

YKK AP AMERICA, INC.

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

INSTALLATION NOTES:

- SEE SHEET 10 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 ZONE 3 OR LESS. SEE SHEETS 3 & 4 FOR LMI AND SMI GLASS TYPES.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4.
- 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, BUILDING HEIGHT, WIND ZONE, AND RISK CATEGORY 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 SHEET 5 FOR STORE FRONT MULLION AND SHEETS 8 & 9 FOR DOOR MULLION, THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- USING CHART ON SHEETS 6, 7, & 7A SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- THE LOWEST VALUE RESULTING FROM STEPS 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 TU ALUMINUM STOREFRONT SYSTEM - OUTSIDE GLAZED (WZ3) (IMPACT)

INSTALLATION & GENERAL NOTES

PREPARED BY: BUILDING DROPS, INC.

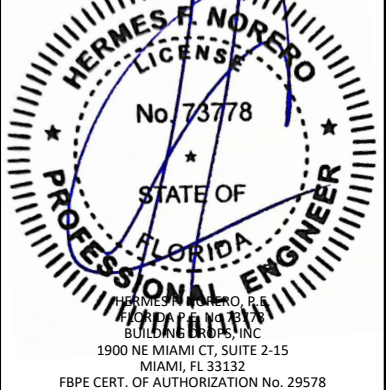
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
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REMARKS	BY	DATE
MISC. UPDATES	SH	12.15.22
PROFILE UPDATE	SH	07.03.24
ANCHOR UPDATE	SH	02.11.26
2026 CODE UPDATE	SH	07.28.26

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: 2026.08.08 16:28:16 -04'00'



FL #:
FL14218

DATE: **01.28.16**

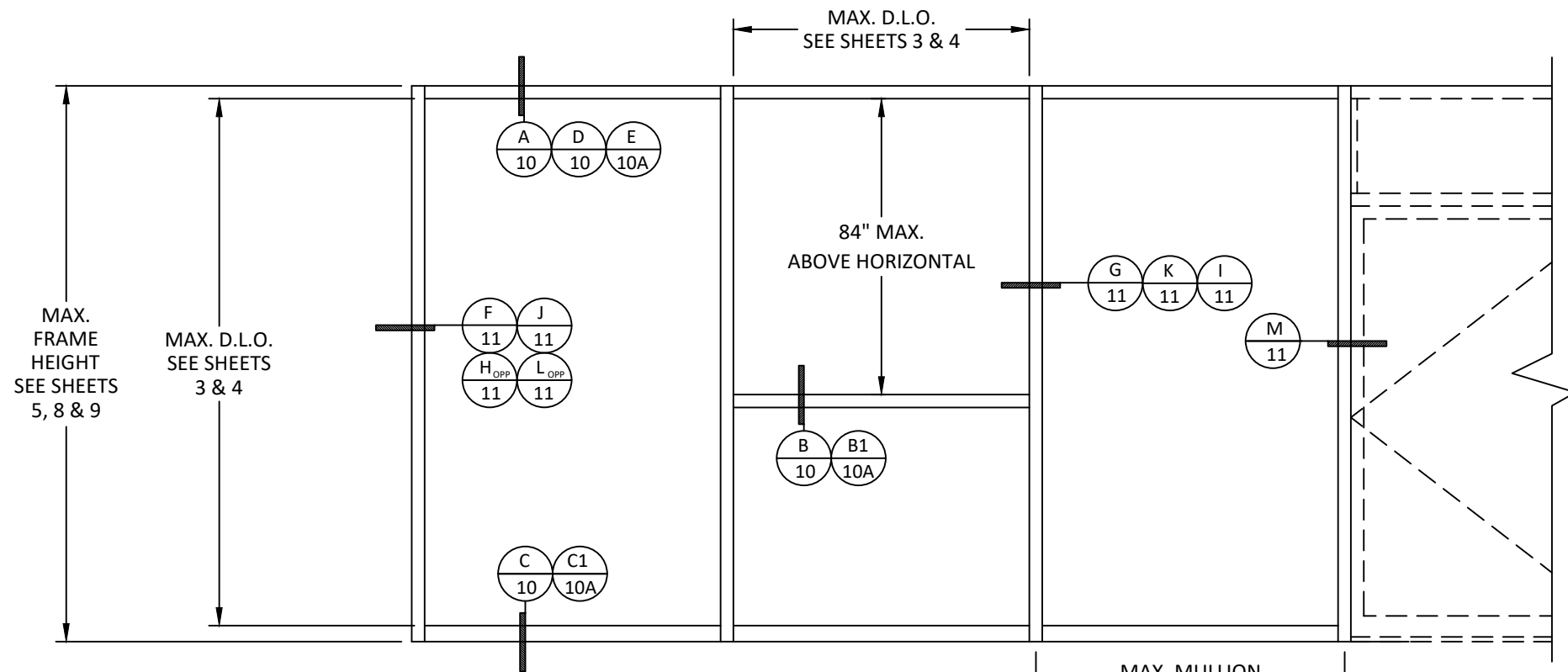
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SCALE: **NTS**

DWG. #: **YKK166**

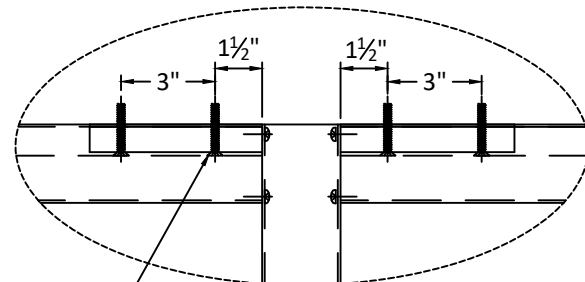
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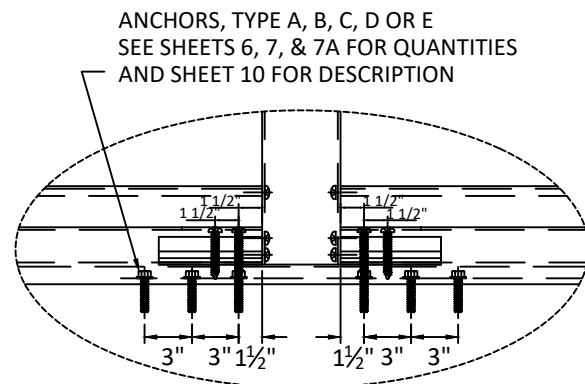


