

7/29/2026 8:38 AM

c:\users\sebastianhereros\desktop\ykk_2026 ca\114218\ykk159.dwg

YKK AP AMERICA, INC.

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

INSTALLATION NOTES:

1. SEE SHEET 15 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.

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 35, 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).

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), **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

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. SEE SHEETS 3, 4 & 5 FOR LMI AND SMI GLASS TYPES.

6. STOREFRONT FRAME MATERIAL: ALUMINUM 6063-T5

7. 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.

8. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEETS 3, 4 & 5 FOR GLAZING DETAILS.
- | TABLE OF CONTENTS | |
|-------------------|--|
| SHEET | SHEET DESCRIPTION |
| 1 | INSTALLATION & GENERAL NOTES |
| 2 | ELEVATION & ANCHOR LAYOUT |
| 3 | SMI GLAZING DETAILS |
| 4 | LMI GLAZING DETAILS |
| 5 | LMI GLAZING DETAILS |
| 6 | LIGHT MULLION TABLES |
| 7 | MEDIUM MULLION TABLES |
| 8 | HEAVY MULLION TABLES |
| 9 | EXPANSION MULLION TABLES |
| 10 | SMI HEAVY MULLION TABLES |
| 11 | TYPE A & B ANCHOR TABLES |
| 12 | TYPE C & D ANCHOR TABLES |
| 12A | TYPE E ANCHOR TABLES |
| 13 | DOOR MULLION TABLE |
| 14 | DOOR MULLION TABLES (1) |
| 15 | VERTICAL SECTIONS & ANCHOR DESCRIPTIONS |
| 16 | VERTICAL SECTIONS |
| 17 | LIGHT & MEDIUM MULLION HORIZONTAL SECTIONS |
| 18 | HEAVY MULLION HORIZONTAL SECTIONS |
| 19 | COMPONENTS & BILL OF MATERIALS |
| 20 | COMPONENTS |
- 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 FOR STORE FRONT MULLION AND SHEETS 13 & 14 FOR DOOR MULLION, THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.

4. USING CHART ON SHEET 11, 12, & 12A 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

Quality
inspires™

YKK AP AMERICA, INC.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (678) 838-6000
- TITLE:
YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(HVHZ) (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

BD

BUILDING DROPS

REMARKS	BY	DATE
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
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 11:14:19 -04'00'

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:

CHK. BY:

SM

HFN

SCALE:

NTS

DWG. #:

YKK159

SHEET:

REV.

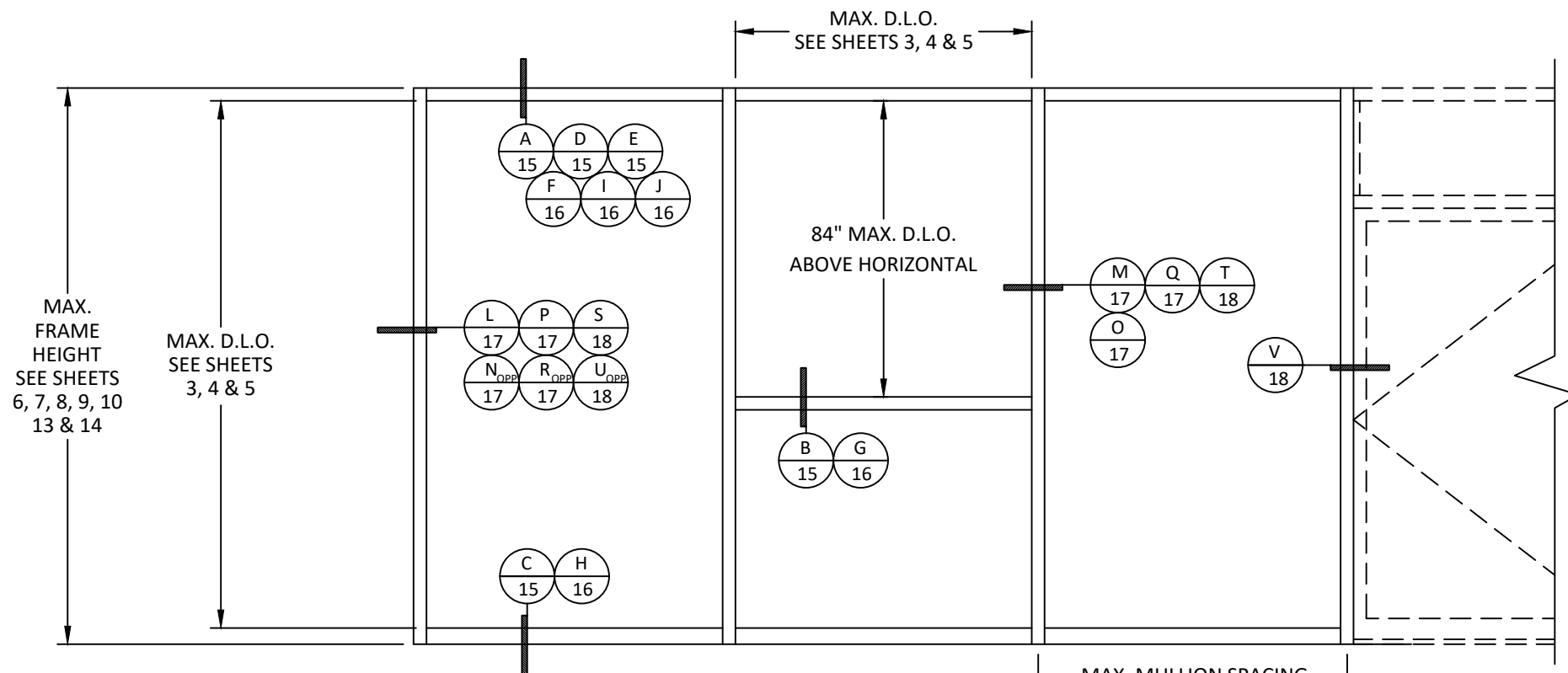
1

D

[Page 1 of 21]

7/29/2026 8:38 AM

c:\users\sebastianhereros\desktop\ykk 2026 ca\114218\ykk159.dwg

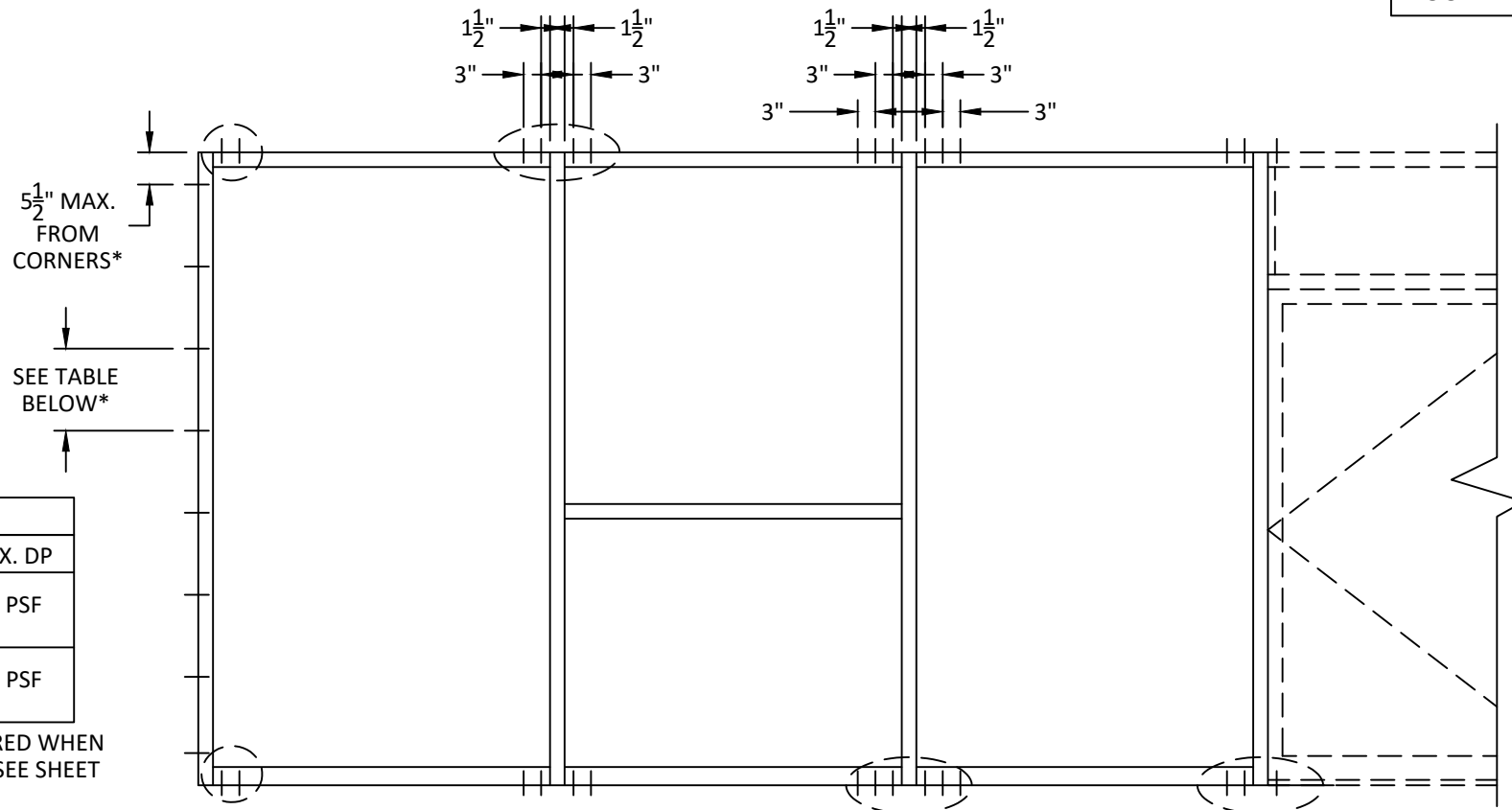


ELEVATION
TYPICAL YHS 50 FI STOREFRONT

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

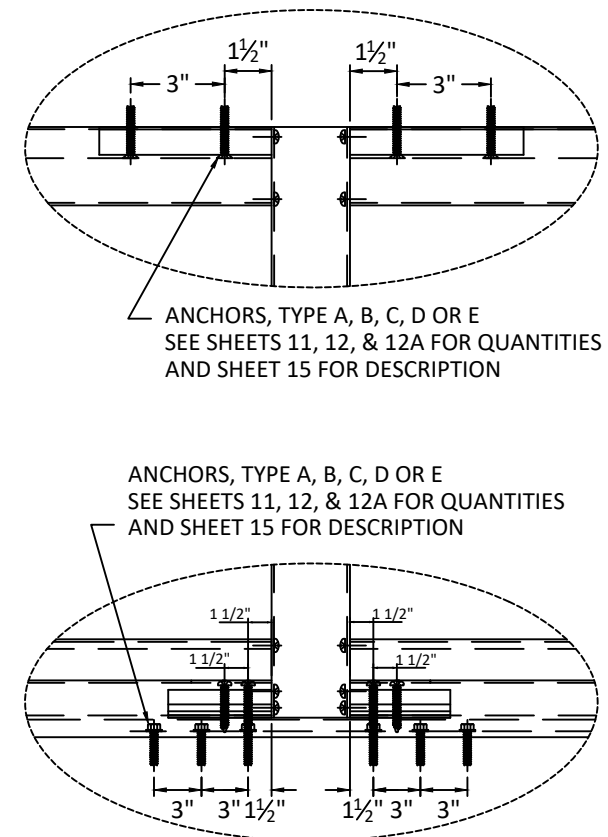
JAMB ANCHOR SPACING*		
ANCHOR TYPE	MAX. SPACING	MAX. DP
A OR B	18.75"	65 PSF
C, E OR D	13"	
A OR B	13.5"	90 PSF
C, E OR D	9.375"	

*NOTE: JAMB ANCHORS ARE ONLY REQUIRED WHEN USING "HEAVY" JAMB CONFIGURATIONS, SEE SHEET 18 FOR HEAVY JAMB DETAILS



TYPICAL ANCHOR LAYOUT

FOR DOOR ADJACENT
MULLION ANCHOR
REQUIREMENTS SEE
SHEETS 13 & 14



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

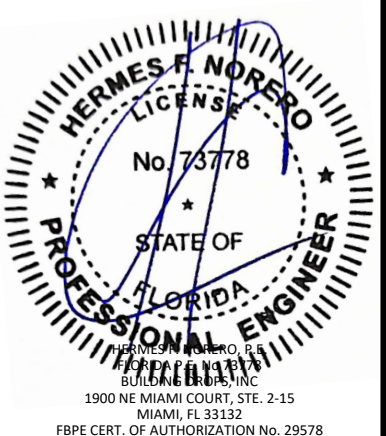
TITLE: YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(HVHZ) (IMPACT)
ELEVATION &
ANCHOR LAYOUT

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
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
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.



