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YKK AP AMERICA, INC.

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

INSTALLATION NOTES:

- 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.
- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
 - FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).
 - CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - MASONRY - CMU UNIT STRENGTH CONFORMS TO ASTM C-90, WITH MIN. COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MIN. GROUT COMPRESSIVE STRENGTH OF 2000 PSI.
 - STEEL - MINIMUM YIELD STRENGTH OF 36 KSI. MINIMUM 12 GA. WALL THICKNESS.
 - STEEL - MINIMUM YIELD STRENGTH OF 36 KSI. MINIMUM 18 GA. WALL THICKNESS.
 - ALUMINUM - MINIMUM 1/8 INCH THICK 6063-T5 ALUMINUM.

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
 - AAMA 501-25
 - ASTM E1886-19
 - ASTM E1996-23
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONES 3 OR LESS. SEE SHEETS 3 & 4 FOR LMI AND SMI GLASS TYPES.
- STOREFRONT FRAME MATERIAL: ALUMINUM 6063-T5
- ALL STRUCTURAL MATERIALS & DISSIMILAR METALS SHALL BE PROTECTED, TREATED, PAINTED, COATED, AND/OR ISOLATED AS REQUIRED IN THE APPLICABLE SECTIONS OF THE CURRENT FLORIDA BUILDING CODE AND REFERENCED DESIGN SPECIFICATIONS.
- GLASS SHALL MEET THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEETS 3 & 4 FOR GLAZING DETAILS.

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INSTRUCTIONS FOR USE:

- DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG, HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- SEE CHARTS ON SHEETS 3 & 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 5, 6, 7, 8, 9 & 10 FOR STORE FRONT MULLION AND SHEETS 13 & 14 FOR DOOR MULLION, THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- USING CHART ON SHEET 11, 12, & 12A SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- THE LOWEST VALUE RESULTING FROM STEP 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.



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

TITLE:
YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - INSIDE GLAZED
(WZ3) (IMPACT)

INSTALLATION & GENERAL NOTES

PREPARED BY:

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

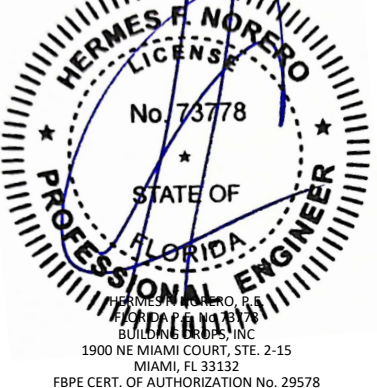
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WEB: www.buildingdrops.com



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

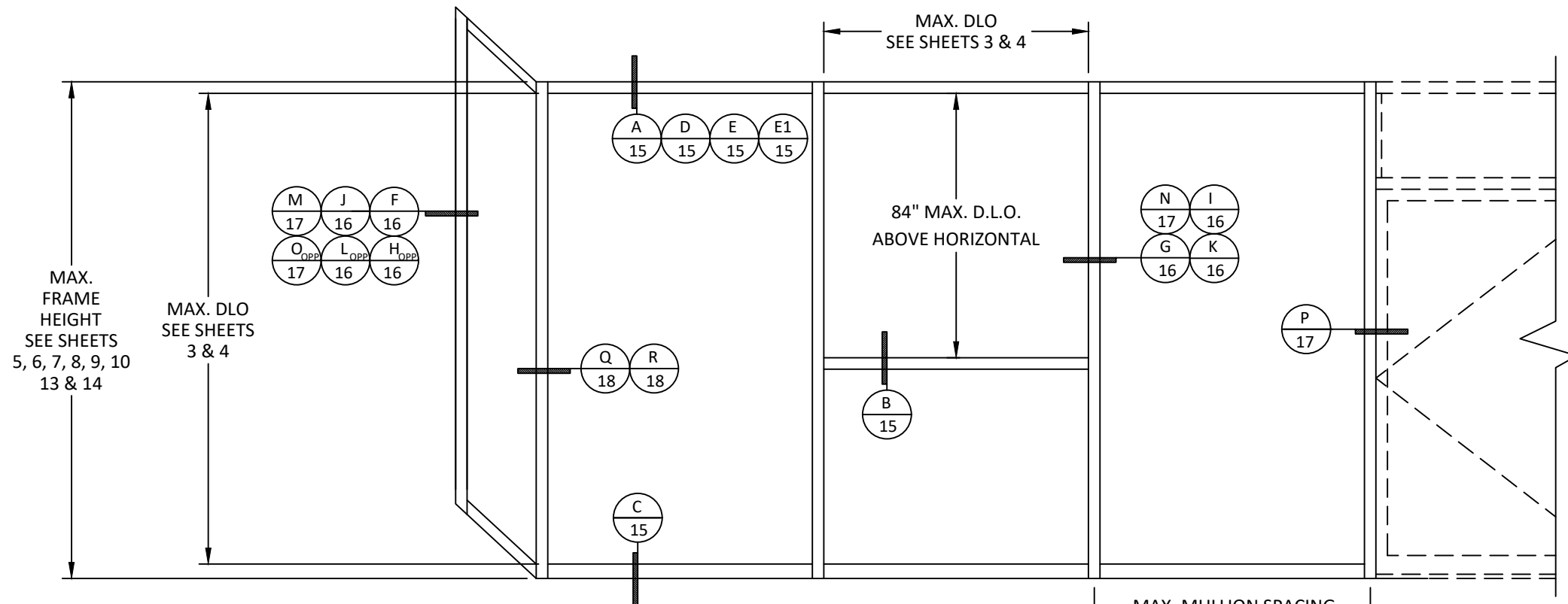
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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.08.03 18:49:37 -0400



FL #:		FL14218	
DATE:		01.28.16	
DWG. BY:	SM	CHK. BY:	HFN
SCALE:		NTS	
DWG. #:		YKK165	
SHEET:		REV.	
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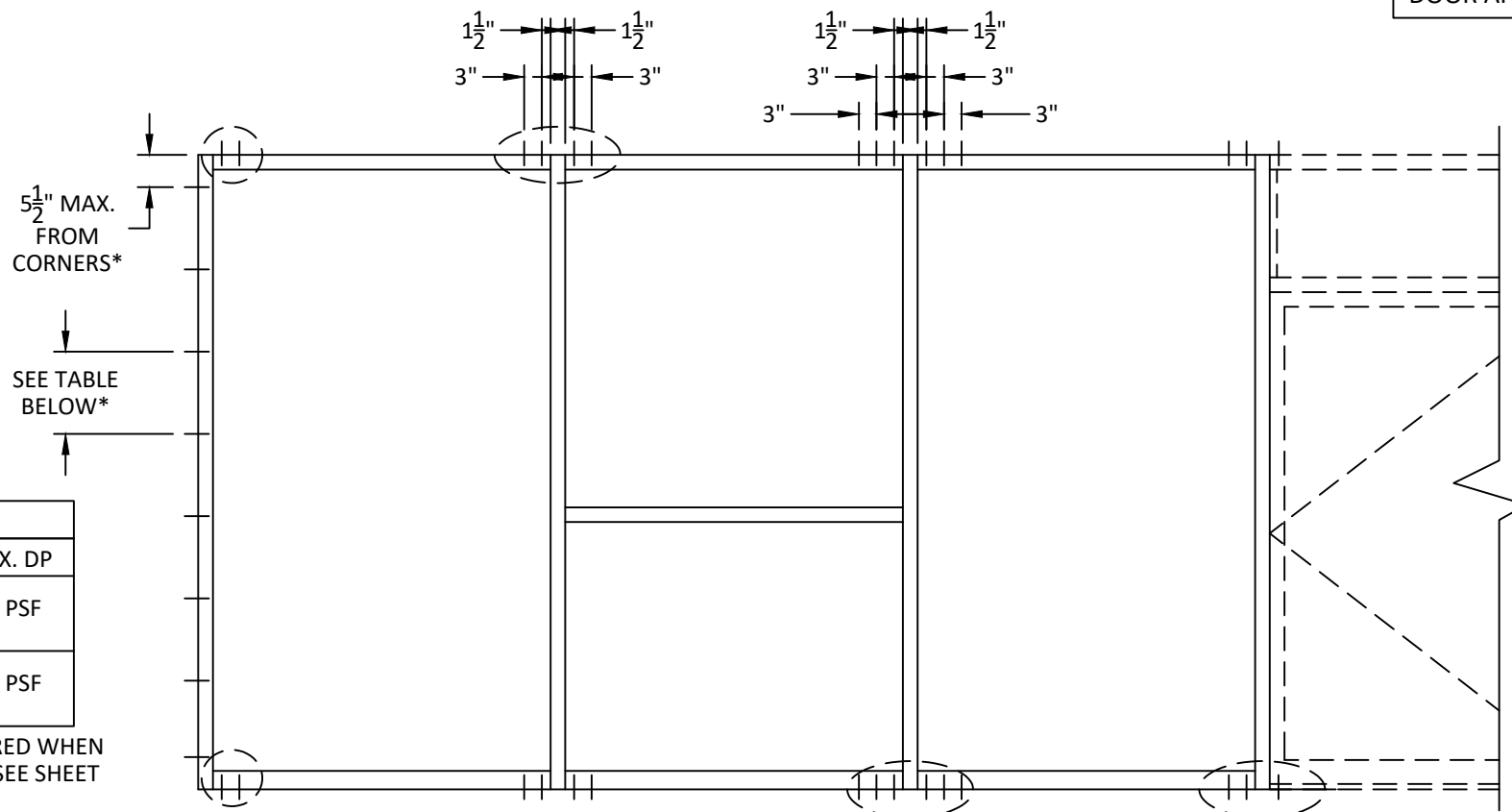


ELEVATION
TYPICAL YHS 50 FI STOREFRONT

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

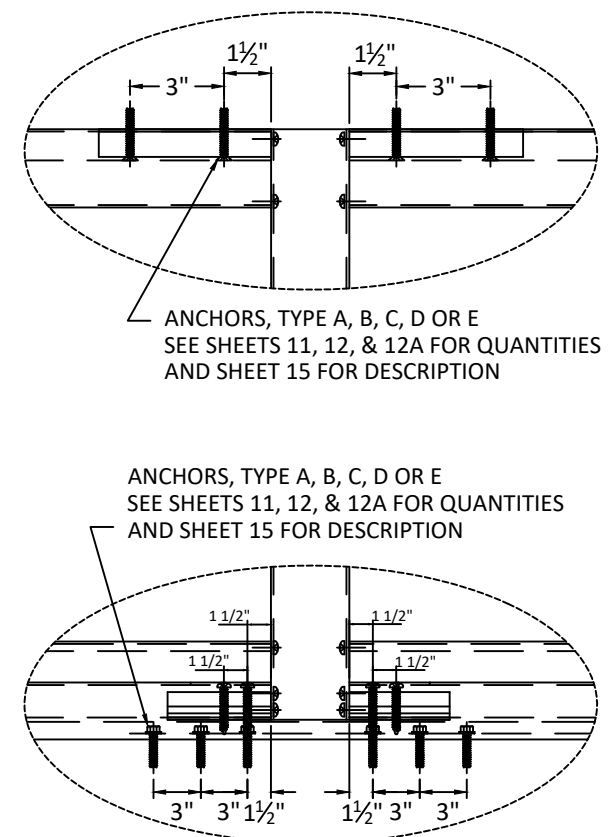
JAMB ANCHOR SPACING*		
ANCHOR TYPE	MAX. SPACING	MAX. DP
A OR B	18.75"	65 PSF
C, E OR D	13"	
A OR B	13.5"	90 PSF
C, E OR D	9.375"	

*NOTE: JAMB ANCHORS ARE ONLY REQUIRED WHEN USING "HEAVY" JAMB CONFIGURATIONS, SEE SHEET 17 FOR HEAVY JAMB DETAILS



TYPICAL ANCHOR LAYOUT

FOR DOOR ADJACENT
MULLION ANCHOR
REQUIREMENTS SEE
SHEETS 13 & 14



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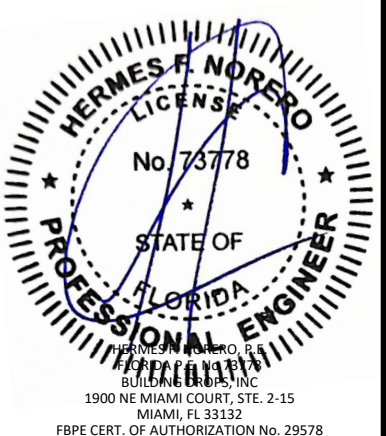
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CHK. BY:	HFN
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SHEET:	2
REV.	D

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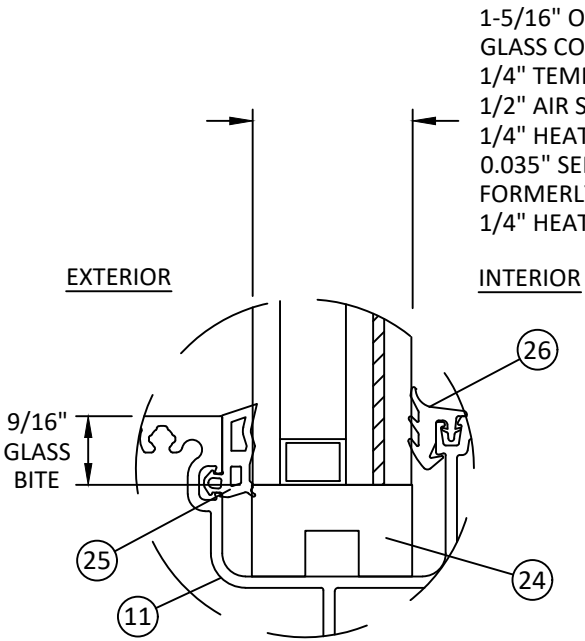
GLASS LOAD CAPACITY (PSF)				
DAYLIGHT OPENING (IN)		GLASS TYPES I OR J		GLASS TYPE K
DLO WIDTH	DLO HEIGHT	EXT. (+)	INT. (-)	EXT. (+) INT. (-)
27.5	54.375	70.0	90.0	70.0
33.5		70.0	90.0	70.0
39.5		70.0	90.0	70.0
45.5		70.0	90.0	70.0
51.5		70.0	90.0	70.0
57.5		70.0	90.0	70.0
63.5	60.375	70.0	90.0	70.0
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		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		63.4	81.5	63.4
57.5		57.9	74.5	57.9
63.5	84.375	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	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
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	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	114.375	70.0	90.0	57.1
57.5		66.5	85.5	54.3
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		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	57.1
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	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	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	138.375	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	57.9
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.