ELEVATION
TYPICAL YHS 50 TU STOREFRONT

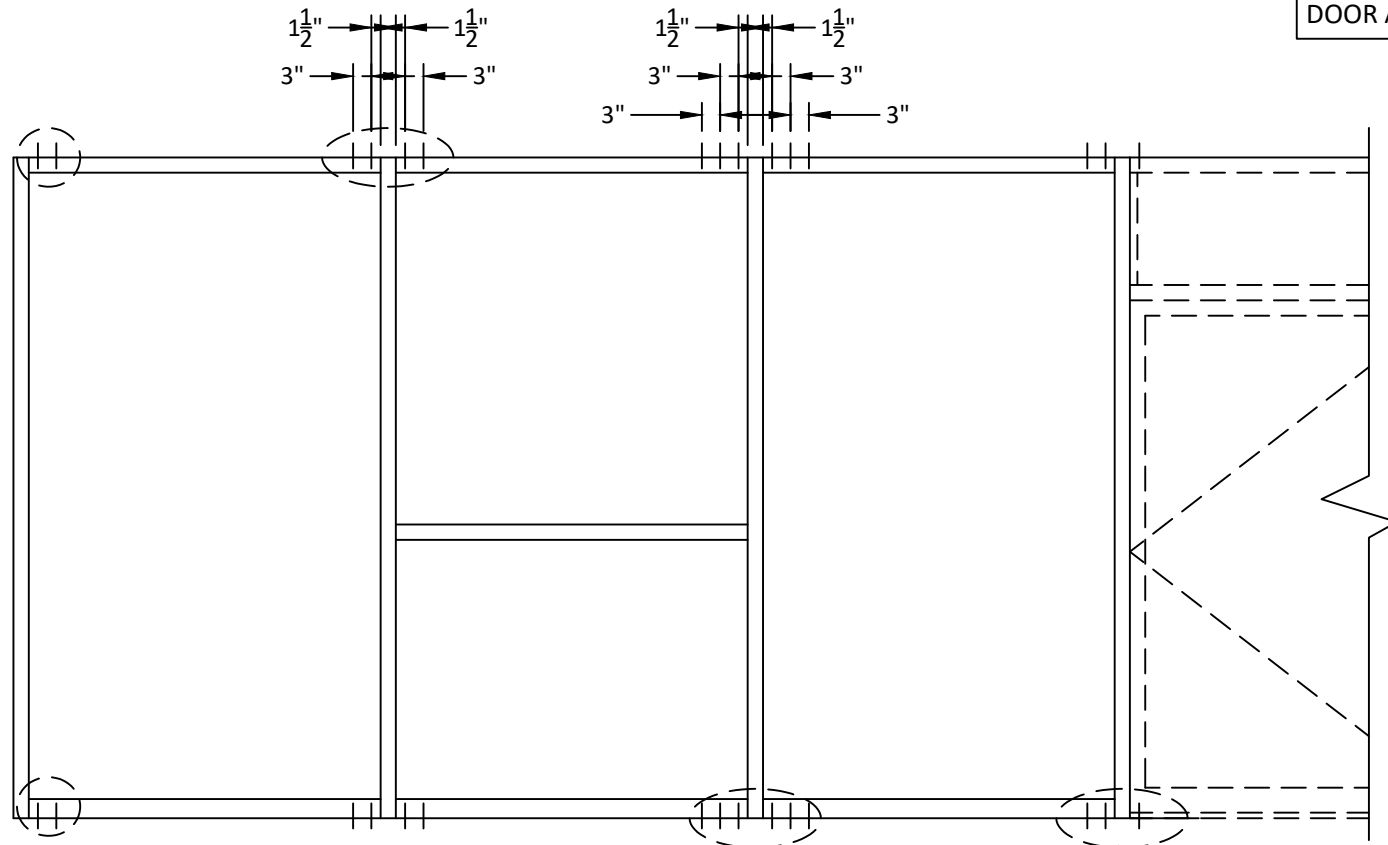
SEE SEPARATE DOOR APPROVAL FOR DOOR RATING & DETAILS.
LOWER DESIGN PRESSURE FROM STOREFRONT OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.



ANCHORS, TYPE A, B, C, D OR E
SEE SHEETS 6, 7, & 7A FOR QUANTITIES
AND SHEET 10 FOR DESCRIPTION



ANCHORS, TYPE A, B, C, D OR E
SEE SHEETS 6, 7, & 7A FOR QUANTITIES
AND SHEET 10 FOR DESCRIPTION



TYPICAL ANCHOR LAYOUT

FOR DOOR ADJACENT
MULLION ANCHOR
REQUIREMENTS SEE
SHEETS 8 & 9



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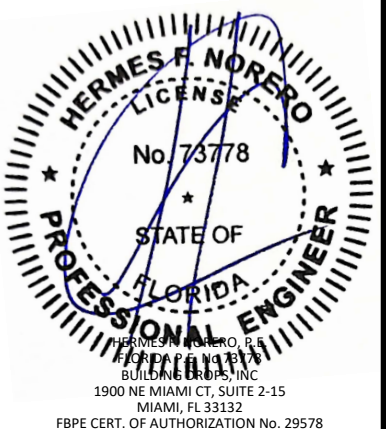
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SYSTEM - OUTSIDE GLAZED
(WZ3) (IMPACT)
ELEVATION &
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SHEET: **2** REV. **D**

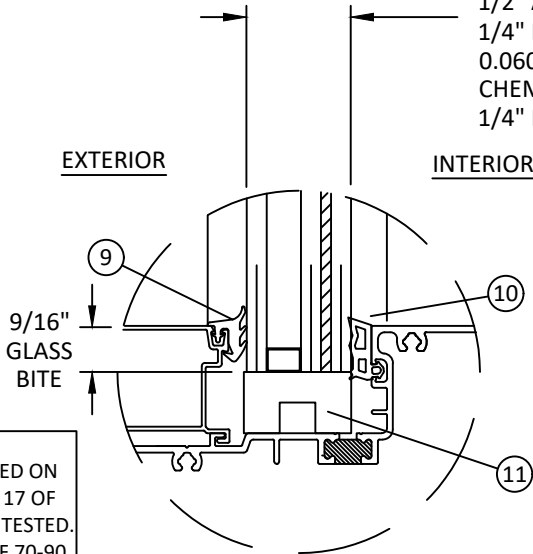
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GLASS LOAD CAPACITY (PSF)			
NOMINAL DIMS. (in)		GLASS TYPES A, B, C OR D	GLASS TYPE H
DLO WIDTH	DLO HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
27.5	54.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5		70.0	44.2
57.5		70.0	44.2
63.5		70.0	48.7
69.5		68.4	41.8
27.5	60.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5		70.0	44.2
57.5		70.0	39.6
63.5		70.0	39.6
69.5		70.0	43.4
27.5	66.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5		70.0	44.2
57.5		70.0	39.6
63.5		63.4	35.8
69.5		63.5	35.9
27.5	72.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5		70.0	44.2
57.5		70.0	39.6
63.5		63.4	35.8
69.0		57.9	-
27.5	78.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5		70.0	44.2
57.5		70.0	39.6
63.5		63.4	-
69.5		57.9	-
27.5	84.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5		70.0	44.2
57.5		70.0	-
63.5		63.4	-
69.5		57.9	-

GLASS LOAD CAPACITY (PSF)			
NOMINAL DIMS. (in)		GLASS TYPES A, B, C OR D	GLASS TYPE H
DLO WIDTH	DLO HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
27.5	90.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5		70.0	44.2
57.5		70.0	-
63.5		63.4	-
27.5	96.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5		70.0	-
57.5		70.0	-
63.5		70.0	-
27.5	102.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5		70.0	-
57.5		70.0	-
63.5		70.0	-
27.5	108.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	-
51.5		70.0	-
57.5		70.0	-
63.5		70.0	-
27.5	114.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	-
51.5		70.0	-
57.5		70.0	-
63.5		70.0	-

NOTE:
SEE DIAGRAM ON SHEET 4 FOR
ILLUSTRATION OF D.L.O.
DIMENSIONS

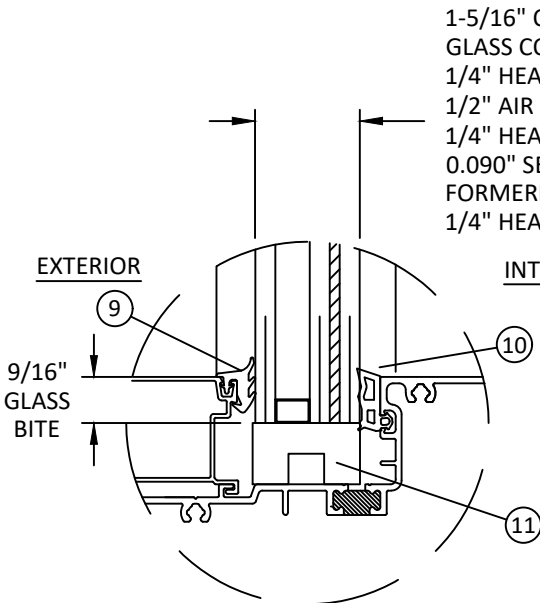


GLAZING DETAIL B
(DRY GLAZED)