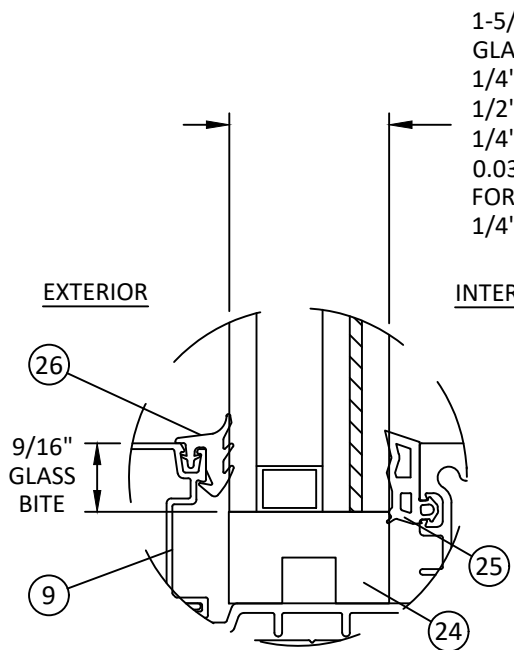
FL #:	FL14218	
DATE:	11.18.15	
DWG. BY:	SM	CHK. BY: HFN
SCALE:	NTS	
DWG. #:	YKK159	
SHEET:	2	REV. D

c:\users\sebastianhereros\desktop\ykk 2026 ca\114218\ykk159.dwg 7/29/2026 8:38 AM

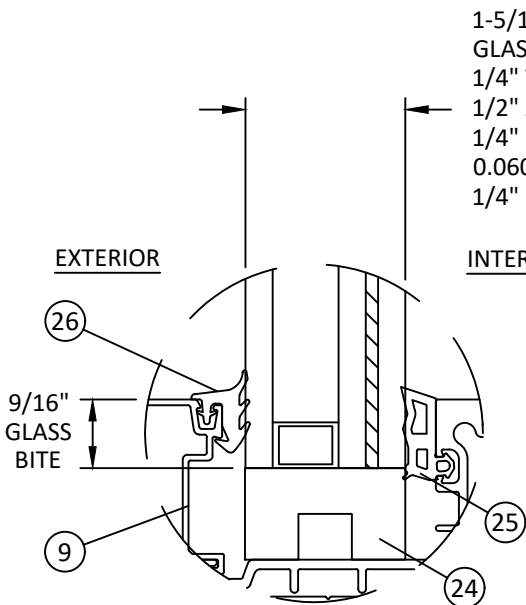
GLASS TYPES
SMALL MISSILE IMPACT ONLY

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	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	108.375	63.4	81.5	51.7
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	114.375	70.0	90.0	70.0
57.5		70.0	90.0	57.1
60.5		66.5	85.5	54.3
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	120.375	70.0	90.0	70.0
51.5		70.0	90.0	70.0
57.5		70.0	90.0	57.1
63.5		70.0	90.0	70.0
69.5		70.0	90.0	70.0
27.5		70.0	90.0	70.0
33.5	126.375	70.0	90.0	70.0
36.5		70.0	90.0	70.0
27.5		70.0	90.0	70.0
33.5		70.0	90.0	70.0
36.5		70.0	90.0	70.0
27.5		70.0	90.0	70.0
33.5	132.375	70.0	90.0	70.0
34.5		70.0	90.0	70.0
27.5		70.0	90.0	70.0
33.5		70.0	90.0	70.0
36.5		70.0	90.0	70.0
27.5		70.0	90.0	70.0
33.5	138.375	70.0	90.0	70.0
34.5		70.0	90.0	70.0
27.5		70.0	90.0	70.0
33.5		70.0	90.0	70.0
36.5		70.0	90.0	70.0
27.5		70.0	90.0	70.0

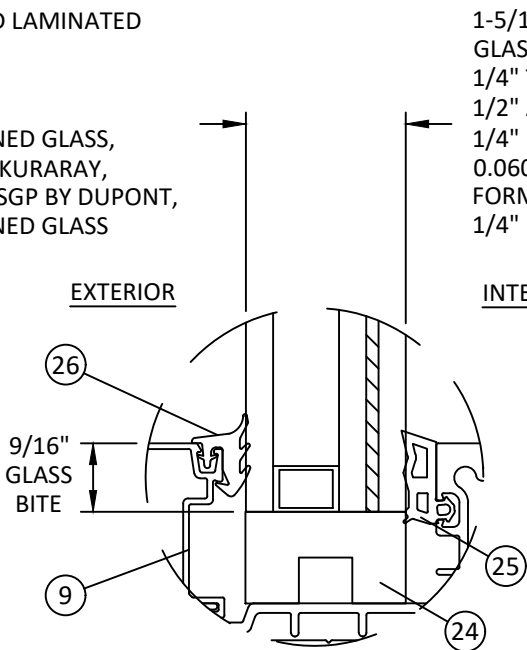
GLASS LOAD CAPACITY (PSF)				
DAYLIGHT OPENING (IN)		GLASS TYPES I OR J		GLASS TYPE K
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	INT. (-)	EXT. (+) INT. (-)
27.5	54.375	70.0	90.0	70.0
33.5		70.0	90.0	70.0
39.5		70.0	90.0	70.0
45.5		70.0	90.0	70.0
51.5		70.0	90.0	70.0
57.5		70.0	90.0	70.0
63.5	60.375	70.0	90.0	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		63.4	81.5	63.4
69.5		60.6	78.0	60.6
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		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	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	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	108.375	63.4	81.5	51.7
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	114.375	70.0	90.0	70.0
57.5		70.0	90.0	57.1
60.5		66.5	85.5	54.3
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	120.375	70.0	90.0	70.0
51.5		70.0	90.0	70.0
57.5		70.0	90.0	57.1
63.5		70.0	90.0	70.0
69.5		70.0	90.0	70.0
27.5		70.0	90.0	70.0
33.5	126.375	70.0	90.0	70.0
36.5		70.0	90.0	70.0
27.5		70.0	90.0	70.0
33.5		70.0	90.0	70.0
36.5		70.0	90.0	70.0
27.5		70.0	90.0	70.0
33.5	132.375	70.0	90.0	70.0
34.5		70.0	90.0	70.0
27.5		70.0	90.0	70.0
33.5		70.0	90.0	70.0
36.5		70.0	90.0	70.0
27.5		70.0	90.0	70.0
33.5	138.375	70.0	90.0	70.0
34.5		70.0	90.0	70.0
27.5		70.0	90.0	70.0
33.5		70.0	90.0	70.0
36.5		70.0	90.0	70.0
27.5		70.0	90.0	70.0



GLAZING DETAIL I
(DRY GLAZED)



GLAZING DETAIL K
(DRY GLAZED)

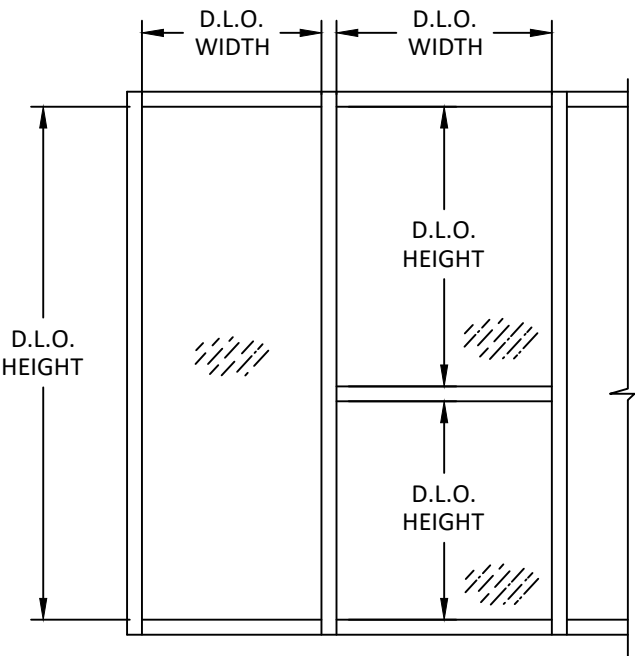


GLAZING DETAIL J
(DRY GLAZED)

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"

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

TITLE: YHS 50 FI ALUMINUM STOREFRONT SYSTEM - OUTSIDE GLAZED (HVHZ) (IMPACT)
SMI 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
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
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

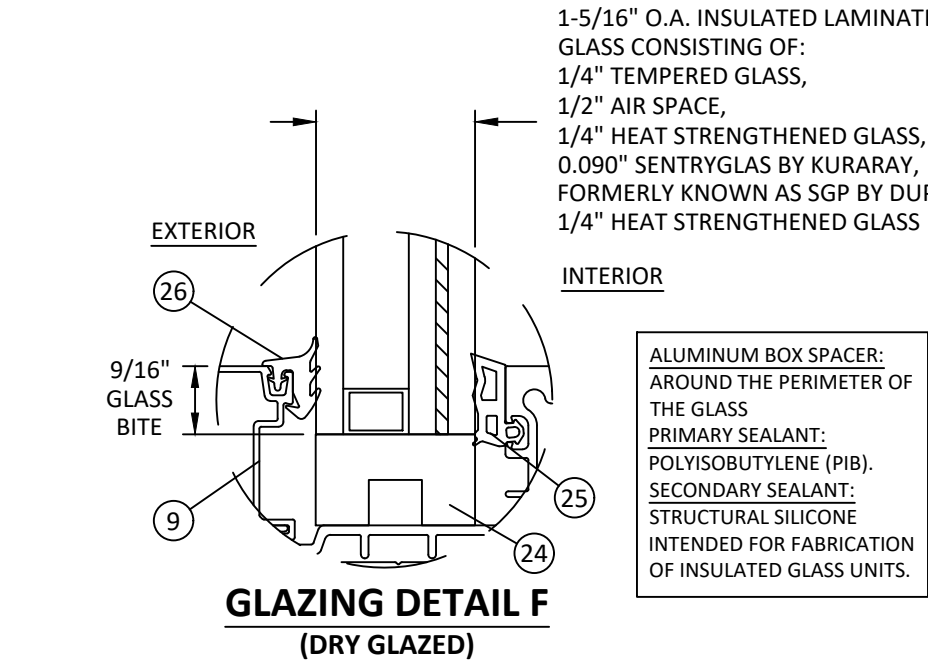
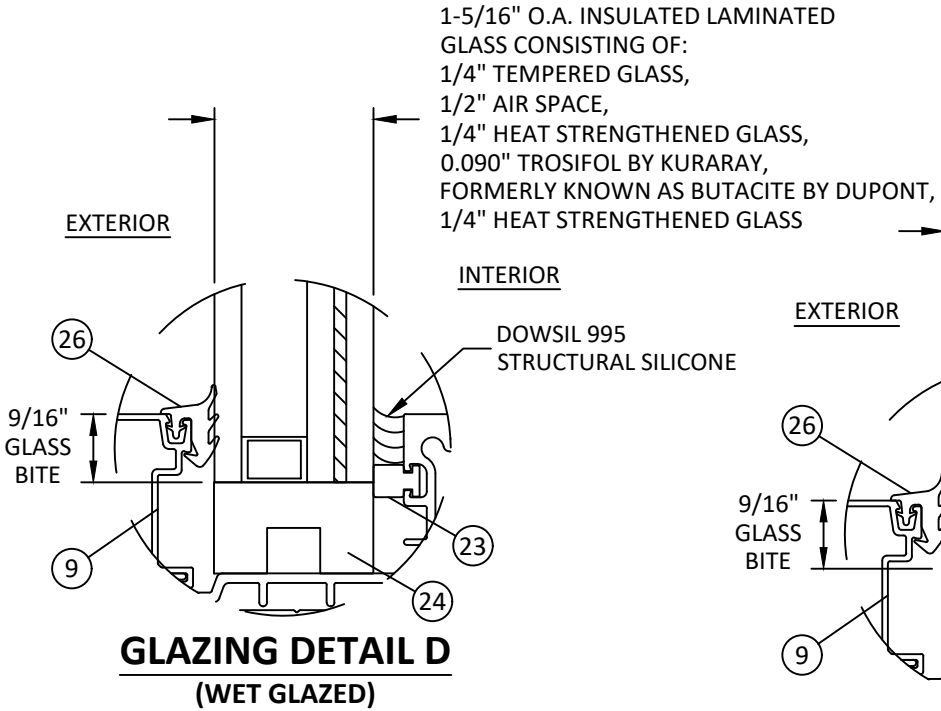
FL #: **FL14218**
DATE: **11.18.15**
DWG. BY: **SM** CHK. BY: **HFN**
SCALE: **NTS**
DWG. #: **YKK159**
SHEET: **3** REV. **D**

c:\users\sebastianhereros\desktop\ykk 2026 ca\114218\ykk159.dwg 7/29/2026 8:38 AM

GLASS TYPES
LARGE & SMALL MISSILE IMPACT

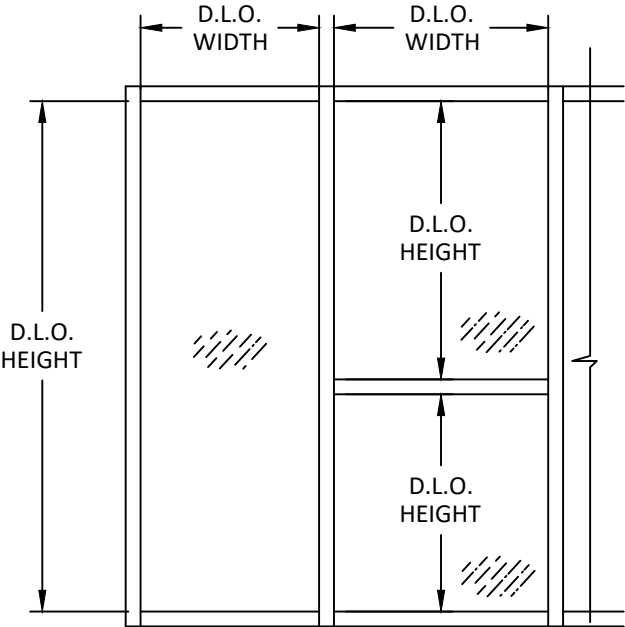
GLASS LOAD CAPACITY (PSF)					
DAYLIGHT OPENING (IN)		GLASS TYPES D, E OR I	GLASS TYPE F		GLASS TYPES G OR H
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	EXT. (+)	INT. (-)	EXT. (+) INT. (-)
27.5	54.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	90.0	70.0
45.5		50.0	70.0	88.5	70.0
51.5		44.2	70.0	78.2	70.0
57.5		41.8	70.0	74.0	70.0
63.5	60.375	41.8	70.0	74.0	70.0
69.5		50.0	70.0	90.0	70.0
27.5		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	66.375	44.2	70.0	78.2	70.0
57.5		39.6	70.0	70.0	70.0
63.5		37.7	66.7	66.7	66.7
69.5		37.7	66.7	66.7	66.7
27.5		50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5	72.375	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		35.8	63.4	63.4	63.4
69.5		-	57.9	57.9	57.9
27.5	78.375	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		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		-	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 I	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		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	102.375	-	70.0	76.7	70.0
57.5		-	70.0	70.0	70.0
63.5		-	58.9	58.9	-
66.5		-	56.2	56.2	-
27.5		50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5	108.375	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		-	58.9	58.9	-
69.5		50.0	70.0	90.0	70.0
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	89.6	70.0
45.5		-	70.0	80.5	70.0
51.5		-	70.0	73.7	70.0
57.5		-	65.0	65.0	-
60.5	120.375	-	61.8	61.8	-
27.5		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		-	65.0	65.0	-
57.5	126.375	-	65.0	65.0	-
27.5		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		50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
34.5	132.375	50.0	70.0	90.0	70.0
27.5		50.0	70.0	90.0	70.0
27.5		50.0	70.0	90.0	70.0
33.5		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



- 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.