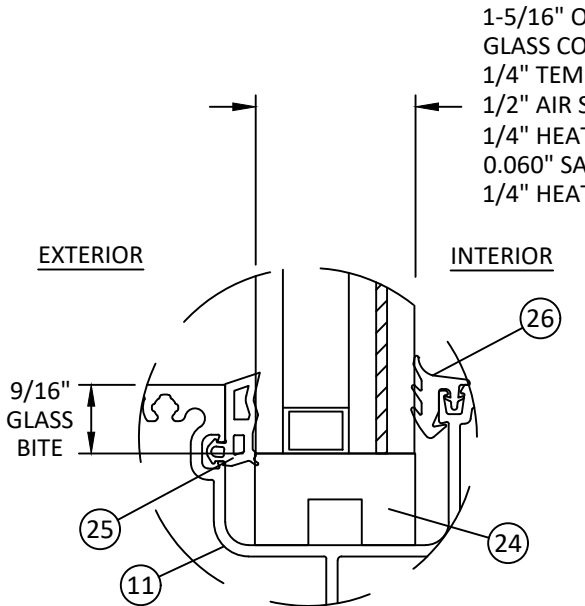
GLASS LOAD CAPACITY (PSF)				
DAYLIGHT OPENING (IN)		GLASS TYPES I OR J		GLASS TYPE K
DLO WIDTH	DLO HEIGHT	EXT. (+)	INT. (-)	EXT. (+) INT. (-)
27.5	90.375	70.0	90.0	70.0
33.5		70.0	90.0	70.0
39.5		70.0	90.0	70.0
45.5		70.0	90.0	70.0
51.5		70.0	90.0	70.0
57.5		70.0	90.0	70.0
63.5	96.375	63.4	81.5	63.4
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	57.1
63.5		66.5	85.5	54.3
69.5		70.0	90.0	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	57.1
57.5		70.0	90.0	57.1
63.5	120.375	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	126.375	70.0	90.0	70.0
57.5		70.0	90.0	70.0
63.5		70.0	90.0	70.0
69.5		70.0	90.0	70.0
27.5		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		70.0	90.0	70.0
69.5		70.0	90.0	70.0
27.5	138.375	70.0	90.0	70.0
33.5		70.0	90.0	70.0
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



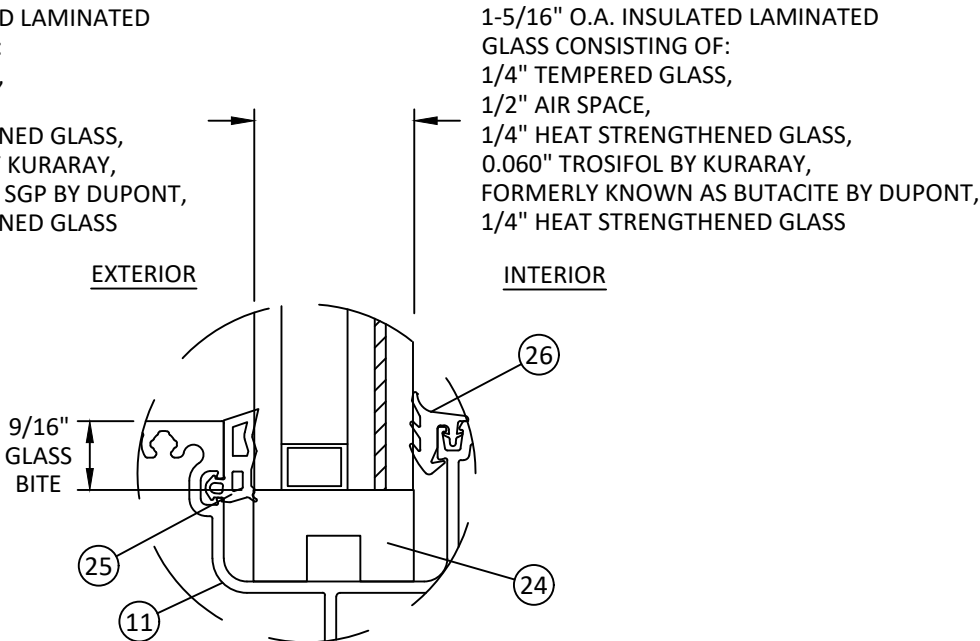
GLAZING DETAIL I
(DRY GLAZED)



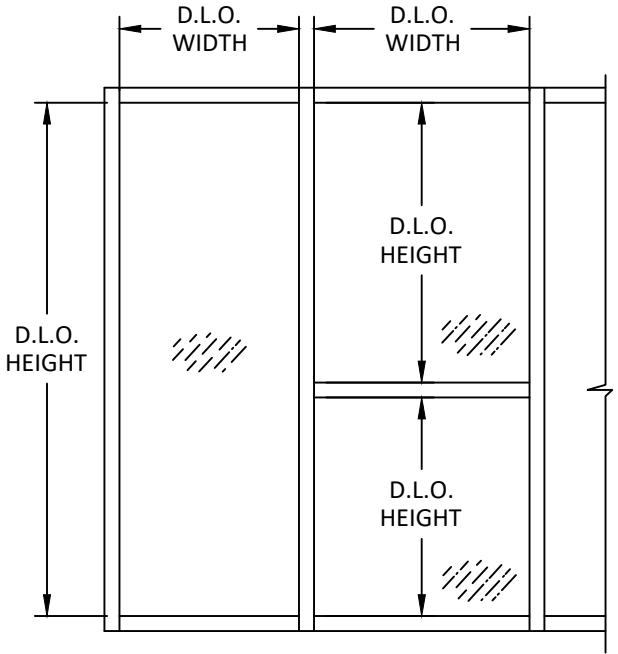
GLAZING DETAIL K
(DRY GLAZED)

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"



GLAZING DETAIL J
(DRY GLAZED)



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SMI GLAZING DETAILS

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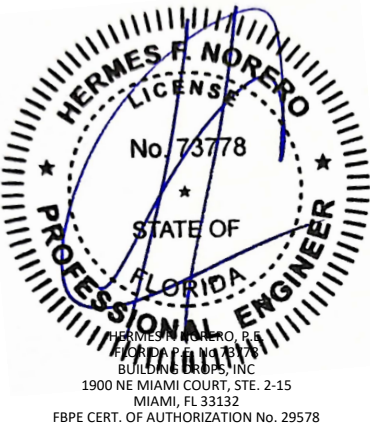
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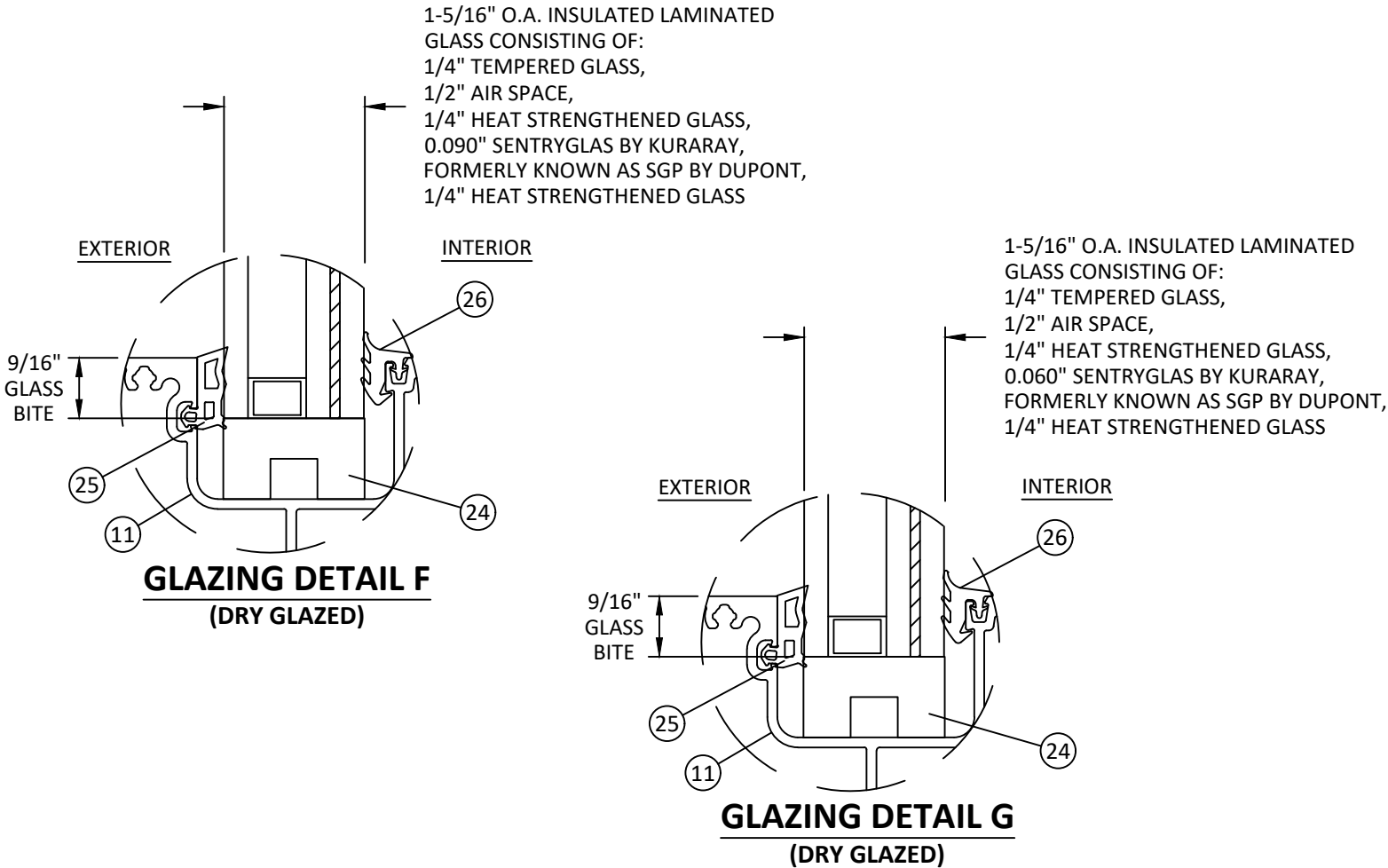
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GLASS LOAD CAPACITY (PSF)			
DAYLIGHT OPENING (IN)		GLASS TYPE F	GLASS TYPE G
DLO WIDTH	DLO HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
27.5	54.375	65.0	50.0
33.5		65.0	50.0
39.5		65.0	50.0
45.5		65.0	50.0
51.5		65.0	50.0
57.5		65.0	50.0
63.5	60.375	65.0	50.0
69.5		65.0	50.0
27.5		65.0	50.0
33.5		65.0	50.0
39.5		65.0	50.0
45.5		65.0	50.0
51.5	66.375	65.0	50.0
57.5		65.0	50.0
63.5		65.0	50.0
69.5		61.9	47.6
27.5		61.9	47.6
33.5		65.0	50.0
39.5	72.375	65.0	50.0
45.5		65.0	50.0
51.5		65.0	50.0
57.5		65.0	50.0
63.5		58.9	45.3
69.5		56.3	43.3
27.5	78.375	65.0	50.0
33.5		65.0	50.0
39.5		65.0	50.0
45.5		65.0	50.0
51.5		65.0	50.0
57.5		65.0	50.0
63.5	84.375	58.9	45.3
69.5		53.8	41.4
27.5		65.0	50.0
33.5		65.0	50.0
39.5		65.0	50.0
45.5		65.0	50.0

GLASS LOAD CAPACITY (PSF)			
DAYLIGHT OPENING (IN)		GLASS TYPE F	GLASS TYPE G
DLO WIDTH	DLO HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
27.5	90.375	65.0	50.0
33.5		65.0	50.0
39.5		65.0	50.0
45.5		65.0	50.0
51.5		65.0	50.0
57.5		65.0	50.0
63.5	96.375	58.9	45.3
69.5		53.8	41.4
27.5		65.0	50.0
33.5		65.0	50.0
39.5		65.0	50.0
45.5	102.375	65.0	50.0
51.5		65.0	50.0
57.5		65.0	50.0
63.5		58.9	45.3
69.5		56.2	43.2
27.5	108.375	65.0	50.0
33.5		65.0	50.0
39.5		65.0	50.0
45.5		65.0	50.0
51.5		65.0	50.0
57.5		65.0	50.0
63.5	114.375	61.8	47.5
69.5		65.0	50.0
27.5		65.0	50.0
33.5		65.0	50.0
39.5		65.0	50.0
45.5	120.375	65.0	50.0
51.5		65.0	50.0
57.5		65.0	50.0
63.5		65.0	50.0
69.5		65.0	50.0
27.5	126.375	65.0	50.0
33.5		65.0	50.0
39.5		65.0	50.0
45.5		65.0	50.0
51.5		65.0	50.0
57.5		65.0	50.0
63.5	132.375	65.0	50.0
69.5		65.0	50.0
27.5		65.0	50.0
33.5		65.0	50.0
39.5		65.0	50.0
45.5	138.375	65.0	50.0
51.5		65.0	50.0
57.5		65.0	50.0
63.5		65.0	50.0
69.5		65.0	50.0

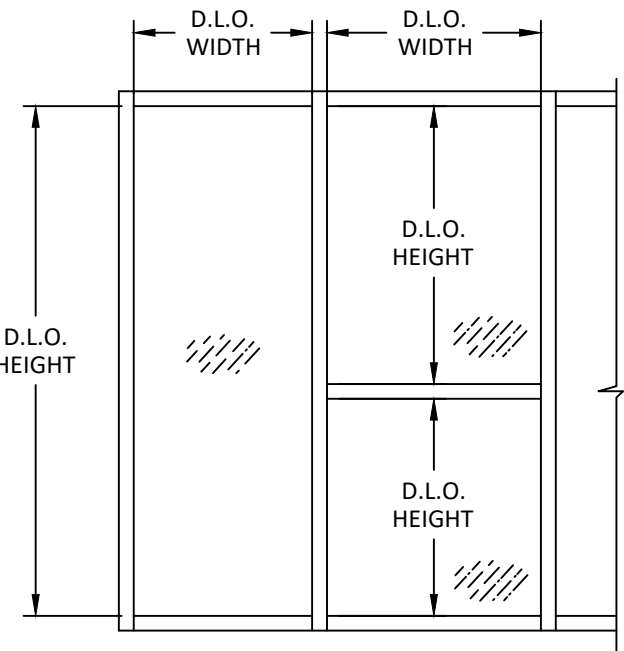
GLASS TYPES

LARGE & SMALL MISSILE IMPACT



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"



- * 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.