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

DRY GLAZED GLASS TYPES

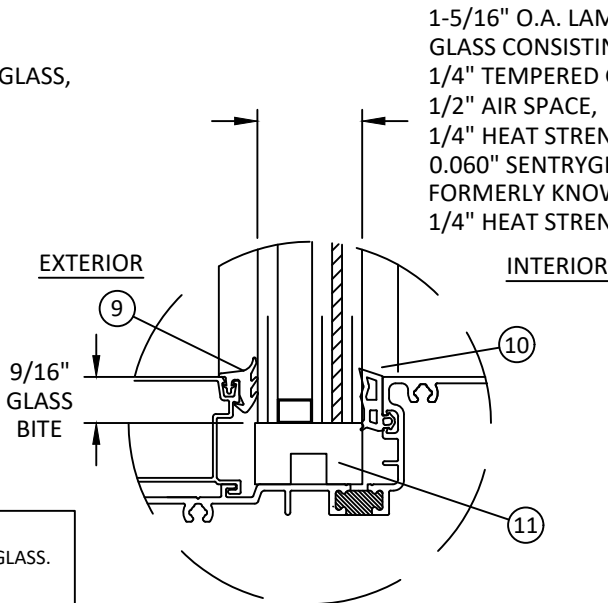
LARGE & SMALL MISSILE IMPACT



GLAZING DETAIL A
(DRY GLAZED)

1-5/16" O.A. LAMINATED INSULATED
GLASS CONSISTING OF:
1/4" HEAT STRENGTHENED OR TEMPERED GLASS,
1/2" AIR SPACE,
1/4" HEAT STRENGTHENED GLASS,
0.090" SENTRYGLAS BY KURARAY,
FORMERLY KNOWN AS SGP BY DUPONT,
1/4" HEAT STRENGTHENED GLASS

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



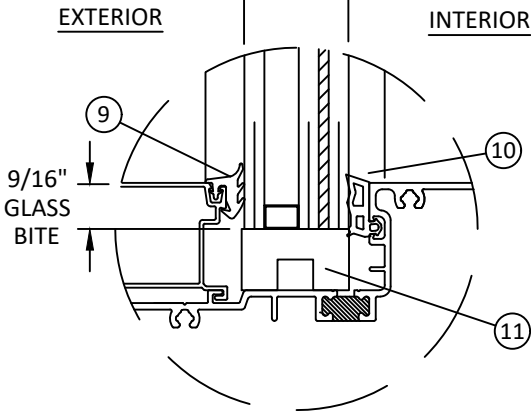
GLAZING DETAIL H
(DRY GLAZED)

1-5/16" O.A. LAMINATED INSULATED
GLASS CONSISTING OF:
1/4" TEMPERED GLASS,
1/2" AIR SPACE,
1/4" HEAT STRENGTHENED GLASS,
0.060" SENTRYGLAS BY KURARAY,
FORMERLY KNOWN AS SGP BY DUPONT,
1/4" HEAT STRENGTHENED GLASS

DRY GLAZED GLASS TYPES

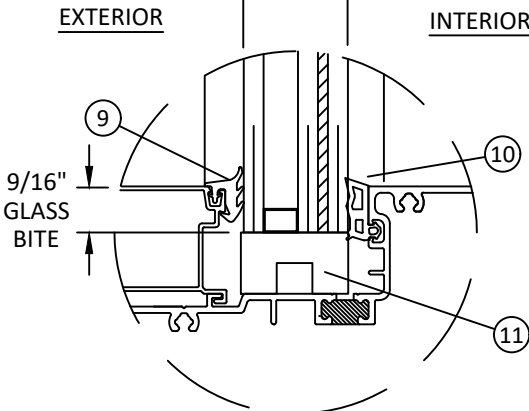
SMALL MISSILE IMPACT ONLY

1-5/16" O.A. LAMINATED INSULATED
GLASS CONSISTING OF:
1/4" TEMPERED GLASS,
1/2" AIR SPACE,
1/4" HEAT STRENGTHENED GLASS,
0.060" SAFLEX PVB BY EASTMAN
CHEMICAL CO.,
1/4" HEAT STRENGTHENED GLASS



GLAZING DETAIL C
(DRY GLAZED)

1-5/16" O.A. LAMINATED INSULATED
GLASS CONSISTING OF:
1/4" TEMPERED GLASS,
1/2" AIR SPACE,
1/4" HEAT STRENGTHENED GLASS,
0.060" TROSIFOL BY KURARAY,
FORMERLY KNOWN AS BUTACITE BY DUPONT,
1/4" HEAT STRENGTHENED GLASS



GLAZING DETAIL D
(DRY GLAZED)

1-5/16" O.A. LAMINATED INSULATED
GLASS CONSISTING OF:
1/4" TEMPERED GLASS,
1/2" AIR SPACE,
1/4" HEAT STRENGTHENED GLASS,
0.035" SENTRYGLAS BY KURARAY,
FORMERLY KNOWN AS SGP BY DUPONT,
1/4" HEAT STRENGTHENED GLASS



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(WZ3) (IMPACT)

DRY GLAZING DETAILS

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SHEET:

3

REV.

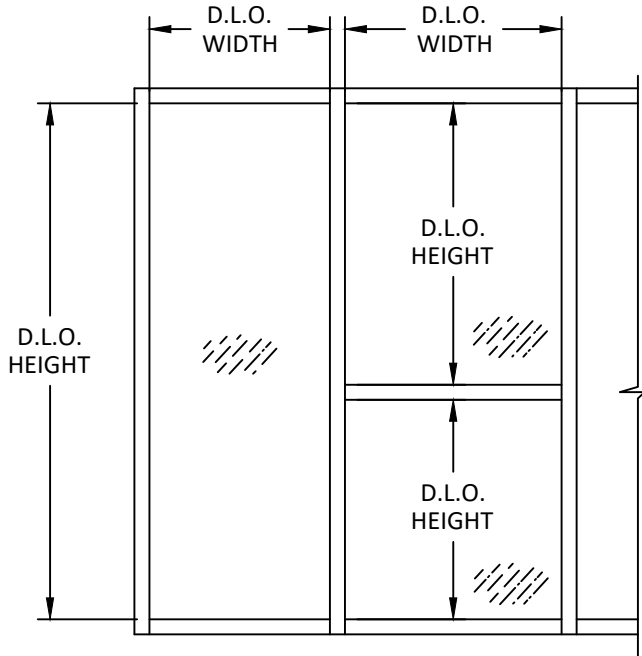
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GLASS LOAD CAPACITY (PSF)			
NOMINAL DIMS. (in)		GLASS TYPE 'E'	GLASS TYPE 'F' & 'G'
DLO WIDTH	DLO HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
27.5	54.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5		70.0	44.2
57.5		70.0	44.2
63.5		70.0	48.7
69.5	60.375	68.4	41.8
27.5		70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5		70.0	44.2
57.5		70.0	39.6
63.5	66.375	70.0	39.6
69.5		70.0	43.4
27.5		70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5		70.0	44.2
57.5	72.375	70.0	39.6
63.5		63.4	35.8
69.5		63.5	35.9
27.5		70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5	78.375	70.0	44.2
57.5		70.0	39.6
63.5		63.4	-
69.5		57.9	-
27.5		70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5	84.375	70.0	50.0
51.5		70.0	50.0
57.5		70.0	50.0
63.5		70.0	44.2
69.5		70.0	-
		63.4	-
		57.9	-