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 DETAILS CONTINUED ON NEXT PAGE

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



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

TITLE:
YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(HVHZ) (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
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
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. #: YKK159

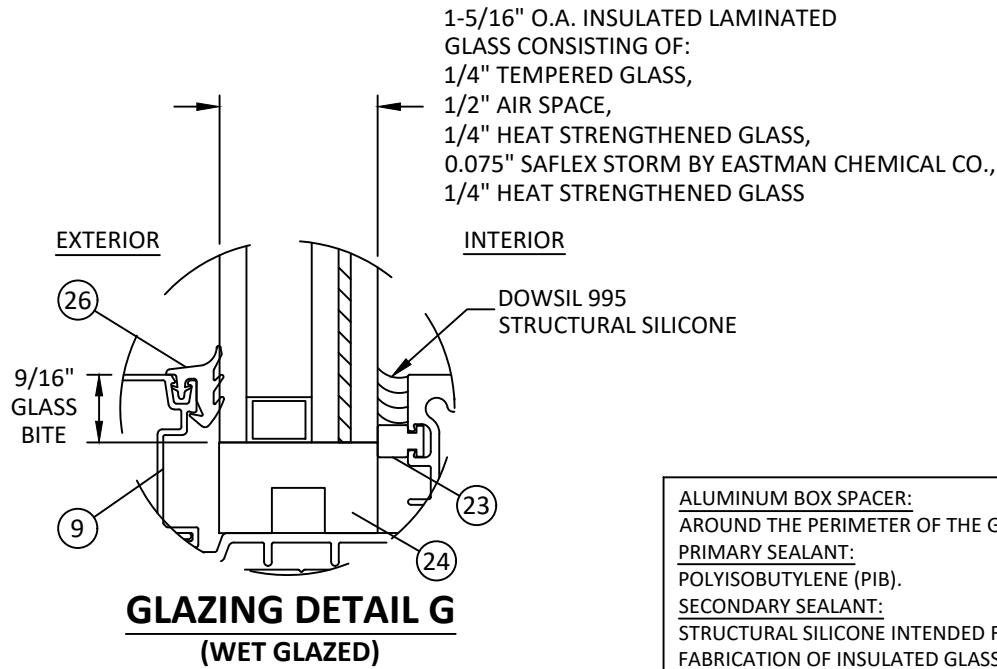
SHEET:

4

REV.

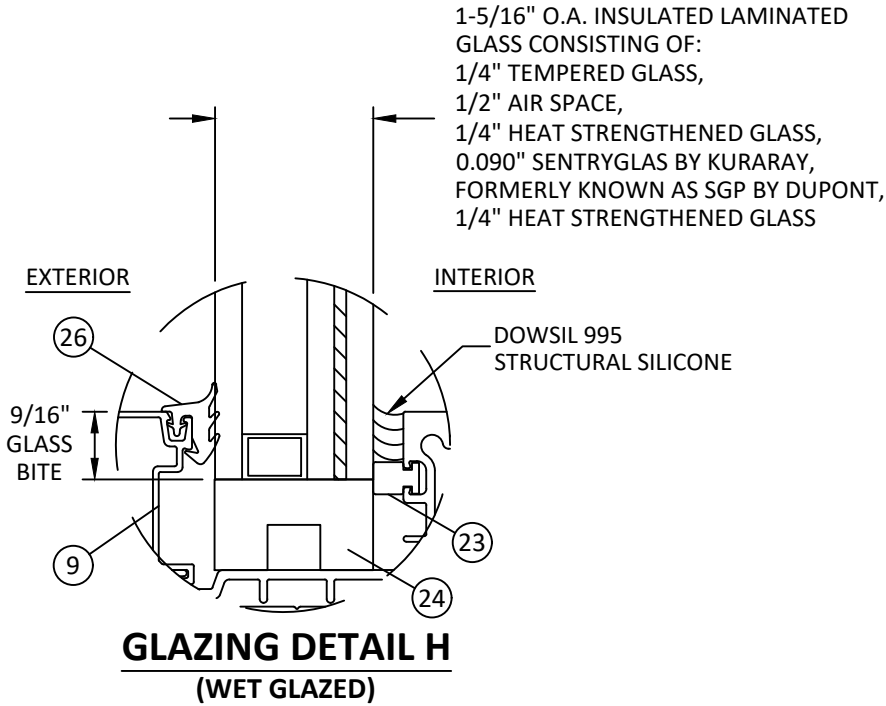
D

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:
- 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 Quality inspires™

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

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

LMI GLAZING DETAILS

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15

MIAMI, FL 33132

PH: (954) 399-8478

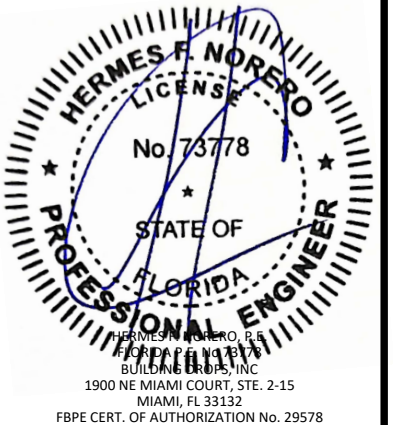
FAX: (954) 744-4738

WEB: www.buildingdrops.com



REMARKS	BY	DATE
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
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. #: **YKK159**

SHEET:

5

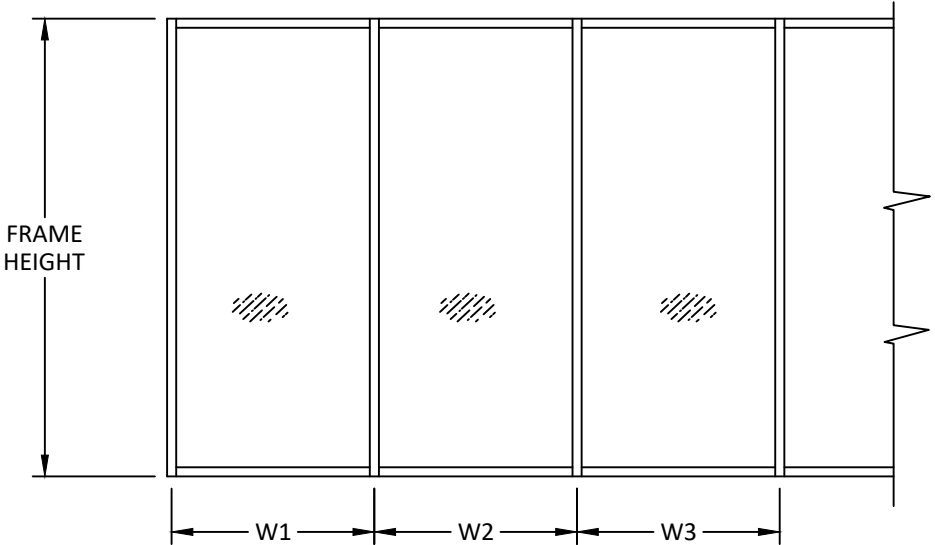
REV. **D**

c:\users\sebastianherrerros\desktop\Ykk 2026 ca\114218\Ykk159.dwg 7/29/2026 8:38 AM

MULLION LOAD TABLES
LIGHT CONFIGURATION

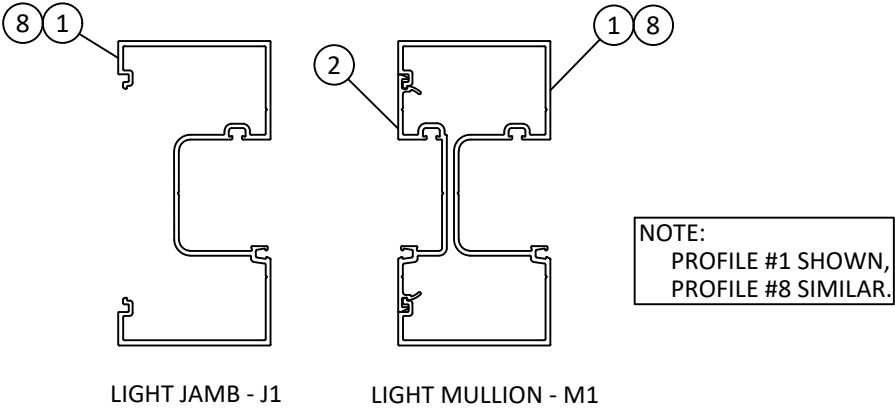
DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS. (IN)		LIGHT JAMB - J1	LIGHT MULLION - M1
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	72	50.0	50.0
33		50.0	50.0
36		50.0	50.0
39		50.0	50.0
42		50.0	50.0
45		50.0	50.0
48		50.0	50.0
51		50.0	50.0
54		50.0	50.0
57		50.0	50.0
60		50.0	50.0
63		50.0	50.0
66		50.0	50.0
69		50.0	50.0
72		50.0	50.0
30	78	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		50.0	50.0
30	84	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. (IN)		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	96	50.0	50.0
54		50.0	48.4
57		50.0	45.9
30	102	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	108	50.0	47.9
51		50.0	45.1
54		50.0	42.6
30	114	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	120	50.0	42.4
51		50.0	40.7
30	126	50.0	50.0
33		50.0	50.0
36		50.0	50.0
39		50.0	50.0
42		50.0	46.6
45		50.0	43.2
48		50.0	40.3
51	132	50.0	37.8



WIDTH (W) = W1 (JAMB)

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



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
(HVHZ) (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
WEB: www.buildingdrops.com



REMARKS	BY	DATE
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
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. #: YKK159

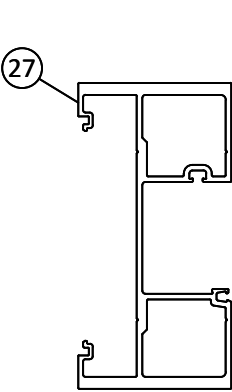
SHEET: 6
REV. D

c:\users\sebastianherrerros\desktop\Ykk 2026 ca\114218\Ykk159.dwg 7/29/2026 8:38 AM

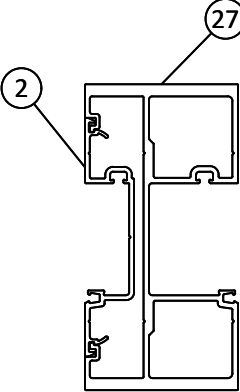
MULLION LOAD TABLES
MEDIUM CONFIGURATION

DESIGN LOAD CAPACITY - PSF				
NOMINAL DIMS. (IN)		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	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	72	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	78	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

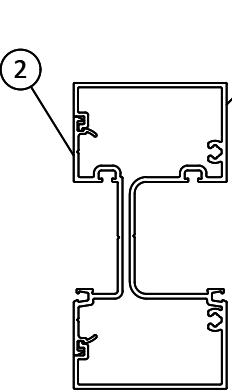
DESIGN LOAD CAPACITY - PSF				
NOMINAL DIMS. (IN)		MEDIUM JAMB - J2	MEDIUM JAMB - J3	MEDIUM MULLION - M2
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	84	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	70.0
54		70.0	70.0	70.0
60		70.0	70.0	70.0
66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



MEDIUM JAMB - J2



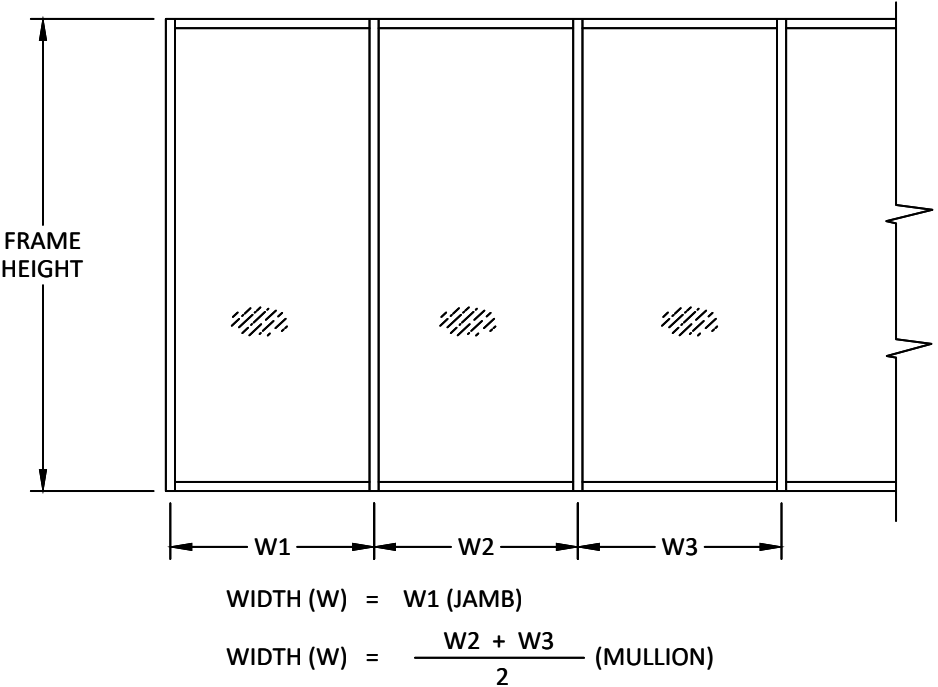
MEDIUM MULLION - M2



MEDIUM JAMB - J3

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

MEDIUM CONFIGURATION



WIDTH (W) = W1 (JAMB)

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

YKK
ap

Quality
inspires™

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

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

BUILDING DROPS

REMARKS	BY	DATE
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
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. #: **YKK159**

SHEET:
7

REV.
D

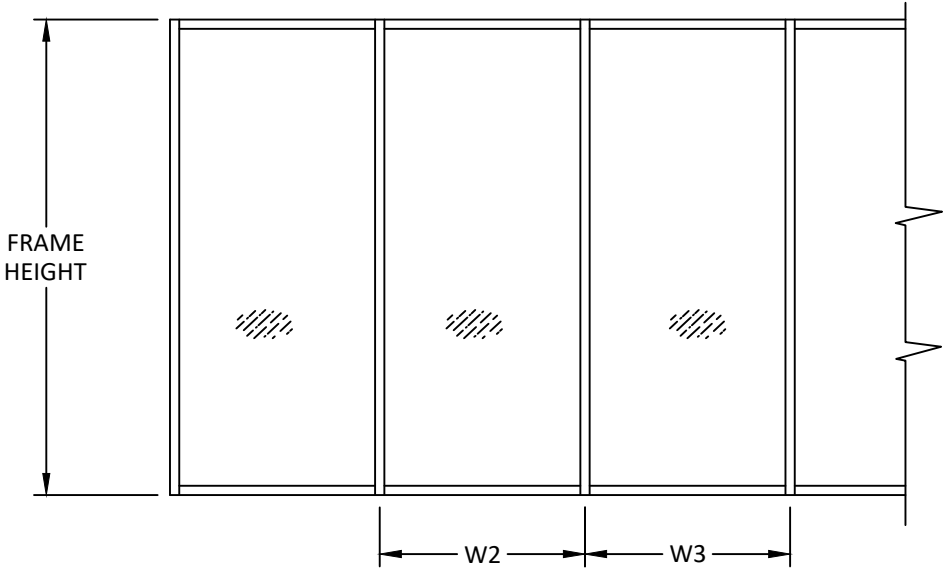
c:\users\sebastianherrerros\desktop\ykk 2026 ca\114218\ykk159.dwg 7/29/2026 8:38 AM

MULLION LOAD TABLES

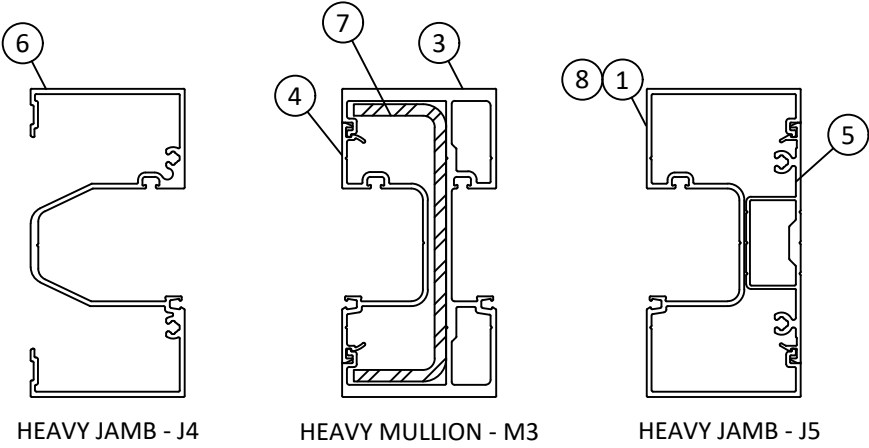
HEAVY CONFIGURATION

DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS. (IN)		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
60	120	70.0	90.0
41	126	65.0	65.0
39	132	65.0	65.0
37	138	65.0	65.0
36	144	65.0	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 #8 SIMILAR.



