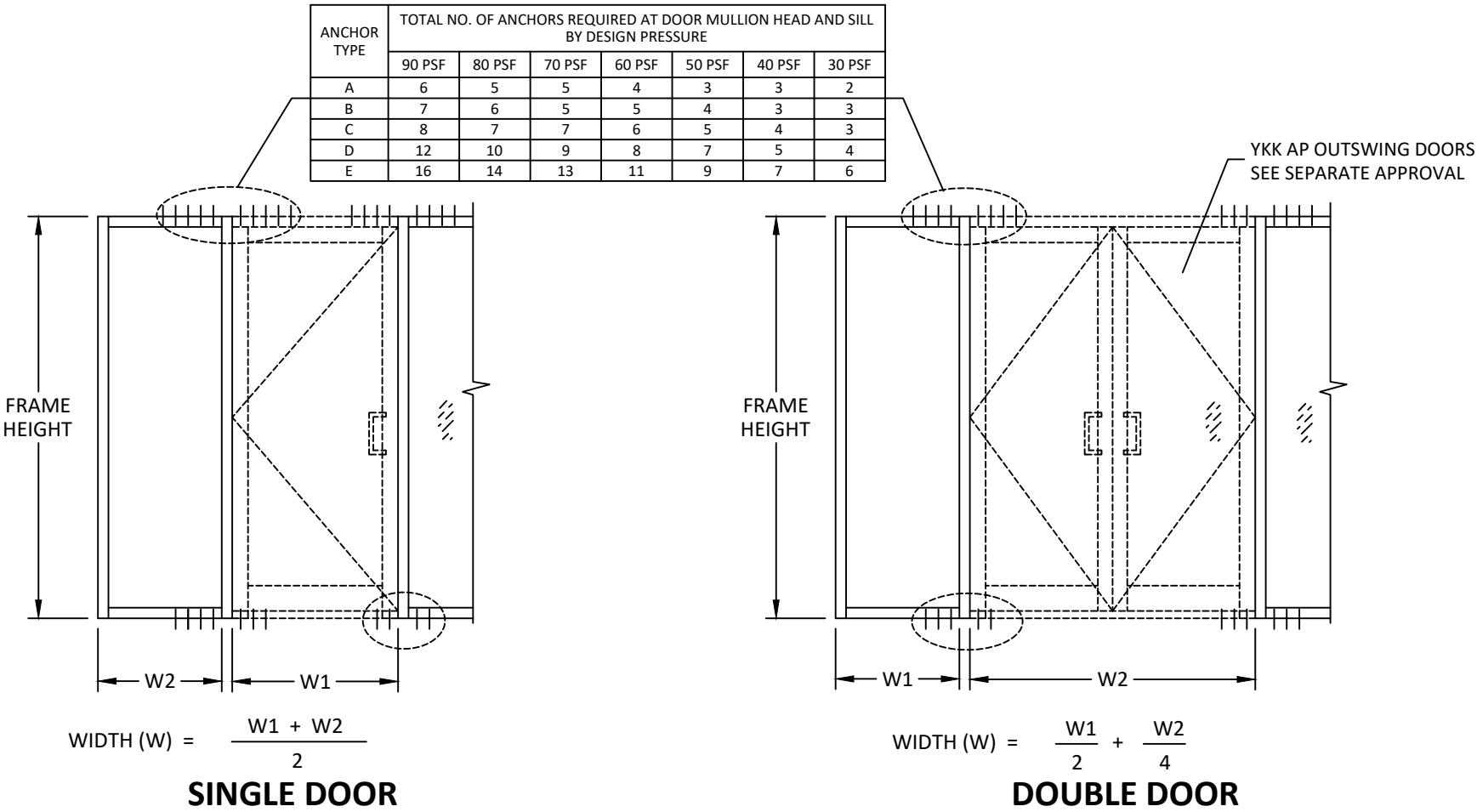
13A

[Page 15 of 24]

c:\users\sebastianhereros\building drops, inc\building drops, inc\projects\ykk ap america, inc\fbc-26-0123 - fl14218 yns 50 tu pre-glazed storefront systems\dwgs\ykk164.dwg
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DOOR MULLION LOAD CAPACITY (PSF)					
NOMINAL DIMS. (IN)		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		70.0	70.0	70.0	90.0
60		70.0	70.0	70.0	90.0
24	108	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		70.0	70.0	70.0	90.0
60		70.0	70.0	70.0	90.0
24	114	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		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
24	126	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		67.3	67.3	70.0	90.0
54		59.8	59.8	70.0	90.0
60		57.1	57.1	70.0	90.0
24	132	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		66.9	66.9	70.0	90.0
48		58.5	58.5	70.0	90.0
54		57.1	57.1	70.0	90.0
60		52.4	52.4	64.2	82.6
24	138	70.0	70.0	70.0	90.0
30		70.0	70.0	70.0	90.0
36		68.3	68.3	70.0	90.0
42		58.5	58.5	70.0	90.0
48		57.1	57.1	70.0	90.0
54		50.9	50.9	62.4	80.3
60		45.8	45.8	56.2	72.2
24	144	70.0	70.0	70.0	90.0
30		70.0	70.0	70.0	90.0
36		60.1	60.1	70.0	90.0
42		57.1	57.1	70.0	90.0
48		50.4	50.4	61.8	79.5
54		44.8	44.8	55.0	70.7
60		40.3	40.3	49.5	63.6

DOOR MULLION LOAD & ANCHOR TABLES



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 (WZ3) (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
SILL UPDATE	SH	09.23.24
ANCHOR UPDATE	SH	02.10.26

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

FL #:

FL14218

DATE: **01.28.16**

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

DWG. #: **YKK164**

SHEET:

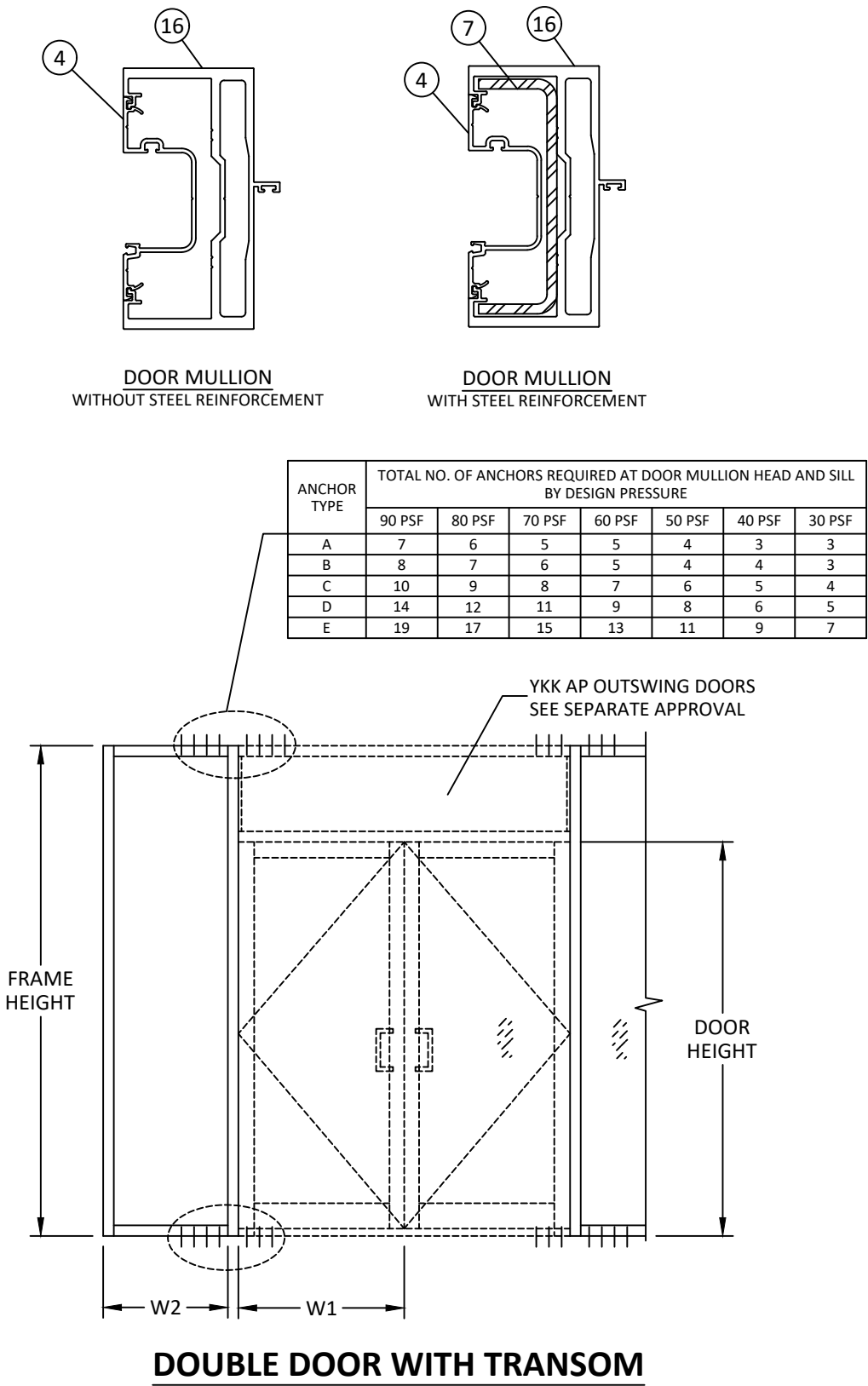
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DOOR MULLION LOAD & ANCHOR TABLES

DOOR MULLION LOAD CAPACITY (PSF)						
NOMINAL DIMS. (IN)			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
	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
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
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

DOOR MULLION LOAD CAPACITY (PSF)						
NOMINAL DIMS. (IN)			WITHOUT STEEL REINF.		WITH STEEL REINF.	
FRAME HEIGHT (IN.)	DOOR PANEL WIDTH - W1 (IN.)	SIDELITE WIDTH - W2 (IN.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
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
126	36	30	60.4	60.4	70.0	90.0
		36	57.2	57.2	70.0	90.0
		42	57.1	57.1	70.0	90.0
		48	57.1	57.1	70.0	90.0
	42	30	57.1	57.1	70.0	90.0
		36	57.1	57.1	70.0	90.0
		42	55.2	55.2	67.6	86.9
		48	52.7	52.7	64.7	83.1
	48	30	55.2	55.2	67.6	86.9
		36	52.7	52.7	64.7	83.1
		38	52.0	52.0	63.7	81.9
		30	57.1	57.1	70.0	90.0
	36	36	55.6	55.6	68.2	87.7
		42	52.8	52.8	64.7	83.2
		48	50.3	50.3	61.6	79.2
		30	52.8	52.8	64.7	83.2
132	42	36	50.3	50.3	61.6	79.2
		42	48.0	48.0	58.8	75.6
		44	47.3	47.3	57.9	74.5
		30	48.0	48.0	58.8	75.6
	48	32	47.3	47.3	57.9	74.5
		30	51.4	51.4	63.0	81.0
		36	48.7	48.7	59.7	76.7
		42	46.2	46.2	56.7	72.9
	36	48	44.0	44.0	53.9	69.4
		30	46.2	46.2	56.7	72.9
		36	44.0	44.0	53.9	69.4
		38	43.3	43.3	53.1	68.3
138	48	26	43.3	43.3	53.1	68.3
		30	45.2	45.2	55.5	71.3
	36	36	42.8	42.8	52.5	67.5
		42	40.7	40.7	49.9	64.1
		44	40.0	40.0	49.0	63.1
	42	30	40.7	40.7	49.9	64.1
		32	40.0	40.0	49.0	63.1
	48	20	40.0	40.0	49.0	63.1



YKK AP AMERICA, INC.
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ATLANTA, GA 30303
PH: (678) 838-6000

TITLE:
YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(WZ3) (IMPACT)
DOOR MULLION TABLES

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

REMARKS	BY	DATE
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ANCHOR UPDATE	SH	02.10.26