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

TITLE:
YHS 50 FL ALUMINUM STOREFRONT
SYSTEM - INSIDE 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

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BUILDING DROPS

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

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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. #:
YKK165

SHEET:
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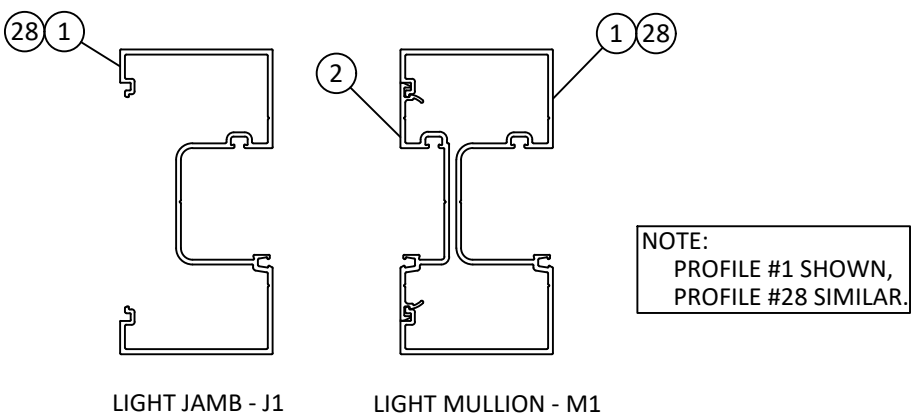
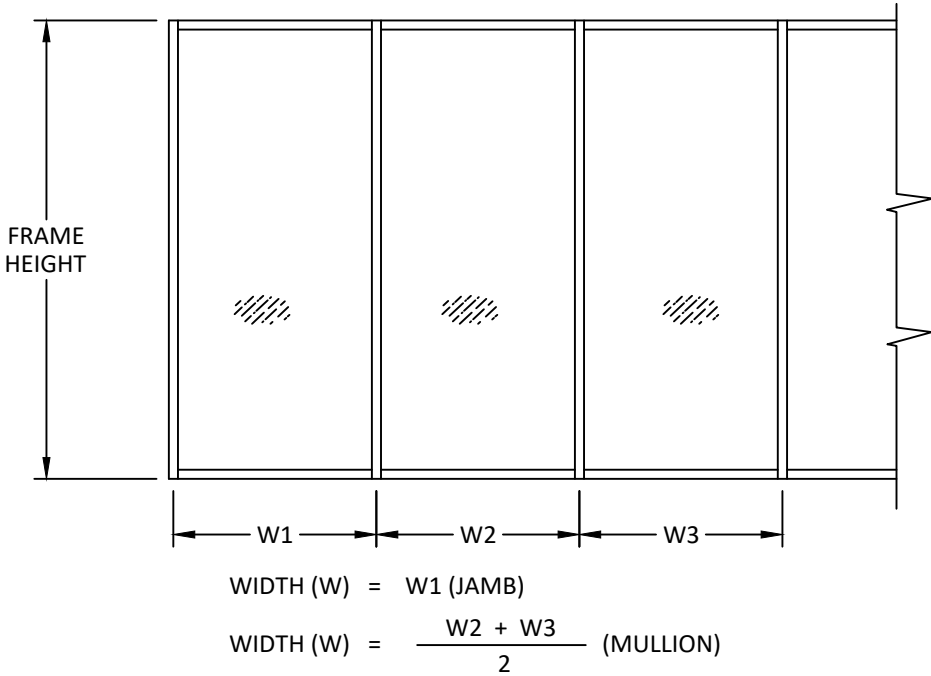
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MULLION LOAD TABLES

LIGHT CONFIGURATION

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

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



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 - INSIDE GLAZED
(WZ3) (IMPACT)
LIGHT MULL TABLES

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
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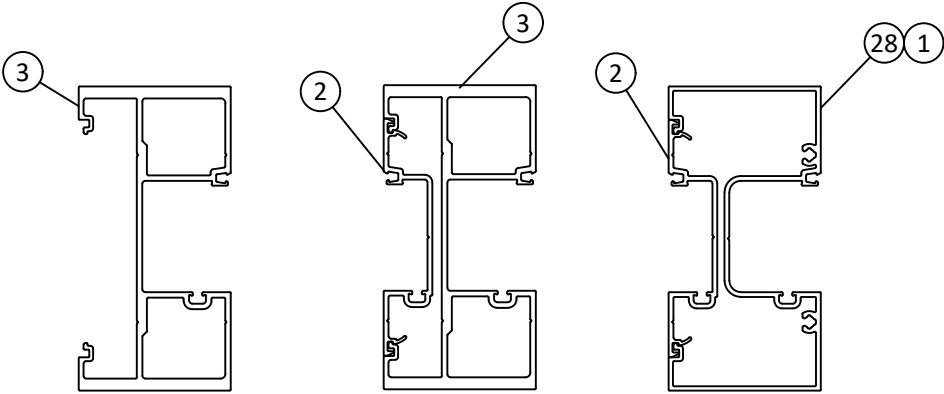
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MULLION LOAD TABLES
MEDIUM CONFIGURATION

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

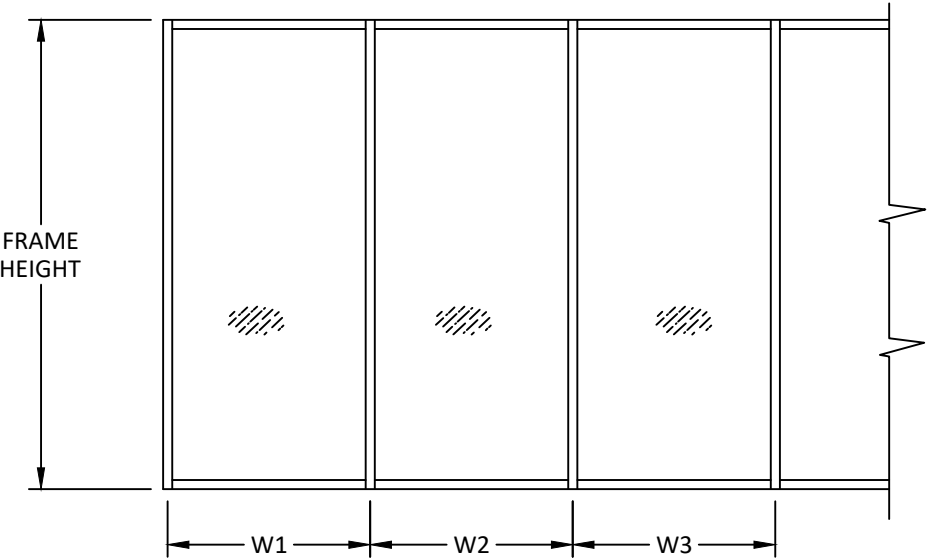
DESIGN LOAD CAPACITY - PSF				
NOMINAL DIMS.		MEDIUM JAMB - J2	MEDIUM JAMB - J3	MEDIUM MULLION - M2
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	84	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	70.0
54		70.0	70.0	70.0
60		70.0	70.0	70.0
66		70.0	70.0	70.0
72		70.0	70.0	70.0
30	90	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	70.0
54		70.0	70.0	70.0
60		70.0	70.0	70.0
66		70.0	70.0	70.0
72		70.0	70.0	70.0
30	96	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	70.0
54		70.0	70.0	70.0
60		70.0	70.0	70.0
66		70.0	70.0	70.0
72		70.0	67.2	64.7
30	102	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	70.0
54		70.0	70.0	70.0
60		70.0	64.5	62.0
66		70.0	70.0	70.0
72		70.0	70.0	70.0
30	108	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	70.0
54		70.0	69.8	67.2
60		70.0	62.8	60.4
66		70.0	70.0	70.0
72		70.0	70.0	70.0
30	114	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	62.3	59.9
60		70.0	56.0	53.9
66		70.0	70.0	70.0
72		70.0	70.0	70.0



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

MEDIUM CONFIGURATION

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



WIDTH (W) = W1 (JAMB)

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



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PH: (678) 838-6000

TITLE:
YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - INSIDE GLAZED
(W3) (IMPACT)
MEDIUM MULL TABLES

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
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WEB: www.buildingdrops.com

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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 #:

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[Page 6 of 21]

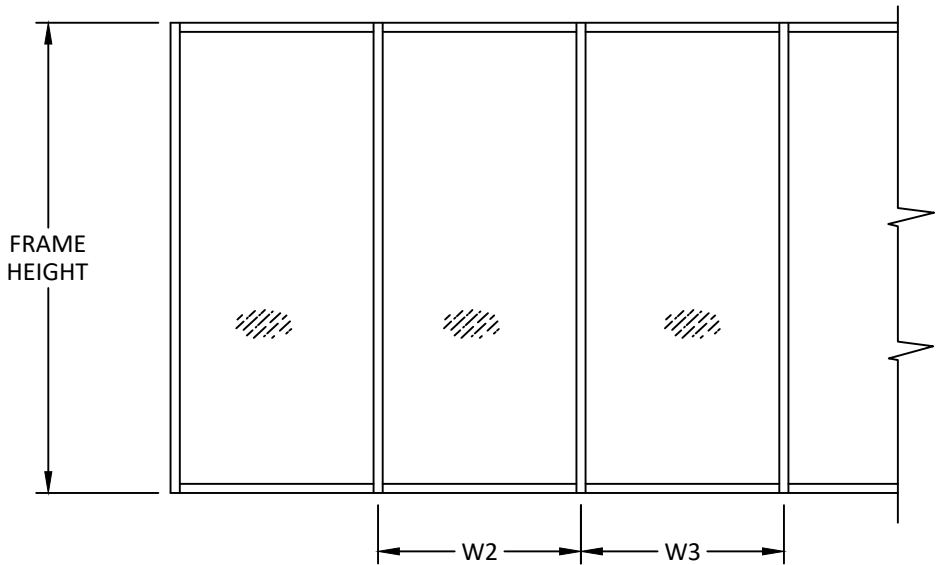
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MULLION LOAD TABLES

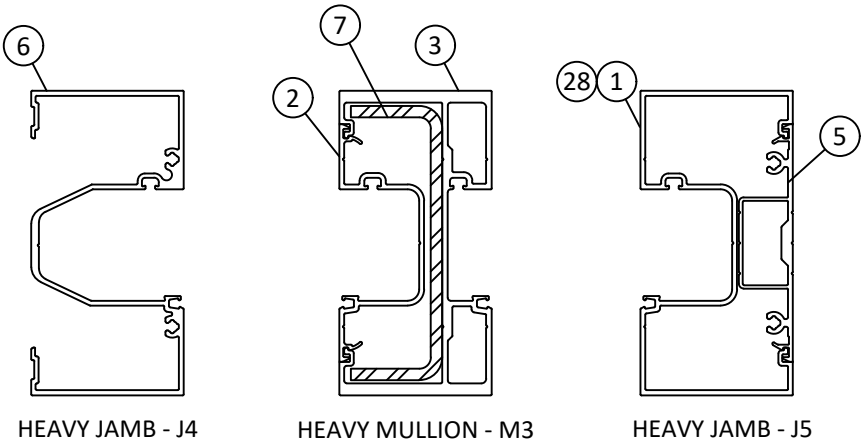
HEAVY CONFIGURATION

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

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



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



HEAVY CONFIGURATION

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



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SYSTEM - INSIDE GLAZED
(WZ3) (IMPACT)
HEAVY MULL TABLES

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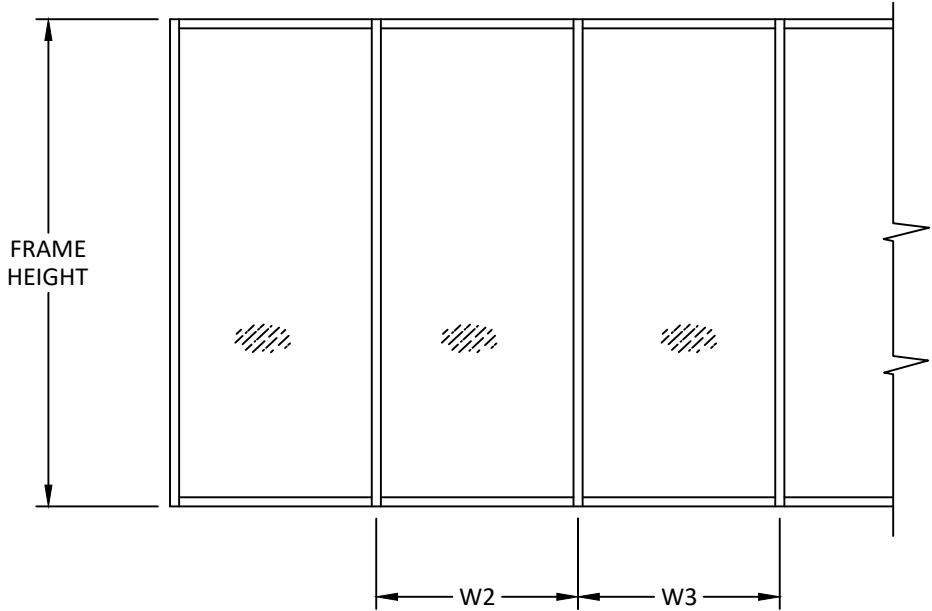
MULLION LOAD TABLES

EXPANSION MULLION

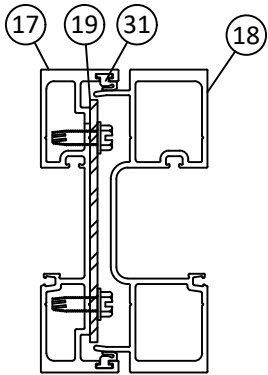
DESIGN LOAD CAPACITY - PSF		
NOMINAL DIMS.		EXPANSION MULLION
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)
30	72	65.0
33		65.0
36		65.0
39		65.0
42		65.0
45		65.0
48		65.0
51		65.0
54		65.0
57		65.0
60		65.0
63		65.0
66	78	65.0
69		65.0
72		65.0
30		65.0
33		65.0
36		65.0
39		65.0
42		65.0
45		65.0
48		65.0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

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

DESIGN LOAD CAPACITY - PSF		
NOMINAL DIMS.		EXPANSION MULLION
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)
30	108	65.0
33		65.0
36		65.0
39		61.7
42		57.3
45		53.5
48		50.2
51		47.2
54		44.6
57		42.2
60		40.1
63		38.2
66	114	36.5
30		65.0
33		65.0
36		60.0
39		55.4
42		51.4
45		48.0
48		45.0
51		42.4
54		40.0
57		37.9
60		36.0
63	120	34.3
30		65.0
33		59.1
36		54.2
39		50.0
42		46.4
45		43.3
48		40.6
51		38.2
54		36.1
57		34.2
60		32.5
63	126	29.0
30		59.0
33		53.6
36		49.1
39		45.4
41		43.1
30	132	53.7
33		48.8
36		44.8
39		41.3
30	138	49.1
33		44.7
37		39.8
30	144	45.1
33		41.0
36		37.6



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



EXPANSION MULLION

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



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YKK AP AMERICA, INC.

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

TITLE:
YHS 50 FL ALUMINUM STOREFRONT
SYSTEM - INSIDE GLAZED
(WZ3) (IMPACT)
EXPANSION MULL TABLE

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



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

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HERMES F. NORERO, P.E.
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. #:

YKK165

SHEET:

REV.

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[Page 8 of 21]

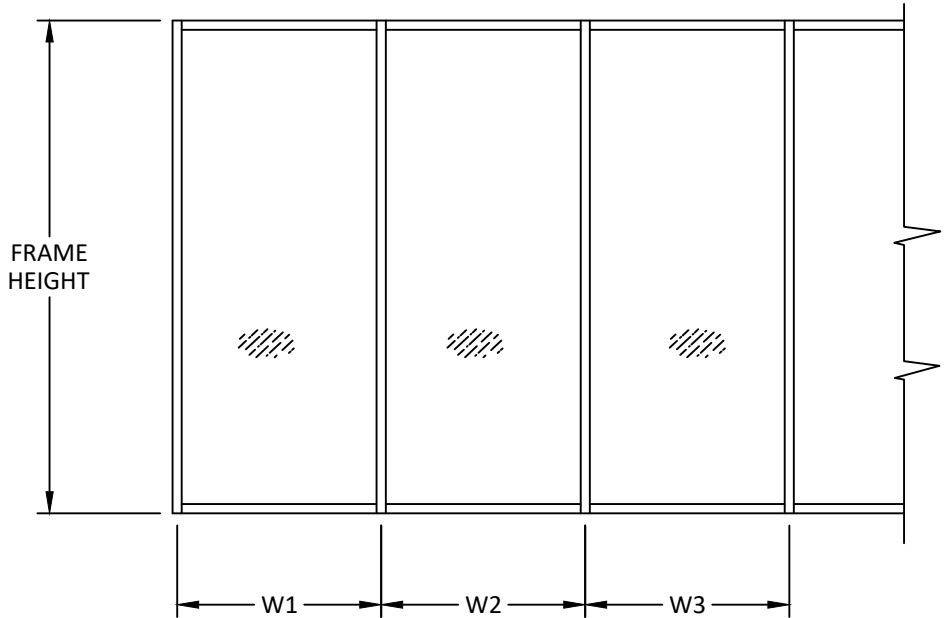
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SMI MULLION LOAD TABLES

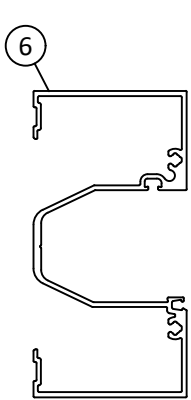
HEAVY CONFIGURATION FOR USE IN SMALL MISSILE IMPACT APPLICATIONS ONLY

DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		HEAVY MULLION - M3	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)
72	96	70.0	90.0
69	102	70.0	90.0
66	108	70.0	90.0
63	114	70.0	90.0
57	120	70.0	90.0
60		70.0	88.7
41	126	70.0	90.0
39	132	70.0	90.0
37	138	70.0	90.0
33	144	70.0	90.0
36		67.5	86.8

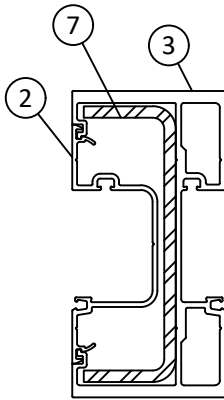
NOTE: HEAVY CONFIGURATION JAMBS ARE ANCHORED ALONG THEIR LENGTH AND THEREFORE DO NOT LIMIT DESIGN PRESSURE.