Quality
inspires™

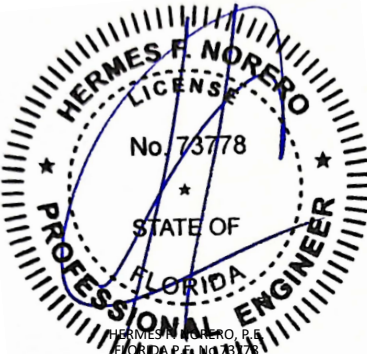
YKK AP AMERICA, INC.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (678) 838-6000

TITLE:
YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(HVHZ) (IMPACT)
HEAVY 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	BY	DATE
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
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. #: **YKK159**

SHEET:
8

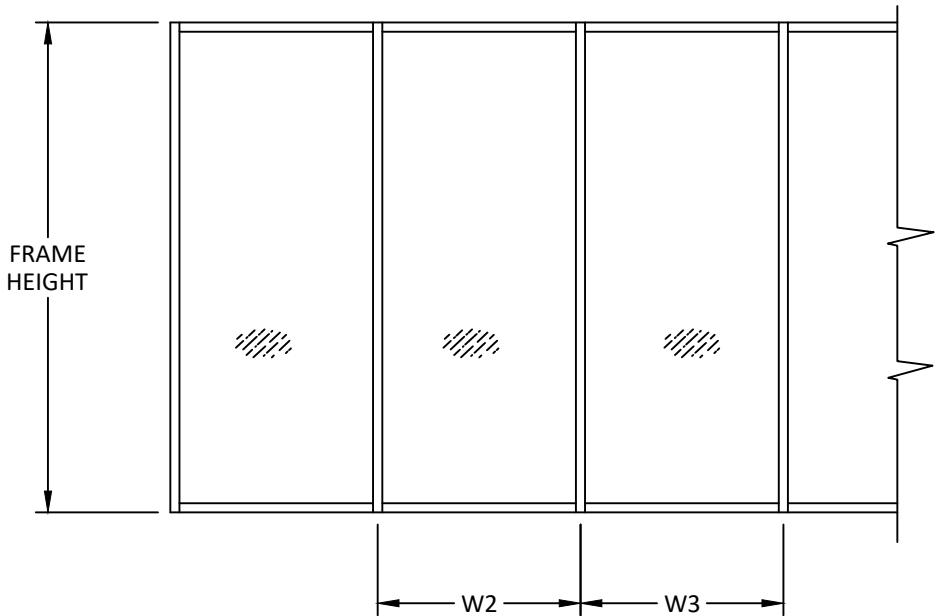
REV.
D

[Page 8 of 21]

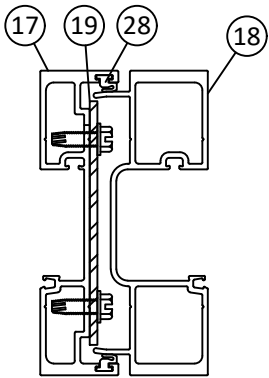
c:\users\sebastianherrereros\desktop\ykk 2026 ca\114218\ykk159.dwg 7/29/2026 8:38 AM

MULLION LOAD TABLES
EXPANSION MULLION

DESIGN LOAD CAPACITY - PSF			DESIGN LOAD CAPACITY - PSF			DESIGN LOAD CAPACITY - PSF		
NOMINAL DIMS. (IN)		EXPANSION MULLION	NOMINAL DIMS. (IN)		EXPANSION MULLION	NOMINAL DIMS. (IN)		EXPANSION MULLION
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)
30	72	65.0	30	90	65.0	30	108	65.0
33		65.0	33		65.0	33		65.0
36		65.0	36		65.0	36		65.0
39		65.0	39		65.0	39		61.7
42		65.0	42		65.0	42		57.3
45		65.0	45		65.0	45		53.5
48		65.0	48		65.0	48		50.2
51		65.0	51		65.0	51		47.2
54		65.0	54		64.2	54		44.6
57		65.0	57		60.8	57		42.2
60		65.0	60		57.8	60		40.1
63		65.0	63		55.0	63		38.2
66	78	65.0	66	96	52.5	66	114	36.5
69		65.0	69		50.2	69		65.0
72		65.0	72		48.1	72		65.0
30		65.0	30	102	65.0	30		60.0
33		65.0	33		65.0	33		55.4
36		65.0	36		65.0	36		51.4
39		65.0	39		65.0	39		48.0
42		65.0	42		65.0	42		45.0
45		65.0	45		65.0	45		42.4
48		65.0	48		63.5	48		40.0
51		65.0	51		59.7	51		37.9
54		65.0	54		56.4	54	120	36.0
57		65.0	57		53.5	57		34.3
60		65.0	60		50.8	60		65.0
63	84	65.0	63		48.4	63		59.1
66		65.0	66		46.2	66		54.2
69		65.0	69		44.2	69		50.0
72		64.1	72		42.3	72		46.4
30		65.0	30	102	65.0	30		43.3
33		65.0	33		65.0	33		40.6
36		65.0	36		65.0	36		38.2
39		65.0	39		65.0	39		36.1
42		65.0	42		64.3	42		34.2
45		65.0	45		60.0	45	126	32.5
48		65.0	48		56.2	48		59.0
51		65.0	51		52.9	51		53.6
54		65.0	54		50.0	54		49.1
57		65.0	57		47.3	57		45.4
60		65.0	60		45.0	60		43.1
63	84	63.2	63		42.8	63	132	53.7
66		60.3	66		40.9	66		48.8
69		57.7	69		39.1	69		44.8
72		55.3				72		41.3
						75		49.1
						78		44.7
						81	138	39.8
						84		45.1
						87		41.0
						90		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.



Quality
inspires™

YKK AP AMERICA, INC.

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

TITLE:
YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(HVHZ) (IMPACT)
EXPANSION 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	BY	DATE
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
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:	CHK. BY:
SM	HFN
SCALE:	NTS
DWG. #:	YKK159
SHEET:	REV.
9	D

[Page 9 of 21]

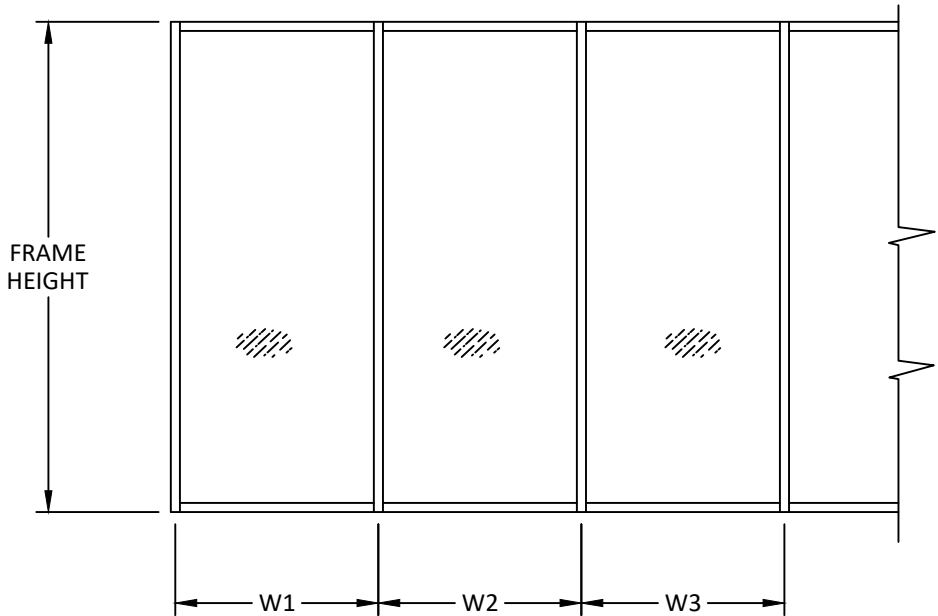
c:\users\sebastianherrerros\desktop\ykk 2026 ca\114218\ykk-159.dwg 7/29/2026 8:38 AM

SMI MULLION LOAD TABLES

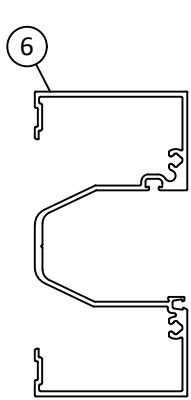
HEAVY CONFIGURATION FOR USE IN SMALL MISSILE IMPACT APPLICATIONS ONLY

DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS. (IN)		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

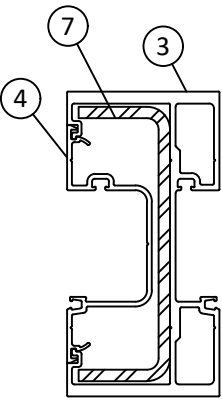
NOTE: HEAVY CONFIGURATION JAMBS ARE ANCHORED ALONG THEIR LENGTH AND THEREFORE DO NOT LIMIT DESIGN PRESSURE.



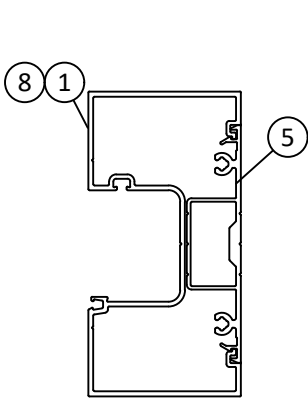
$$\text{WIDTH (W)} = \frac{W2 + W3}{2} \text{ (MULLION)}$$



HEAVY JAMB - J4



HEAVY MULLION - M3



HEAVY JAMB - J5

NOTE:
PROFILE #1 SHOWN,
PROFILE #8 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.



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

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

SMI ONLY
HEAVY 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	BY	DATE
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
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. #: **YKK159**

SHEET:

10

REV.

D

7/29/2026 8:38 AM

c:\users\sebastianherrerros\desktop\ykk 2026 ca\114218\ykk159.dwg

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

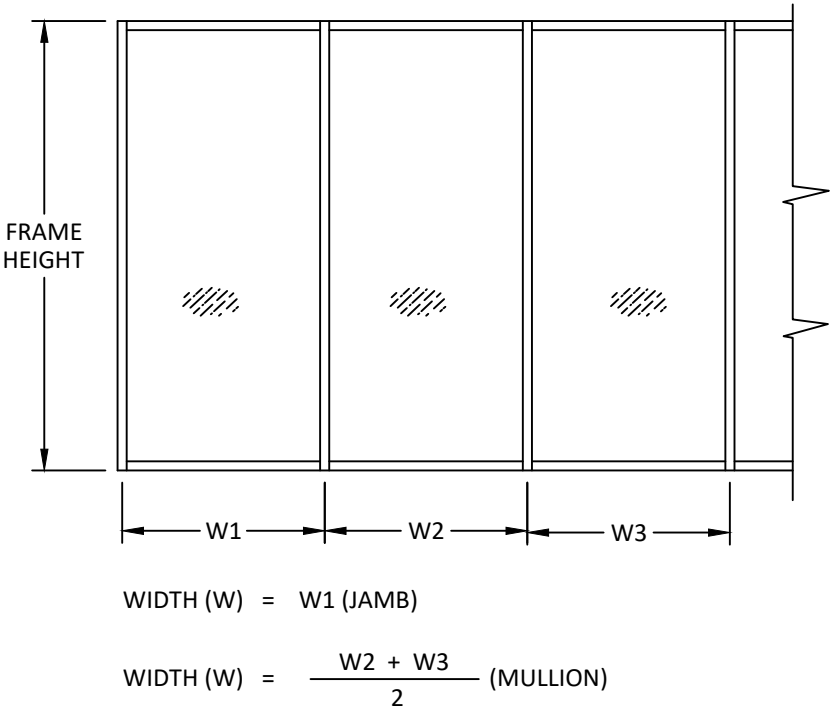
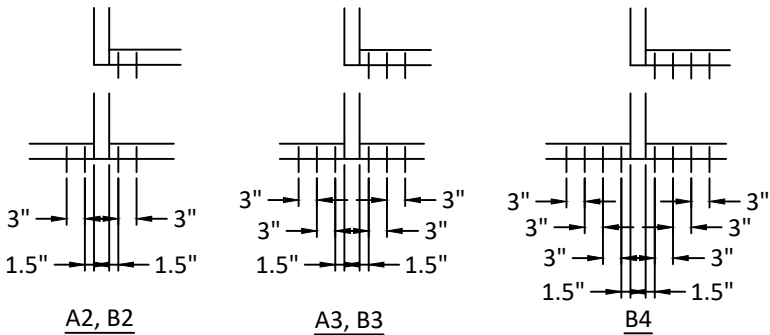
ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT (-)					
NOMINAL DIMS. (IN)		ANCHOR TYPE 'A'		ANCHOR TYPE 'B'	
WIDTH (W)	FRAME HEIGHT	A2	A3	B2	B3
30	90	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0
45		90.0	90.0	90.0	90.0
48		90.0	90.0	90.0	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



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

TITLE: YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(HVHZ) (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
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
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. #: YKK159

SHEET:

11

REV.