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

FL #:
FL14218

DATE: **01.28.16**

DWG. BY:
SM

CHK. BY:
HFN

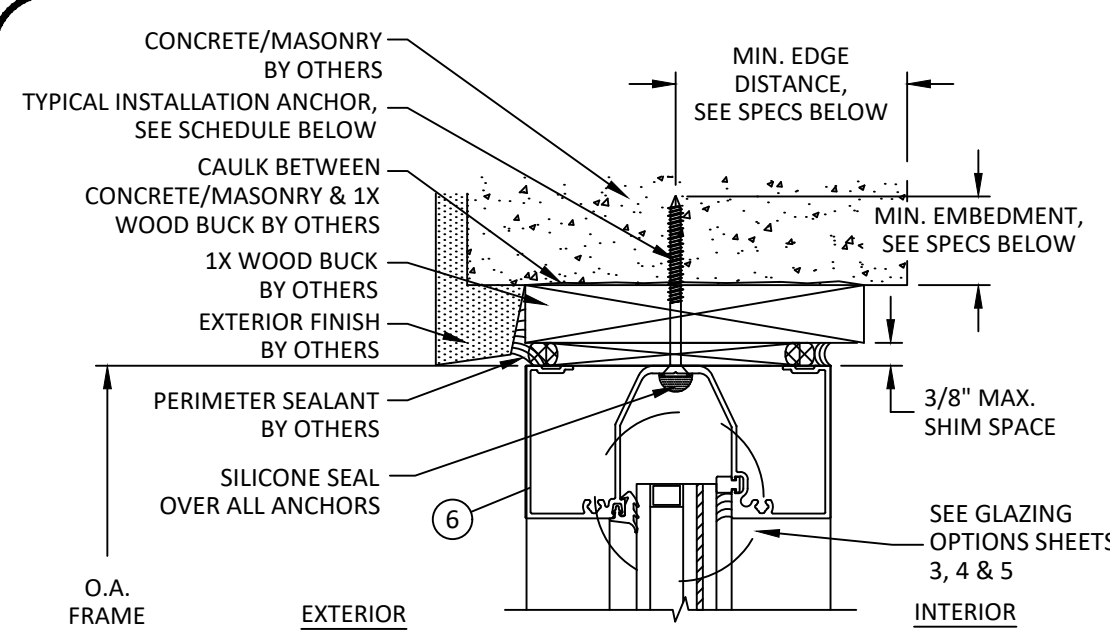
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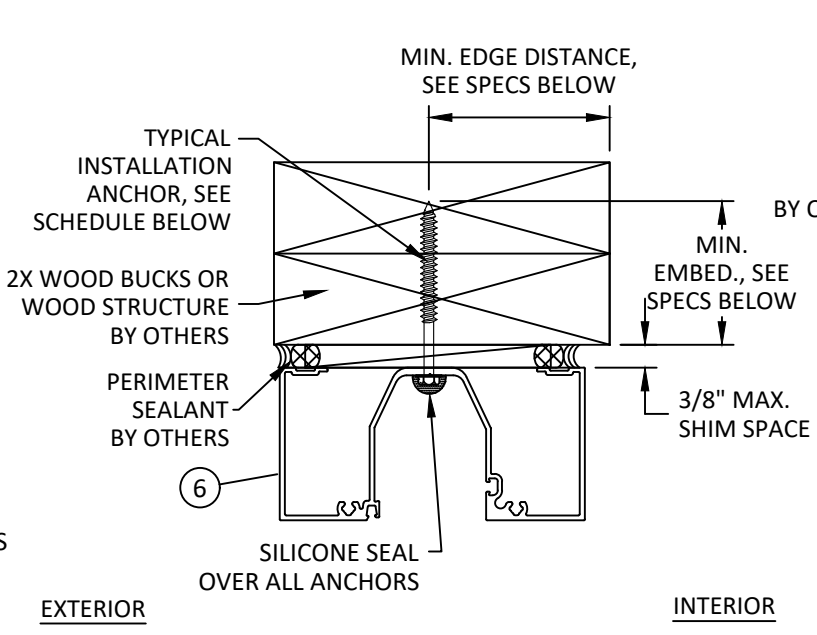
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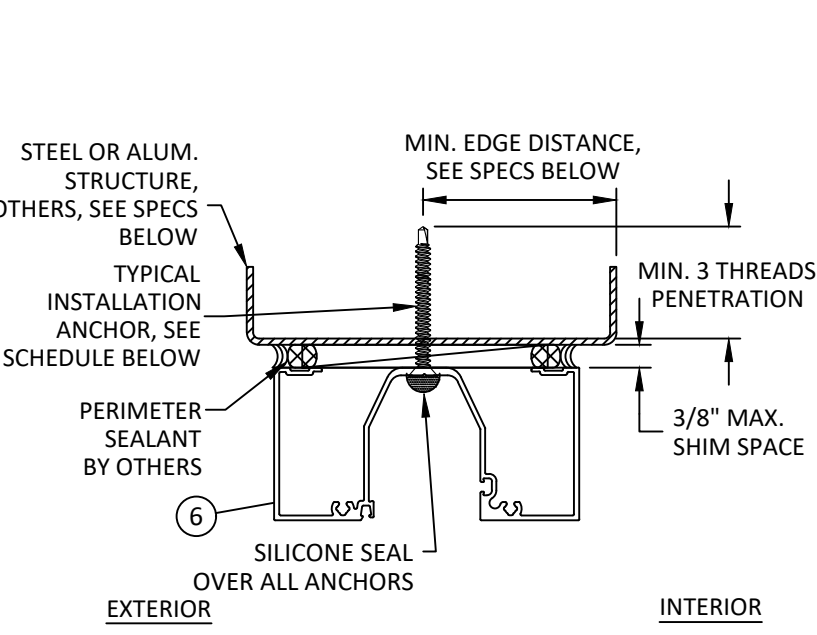
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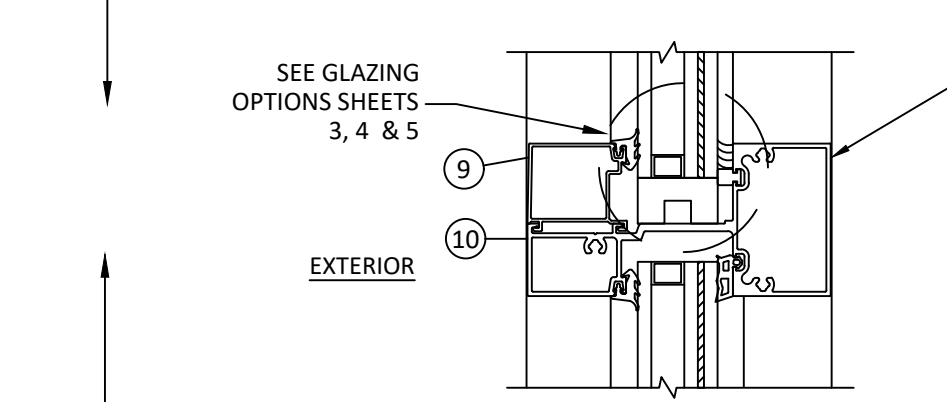
A
16 VERTICAL SECTION
HEAD - CONCRETE/MASONRY W/ 1X BUCK
LIGHT CONFIGURATION



D
16 VERTICAL SECTION
HEAD - WOOD FRAMING
TYPICAL INSTALLATION



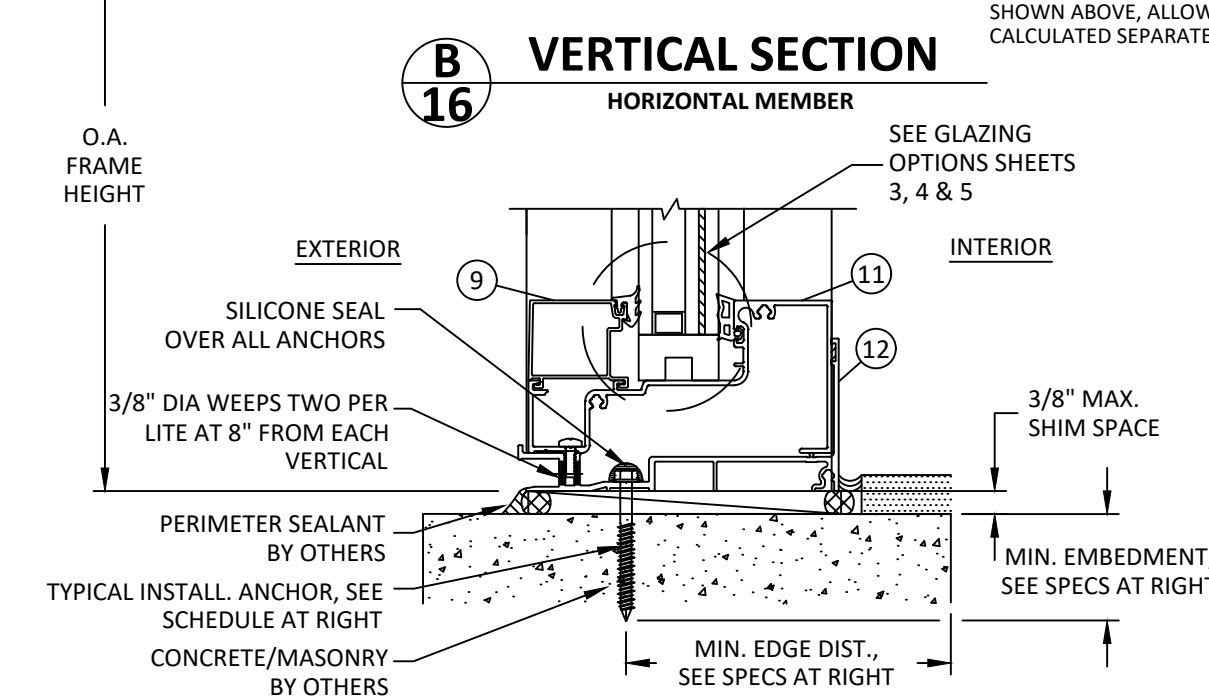
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16 VERTICAL SECTION
HEAD - METAL SUBSTRATE
TYPICAL INSTALLATION