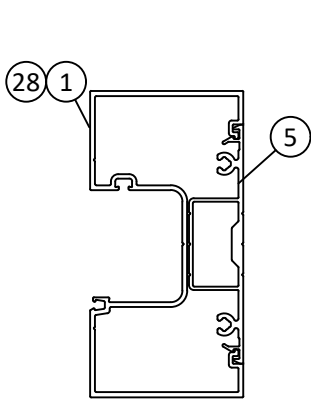
WIDTH (W) = $\frac{W2 + W3}{2}$ (MULLION)



HEAVY JAMB - J4



HEAVY MULLION - M3



HEAVY JAMB - J5

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

HEAVY CONFIGURATION

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



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

TITLE:
YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - INSIDE GLAZED
(WZ3) (IMPACT)

SMI ONLY
HEAVY MULL TABLES

PREPARED BY:

BUILDING DROPS, INC.

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

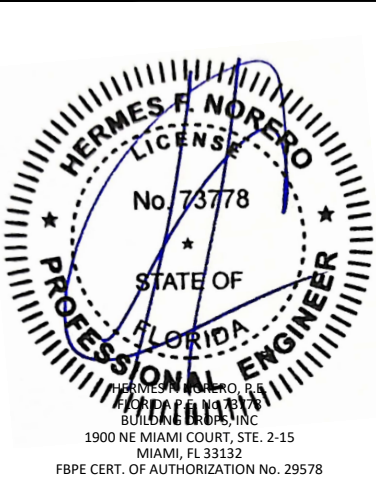
PH: (954) 399-8478
FAX: (954) 744-4738

WEB: www.buildingdrops.com



REMARKS	BY	DATE
FBC CODE UPDATE	RV	07.12.17
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SCALE:	NTS
DWG. #:	YKK165
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9	D

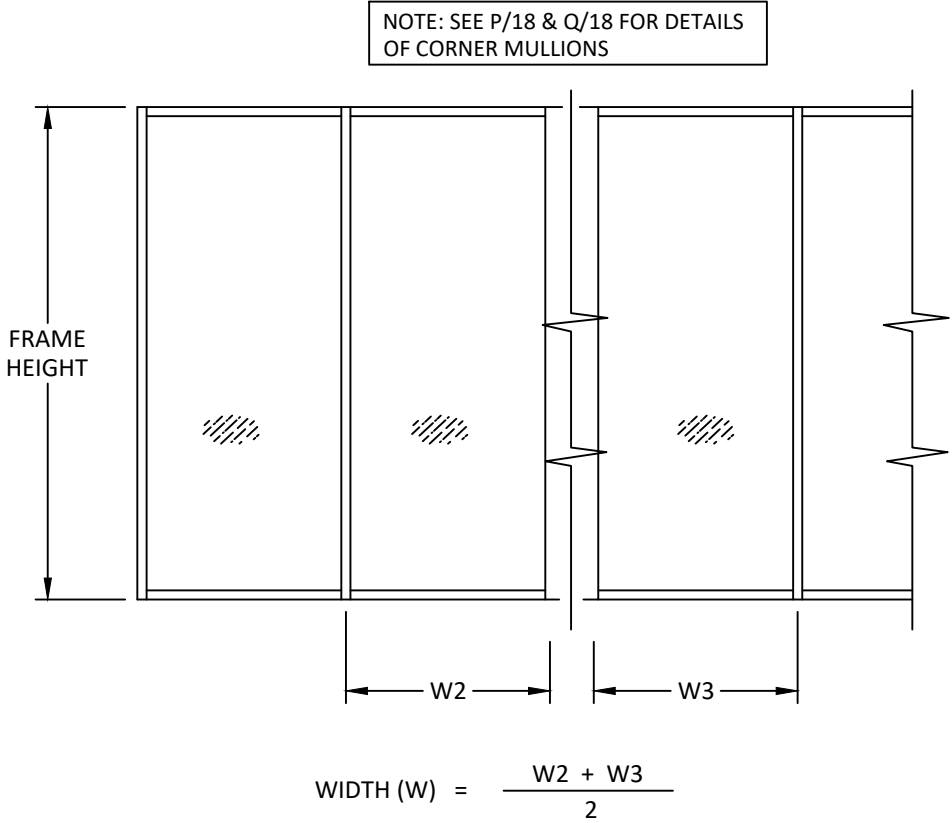
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CORNER MULLION LOAD TABLES

DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		90 DEGREE MULLION	135 DEGREE MULLION
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	72	70.0	70.0
33		70.0	70.0
36		70.0	70.0
39		70.0	70.0
42		70.0	70.0
45		70.0	70.0
48		70.0	70.0
51		70.0	70.0
54		70.0	70.0
57		70.0	68.6
60		69.4	65.2
63		66.1	62.1
66	78	63.1	59.2
69		60.4	56.7
72		57.9	54.3
30		70.0	70.0
33		70.0	70.0
36		70.0	70.0
39		70.0	70.0
42		70.0	70.0
45		70.0	70.0
48		70.0	69.4
51		69.6	65.3
54		65.7	61.7
57	84	62.3	58.4
60		59.2	55.5
63		56.4	52.9
66		53.8	50.5
69		51.5	48.3
72		49.3	46.3
30		70.0	70.0
33		70.0	70.0
36		70.0	70.0
39		70.0	70.0
42		70.0	68.4
45		68.0	63.8
48		63.8	59.8
51		60.0	56.3
54		56.7	53.2
57		53.7	50.4
60		51.0	47.9
63		48.6	45.6
66		46.4	43.5
69		44.4	41.6
72		42.5	39.9

DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		90 DEGREE MULLION	135 DEGREE MULLION
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	90	70.0	70.0
33		70.0	70.0
36		70.0	69.5
39		68.4	64.2
42		63.5	59.6
45		59.3	55.6
48		55.6	52.1
51		52.3	49.1
54		49.4	46.3
57		46.8	43.9
60		44.4	41.7
63		42.3	39.7
66	96	40.4	37.9
69		38.6	36.3
72		37.0	34.8
30		70.0	70.0
33		70.0	66.6
36		65.1	61.1
39		60.1	56.4
42		55.8	52.4
45		52.1	48.9
48		48.8	45.8
51		46.0	43.1
54		43.4	40.7
57	102	41.1	38.6
60		39.1	36.7
63		37.2	34.9
66		35.5	33.3
69		34.0	31.9
72		32.6	30.5
30		69.2	64.9
33		62.9	59.0
36		57.7	54.1
39		53.2	49.9
42		49.4	46.4
45		46.1	43.3
48		43.3	40.6
51		40.7	38.2
54		38.4	36.1
57		36.4	34.2
60		34.6	32.5
63		33.0	30.9
66		31.5	29.5
69		30.1	28.2

DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		90 DEGREE MULLION	135 DEGREE MULLION
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	108	61.7	57.9
33		56.1	52.7
36		51.4	48.3
39		47.5	44.6
42		44.1	41.4
45		41.2	38.6
48		38.6	36.2
51		36.3	34.1
54		34.3	32.2
57		32.5	30.5
60		30.9	29.0
63		29.4	27.6
66	114	28.1	26.3
30		55.4	52.0
33		50.4	47.3
36		46.2	43.3
39		42.6	40.0
42		39.6	37.1
45		36.9	34.7
48		34.6	32.5
51		32.6	30.6
54		30.8	28.9
57		29.2	27.4
60		27.7	26.0
63	120	26.4	24.8
30		50.0	46.9
33		45.5	42.7
36		41.7	39.1
39		38.5	36.1
42		35.7	33.5
45		33.3	31.3
48		31.2	29.3
51		29.4	27.6
54		27.8	26.1
57		26.3	24.7
60		25.0	23.5
63	126	45.4	42.6
30		41.2	38.7
33		37.8	35.5
36		34.9	32.7
39		33.2	31.1
41		41.3	38.8
30	132	37.6	35.2
33		34.4	32.3
36		31.8	29.8
39		37.8	35.5
30	138	34.4	32.2
33		30.7	28.8
37		34.7	32.6
30	144	31.6	29.6
33		28.9	27.2



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

TITLE: YHS 50 FI ALUMINUM STOREFRONT SYSTEM - INSIDE GLAZED (WZ3) (IMPACT)

CORNER MULL TABLES

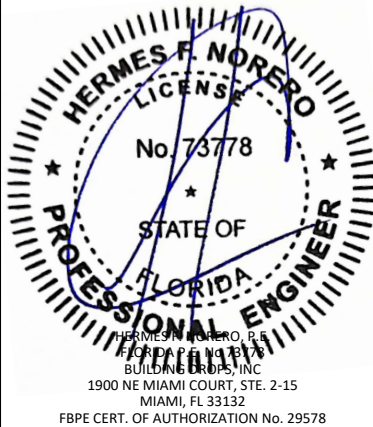
PREPARED BY: BUILDING DROPS, INC.

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ANCHOR UPDATE	SH	02.10.26
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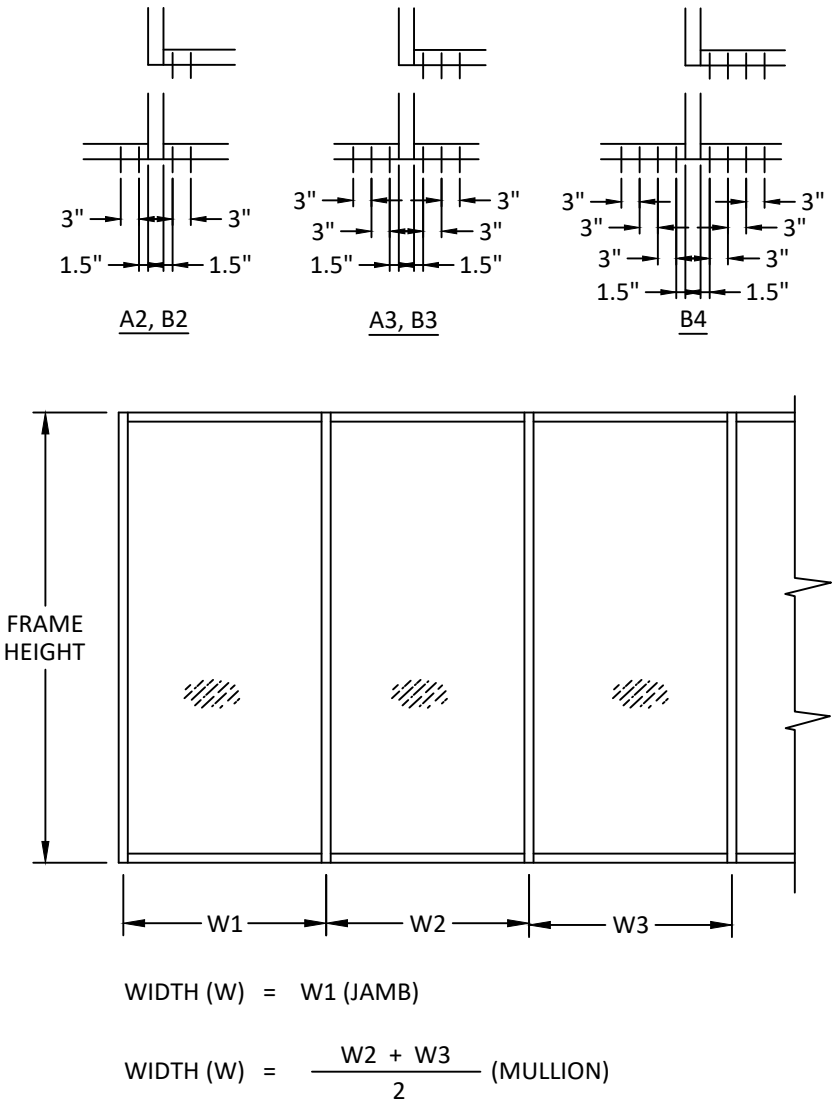
ANCHOR TYPE 'A & B' TABLES

ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT (-)						ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT (-)						ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT (-)						
NOMINAL DIMS. (IN)		ANCHOR TYPE 'A'		ANCHOR TYPE 'B'		NOMINAL DIMS. (IN)		ANCHOR TYPE 'A'		ANCHOR TYPE 'B'		NOMINAL DIMS. (IN)		ANCHOR TYPE 'A'		ANCHOR TYPE 'B'		
WIDTH (W)	FRAME HEIGHT	A2	A3	B2	B3	WIDTH (W)	FRAME HEIGHT	A2	A3	B2	B3	WIDTH (W)	FRAME HEIGHT	A2	A3	B2	B3	B4
30	72	90.0	90.0	90.0	90.0	30	90	90.0	90.0	90.0	90.0	30	108	90.0	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0	33		90.0	90.0	90.0	90.0	33		90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	36		90.0	90.0	90.0	90.0	36		90.0	90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0	39		90.0	90.0	90.0	90.0	39		90.0	90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0	42		90.0	90.0	90.0	90.0	42		90.0	90.0	90.0	90.0	90.0
45		90.0	90.0	90.0	90.0	45		90.0	90.0	90.0	90.0	45		90.0	90.0	87.4	90.0	90.0
48		90.0	90.0	90.0	90.0	48		90.0	90.0	90.0	90.0	48		90.0	90.0	81.9	90.0	90.0
51		90.0	90.0	90.0	90.0	51		90.0	90.0	90.0	90.0	51		90.0	90.0	77.1	90.0	90.0
54		90.0	90.0	90.0	90.0	54		90.0	90.0	87.4	90.0	54		85.2	90.0	72.8	90.0	90.0
57		90.0	90.0	90.0	90.0	57		90.0	90.0	82.8	90.0	57		80.7	90.0	69.0	90.0	90.0
60		90.0	90.0	90.0	90.0	60		90.0	90.0	78.6	90.0	60		76.7	90.0	65.5	90.0	90.0
63		90.0	90.0	90.0	90.0	63		87.6	90.0	74.9	90.0	63		73.0	90.0	62.4	90.0	90.0
66		90.0	90.0	89.4	90.0	66		83.6	90.0	71.5	90.0	66		69.7	90.0	59.6	89.4	90.0
69		90.0	90.0	85.5	90.0	69		80.0	90.0	68.4	90.0	69		30	90.0	90.0	90.0	90.0
72		90.0	90.0	81.9	90.0	72		76.7	90.0	65.5	90.0	72		33	90.0	90.0	90.0	90.0
30	78	90.0	90.0	90.0	90.0	30	96	90.0	90.0	90.0	90.0	30	114	90.0	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0	33		90.0	90.0	90.0	90.0	33		90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	36		90.0	90.0	90.0	90.0	36		90.0	90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0	39		90.0	90.0	90.0	90.0	39		90.0	90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0	42		90.0	90.0	90.0	90.0	42		90.0	90.0	88.7	90.0	90.0
45		90.0	90.0	90.0	90.0	45		90.0	90.0	90.0	90.0	45		90.0	90.0	82.8	90.0	90.0
48		90.0	90.0	90.0	90.0	48		90.0	90.0	90.0	90.0	48		90.0	90.0	77.6	90.0	90.0
51		90.0	90.0	90.0	90.0	51		90.0	90.0	90.0	90.0	51		85.4	90.0	73.0	90.0	90.0
54		90.0	90.0	90.0	90.0	54		90.0	90.0	90.0	90.0	54		80.7	90.0	69.0	90.0	90.0
57		90.0	90.0	90.0	90.0	57		90.0	90.0	86.7	90.0	57		76.5	90.0	65.3	90.0	90.0
60		90.0	90.0	90.0	90.0	60		90.0	90.0	81.9	90.0	60		72.6	90.0	62.1	90.0	90.0
63		90.0	90.0	86.4	90.0	63		90.0	90.0	77.6	90.0	63		69.2	90.0	59.1	88.7	90.0
66		90.0	90.0	82.5	90.0	66		86.3	90.0	73.7	90.0	66		30	90.0	90.0	90.0	90.0
69		90.0	90.0	78.9	90.0	69		82.1	90.0	70.2	90.0	69		33	90.0	90.0	90.0	90.0
72		88.5	90.0	75.6	90.0	72		78.4	90.0	67.0	90.0	72		36	90.0	90.0	90.0	90.0
30	84	90.0	90.0	90.0	90.0	30	102	90.0	90.0	90.0	90.0	30	120	90.0	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0	33		90.0	90.0	90.0	90.0	33		90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	36		90.0	90.0	90.0	90.0	36		90.0	90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0	39		90.0	90.0	90.0	90.0	39		90.0	90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0	42		90.0	90.0	90.0	90.0	42		90.0	90.0	90.0	90.0	90.0
45		90.0	90.0	90.0	90.0	45		90.0	90.0	90.0	90.0	45		90.0	90.0	90.0	90.0	90.0
48		90.0	90.0	90.0	90.0	48		90.0	90.0	90.0	90.0	48		90.0	90.0	90.0	90.0	90.0
51		90.0	90.0	90.0	90.0	51		90.0	90.0	86.7	90.0	51		90.0	90.0	90.0	90.0	90.0
54		90.0	90.0	90.0	90.0	54		90.0	90.0	81.6	90.0	54		90.0	90.0	90.0	90.0	90.0
57		90.0	90.0	88.7	90.0	57		90.0	90.0	77.1	90.0	57		90.0	90.0	90.0	90.0	90.0
60		90.0	90.0	84.3	90.0	60		90.0	90.0	73.0	90.0	60		90.0	90.0	90.0	90.0	90.0
63		90.0	90.0	80.2	90.0	63		90.0	90.0	69.4	90.0	63		90.0	90.0	90.0	90.0	90.0
66		89.6	90.0	76.6	90.0	66		90.0	90.0	66.1	90.0	66		90.0	90.0	90.0	90.0	90.0
69		85.7	90.0	73.3	90.0	69		90.0	90.0	63.1	90.0	69		90.0	90.0	90.0	90.0	90.0
72		82.1	90.0	70.2	90.0	72		90.0	90.0	60.3	90.0	72		90.0	90.0	90.0	90.0	90.0

ANCHORS TYPES: SEE SHEET 14 FOR DESCRIPTION

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

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION



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

TITLE:
YHS 50 FL ALUMINUM STOREFRONT
SYSTEM - INSIDE GLAZED
(WZ3) (IMPACT)

TYPE A & B ANCHOR TABLES

PREPARED BY:

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ANCHOR UPDATE	SH	02.10.26
2026 CODE UPDATE	SH	07.28.26

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HERMES F. NORERO
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No. 73778
STATE OF
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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**

SCALE: **NTS**

DWG. #: **YKK165**

SHEET: **11** REV. **D**

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		83.7	90.0	90.0	58.2	87.3	90.0	90.0	90.0	
33	132	76.1	90.0	90.0	52.9	79.3	90.0	90.0	90.0	
36		69.7	90.0	90.0	48.5	72.7	90.0	90.0	90.0	
39		64.4	90.0	90.0	44.8	67.1	89.5	90.0	90.0	
30	138	80.1	90.0	90.0	55.7	83.5	90.0	90.0	90.0	
33		72.8	90.0	90.0	50.6	75.9	90.0	90.0	90.0	
36		66.7	90.0	90.0	46.4	69.6	90.0	90.0	90.0	
37		64.9	90.0	90.0	45.1	67.7	90.0	90.0	90.0	
30	144	76.7	90.0	90.0	53.3	80.0	90.0	90.0	90.0	
33		69.7	90.0	90.0	48.5	72.7	90.0	90.0	90.0	
36		63.9	90.0	90.0	44.4	66.7	88.9	90.0	90.0	

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ANCHOR TYPE 'E' TABLES

ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT (-)							
NOMINAL DIMS. (IN)		ANCHOR TYPE 'E'					
WIDTH (W)	FRAME HEIGHT	E2	E3	E4	E5	E6	E7
30	72	77.2	90.0	90.0	90.0	90.0	90.0
33		70.2	90.0	90.0	90.0	90.0	90.0
36		64.4	90.0	90.0	90.0	90.0	90.0
39		59.4	89.1	90.0	90.0	90.0	90.0
42		55.2	82.7	90.0	90.0	90.0	90.0
45		51.5	77.2	90.0	90.0	90.0	90.0
48		48.3	72.4	90.0	90.0	90.0	90.0
51		45.4	68.1	90.0	90.0	90.0	90.0
54		42.9	64.4	85.8	90.0	90.0	90.0
57		40.6	61.0	81.3	90.0	90.0	90.0
60		38.6	57.9	77.2	90.0	90.0	90.0
63		36.8	55.2	73.5	90.0	90.0	90.0
66		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	78	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		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	84	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		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

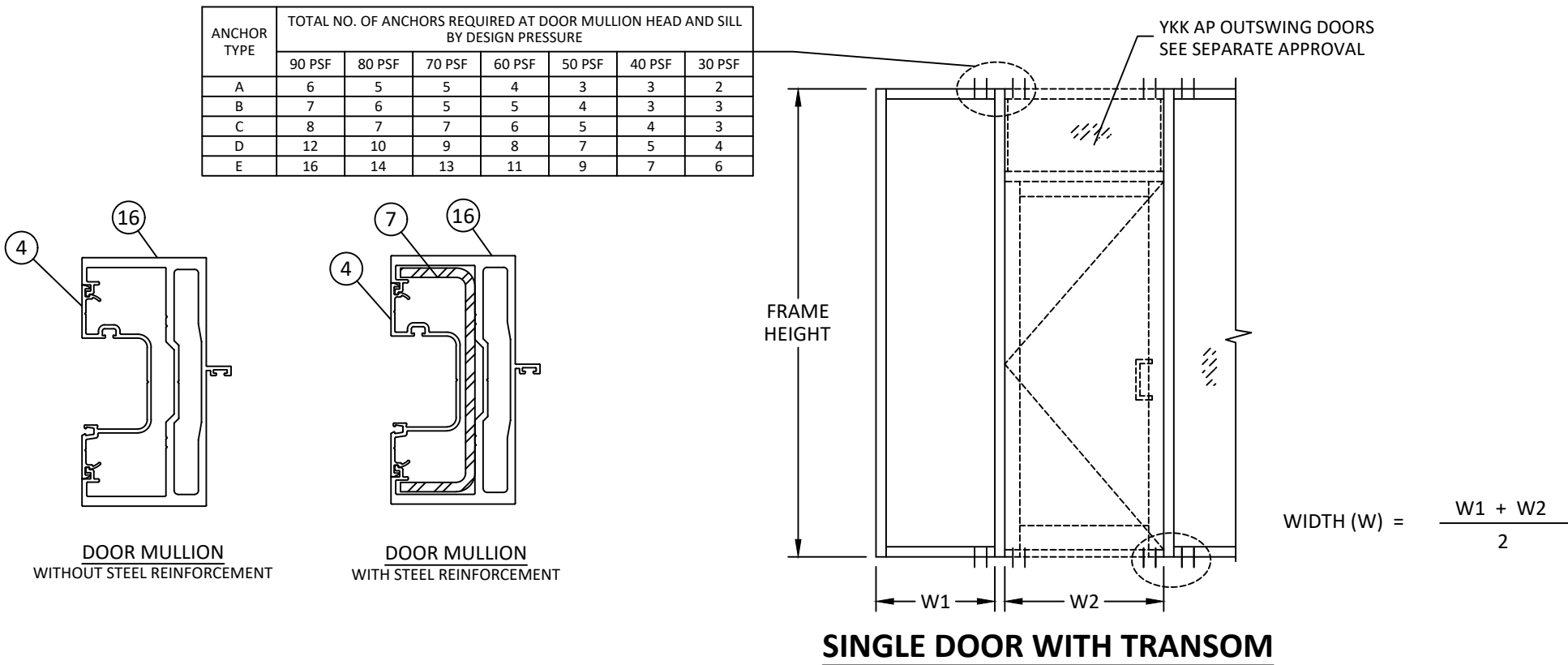
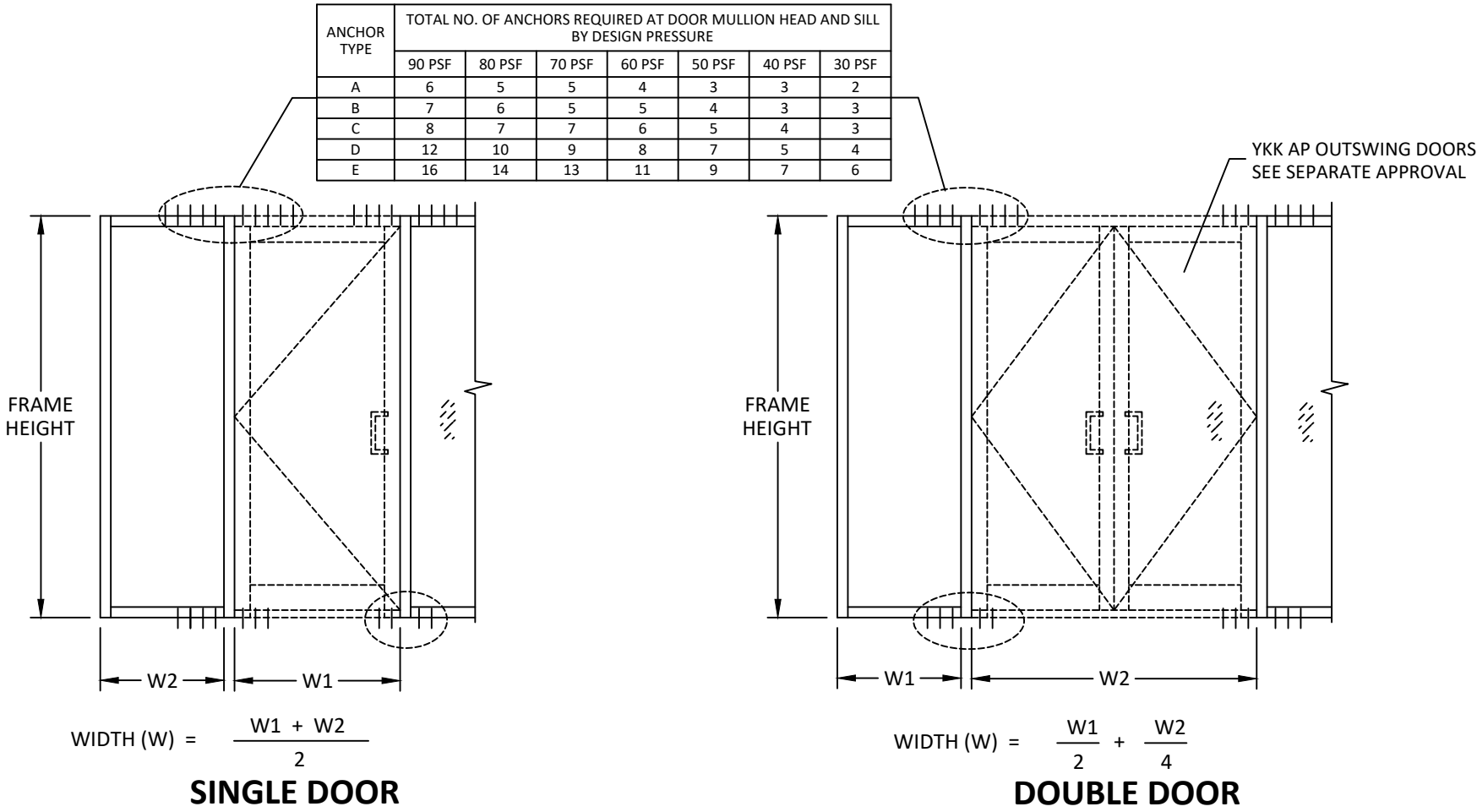
ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT (-)							
NOMINAL DIMS. (IN)		ANCHOR TYPE 'E'					
WIDTH (W)	FRAME HEIGHT	E2	E3	E4	E5	E6	E7
30	90	61.8	90.0	90.0	90.0	90.0	90.0
33		56.2	84.2	90.0	90.0	90.0	90.0
36		51.5	77.2	90.0	90.0	90.0	90.0
39		47.5	71.3	90.0	90.0	90.0	90.0
42		44.1	66.2	88.3	90.0	90.0	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		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	96	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		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	102	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		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
72		22.6	34.1	45.4	57.4	68.1	81.8

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		23.4	35.1	46.8	58.5	70.2	81.9	
30	114	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		23.2	34.8	46.5	58.1	69.7	81.3	
30		120	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	

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





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101 MARIETTA STREET NW, SUITE 2100
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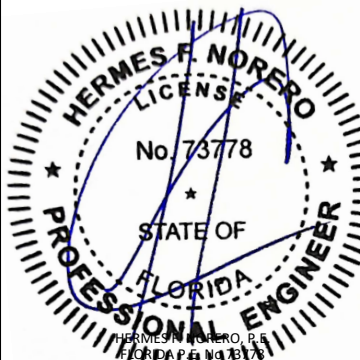
TITLE:
YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - INSIDE GLAZED
(WZ3) (IMPACT)
DOOR MULLION TABLES

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

**BUILDING DROPS**

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

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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. #: **YKK165**

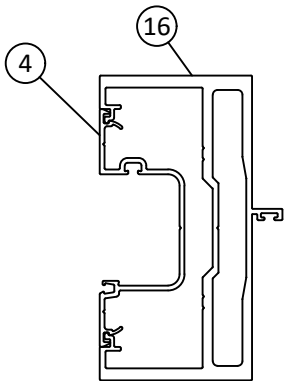
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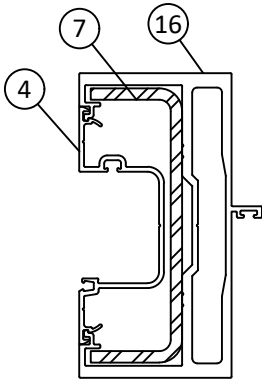
DOOR MULLION LOAD & ANCHOR TABLES