D

7/29/2026 8:38 AM

c:\users\sebastianhereros\desktop\ykk 2026 ca\114218\ykk159.dwg

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	

7/29/2026 8:38 AM

ANCHOR TYPE 'E' TABLES

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

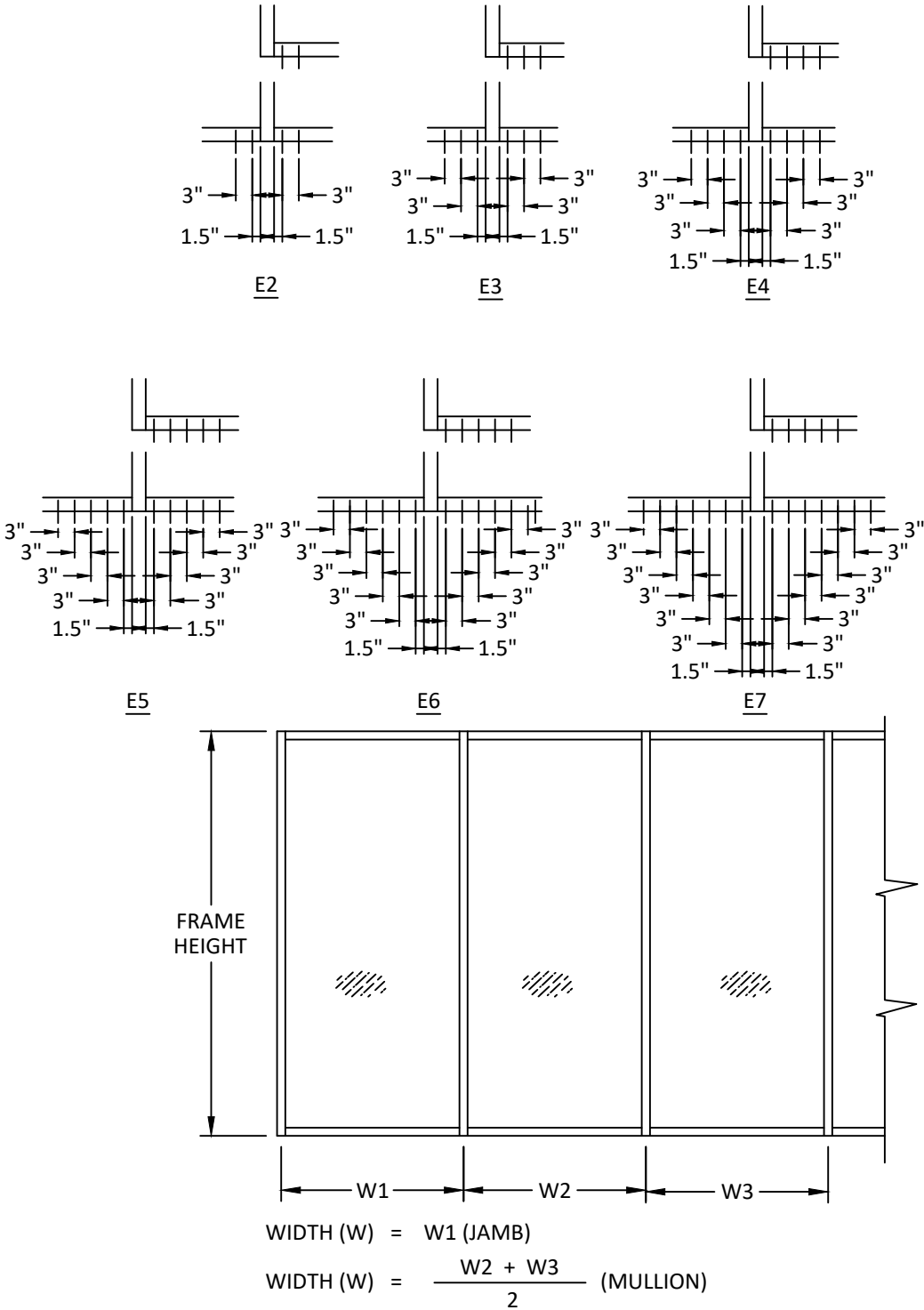
ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT. (-)							
NOMINAL DIMS. (IN)		ANCHOR TYPE 'E'					
WIDTH (W)	FRAME HEIGHT	E2	E3	E4	E5	E6	E7
30	90	61.8	90.0	90.0	90.0	90.0	90.0
33		56.2	84.2	90.0	90.0	90.0	90.0
36		51.5	77.2	90.0	90.0	90.0	90.0
39		47.5	71.3	90.0	90.0	90.0	90.0
42		44.1	66.2	88.3	90.0	90.0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

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



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

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

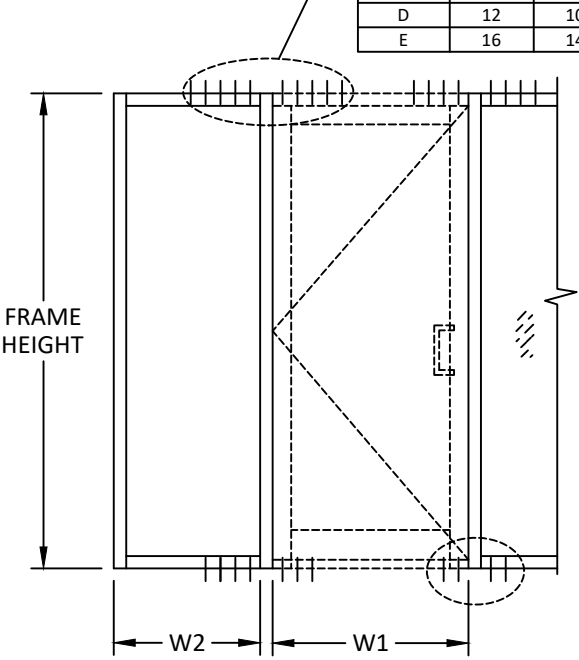
REMARKS	BY	DATE
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
ANCHOR UPDATE	SH	02.10.26
2026 CODE UPDATE	SH	07.28.26

c:\users\sebastianherrerros\desktop\ykk 2026 ca\114218\ykk159.dwg 7/29/2026 8:38 AM

DOOR MULLION LOAD & ANCHOR TABLES

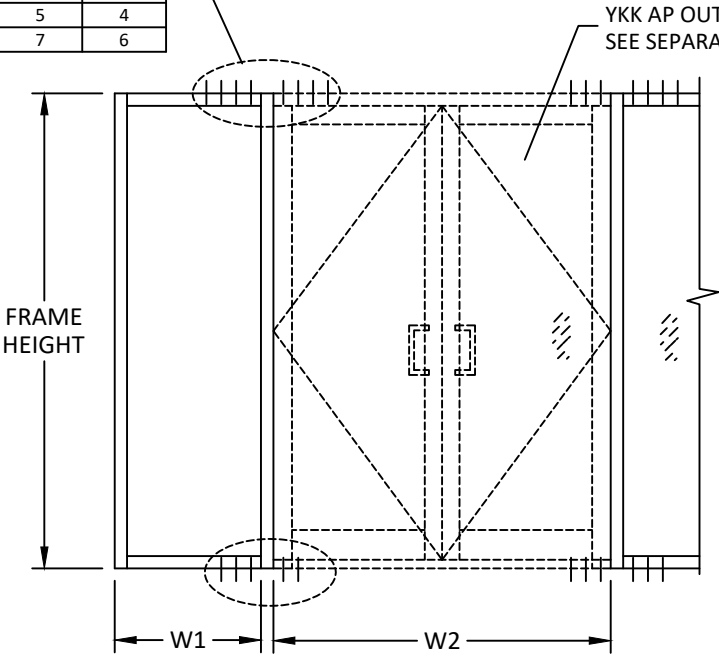
DOOR MULLION LOAD CAPACITY (PSF)					
NOMINAL DIMS. (IN)		WITHOUT STEEL REINF.		WITH STEEL REINF.	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24	102	70.0	70.0	70.0	90.0
30		70.0	70.0	70.0	90.0
36		70.0	70.0	70.0	90.0
42		70.0	70.0	70.0	90.0
48		70.0	70.0	70.0	90.0
54		70.0	70.0	70.0	90.0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

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



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

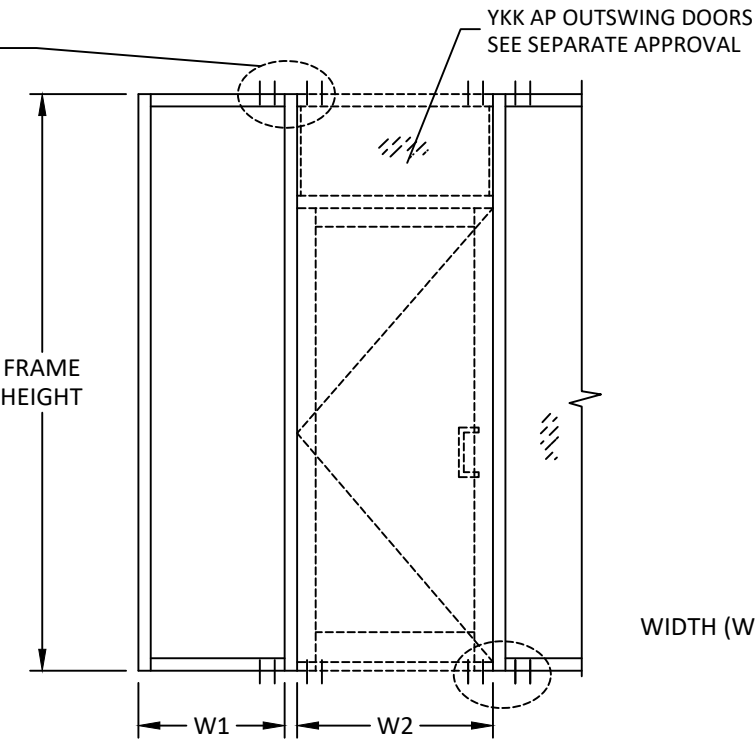
SINGLE DOOR



WIDTH (W) = $\frac{W1}{2} + \frac{W2}{4}$

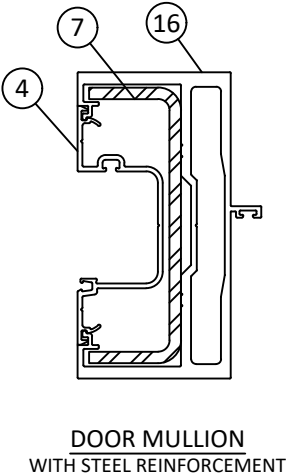
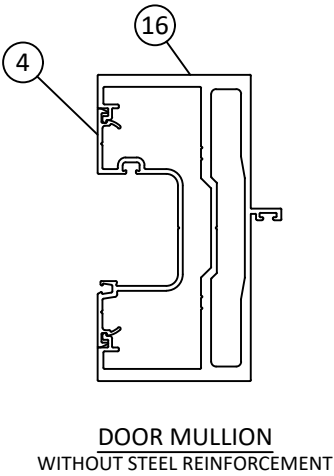
DOUBLE DOOR

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



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

SINGLE DOOR WITH TRANSOM



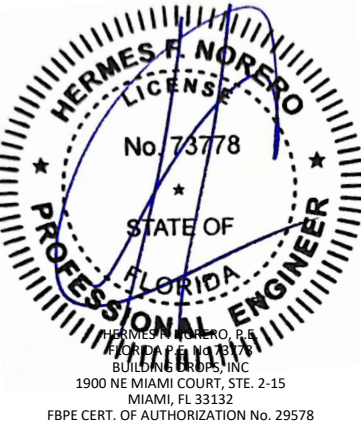
YKK AP AMERICA, INC.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (678) 838-6000

TITLE: YHS 50 FI ALUMINUM STOREFRONT SYSTEM - OUTSIDE GLAZED (HVHZ) (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
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
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.



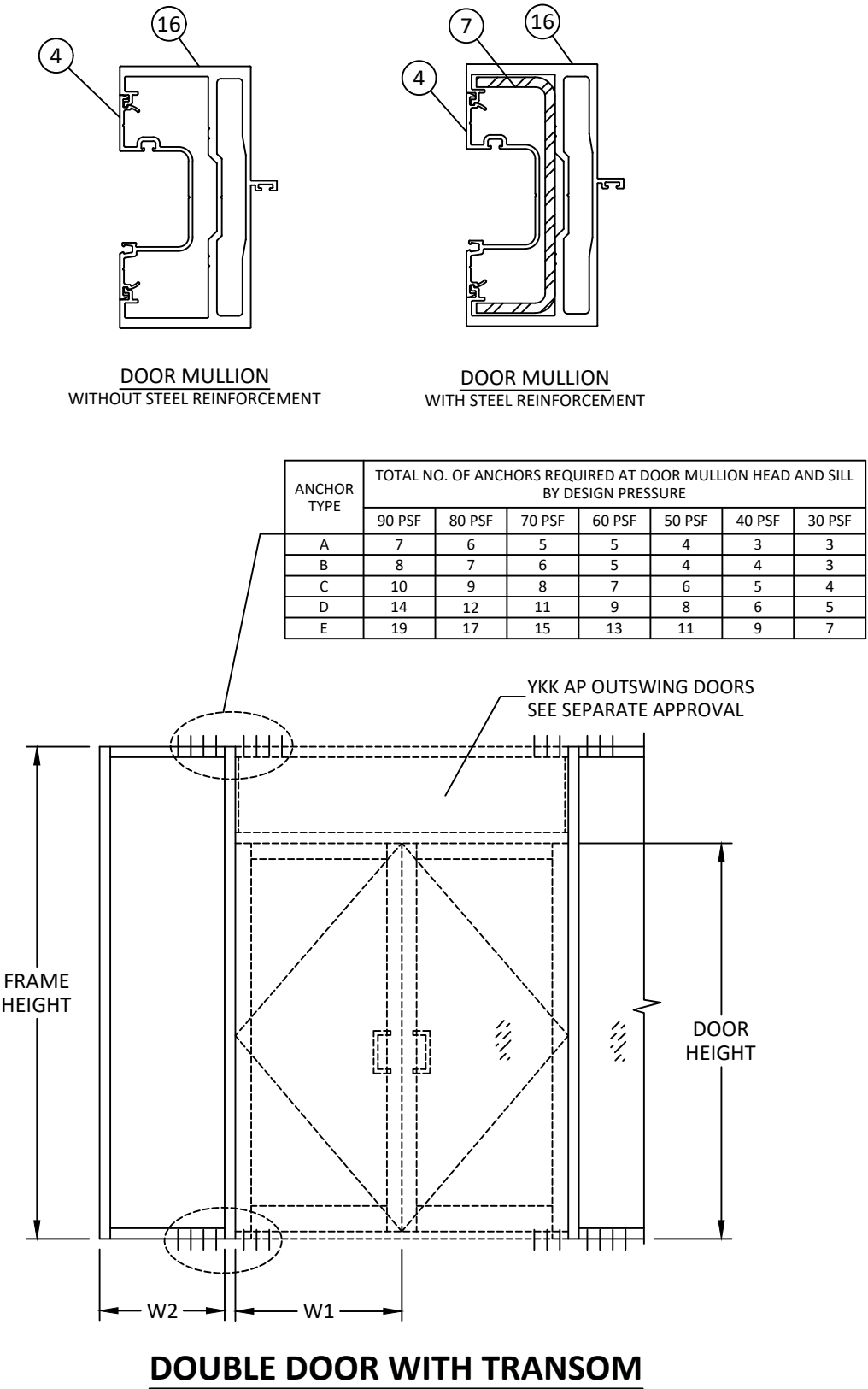
FL #:	FL14218
DATE:	11.18.15
DWG. BY:	CHK. BY:
SM	HFN
SCALE:	NTS
DWG. #:	YKK159
SHEET:	REV. D