B
16 VERTICAL SECTION
HORIZONTAL MEMBER

LIMIT DESIGN LOADS FOR HORIZONTAL AS FOLLOWS		
MAX HORIZ. SPAN	MAX GLASS HEIGHT ABOVE HORIZ.	MAX DESIGN LOADS
60"	57-1/2"	70 PSF
60"	84"	52 PSF
66"	55-15/16"	44 PSF
66"	84"	32 PSF
72"	55-15/16"	30 PSF
72"	84"	20 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
16 VERTICAL SECTION
SILL - DIRECT TO CONCRETE/MASONRY
LIGHT CONFIGURATION

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. 12 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"



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
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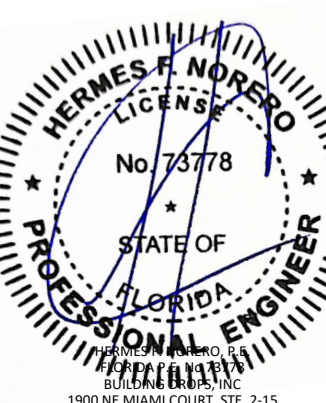
VERTICAL SECTIONS
& ANCHOR DESCRIPTIONS

PREPARED BY:  BUILDING DROPS

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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: **01.28.16**

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

DWG. #: **YKK164**

SHEET:

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[Page 18 of 24]



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.



VERTICAL SECTIONS

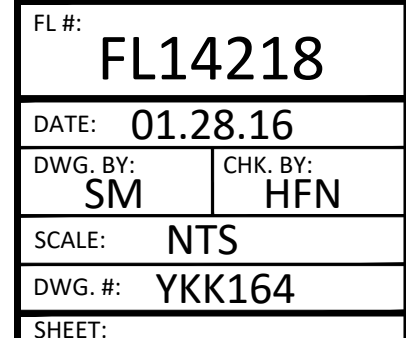
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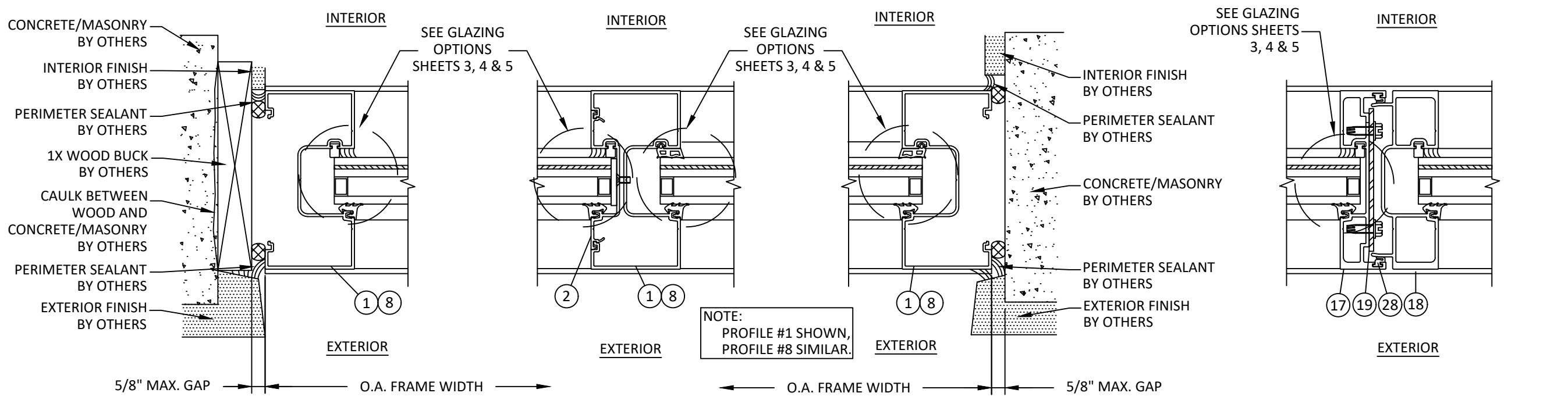


BRIDGING DROPS

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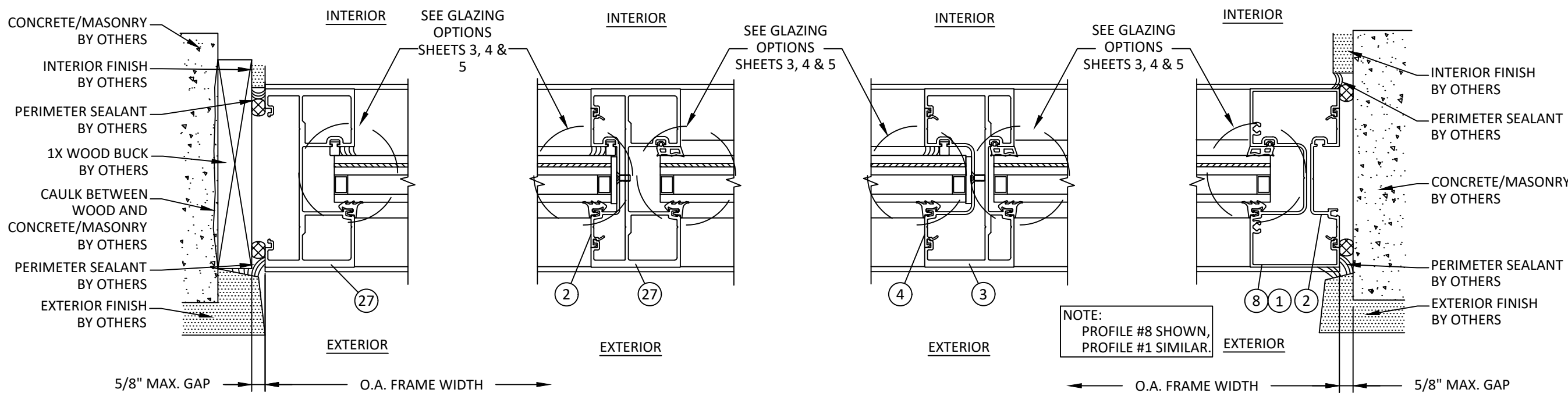