DOOR MULLION LOAD CAPACITY (PSF)						
NOMINAL DIMS.			WITHOUT STEEL REINF.		WITH STEEL REINF.	
FRAME HEIGHT (IN.)	DOOR PANEL WIDTH - W1 (IN.)	SIDELITE WIDTH - W2 (IN.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
96	36	30	70.0	70.0	70.0	90.0
		36	70.0	70.0	70.0	90.0
		42	70.0	70.0	70.0	90.0
		48	70.0	70.0	70.0	90.0
	42	30	70.0	70.0	70.0	90.0
		36	70.0	70.0	70.0	90.0
		42	70.0	70.0	70.0	90.0
		48	70.0	70.0	70.0	90.0
	48	30	70.0	70.0	70.0	90.0
		36	70.0	70.0	70.0	90.0
		42	70.0	70.0	70.0	90.0
		48	70.0	70.0	70.0	90.0
102	36	30	70.0	70.0	70.0	90.0
		36	70.0	70.0	70.0	90.0
		42	70.0	70.0	70.0	90.0
		48	70.0	70.0	70.0	90.0
	42	30	70.0	70.0	70.0	90.0
		36	70.0	70.0	70.0	90.0
		42	70.0	70.0	70.0	90.0
		48	70.0	70.0	70.0	90.0
	48	30	70.0	70.0	70.0	90.0
		36	70.0	70.0	70.0	90.0
		42	70.0	70.0	70.0	90.0
		48	70.0	70.0	70.0	90.0
108	36	30	70.0	70.0	70.0	90.0
		36	70.0	70.0	70.0	90.0
		42	70.0	70.0	70.0	90.0
		48	70.0	70.0	70.0	90.0
	42	30	70.0	70.0	70.0	90.0
		36	70.0	70.0	70.0	90.0
		42	70.0	70.0	70.0	90.0
		48	70.0	70.0	70.0	90.0
	48	30	70.0	70.0	70.0	90.0
		36	70.0	70.0	70.0	90.0
		42	70.0	70.0	70.0	90.0
		48	57.1	57.1	70.0	90.0
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.			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
	36	30	57.1	57.1	70.0	90.0
		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
132	42	30	52.8	52.8	64.7	83.2
		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
	48	30	48.0	48.0	58.8	75.6
		32	47.3	47.3	57.9	74.5
	36	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
		48	44.0	44.0	53.9	69.4
138	42	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
		26	43.3	43.3	53.1	68.3
144	36	30	45.2	45.2	55.5	71.3
		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

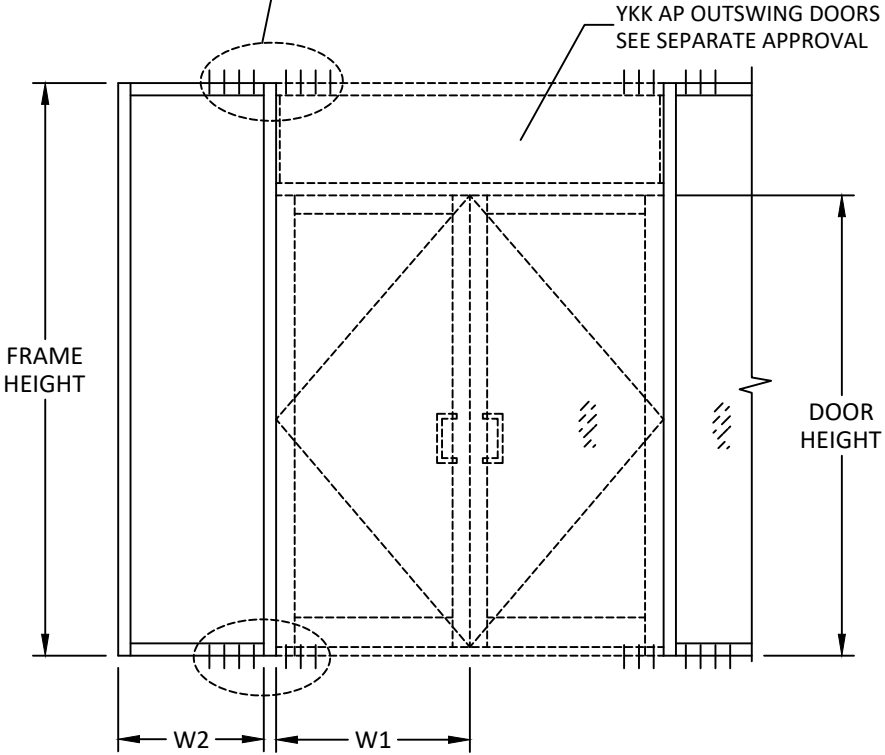


DOOR MULLION
WITHOUT STEEL REINFORCEMENT



DOOR MULLION
WITH STEEL REINFORCEMENT

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



DOUBLE DOOR WITH TRANSOM



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

TITLE: YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - INSIDE GLAZED
(WZ3) (IMPACT)

DOOR MULLION TABLES

PREPARED BY: BUILDING DROPS, INC.

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

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WEB: www.buildingdrops.com



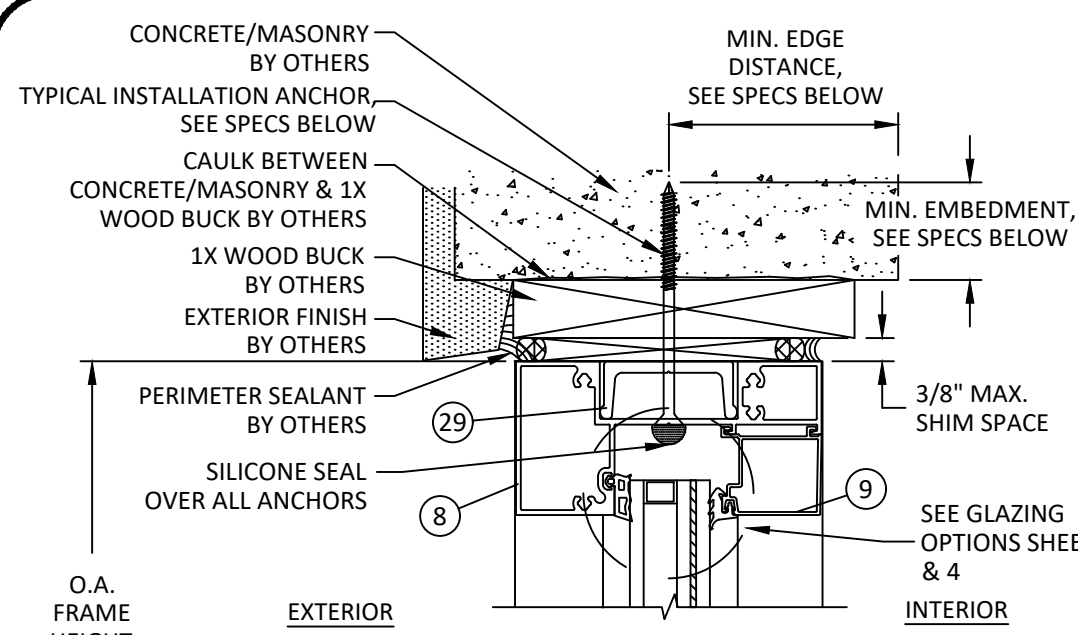
REMARKS	BY	DATE
FBC CODE UPDATE	RV	07.12.17
MISC. UPDATES	SH	12.14.22
ANCHOR UPDATE	SH	02.10.26
2026 CODE UPDATE	SH	07.28.26

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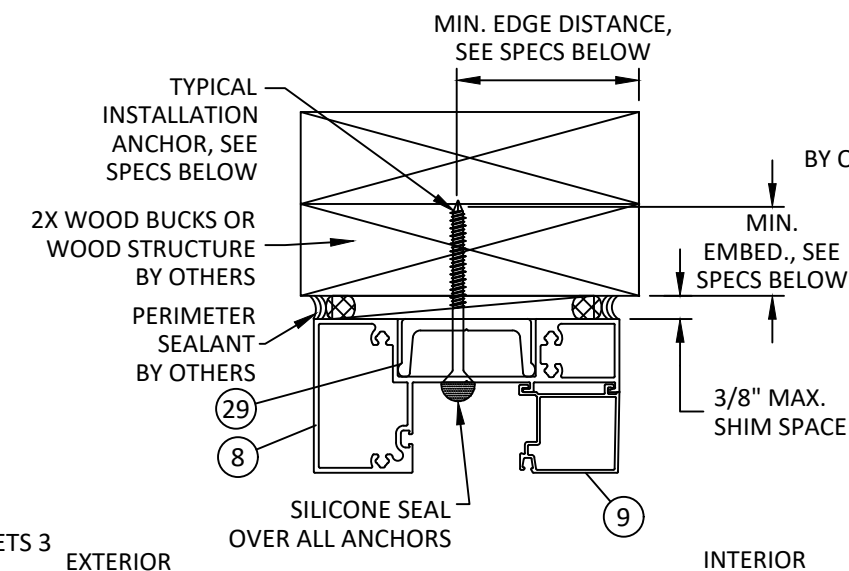


FL #:	FL14218
DATE:	01.28.16
DWG. BY:	SM
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK165
SHEET:	14
REV.	D

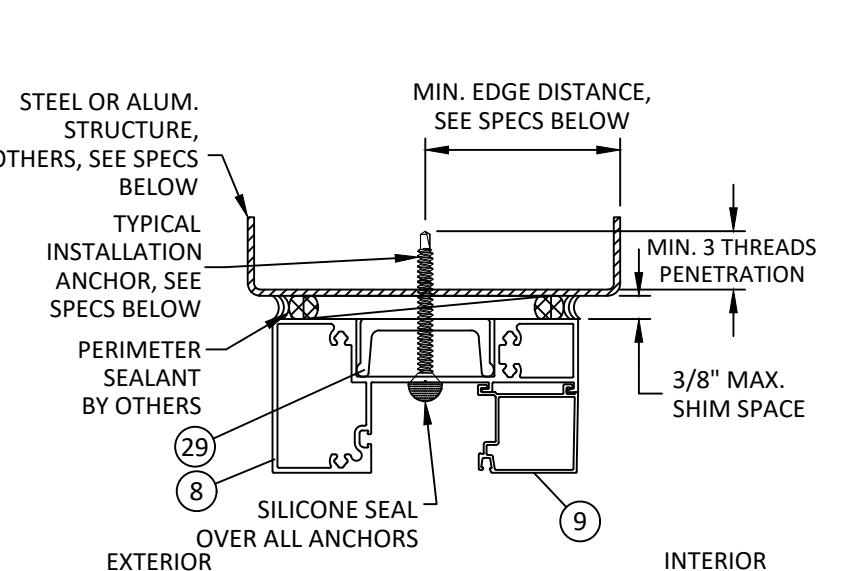
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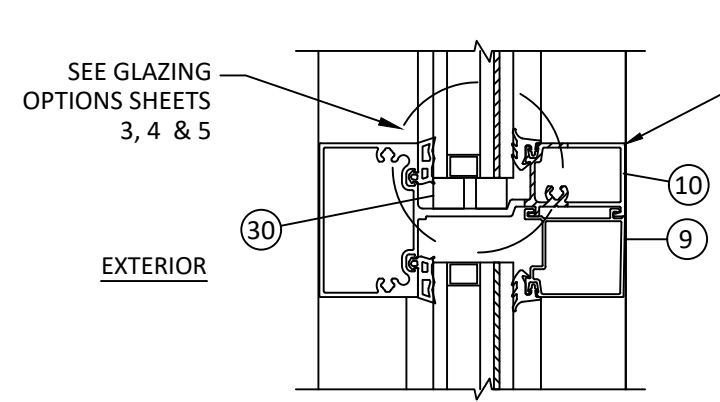
A
15 VERTICAL SECTION
HEAD - CONCRETE/MASONRY W/ 1X BUCK



D
15 VERTICAL SECTION
HEAD - WOOD FRAMING
TYPICAL INSTALLATION



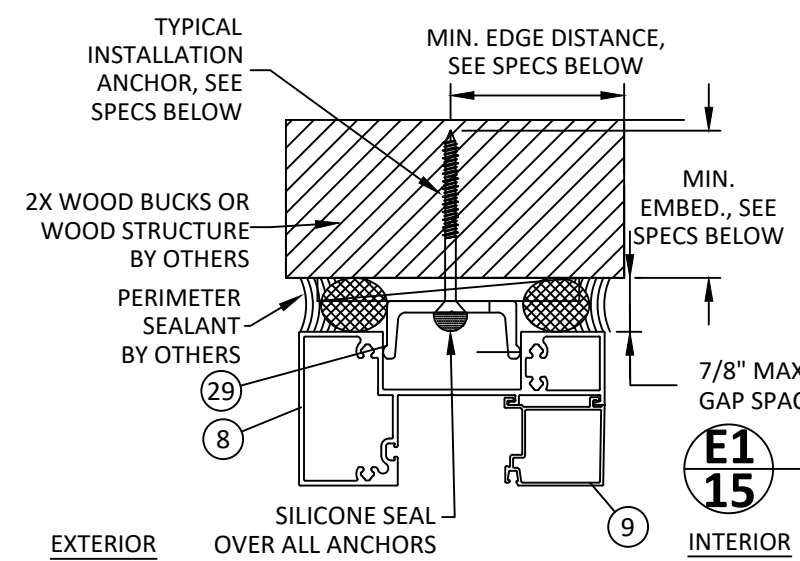
E
15 VERTICAL SECTION
HEAD - METAL SUBSTRATE
TYPICAL INSTALLATION



B
15 VERTICAL SECTION
HORIZONTAL MEMBER

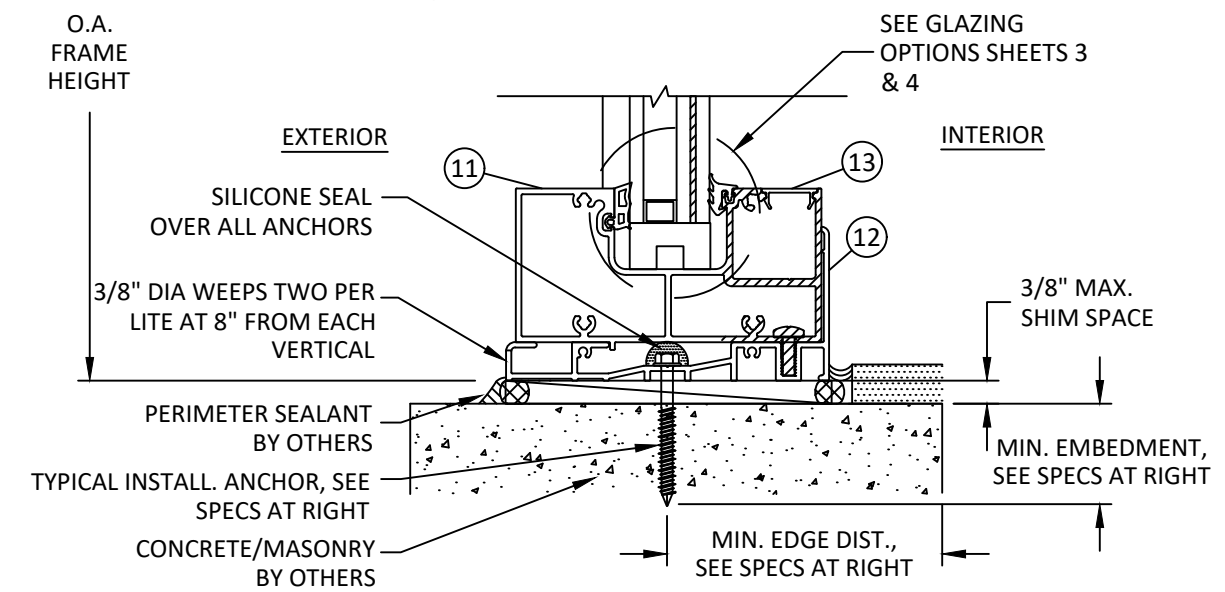
LIMIT DESIGN LOADS FOR HORIZONTAL AS FOLLOWS		
MAX HORIZ. SPAN	MAX GLASS HEIGHT ABOVE HORIZ.	MAX DESIGN LOADS
60"	55-15/16"	65 PSF
60"	84"	52 PSF
66"	55-15/16"	44 PSF
66"	84"	32 PSF
72"	55-15/16"	30 PSF
72"	84"	20 PSF

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.