13

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. (-)
96.0	36.0	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
	42.0	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
	48.0	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
102.0	36.0	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
	42.0	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
	48.0	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
108.0	36.0	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
	42.0	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
	48.0	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	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. (-)
114.0	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	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
120.0	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



Quality
inspires™

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

TITLE:
YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(HVHZ) (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
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
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. #:

YKK159

SHEET:

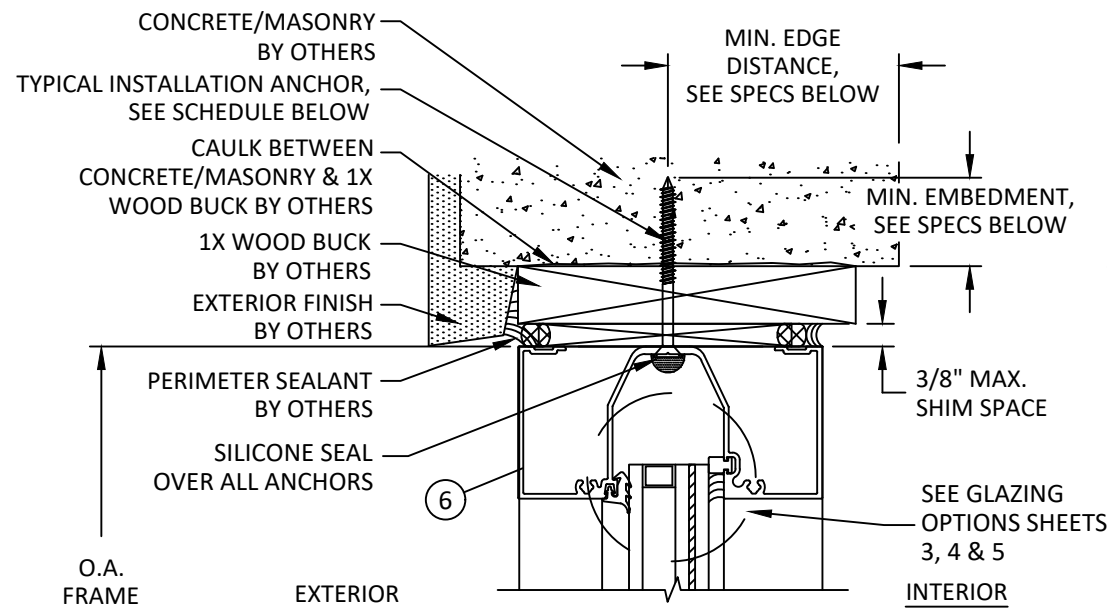
14

REV.

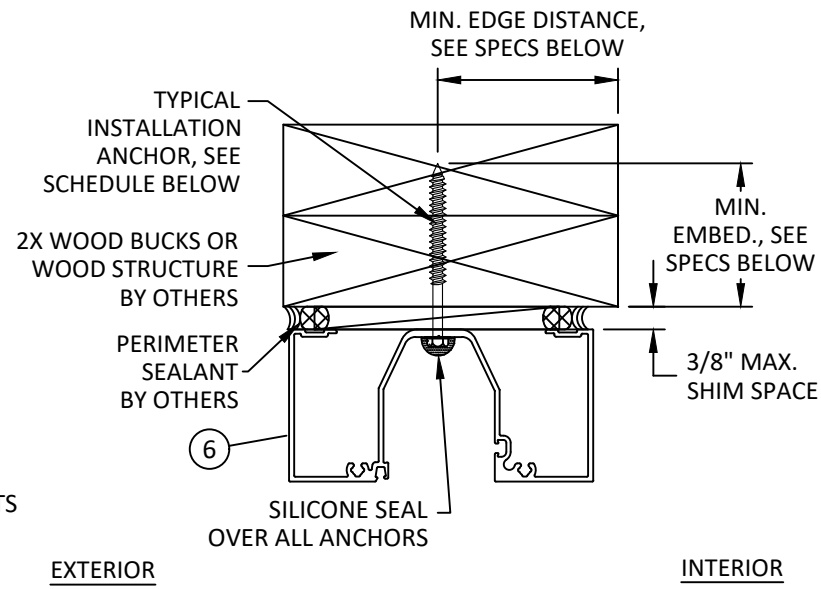
D

7/29/2026 8:38 AM

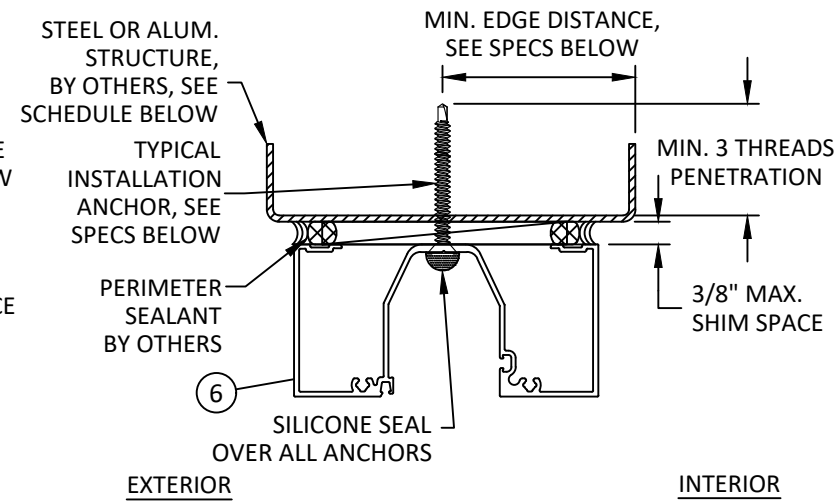
c:\users\sebastianhereros\desktop\ykk 2026 ca\114218\ykk159.dwg



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

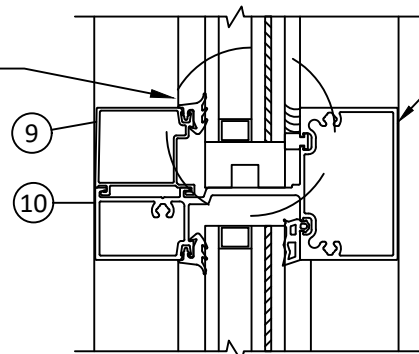


D
15 **VERTICAL SECTION**
HEAD - WOOD FRAMING
TYPICAL INSTALLATION



E
15 **VERTICAL SECTION**
HEAD - METAL SUBSTRATE
TYPICAL INSTALLATION

SEE GLAZING
OPTIONS SHEETS
3, 4 & 5

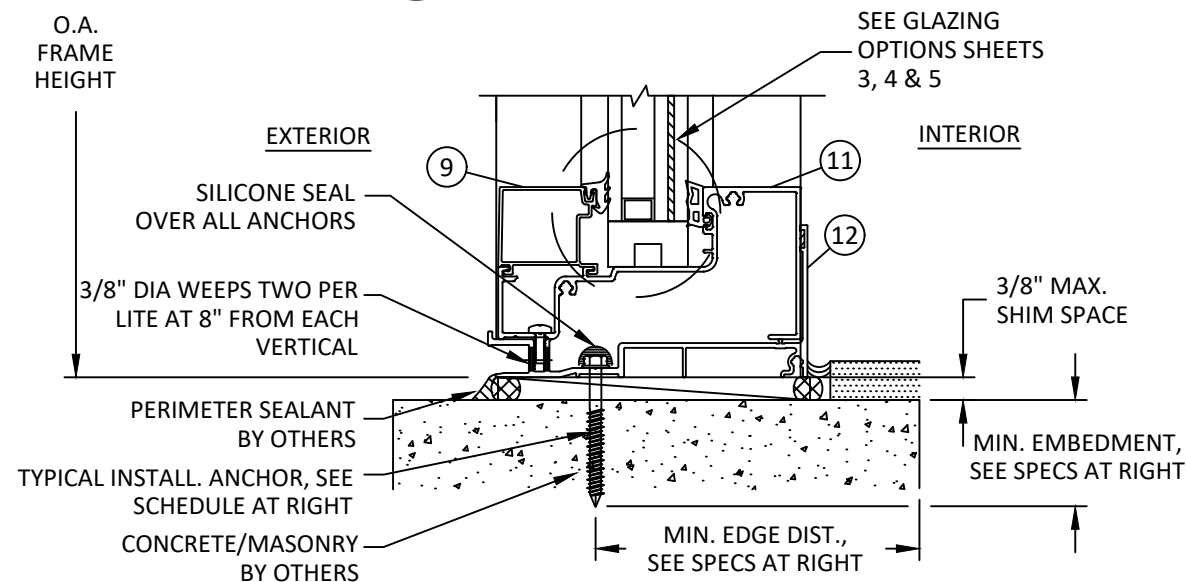


B
15 **VERTICAL SECTION**
HORIZONTAL MEMBER

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

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.

SEE GLAZING
OPTIONS SHEETS
3, 4 & 5



C
15 **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 ULTRAICON	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 ULTRAICON	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 ULTRAICON+		1-3/4"	1-1/2"
	5/16" DEWALT ULTRAICON	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 ULTRAICON+	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 ULTRAICON+	GROUT-FILLED BLOCK PER C-90, MIN. F'C = 2000 PSI	1-3/4"	1-1/2"
	1/4" ITW TAPCON		1"	2"



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

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

VERTICAL SECTIONS
& ANCHOR DESCRIPTIONS

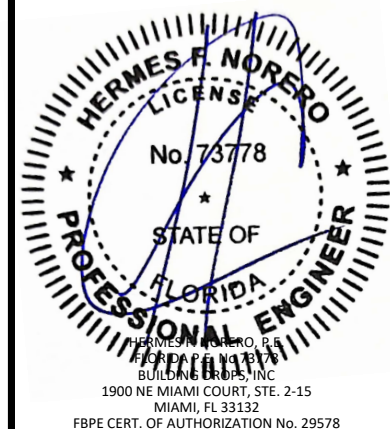
PREPARED BY:
BUILDING DROPS, INC.

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
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
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. #: **YKK159**

SHEET:

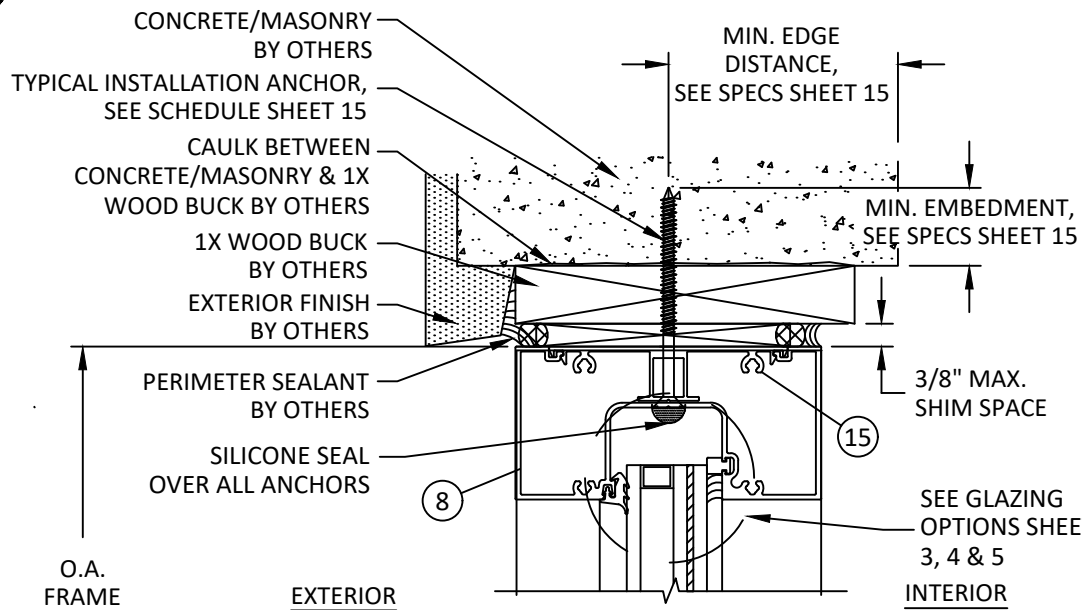
15

REV.