L 18 HORIZONTAL SECTION
JAMB - CONCRETE/MASONRY W/ 1X BUCK LIGHT CONFIGURATION

M 18 HORIZONTAL SECTION
VERTICAL MULLION LIGHT CONFIGURATION

N 18 HORIZONTAL SECTION
JAMB - DIRECT TO CONCRETE/MASONRY LIGHT CONFIGURATION

O 18 HORIZONTAL SECTION
VERTICAL EXPANSION MULLION



P 18 HORIZONTAL SECTION
JAMB - CONCRETE/MASONRY W/ 1X BUCK MEDIUM CONFIGURATION

Q 18 HORIZONTAL SECTION
VERTICAL MULLION MEDIUM CONFIGURATION

Q1 18 HORIZONTAL SECTION
VERTICAL MULLION MEDIUM CONFIGURATION

R 18 HORIZONTAL SECTION
JAMB - DIRECT TO CONCRETE/MASONRY MEDIUM CONFIGURATION

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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 (WZ3) (IMPACT)

HORIZONTAL SECTIONS

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MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL14218**

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

DWG. #: **YKK164**

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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 (WZ3) (IMPACT)

HORIZONTAL SECTIONS

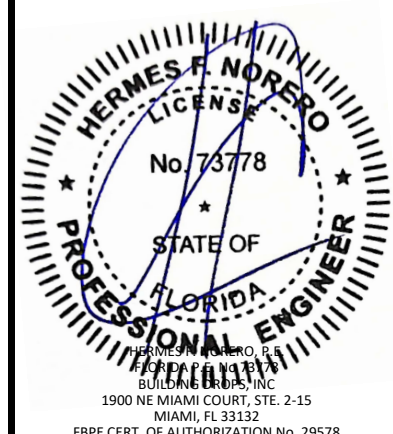
PREPARED BY: BUILDING DROPS, INC.

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
SILL UPDATE	SH	09.23.24
ANCHOR UPDATE	SH	02.10.26

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FL #:

FL14218

DATE: 01.28.16

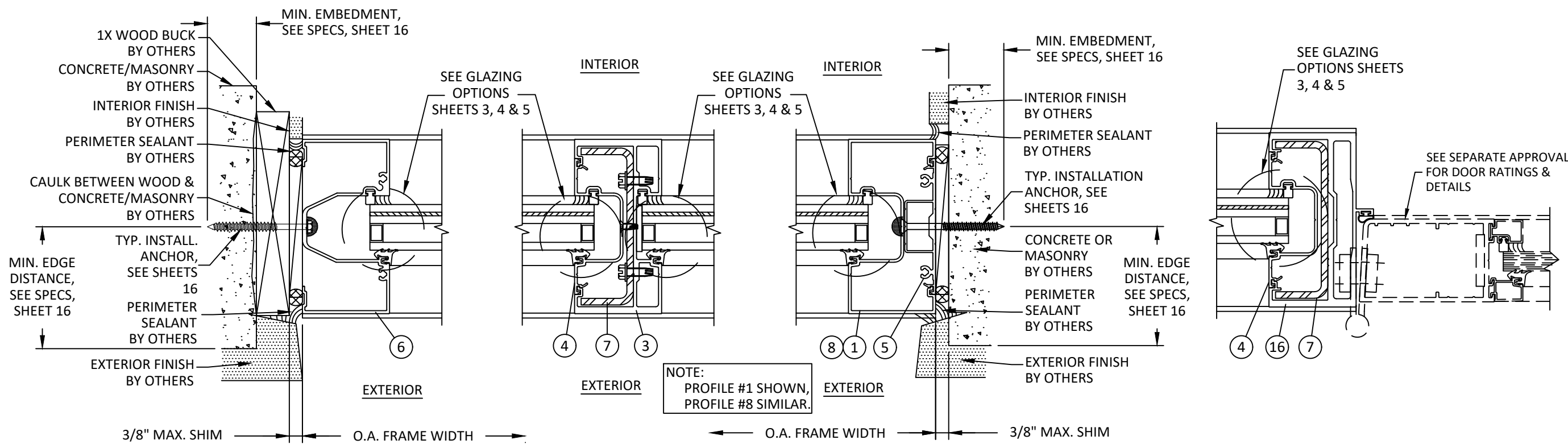
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SCALE: NTS

DWG. #: YKK164

SHEET:

19



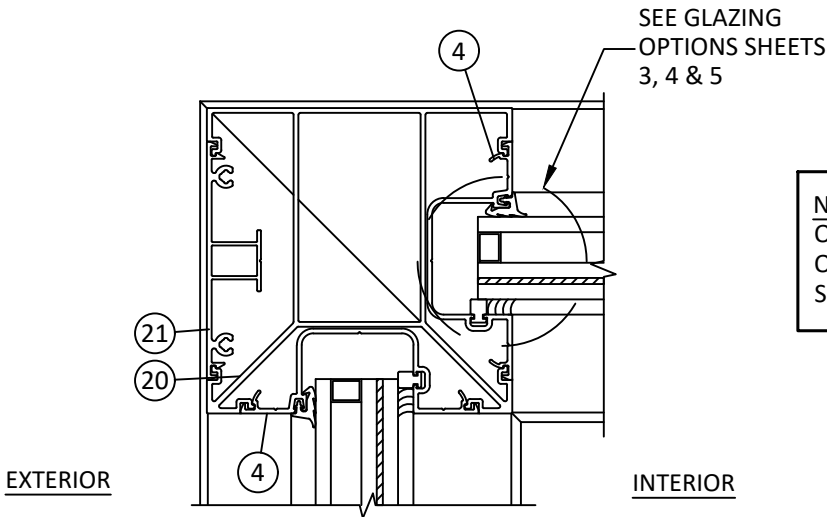
S **HORIZONTAL SECTION**
19 JAMB - CONCRETE/MASONRY W/ 1X BUCK HEAVY CONFIGURATION

T **HORIZONTAL SECTION**
19 VERTICAL MULLION HEAVY CONFIGURATION

U **HORIZONTAL SECTION**
19 JAMB - DIRECT TO CONCRETE/MASONRY HEAVY CONFIGURATION

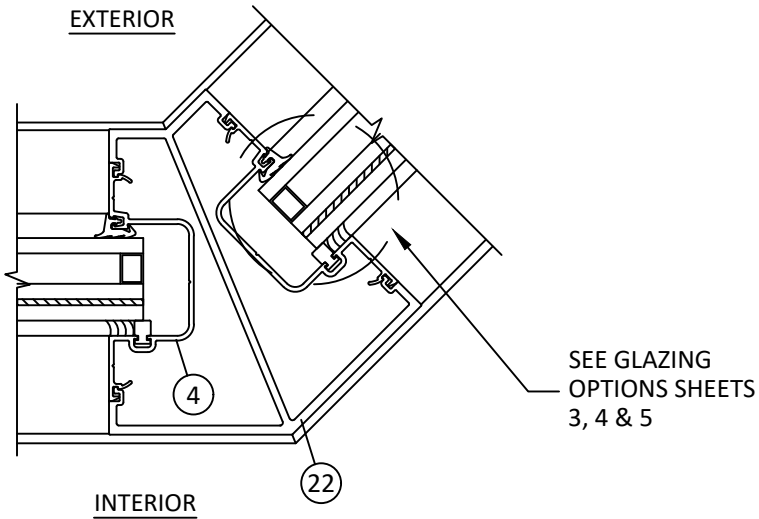
V **HORIZONTAL SECTION**
19 DOOR JAMB MULLION

c:\users\sebastianherrerros\building drops, inc\building drops, inc\building drops, inc\projects\ykk ap america, inc\fb-26-0123 - fl14218 yhs 50 tu pre-glazed storefront systems\dwgs\ykk164.dwg 2/10/2026 4:06 PM



W
20 **HORIZONTAL SECTION**
90 DEGREE CORNER MULLION

NOTE: CORNER MULLIONS MAY BE ORIENTED TO EXTERIOR (AS SHOWN ON 90° DETAIL) OR TO INTERIOR (AS SHOWN ON 135° DETAIL).