E1
15 VERTICAL SECTION
HEAD - OPTIONAL
FLOATING HEAD ANCHOR

LIMIT MAX DESIGN FOR HORIZONTALS WITH MAX GAP SPACE 7/8" AS FOLLOWS		
MAX TRIB. WIDTH	MAX VERTICAL SPAN	MAX DESIGN LOADS
78	102	70
72	108	75
66	114	77
60	120	80
54	126	85
48	132	90



C
15 VERTICAL SECTION
SILL - DIRECT TO CONCRETE/MASONRY

YHS 50 FI ANCHOR SCHEDULE				
ANCHOR TYPE	ANCHOR DESCRIPTION	SUBSTRATE REQUIREMENTS	MIN. EMBEDMENT	MIN. EDGE DISTANCE
A	5/16" DEWALT 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"
	1/4" ITW TAPCON	CONCRETE MIN. F'C = 3000 PSI	1-3/4"	1-1/2"
	1/4" DEWALT ULTRAICON+	GROUT-FILLED BLOCK PER C-90, MIN. F'C = 2000 PSI	1-3/4"	1-1/2"
D	5/16" DEWALT ULTRAICON		1-3/4"	2-1/2"
	1/4" DEWALT TAPPER+	WOOD MIN. S.G. = 0.55	1-1/2"	3"
E	1/4" DEWALT ULTRAICON+	CONCRETE MIN. F'C = 3000 PSI	1-1/2"	1"
	1/4" DEWALT TAPPER+	GROUT-FILLED BLOCK PER C-90, MIN. F'C = 2000 PSI	1-3/4"	1-3/4"
	1/4" DEWALT ULTRAICON+		1-3/4"	1-1/2"
	1/4" ITW TAPCON	WOOD MIN. S.G. = 0.55	1"	2"

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 - INSIDE GLAZED (WZ3) (IMPACT)

VERTICAL SECTIONS & ANCHOR DESCRIPTIONS

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

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

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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
-----------------------	------------------------

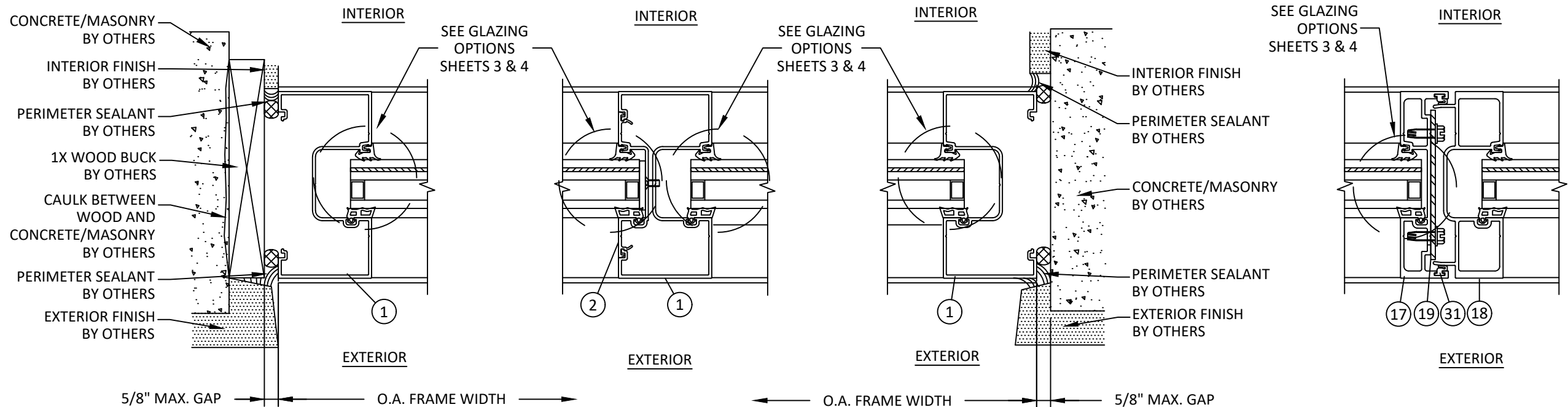
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DWG. #: **YKK165**

SHEET:	REV.
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[Page 16 of 21]

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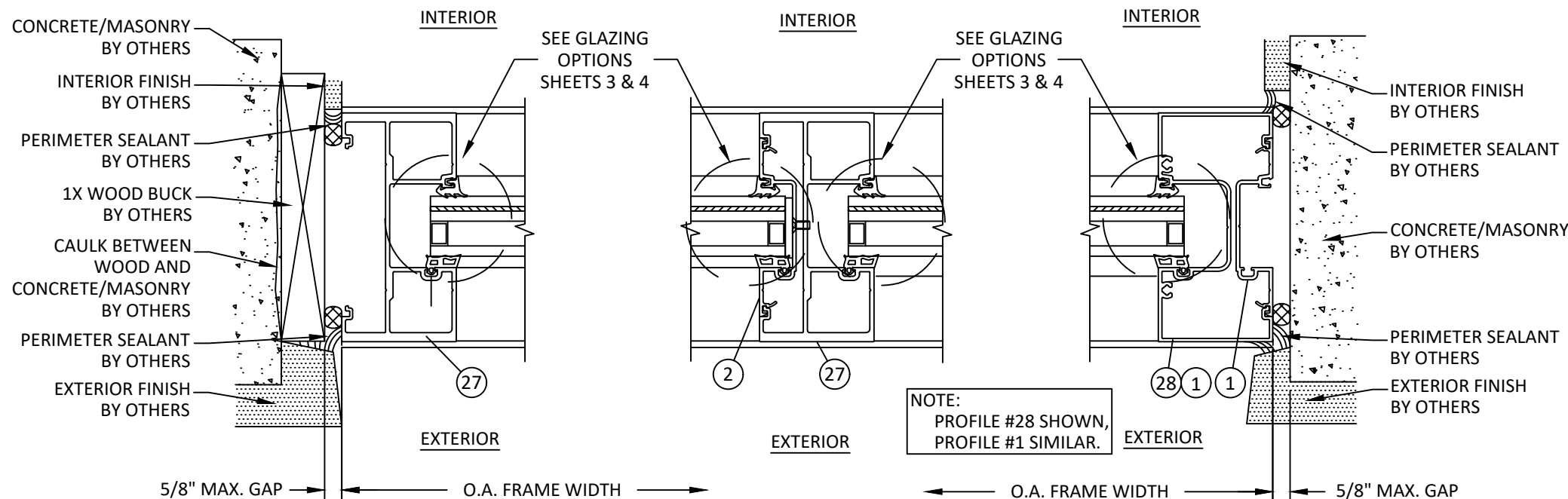


F **HORIZONTAL SECTION**
16 JAMB - CONCRETE/MASONRY W/ 1X BUCK
LIGHT CONFIGURATION

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

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

I **HORIZONTAL SECTION**
16 VERTICAL EXPANSION MULLION



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

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

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



YKK AP AMERICA, INC.
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
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TITLE: YHS 50 FL ALUMINUM STOREFRONT
SYSTEM - INSIDE GLAZED
(WZ3) (IMPACT)

HORIZONTAL SECTIONS

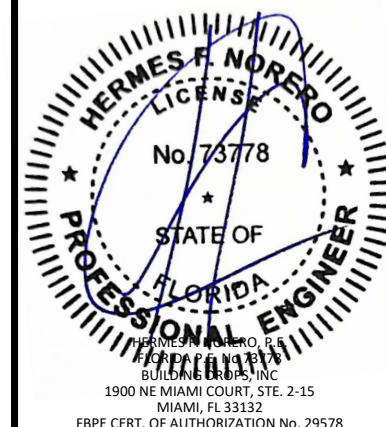
PREPARED BY: BUILDING DROPS, INC.

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



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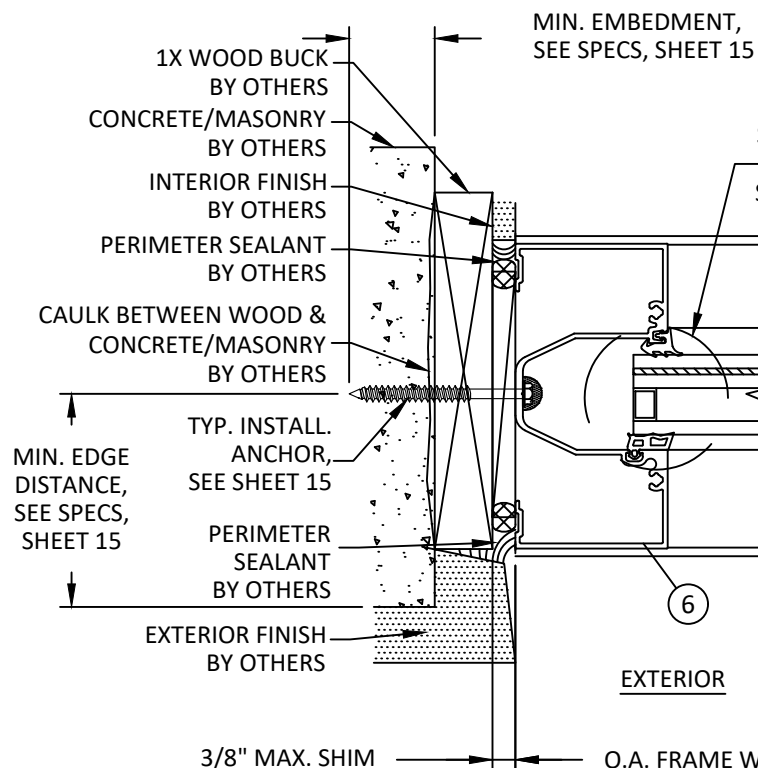
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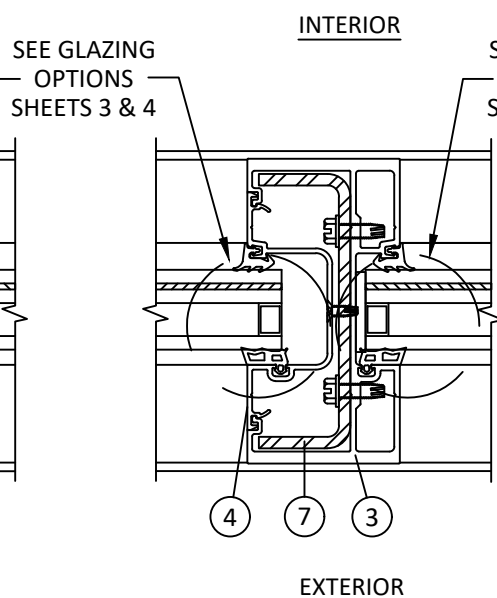
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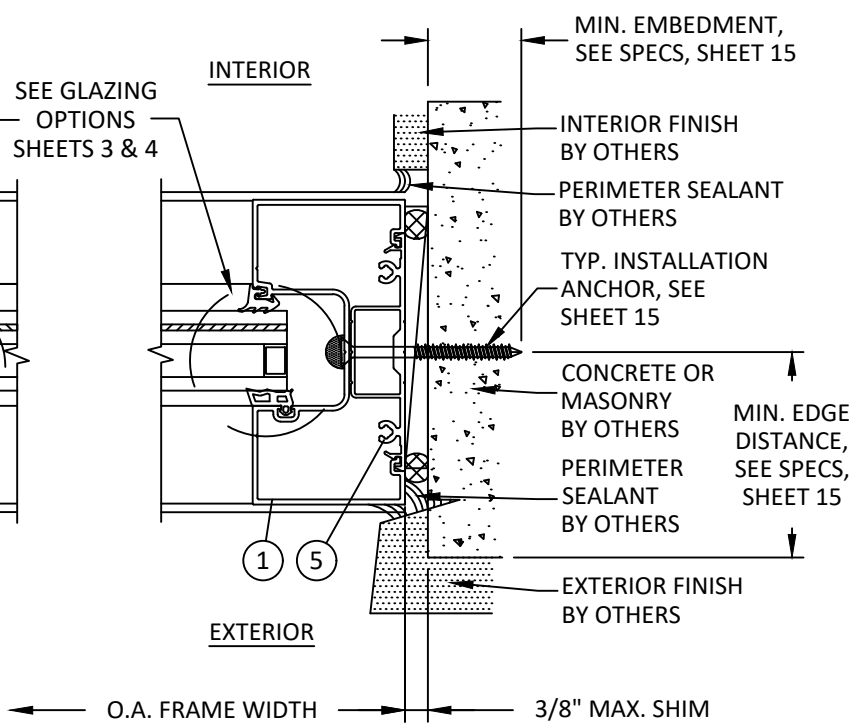
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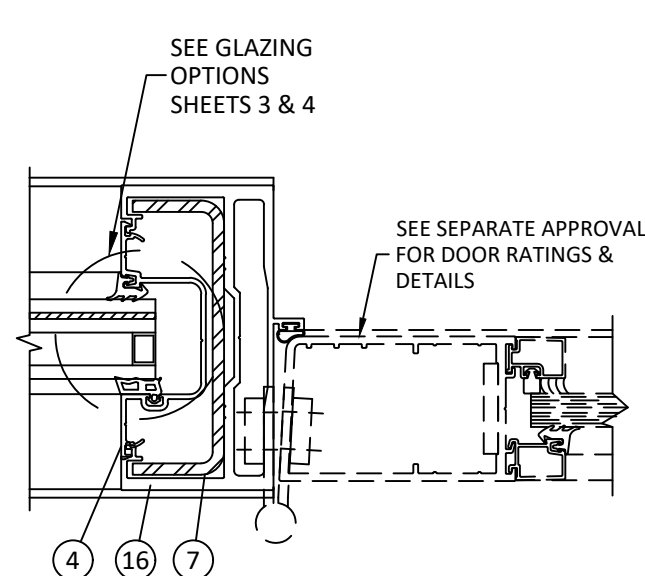
M HORIZONTAL SECTION
17 JAMB - CONCRETE/MASONRY W/ 1X BUCK
HEAVY CONFIGURATION