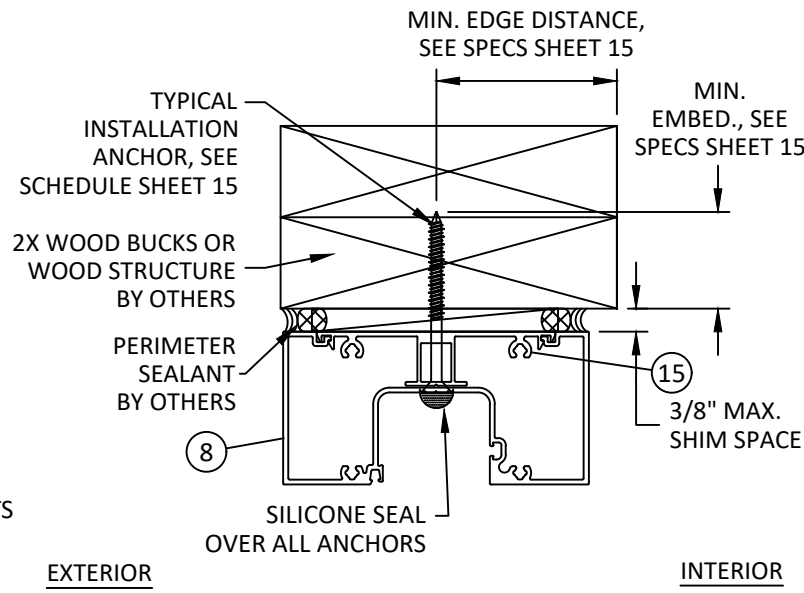
D

7/29/2026 8:38 AM

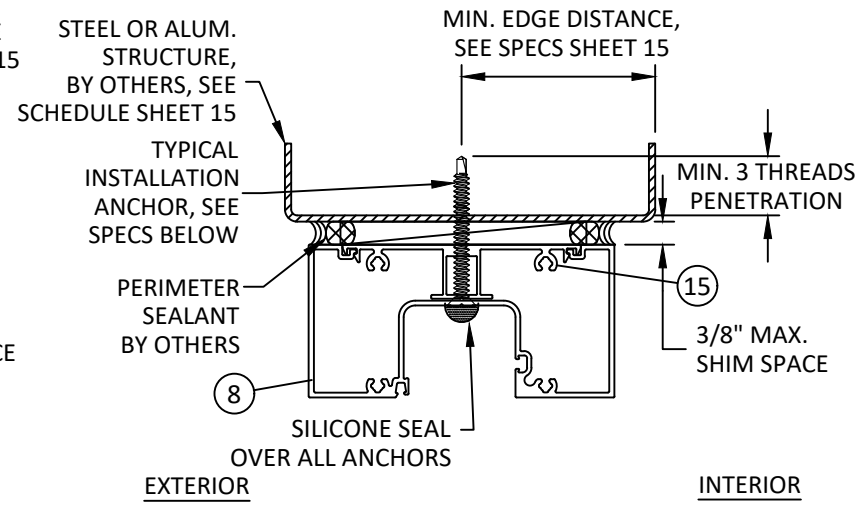
c:\users\sebastianherrerros\desktop\ykk 2026 ca\114218\ykk159.dwg



F
16 VERTICAL SECTION
HEAD - CONCRETE/MASONRY W/ 1X BUCK
MEDIUM / HEAVY CONFIGURATION

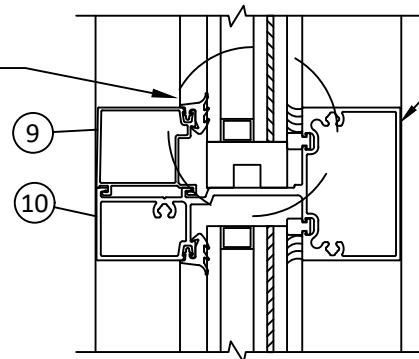


I
16 VERTICAL SECTION
HEAD - WOOD FRAMING
TYPICAL INSTALLATION



J
16 VERTICAL SECTION
HEAD - METAL SUBSTRATE
TYPICAL INSTALLATION

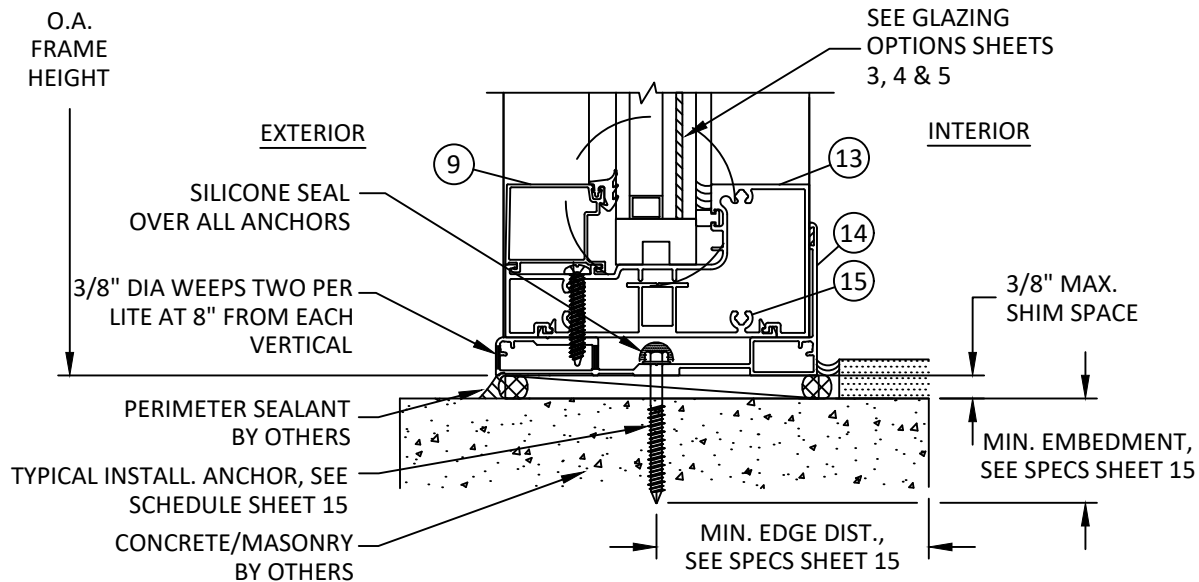
SEE GLAZING
OPTIONS SHEETS
3, 4 & 5



G
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

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.



H
16 VERTICAL SECTION
SILL - DIRECT TO CONCRETE/MASONRY
MEDIUM / HEAVY 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
(HVHZ) (IMPACT)

VERTICAL SECTIONS

PREPARED BY: BUILDING DROPS, INC.

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



REMARKS	BY	DATE
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
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**

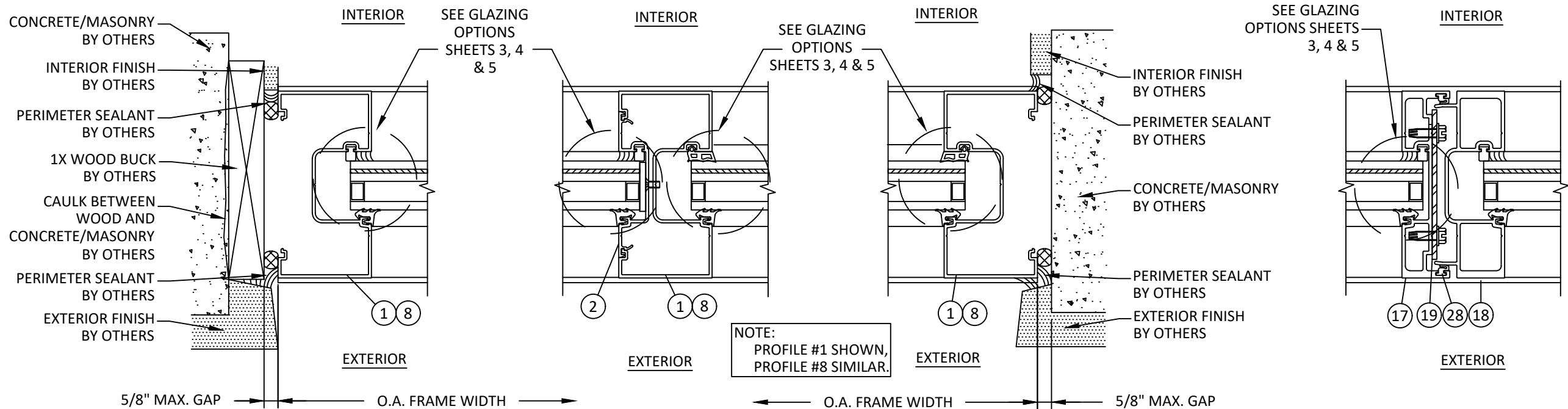
DWG. BY: **SM** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK159**

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

c:\users\sebastianherrerros\desktop\Ykk 2026 cc\114218\Ykk159.dwg 7/29/2026 8:38 AM

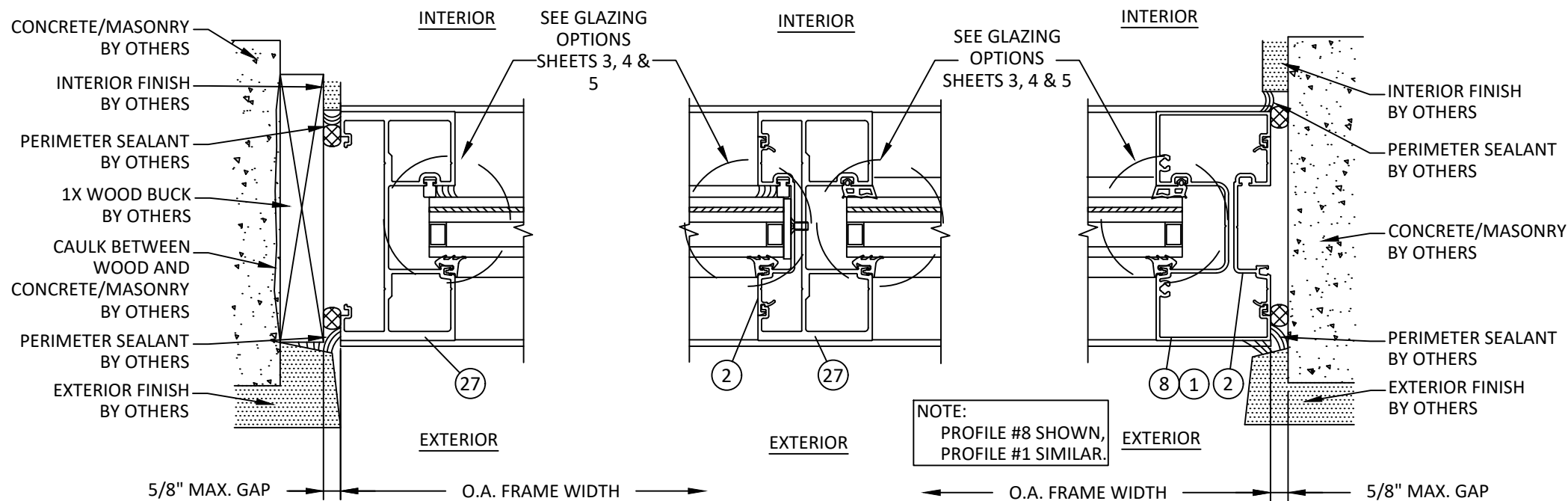


L **HORIZONTAL SECTION**
17 JAMB - CONCRETE/MASONRY W/ 1X BUCK
LIGHT CONFIGURATION

M **HORIZONTAL SECTION**
17 VERTICAL MULLION
LIGHT CONFIGURATION

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

O **HORIZONTAL SECTION**
17 VERTICAL EXPANSION MULLION



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

Q **HORIZONTAL SECTION**
17 VERTICAL MULLION
MEDIUM CONFIGURATION

R **HORIZONTAL SECTION**
17 JAMB - DIRECT TO CONCRETE/MASONRY
MEDIUM 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
(H/VHZ) (IMPACT)

HORIZONTAL SECTIONS

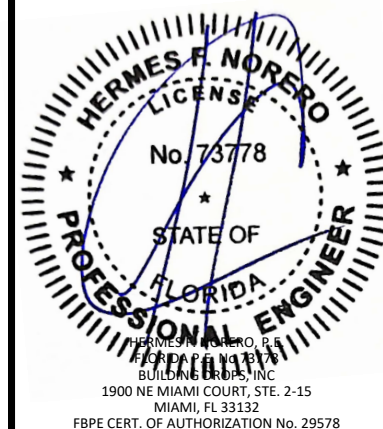
PREPARED BY: BUILDING DROPS, INC.

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
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
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. #: **YKK159**

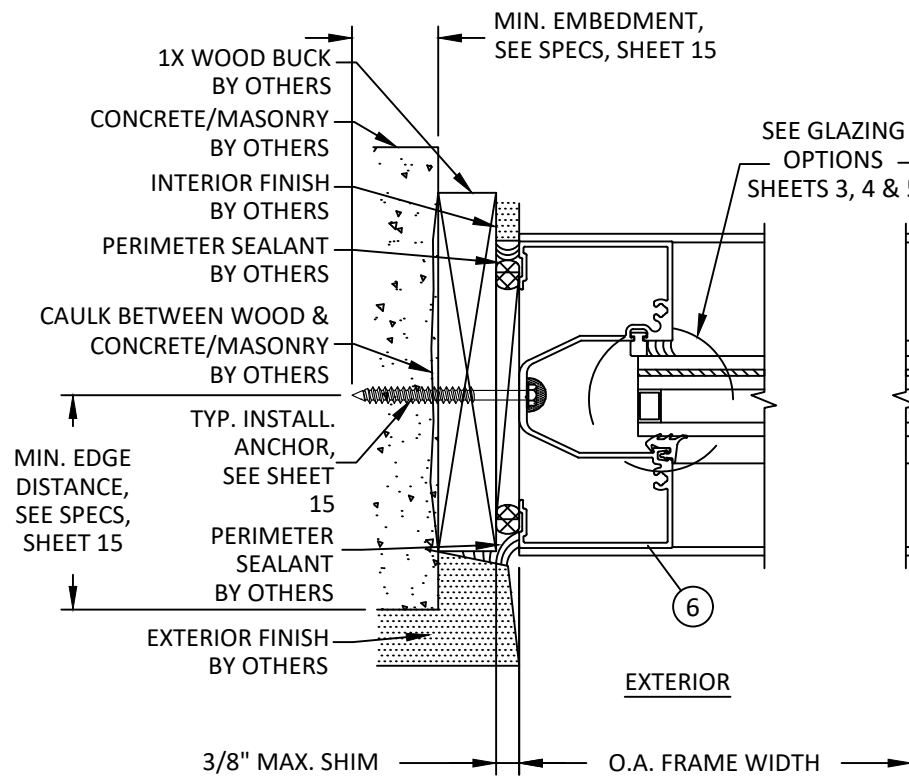
SHEET:

17

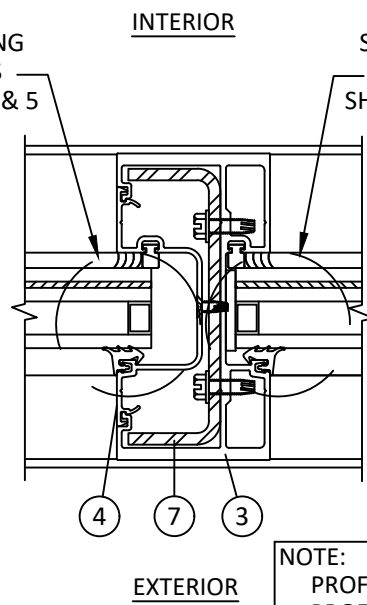
REV.