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

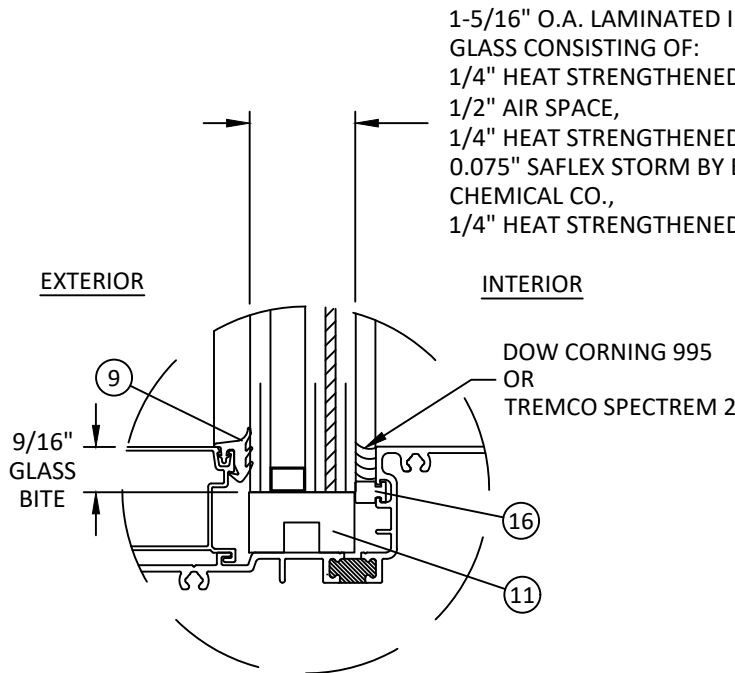
GLASS LOAD CAPACITY (PSF)			
NOMINAL DIMS. (in)		GLASS TYPE 'E'	GLASS TYPE 'F' & 'G'
DLO WIDTH	DLO HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
27.5	90.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5		70.0	44.2
57.5		70.0	-
63.5		63.4	-
27.5	96.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5		70.0	-
57.5		70.0	-
27.5	102.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	50.0
51.5		70.0	-
57.5		70.0	-
27.5	108.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	-
51.5		70.0	-
27.5	114.375	70.0	50.0
33.5		70.0	50.0
39.5		70.0	50.0
45.5		70.0	-
51.5		70.0	-



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

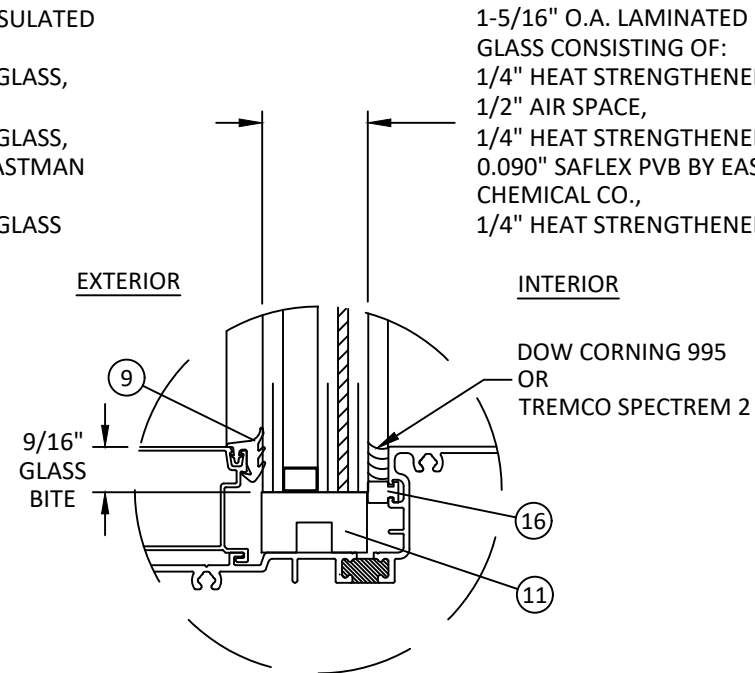
WET GLAZED GLASS TYPES

LARGE & SMALL MISSILE IMPACT



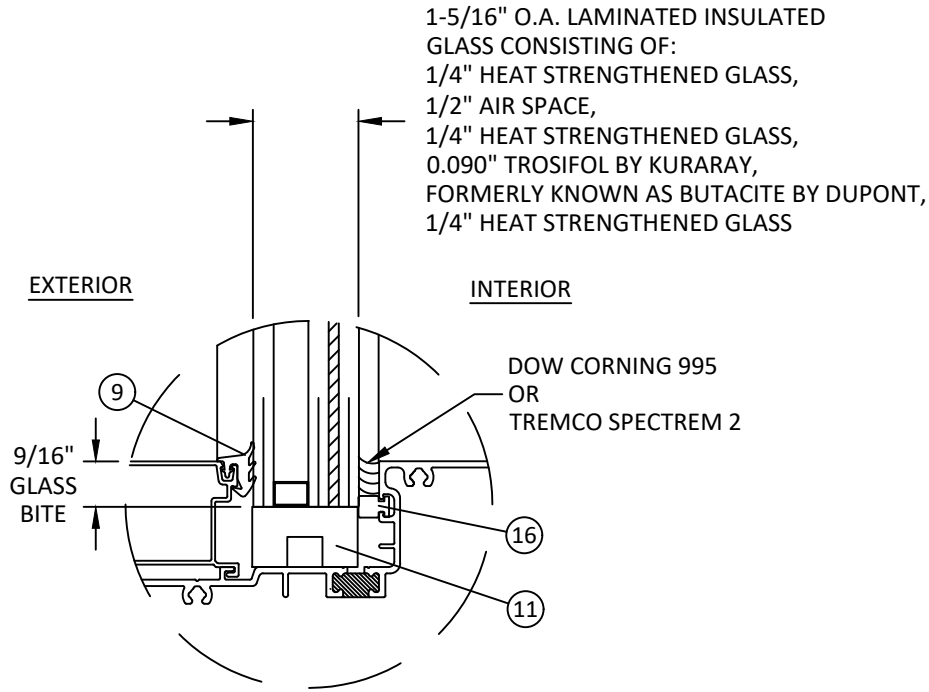
GLAZING DETAIL E
(WET GLAZED)

1-5/16" O.A. LAMINATED INSULATED GLASS CONSISTING OF:
1/4" HEAT STRENGTHENED GLASS,
1/2" AIR SPACE,
1/4" HEAT STRENGTHENED GLASS,
0.075" SAFLEX STORM BY EASTMAN CHEMICAL CO.,
1/4" HEAT STRENGTHENED GLASS



GLAZING DETAIL F
(WET GLAZED)

1-5/16" O.A. LAMINATED INSULATED GLASS CONSISTING OF:
1/4" HEAT STRENGTHENED GLASS,
1/2" AIR SPACE,
1/4" HEAT STRENGTHENED GLASS,
0.090" SAFLEX PVB BY EASTMAN CHEMICAL CO.,
1/4" HEAT STRENGTHENED GLASS



GLAZING DETAIL G
(WET GLAZED)

1-5/16" O.A. LAMINATED INSULATED GLASS CONSISTING OF:
1/4" HEAT STRENGTHENED GLASS,
1/2" AIR SPACE,
1/4" HEAT STRENGTHENED GLASS,
0.090" TROSIFOL BY KURARAY, FORMERLY KNOWN AS BUTACITE BY DUPONT,
1/4" HEAT STRENGTHENED GLASS



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

TITLE: YHS 50 TU ALUMINUM STOREFRONT SYSTEM - OUTSIDE GLAZED (WZ3) (IMPACT)

WET GLAZING DETAILS

PREPARED BY: BUILDING DROPS, INC.