X
20 **HORIZONTAL SECTION**
135 DEGREE CORNER MULLION



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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
(WZ3) (IMPACT)

HORIZONTAL SECTIONS

PREPARED BY:



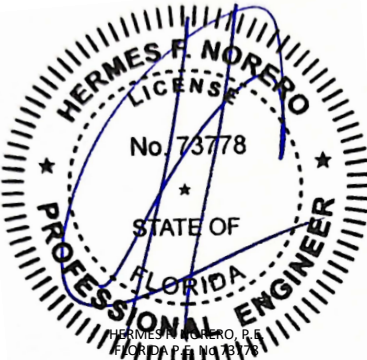
BUILDING DROPS

BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954) 399-8478
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HERMES F. NORERO, P.E.

BUILDING DROPS, INC.

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

FL #:

FL14218

DATE:

01.28.16

DWG. BY:

CHK. BY:

SM

HFN

SCALE:

NTS

DWG. #:

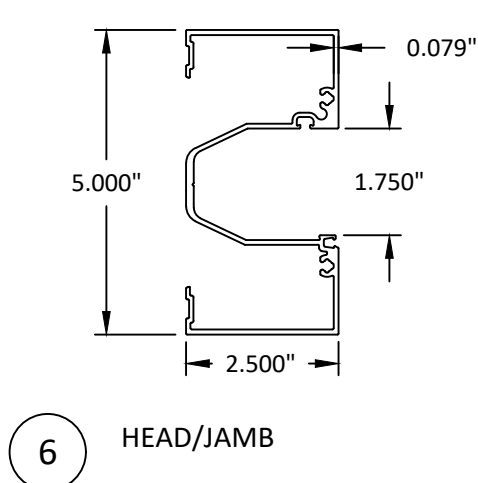
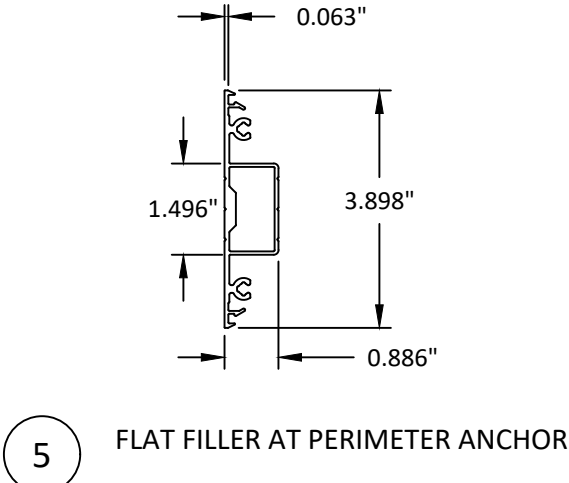
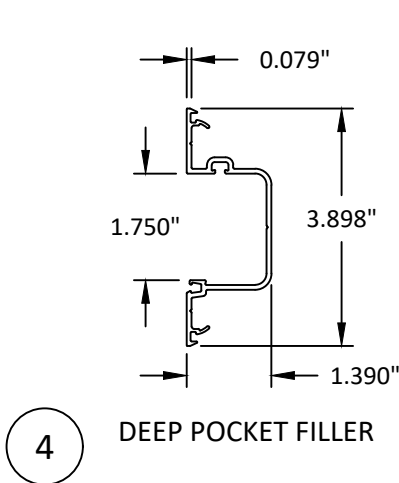
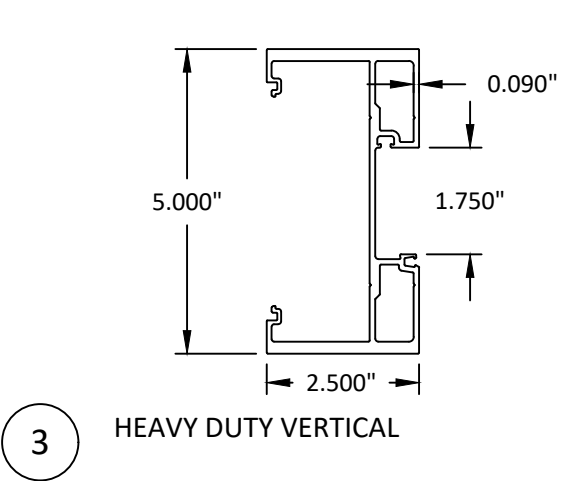
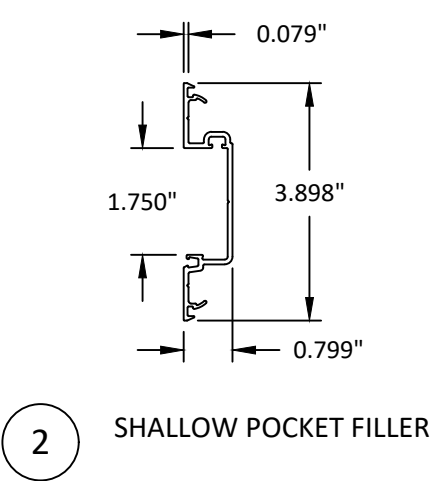
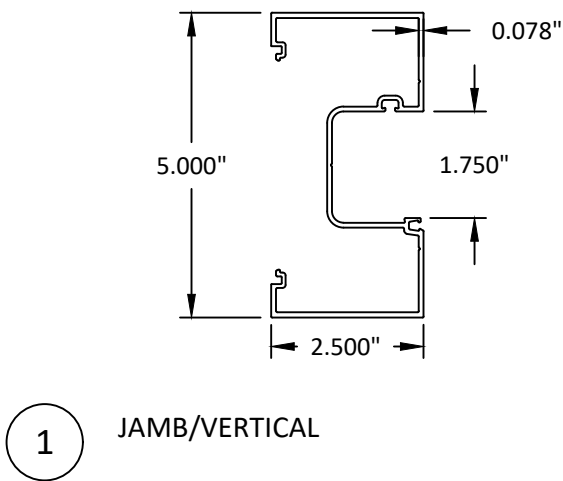
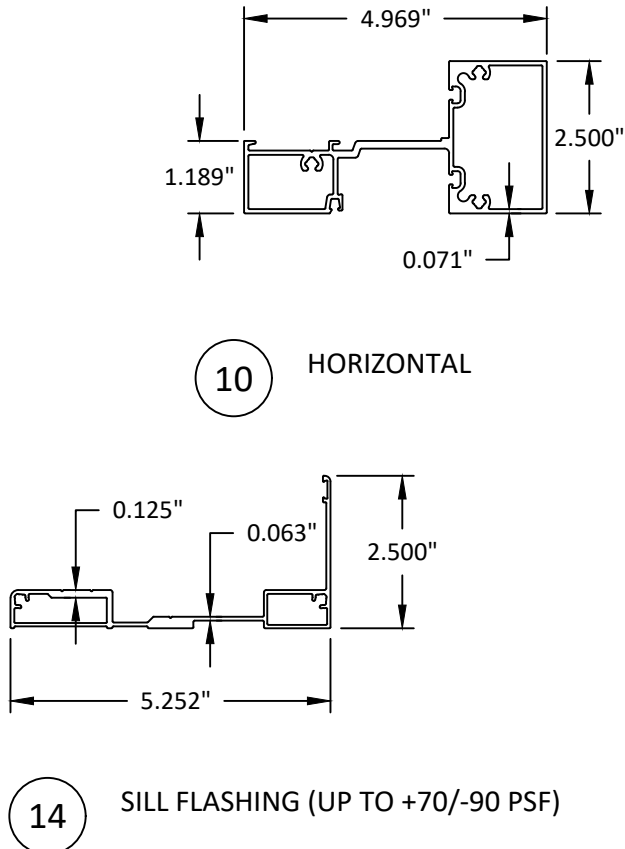
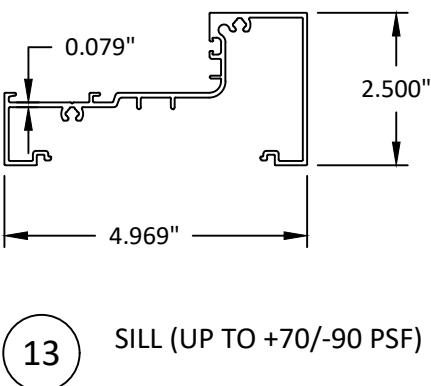
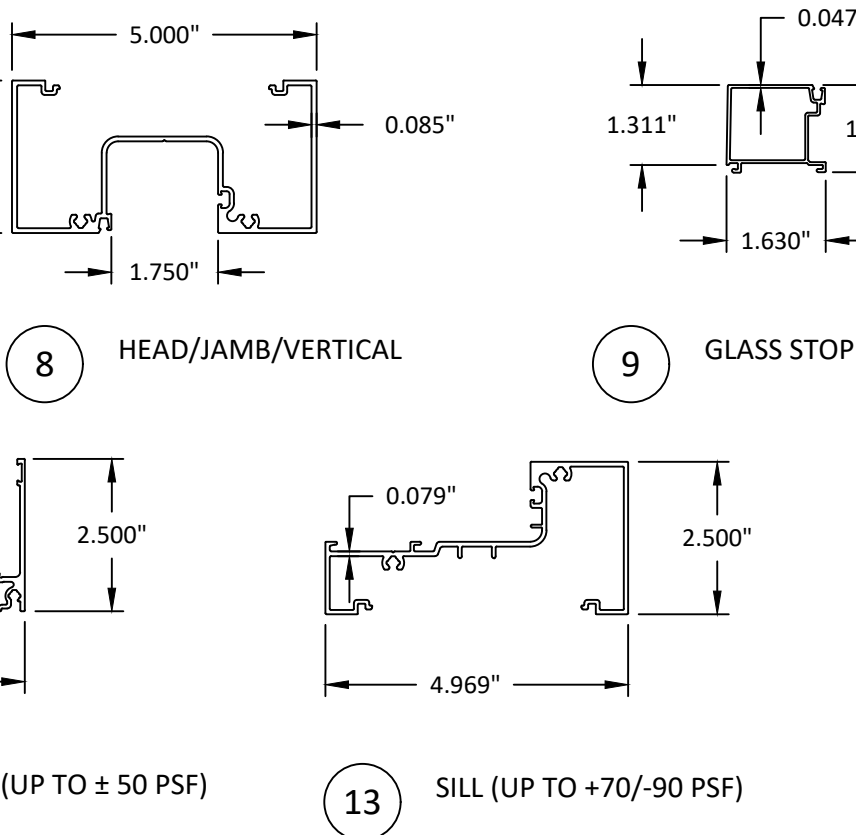
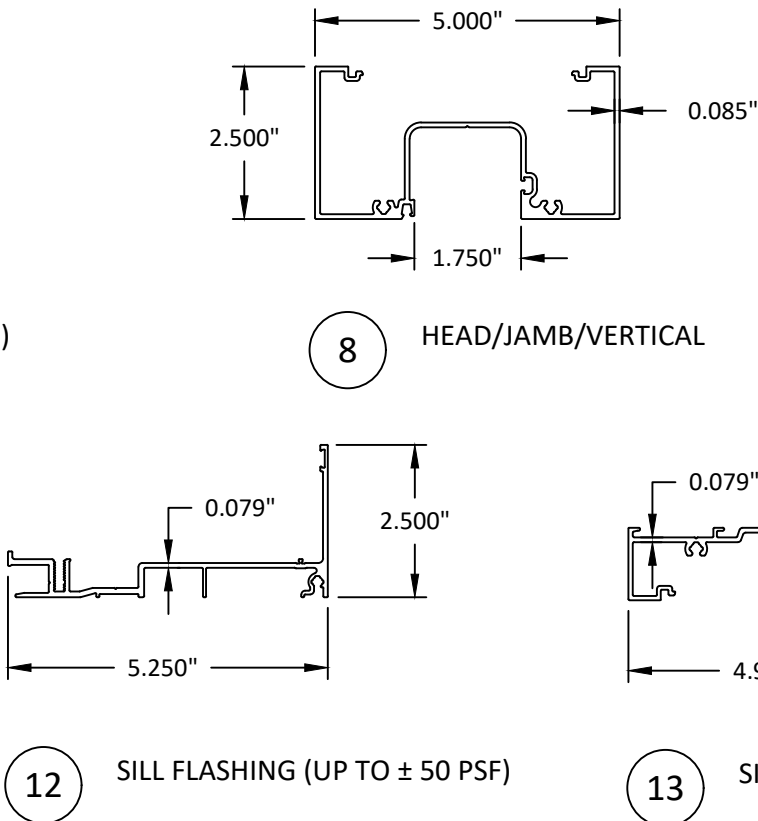
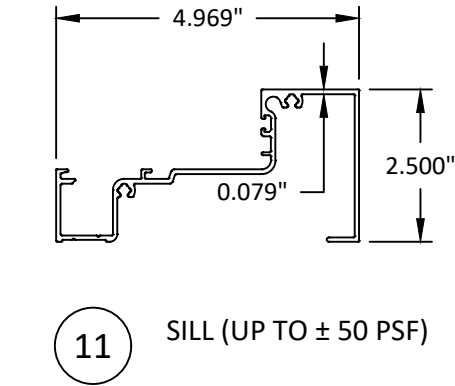
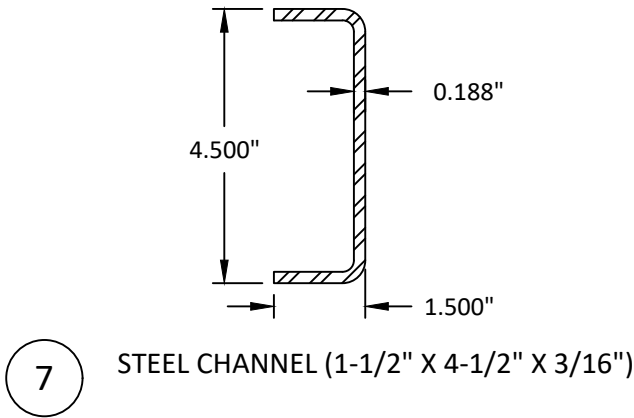
YKK164