N HORIZONTAL SECTION
17 VERTICAL MULLION
HEAVY CONFIGURATION

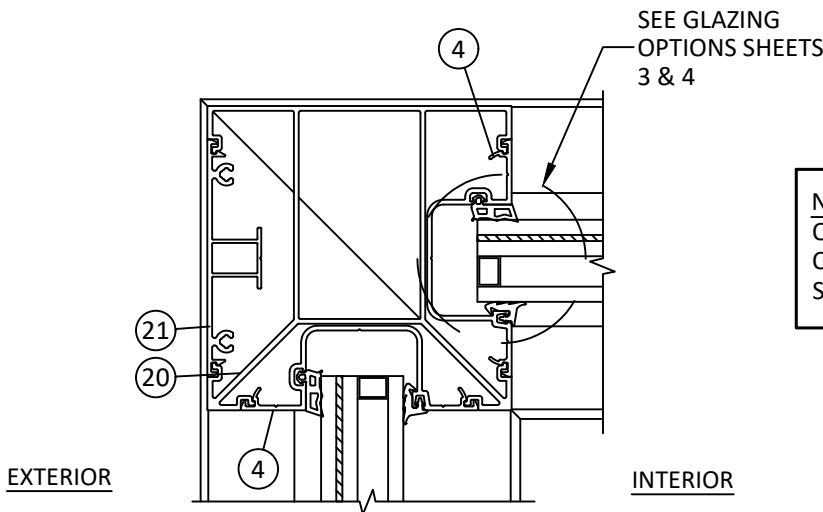


O HORIZONTAL SECTION
17 JAMB - DIRECT TO CONCRETE/MASONRY
HEAVY CONFIGURATION



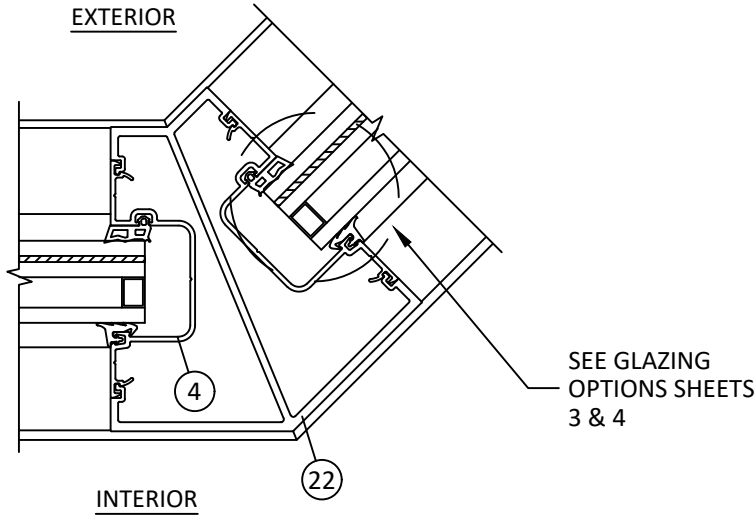
P HORIZONTAL SECTION
17 DOOR JAMB MULLION

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

Q
18 **HORIZONTAL SECTION**
90 DEGREE CORNER MULLION



R
18 **HORIZONTAL SECTION**
135 DEGREE CORNER MULLION



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SYSTEM - INSIDE GLAZED
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HORIZONTAL SECTIONS

PREPARED BY:



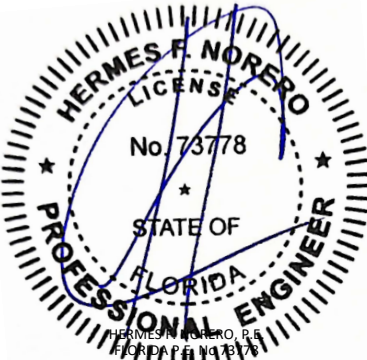
BUILDING DROPS

BUILDING DROPS, INC.

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18

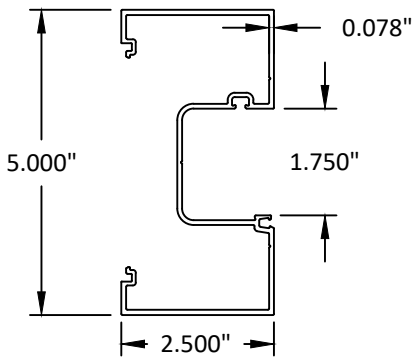
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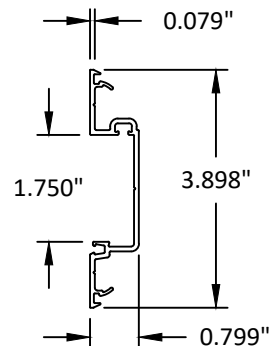
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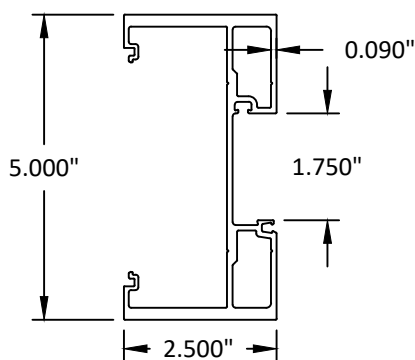
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1	E9-0663	JAMB / VERTICAL	6063-T5
2	E9-0655	SHALLOW POCKET FILLER	6063-T5
3	E9-0665	HEAVY DUTY VERTICAL	6063-T5
4	E9-0656	DEEP POCKET FILLER	6063-T5
5	E1-1068	FLAT FILLER AT PERIMETER ANCHOR	6063-T5
6	E9-0662	HEAD / JAMB	6063-T5
7	E1-1062	STEEL CHANNEL (1-1/2" X 4-1/2" X 3/16")	A36 STEEL
8	E9-7976	HEAD	6063-T5
9	E9-0658	GLASS STOP	6063-T5
10	E9-0653	HORIZONTAL	6063-T5
11	E9-7977	SILL	6063-T5
12	E9-7993	SILL FLASHING	6063-T5
13	E9-8647	SILL HOLE SNAP COVER	6063-T5
16	E9-0504	DOOR JAMB O/P	6063-T6
17	E9-0688	EXPANSION MULLION (FEMALE)	6063-T6
18	E9-0689	EXPANSION MULLION (MALE)	6063-T6
19	E1-0165	STEEL REINFORCEMENT BAR (4" X 1/8")	STEEL
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	E9-0651	HEAD / JAMB / VERTICAL	6063-T6
29	E9-8650	HEAD ANCHOR	6063-T5
30	E2-0019	SETTING BLOCK (MONO)	EPDM (85±5)
31	K2-2441	WEATHERING GASKET	EPDM



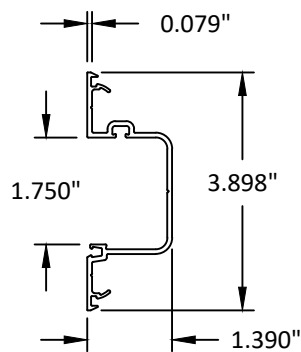
1 JAMB/VERTICAL



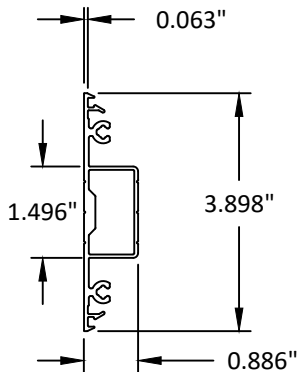
2 SHALLOW POCKET FILLER



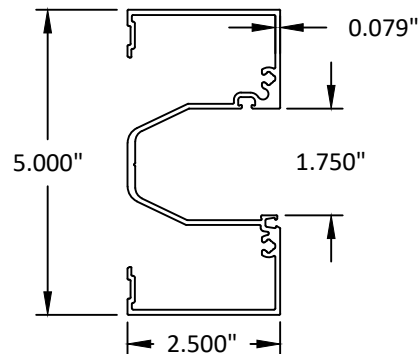
3 HEAVY DUTY VERTICAL



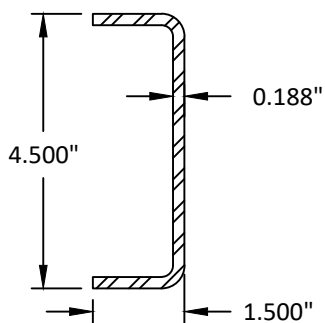
4 DEEP POCKET FILLER



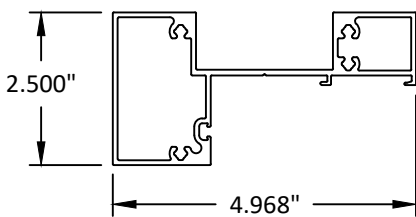
5 FLAT FILLER AT PERIMETER ANCHOR



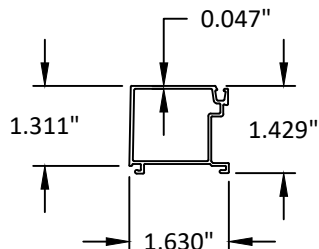
6 HEAD/JAMB



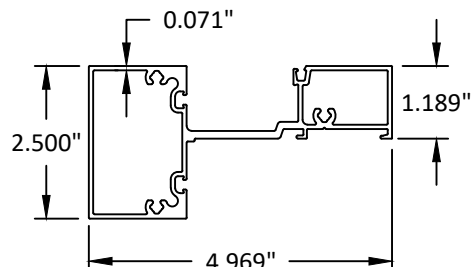
7 STEEL CHANNEL (1-1/2" X 4-1/2" X 3/16")



8 HEAD



9 GLASS STOP



10 HORIZONTAL



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

TITLE:
YHS 50 FI ALUMINUM STOREFRONT
SYSTEM - INSIDE GLAZED
(WZ3) (IMPACT)

COMPONENTS & BILL OF MATERIALS

PREPARED BY:

BUILDING DROPS, INC.

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

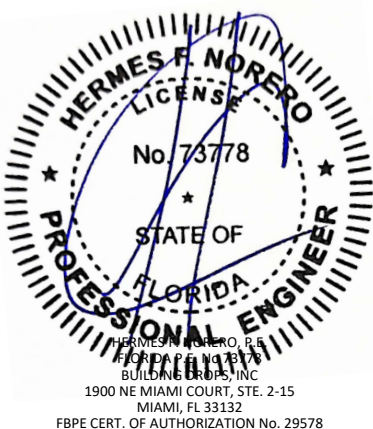
PH: (954) 399-8478
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HFN

SCALE: NTS

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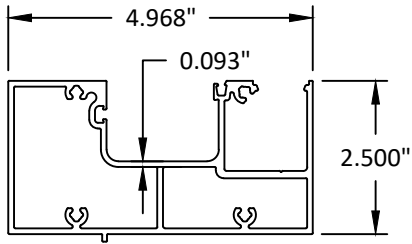
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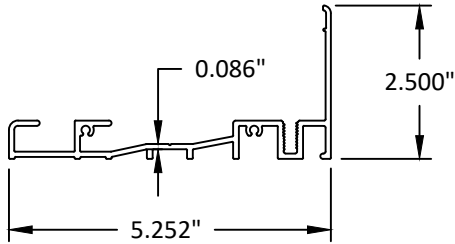
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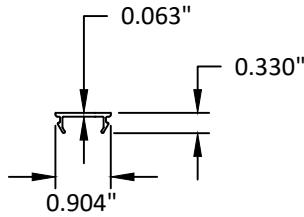
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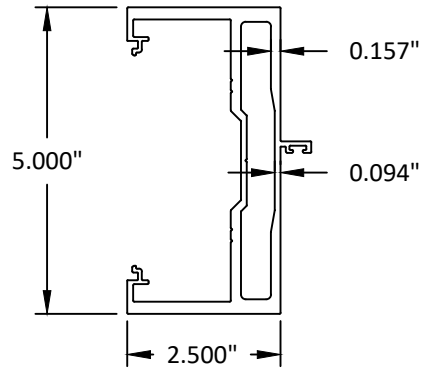
11 SILL



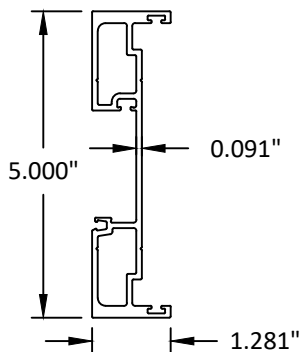
12 SILL FLASHING



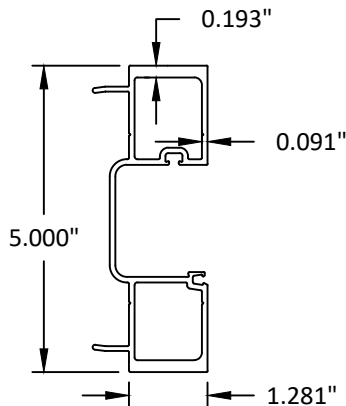
13 SILL HOLE SNAP COVER



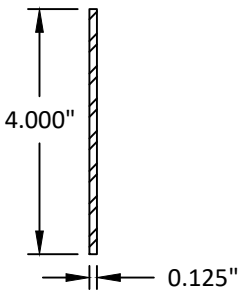
16 DOOR JAMB O/P



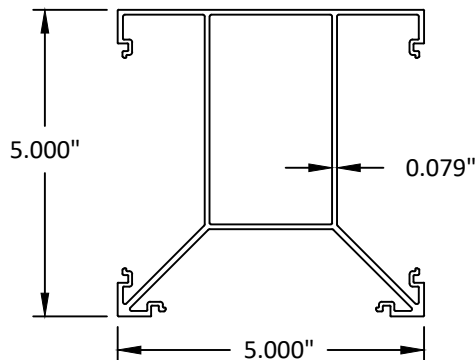
17 EXPANSION MULLION (FEMALE)



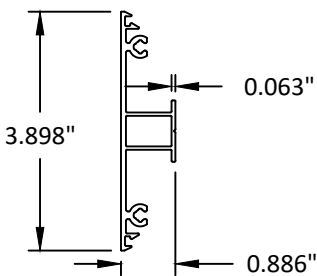
18 EXPANSION MULLION (MALE)



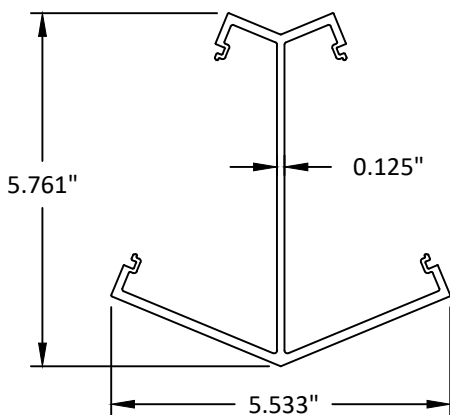
19 STEEL REINFORCEMENT BAR



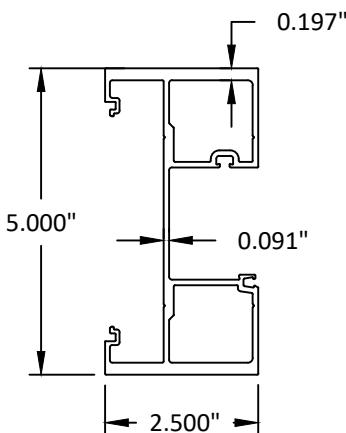
20 90° CORNER MULLION



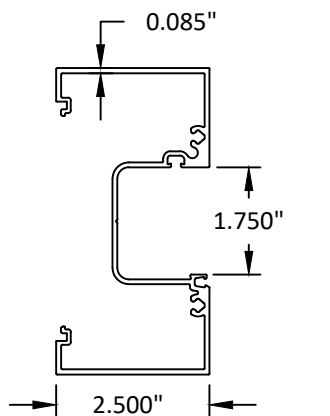
21 90 DEGREE CORNER MULL FILLER



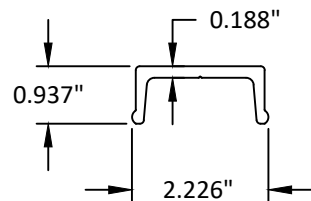
22 135 DEGREE CORNER MULLION



27 HEAVY DUTY MULLION



28 HEAD/JAMB/VERTICAL



29 HEAD ANCHOR



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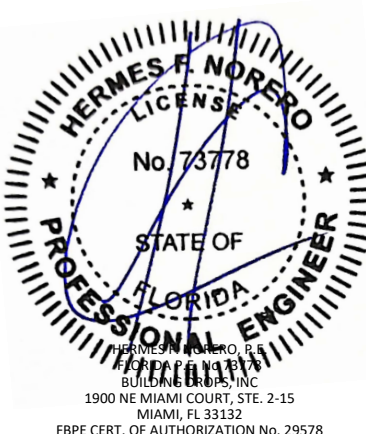
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REV. D