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



REMARKS	BY	DATE
MISC. UPDATES	SH	12.15.22
PROFILE UPDATE	SH	07.03.24
ANCHOR UPDATE	SH	02.11.26
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. #: **YKK166**

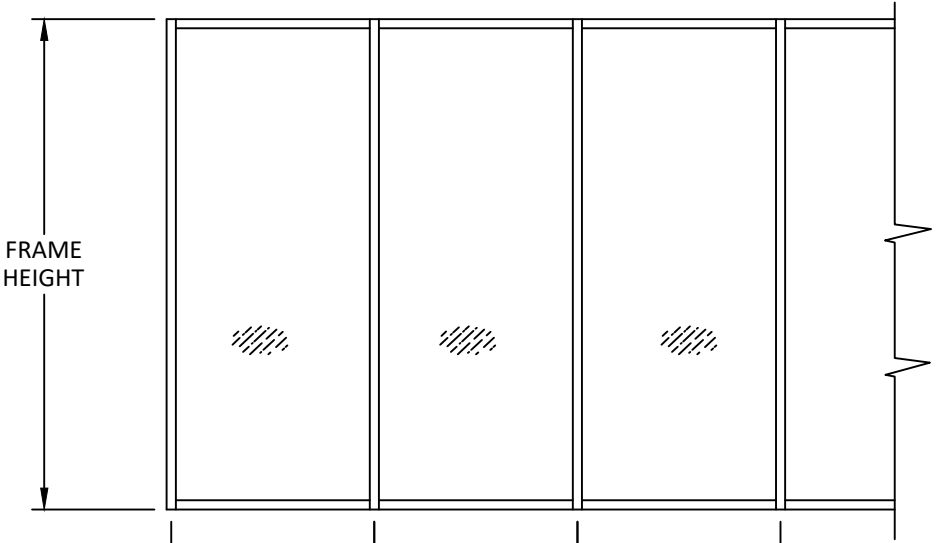
SHEET: **4** REV. **D**

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MULLION LOAD TABLES

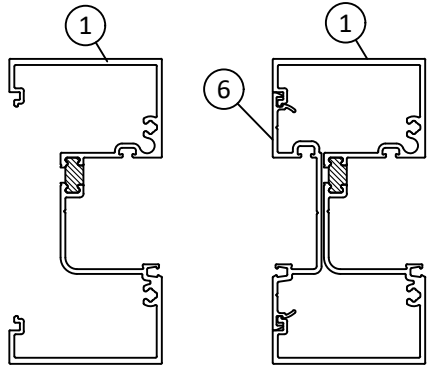
JAMB/MULLION LOAD CAPACITY - PSF WITH OR WITHOUT INTERMEDIATE HORIZONTALS				
NOMINAL DIMS.		STANDARD CONFIG.	HEAVY CONFIG.	EXP. MULLION
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	60	70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48		70.0	70.0	70.0
54		70.0	70.0	70.0
60		70.0	70.0	70.0
66		70.0	70.0	70.0
72	66	70.0	70.0	70.0
30		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		50.0	70.0	70.0
30		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	78	70.0	70.0	70.0
66		50.0	70.0	70.0
72		50.0	70.0	70.0
30		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	84	70.0	70.0	70.0
60		50.0	70.0	70.0
66		--	70.0	70.0
72		--	70.0	--
30		70.0	70.0	70.0
36		70.0	70.0	70.0
42		70.0	70.0	70.0
48	90	70.0	70.0	70.0
54		50.0	70.0	70.0
60		--	70.0	70.0
66		--	70.0	--
72		--	70.0	--

JAMB/MULLION LOAD CAPACITY - PSF WITH OR WITHOUT INTERMEDIATE HORIZONTALS				
NOMINAL DIMS.		STANDARD CONFIG.	HEAVY CONFIG.	EXP. MULLION
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
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		50.0	70.0	70.0
60		--	70.0	70.0
66		--	70.0	--
30	102	70.0	70.0	70.0
36		70.0	70.0	70.0
42		66.7	70.0	70.0
48		50.0	70.0	70.0
54		--	70.0	70.0
60		--	70.0	--
30	108	70.0	70.0	70.0
36		65.6	70.0	70.0
42		56.2	70.0	70.0
48		50.0	70.0	70.0
54		--	70.0	70.0
60		--	70.0	--
30	114	66.9	70.0	70.0
36		55.7	70.0	70.0
42		48.6	70.0	70.0
48		--	70.0	67.0
54		--	66.1	--
30	120	57.3	70.0	70.0
36		48.6	70.0	70.0
42		41.7	70.0	65.6
48		--	63.8	57.4
54		--	56.7	--



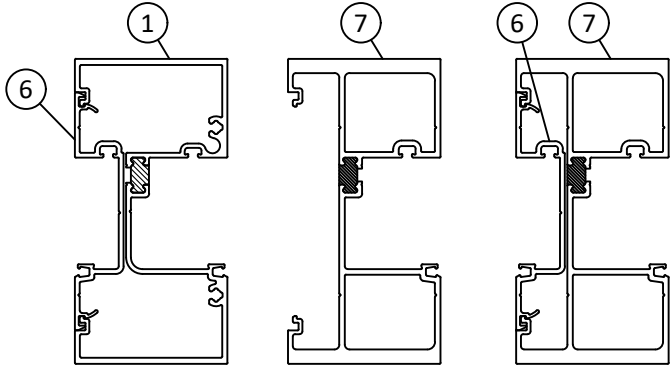
WIDTH (W) = W1 (JAMB)

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



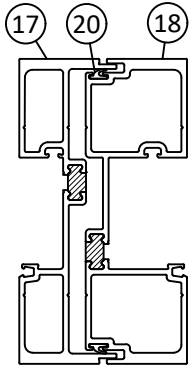
JAMB MULLION

STD. CONFIGURATION



JAMB JAMB MULLION

HEAVY CONFIGURATION



EXPANSION
MULLION



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

TITLE:
YHS 50 TU ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(WZ3) (IMPACT)

MULLION TABLES

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15

MIAMI, FL 33132

PH: (954) 399-8478

FAX: (954) 744-4738

WEB: www.buildingdrops.com



REMARKS	BY	DATE
MISC. UPDATES	SH	12.15.22
PROFILE UPDATE	SH	07.03.24
ANCHOR UPDATE	SH	02.11.26
2026 CODE UPDATE	SH	07.28.26

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FL #:	FL14218
DATE:	01.28.16
DWG. BY:	CHK. BY:
SM	HFN
SCALE:	NTS
DWG. #:	YKK166
SHEET:	REV. D