D

7/29/2026 8:38 AM
c:\users\sebastianherrerros\desktop\ykk 2026 cc\114218\ykk159.dwg

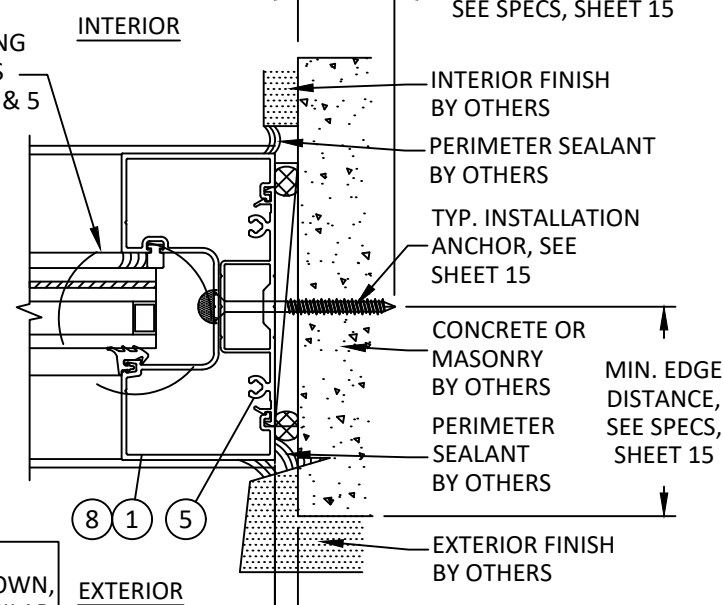


S
18 HORIZONTAL SECTION
JAMB - CONCRETE/MASONRY W/ 1X BUCK
HEAVY CONFIGURATION

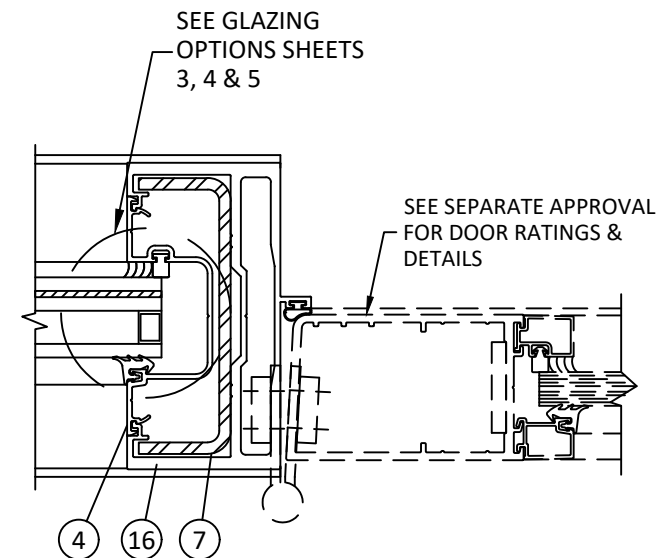


T
18 HORIZONTAL SECTION
VERTICAL MULLION
HEAVY CONFIGURATION

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



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



V
18 HORIZONTAL SECTION
DOOR JAMB MULLION



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

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

HORIZONTAL SECTIONS

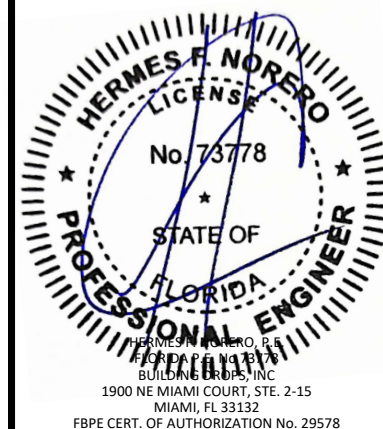
PREPARED BY:
BUILDING DROPS, INC.

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
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
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**

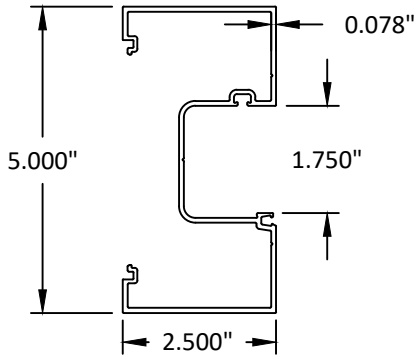
SCALE: **NTS**

DWG. #: **YKK159**

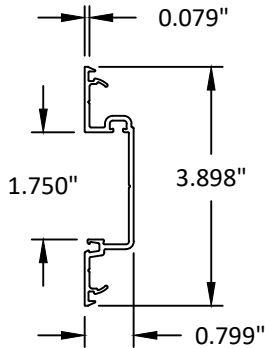
SHEET: **18** REV. **D**

7/29/2026 8:38 AM

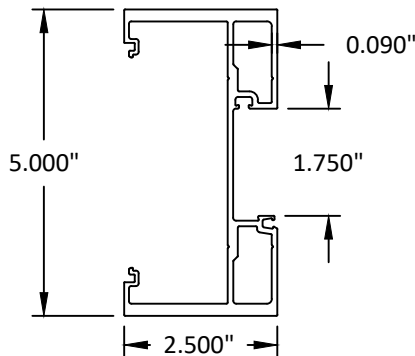
ITEM	PART NO.	DESCRIPTION	MATERIAL
1	E9-0663	JAMB / VERTICAL	6063-T5
2	E9-0655	SHALLOW POCKET FILLER	6063-T5
3	E9-0665	HEAVY DUTY VERTICAL	6063-T5
4	E9-0656	DEEP POCKET FILLER	6063-T5
5	E1-1068	FLAT FILLER AT PERIMETER ANCHOR	6063-T5
6	E9-0662	HEAD / JAMB	6063-T5
7	E1-1062	STEEL CHANNEL (1-1/2" X 4-1/2" X 3/16")	A36 STEEL
8	E9-0651	HEAD/JAMB	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
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



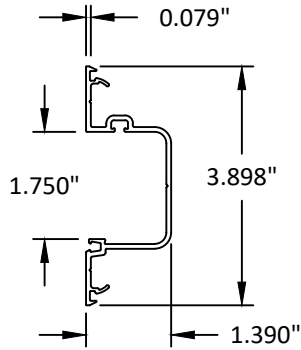
1 JAMB/VERTICAL



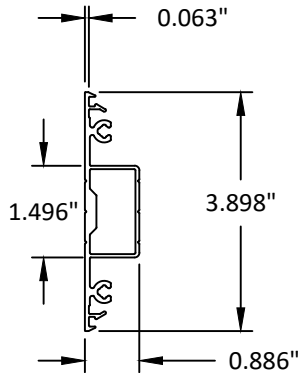
2 SHALLOW POCKET FILLER



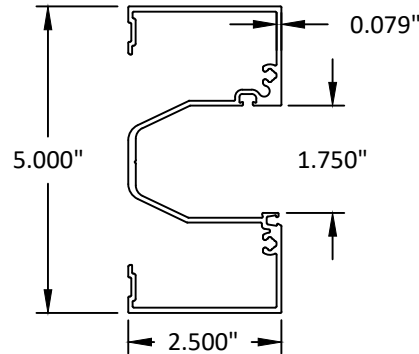
3 HEAVY DUTY VERTICAL



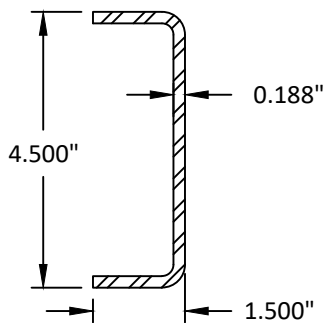
4 DEEP POCKET FILLER



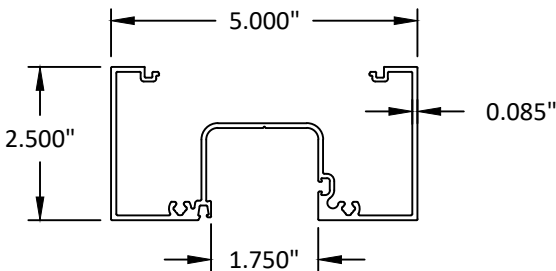
5 FLAT FILLER AT PERIMETER ANCHOR



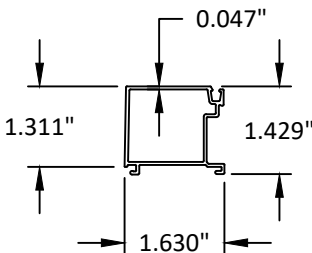
6 HEAD/JAMB



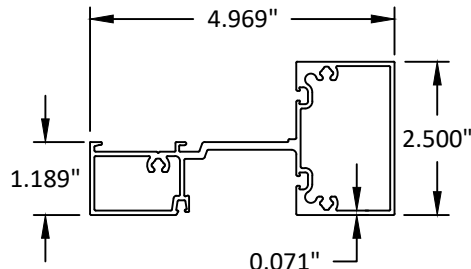
7 STEEL CHANNEL (1-1/2" X 4-1/2" X 3/16")



8 HEAD/JAMB



9 GLASS STOP



10 HORIZONTAL



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

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

COMPONENTS & BILL OF MATERIALS

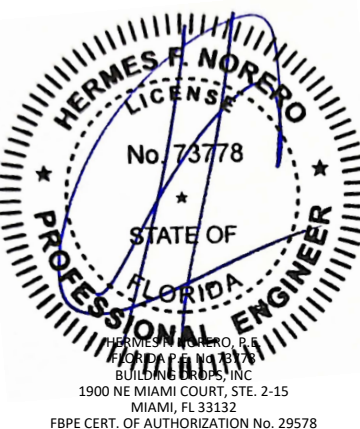
PREPARED BY: BUILDING DROPS, INC.

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



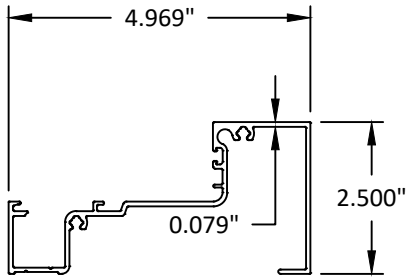
REMARKS	BY	DATE
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
ANCHOR UPDATE	SH	02.10.26
2026 CODE UPDATE	SH	07.28.26

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.

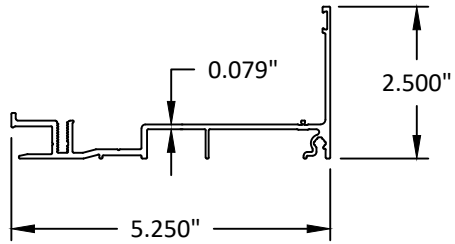


FL #:	FL14218
DATE:	11.18.15
DWG. BY:	SM
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK159
SHEET:	19
REV.	D

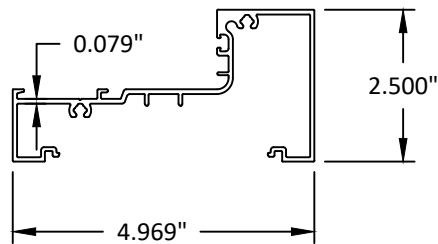
c:\users\sebastianherrerros\desktop\ykk 2026 c\114218\ykk159.dwg 7/29/2026 8:38 AM



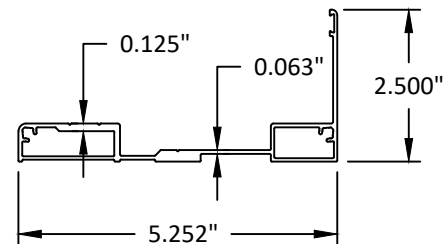
11 SILL (UP TO ± 50 PSF)



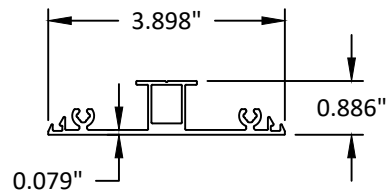
12 SILL FLASHING (UP TO ± 50 PSF)



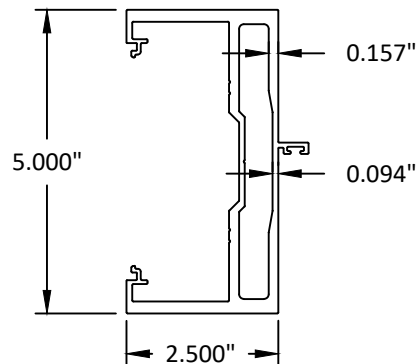
13 SILL (UP TO +70/-90 PSF)



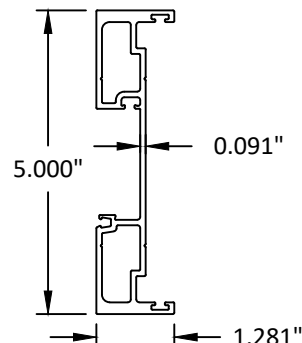
14 SILL FLASHING (UP TO +70/-90 PSF)



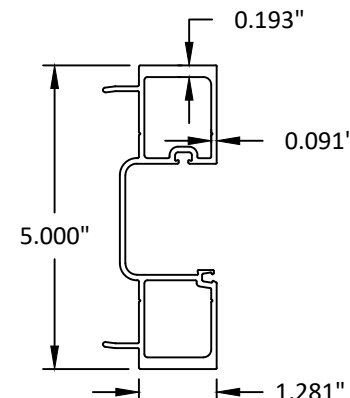
15 ANCHOR FILLER



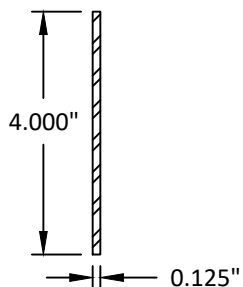
16 DOOR JAMB O/P



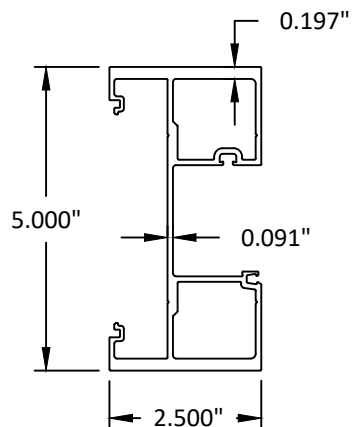
17 EXPANSION MULLION (FEMALE)



18 EXPANSION MULLION (MALE)



19 STEEL REINFORCEMENT BAR



27 HEAVY DUTY MULLION



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

TITLE:
YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(HVHZ) (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
MISC. UPDATES	SH	12.14.22
SILL UPDATE	SH	09.23.24
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. #: **YKK159**

SHEET: **20** REV. **D**