SHEET:

20

[Page 22 of 24]

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 / VERTICAL	6063-T6
9	E9-0658	GLASS STOP	6063-T5
10	E9-0653	HORIZONTAL	6063-T5
11	E9-0664	SILL (UP TO ±50 PSF)	6063-T5
12	E9-0625	SILL FLASHING (UP TO ±50 PSF)	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
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
20	E9-0659	90° CORNER MULLION	6063-T5
21	E9-0657	CORNER MULLION FILLER	6063-T5
22	E9-0660	135° CORNER MULLION	6063-T5
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	K2-2441	WEATHERING GASKET	EPDM
29	E9-7331	5" HORIZONTAL	6063-T5
30	E9-7332	5" HORIZONTAL SNAP COVER	6063-T5





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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
(WZ3) (IMPACT)

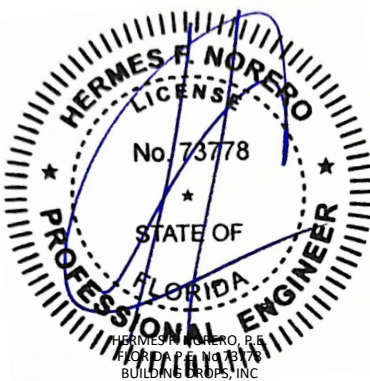
COMPONENTS & BILL OF MATERIALS

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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**BUILDING DROPS**

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

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

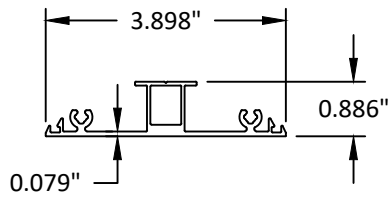
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DATE:	01.28.16
DWG. BY:	SM
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK164

SHEET:

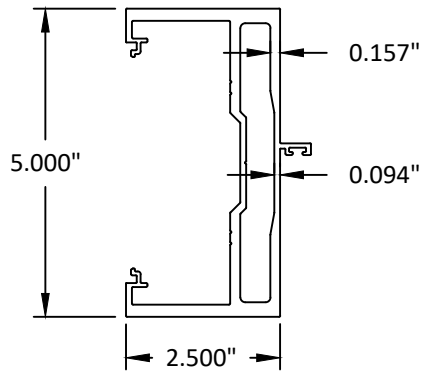
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[Page 23 of 24]

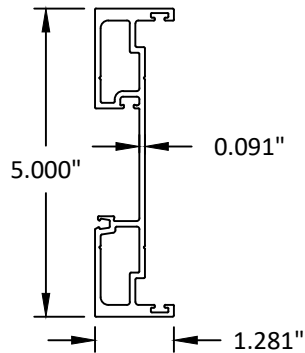
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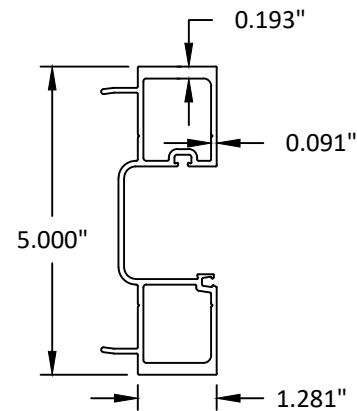
15 ANCHOR FILLER



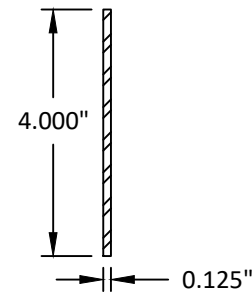
16 DOOR JAMB O/P



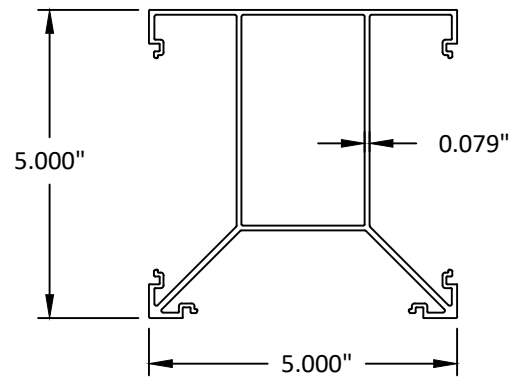
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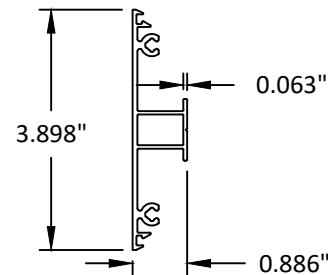
18 EXPANSION MULLION (MALE)



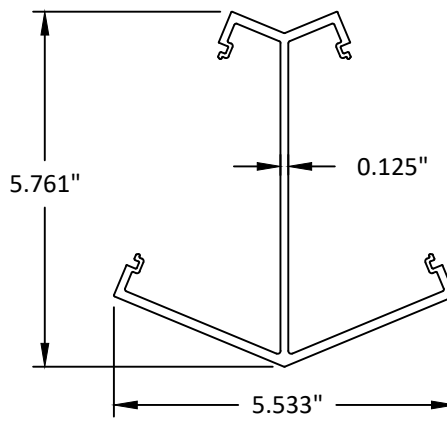
19 STEEL REINFORCEMENT BAR



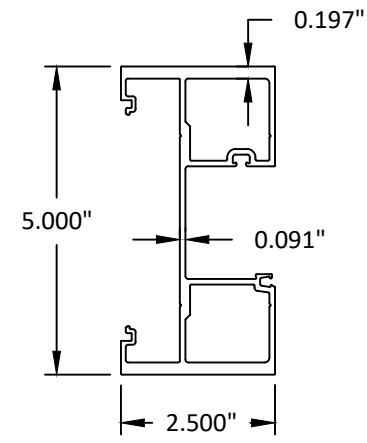
20 90 DEGREE CORNER MULLION



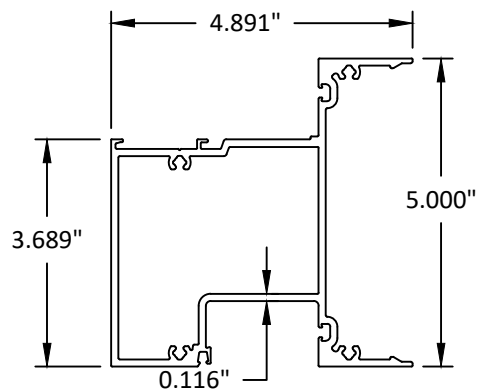
21 90 DEGREE CORNER MULLION FILLER



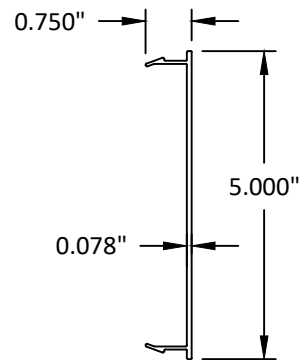
22 135 DEGREE CORNER MULLION



27 HEAVY DUTY MULLION



29 5" HORIZONTAL



29 5" HORIZONTAL SNAP COVER



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