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ANCHOR TYPE 'A & B' TABLES

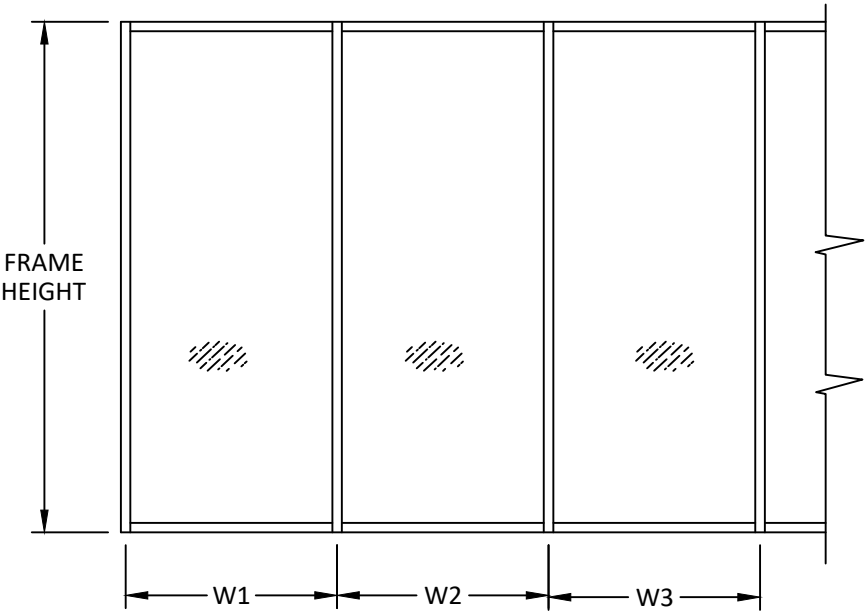
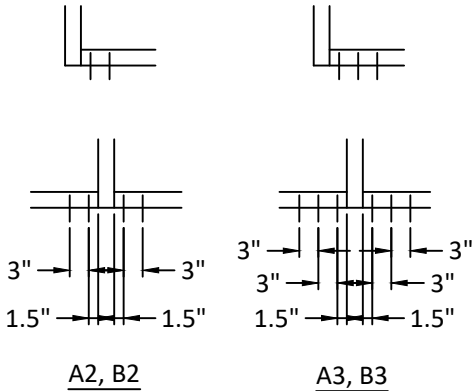
ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT (-)			
NOMINAL DIMS.		ANCHOR TYPE 'A'	ANCHOR TYPE 'B'
WIDTH (W)	FRAME HEIGHT	A2	B2
30	60	70.0	70.0
36		70.0	70.0
42		70.0	70.0
48		70.0	70.0
54		70.0	70.0
60		70.0	70.0
66		70.0	70.0
72		70.0	70.0
30	66	70.0	70.0
36		70.0	70.0
42		70.0	70.0
48		70.0	70.0
54		70.0	70.0
60		70.0	70.0
66		70.0	70.0
72		70.0	70.0
30	72	70.0	70.0
36		70.0	70.0
42		70.0	70.0
48		70.0	70.0
54		70.0	70.0
60		70.0	70.0
66		70.0	70.0
72		70.0	70.0
30	78	70.0	70.0
36		70.0	70.0
42		70.0	70.0
48		70.0	70.0
54		70.0	70.0
60		70.0	70.0
66		70.0	70.0
72		70.0	70.0
30	84	70.0	70.0
36		70.0	70.0
42		70.0	70.0
48		70.0	70.0
54		70.0	70.0
60		70.0	70.0
66		70.0	70.0
72		70.0	70.0

ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT (-)					
NOMINAL DIMS.		ANCHOR TYPE 'A'		ANCHOR TYPE 'B'	
WIDTH (W)	FRAME HEIGHT	A2	A3	B2	B3
30	90	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0
54		70.0	70.0	70.0	70.0
60		70.0	70.0	70.0	70.0
66		70.0	70.0	70.0	70.0
72		70.0	70.0	65.5	70.0
30	96	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0
54		70.0	70.0	70.0	70.0
60		70.0	70.0	70.0	70.0
66		70.0	70.0	67.0	70.0
72		70.0	70.0	61.4	70.0
30	102	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0
54		70.0	70.0	70.0	70.0
60		70.0	70.0	69.4	70.0
66		70.0	70.0	63.1	70.0
30	108	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0
54		70.0	70.0	70.0	70.0
60		70.0	70.0	65.5	70.0
66		69.7	70.0	59.6	70.0
30	114	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0
54		70.0	70.0	69.0	70.0
60		70.0	70.0	62.1	70.0
30	120	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0
54		70.0	70.0	65.5	70.0
60		69.0	70.0	59.0	70.0

ANCHORS TYPES: SEE SHEET 10 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

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION



WIDTH (W) = W1 (JAMB)

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



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

TITLE:
YHS 50 TU ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(WZ3) (IMPACT)

TYPE A & B ANCHOR TABLES

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132

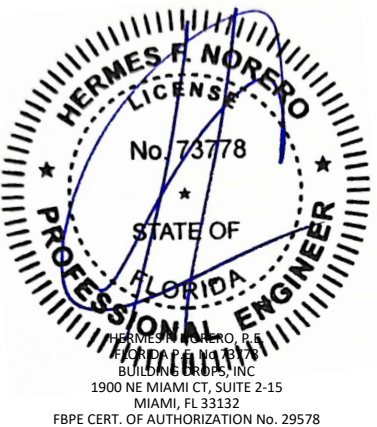
PH: (954) 399-8478
FAX: (954) 744-4738

WEB: www.buildingdrops.com



REMARKS	BY	DATE
MISC. UPDATES	SH	12.15.22
PROFILE UPDATE	SH	07.03.24
ANCHOR UPDATE	SH	02.11.26
2026 CODE UPDATE	SH	07.28.26

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FL #:	FL14218
DATE:	01.28.16
DWG. BY:	CHK. BY:
SM	HFN
SCALE:	NTS
DWG. #:	YKK166
SHEET:	REV.
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ANCHOR TYPE 'C & D' TABLES

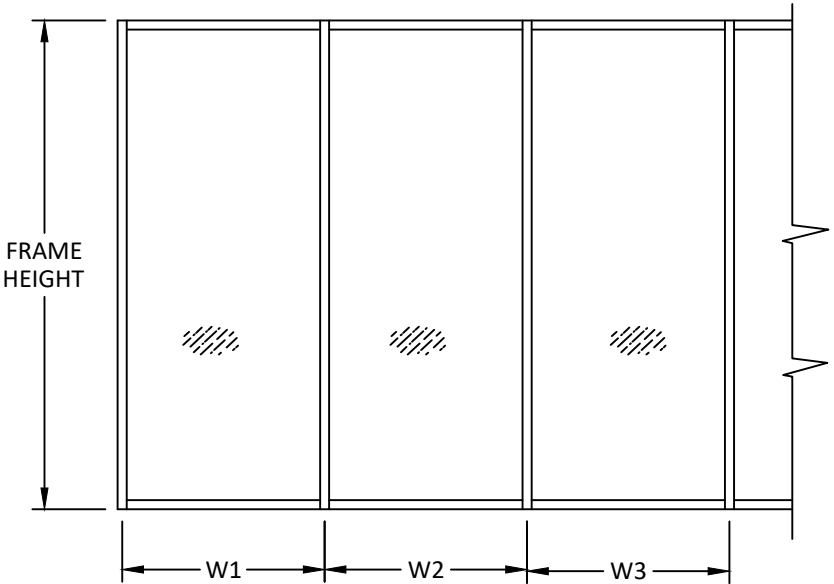
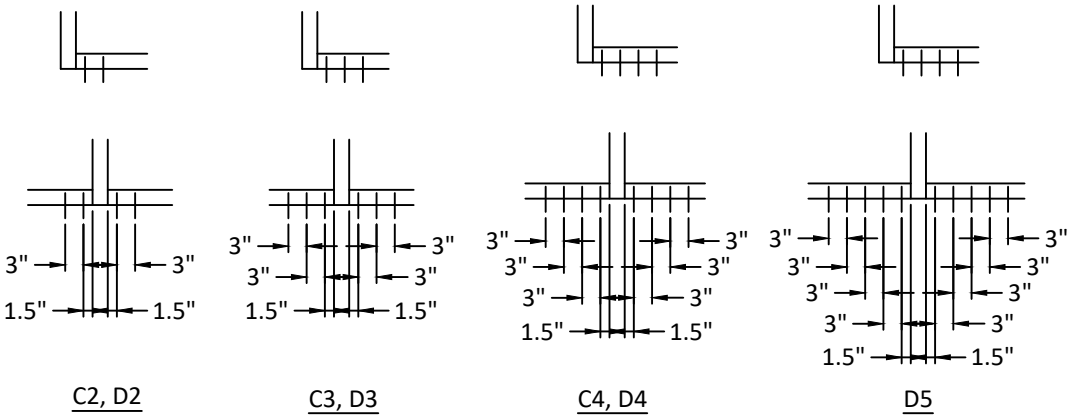
ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT (-)						
NOMINAL DIMS.		ANCHOR TYPE 'C'		ANCHOR TYPE 'D'		
WIDTH (W)	FRAME HEIGHT	C2	C3	D2	D3	D4
30	60	70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0	70.0
54		70.0	70.0	70.0	70.0	70.0
60		70.0	70.0	64.0	70.0	70.0
66		70.0	70.0	58.2	70.0	70.0
72	66	70.0	70.0	53.3	70.0	70.0
30		70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0	70.0
54		70.0	70.0	64.6	70.0	70.0
60		70.0	70.0	58.2	70.0	70.0
66	72	70.0	70.0	52.9	70.0	70.0
72		69.7	70.0	48.5	70.0	70.0
30		70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0	70.0
48		70.0	70.0	66.7	70.0	70.0
54		70.0	70.0	59.3	70.0	70.0
60	78	70.0	70.0	53.3	70.0	70.0
66		69.7	70.0	48.5	70.0	70.0
72		63.9	70.0	44.4	66.7	70.0
30		70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0	70.0
48		70.0	70.0	61.5	70.0	70.0
54	84	70.0	70.0	54.7	70.0	70.0
60		70.0	70.0	49.2	70.0	70.0
66		64.4	70.0	44.8	67.1	70.0
72		59.0	70.0	41.0	61.5	70.0
30		70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0	70.0
42		70.0	70.0	65.3	70.0	70.0
48	90	70.0	70.0	57.1	70.0	70.0
54		70.0	70.0	50.8	70.0	70.0
60		65.8	70.0	45.7	68.6	70.0
66		59.8	70.0	41.6	62.3	70.0
72		54.8	70.0	38.1	57.1	70.0

ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT (-)													
NOMINAL DIMS.		ANCHOR TYPE 'C'			ANCHOR TYPE 'D'								
WIDTH (W)	FRAME HEIGHT	C2	C3	C4	D2	D3	D4	D5	D5	D5	D5	D5	D5
30	90	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	61.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	53.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54		68.2	70.0	70.0	47.4	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60		61.4	70.0	70.0	42.7	64.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
66		55.8	70.0	70.0	38.8	58.2	70.0	70.0	70.0	70.0	70.0	70.0	70.0
72	96	51.1	70.0	70.0	35.6	53.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0
30		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	66.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	57.1	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	50.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54		63.9	70.0	70.0	44.4	66.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60		57.5	70.0	70.0	40.0	60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
66	102	52.3	70.0	70.0	36.4	54.5	70.0	70.0	70.0	70.0	70.0	70.0	70.0
72		48.0	70.0	70.0	33.3	50.0	66.7	70.0	70.0	70.0	70.0	70.0	70.0
30		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	62.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	53.8	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48		67.7	70.0	70.0	47.1	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54		60.2	70.0	70.0	41.8	62.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60	108	54.2	70.0	70.0	37.6	56.5	70.0	70.0	70.0	70.0	70.0	70.0	70.0
66		49.2	70.0	70.0	34.2	51.3	68.4	70.0	70.0	70.0	70.0	70.0	70.0
30		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	59.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	50.8	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48		63.9	70.0	70.0	44.4	66.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54		56.8	70.0	70.0	39.5	59.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60	114	51.1	70.0	70.0	35.6	53.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0
66		46.5	69.7	70.0	32.3	48.5	64.6	70.0	70.0	70.0	70.0	70.0	70.0
30		70.0	70.0	70.0	67.4	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	56.1	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42		69.2	70.0	70.0	48.1	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48		60.6	70.0	70.0	42.1	63.2	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54		53.8	70.0	70.0	37.4	56.1	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60	120	48.5	70.0	70.0	33.7	50.5	67.4	70.0	70.0	70.0	70.0	70.0	70.0
30		70.0	70.0	70.0	64.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	53.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42		65.8	70.0	70.0	45.7	68.6	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48		57.5	70.0	70.0	40.0	60.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
54		51.1	70.0	70.0	35.6	53.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0
60		46.0	69.0	70.0	32.0	48.0	64.0	70.0	70.0	70.0	70.0	70.0	70.0

ANCHORS TYPES: SEE SHEET 10 FOR DESCRIPTION

- C2 = (2) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION
- C3 = (3) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION
- C4 = (4) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION
- D2 = (2) ANCHORS TYPE 'D' AT JAMB OR EACH SIDE OF MULLION
- D3 = (3) ANCHORS TYPE 'D' AT JAMB OR EACH SIDE OF MULLION
- D4 = (4) ANCHORS TYPE 'D' AT JAMB OR EACH SIDE OF MULLION
- D5 = (5) ANCHORS TYPE 'D' AT JAMB OR EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION



WIDTH (W) = W1 (JAMB)

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



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

TITLE: YHS 50 TU ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(WZ3) (IMPACT)

TYPE C & D ANCHOR TABLES

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15

MIAMI, FL 33132

PH: (954) 399-8478

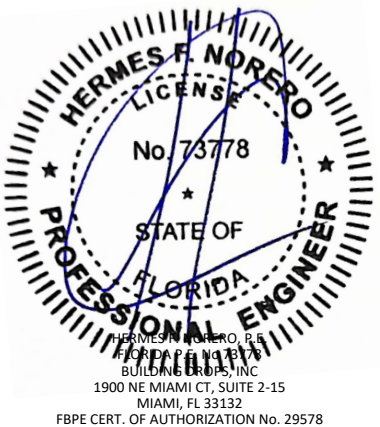
FAX: (954) 744-4738

WEB: www.buildingdrops.com



REMARKS	BY	DATE
MISC. UPDATES	SH	12.15.22
PROFILE UPDATE	SH	07.03.24
ANCHOR UPDATE	SH	02.11.26
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. #: **YKK166**

SHEET:

7

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ANCHOR TYPE 'E' TABLES

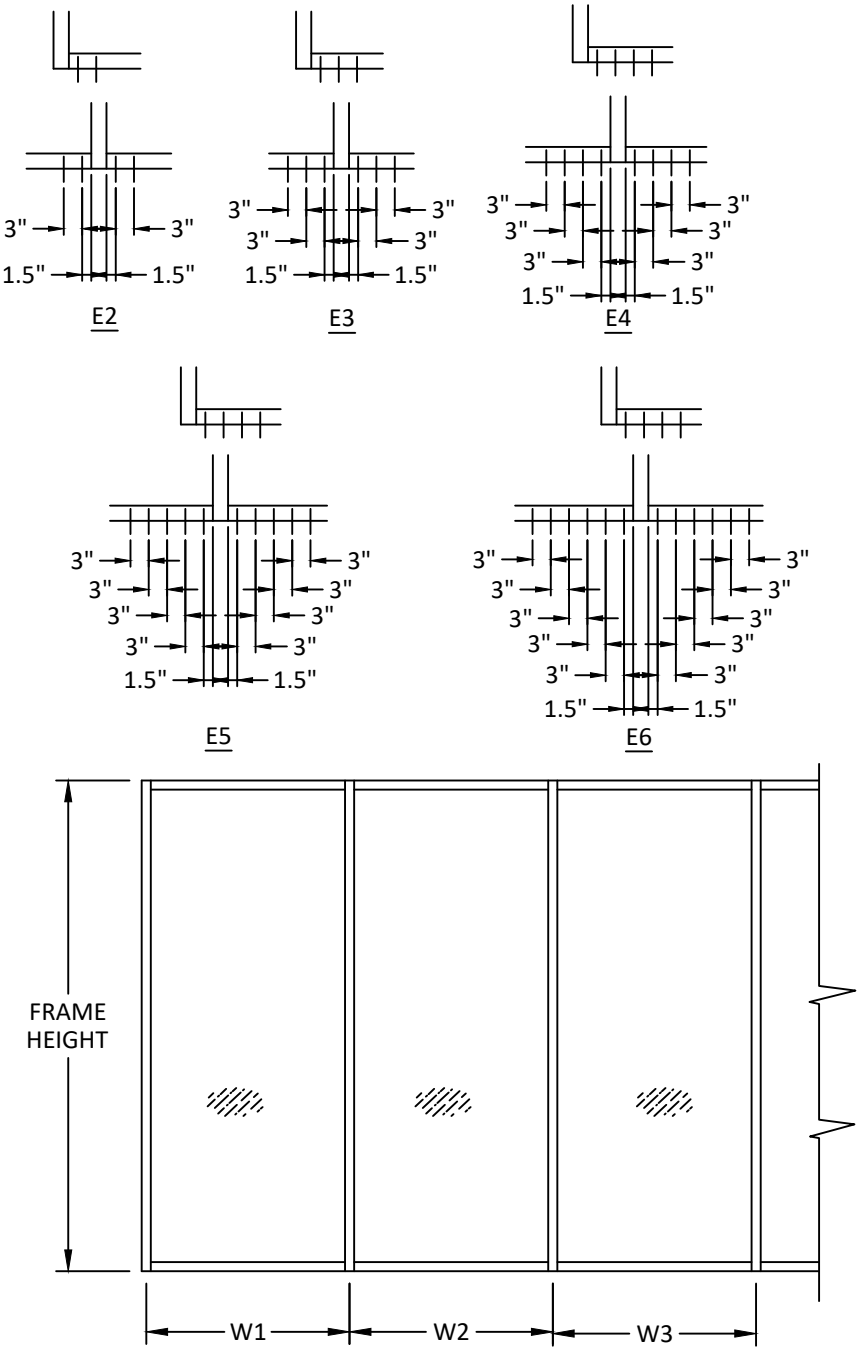
ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT. (-)						
NOMINAL DIMS.		ANCHOR TYPE 'E'				
WIDTH (W)	FRAME HEIGHT	E2	E3	E4	E5	E6
30	60	70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0	70.0
42		66.2	70.0	70.0	70.0	70.0
48		57.9	70.0	70.0	70.0	70.0
54		51.5	70.0	70.0	70.0	70.0
60		46.3	69.5	70.0	70.0	70.0
66		42.1	63.2	70.0	70.0	70.0
72	66	38.6	57.9	70.0	70.0	70.0
30		70.0	70.0	70.0	70.0	70.0
36		70.0	70.0	70.0	70.0	70.0
42		60.2	70.0	70.0	70.0	70.0
48		52.7	70.0	70.0	70.0	70.0
54		46.8	70.0	70.0	70.0	70.0
60		42.1	63.2	70.0	70.0	70.0
66	72	38.3	57.4	70.0	70.0	70.0
72		35.1	52.7	70.0	70.0	70.0
30		70.0	70.0	70.0	70.0	70.0
36		64.4	70.0	70.0	70.0	70.0
42		55.2	70.0	70.0	70.0	70.0
48		48.3	70.0	70.0	70.0	70.0
54		42.9	64.4	70.0	70.0	70.0
60	78	38.6	57.9	70.0	70.0	70.0
66		35.1	52.7	70.0	70.0	70.0
72		32.2	48.3	64.4	70.0	70.0
30		70.0	70.0	70.0	70.0	70.0
36		59.4	70.0	70.0	70.0	70.0
42		50.9	70.0	70.0	70.0	70.0
48		44.6	66.8	70.0	70.0	70.0
54	84	39.6	59.4	70.0	70.0	70.0
60		35.6	53.5	70.0	70.0	70.0
66		32.4	48.6	64.8	70.0	70.0
72		29.7	44.6	59.4	70.0	70.0
30		66.2	70.0	70.0	70.0	70.0
36		55.2	70.0	70.0	70.0	70.0
42		47.3	70.0	70.0	70.0	70.0
48	84	41.4	62.1	70.0	70.0	70.0
54		36.8	55.2	70.0	70.0	70.0
60		33.1	49.6	66.2	70.0	70.0
66		30.1	45.1	60.2	70.0	70.0
72		27.6	41.4	55.2	69.0	70.0

ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT. (-)						
NOMINAL DIMS.		ANCHOR TYPE 'E'				
WIDTH (W)	FRAME HEIGHT	E2	E3	E4	E5	E6
30	90	61.8	70.0	70.0	70.0	70.0
36		51.5	70.0	70.0	70.0	70.0
42		44.1	66.2	70.0	70.0	70.0
48		38.6	57.9	70.0	70.0	70.0
54		34.3	51.5	68.6	70.0	70.0
60		30.9	46.3	61.8	70.0	70.0
66		28.1	42.1	56.2	70.0	70.0
72	96	25.7	38.6	51.5	64.4	70.0
30		57.9	70.0	70.0	70.0	70.0
36		48.3	70.0	70.0	70.0	70.0
42		41.4	62.1	70.0	70.0	70.0
48		36.2	54.3	70.0	70.0	70.0
54		32.2	48.3	64.4	70.0	70.0
60		29.0	43.4	57.9	70.0	70.0
66	102	26.3	39.5	52.7	65.8	70.0
72		24.1	36.2	48.3	60.3	70.0
30		54.5	70.0	70.0	70.0	70.0
36		45.4	68.1	70.0	70.0	70.0
42		38.9	58.4	70.0	70.0	70.0
48		34.1	51.1	68.1	70.0	70.0
54		30.3	45.4	60.6	70.0	70.0
60	108	27.3	40.9	54.5	68.1	70.0
66		24.8	37.2	49.6	61.9	70.0
30		51.5	70.0	70.0	70.0	70.0
36		42.9	64.4	70.0	70.0	70.0
42		36.8	55.2	70.0	70.0	70.0
48		32.2	48.3	64.4	70.0	70.0
54		28.6	42.9	57.2	70.0	70.0
60	114	25.7	38.6	51.5	64.4	70.0
66		23.4	35.1	46.8	58.5	70.0
30		48.8	70.0	70.0	70.0	70.0
36		40.6	61.0	70.0	70.0	70.0
42		34.8	52.3	69.7	70.0	70.0
48		30.5	45.7	61.0	70.0	70.0
54		27.1	40.6	54.2	67.7	70.0
60	120	24.4	36.6	48.8	61.0	70.0
30		46.3	69.5	70.0	70.0	70.0
36		38.6	57.9	70.0	70.0	70.0
42		33.1	49.6	66.2	70.0	70.0
48		29.0	43.4	57.9	70.0	70.0
54		25.7	38.6	51.5	64.4	70.0
60		23.2	34.8	46.3	57.9	69.5

ANCHORS TYPES: SEE SHEET 10 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

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION



YKK

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YKK AP AMERICA, INC.

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

TITLE:
YHS 50 TU ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(W3) (IMPACT)
TYPE E ANCHOR TABLES

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 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	12.15.22
PROFILE UPDATE	SH	07.03.24
ANCHOR UPDATE	SH	02.11.26
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 CT, SUITE 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. #:

YKK166

SHEET:

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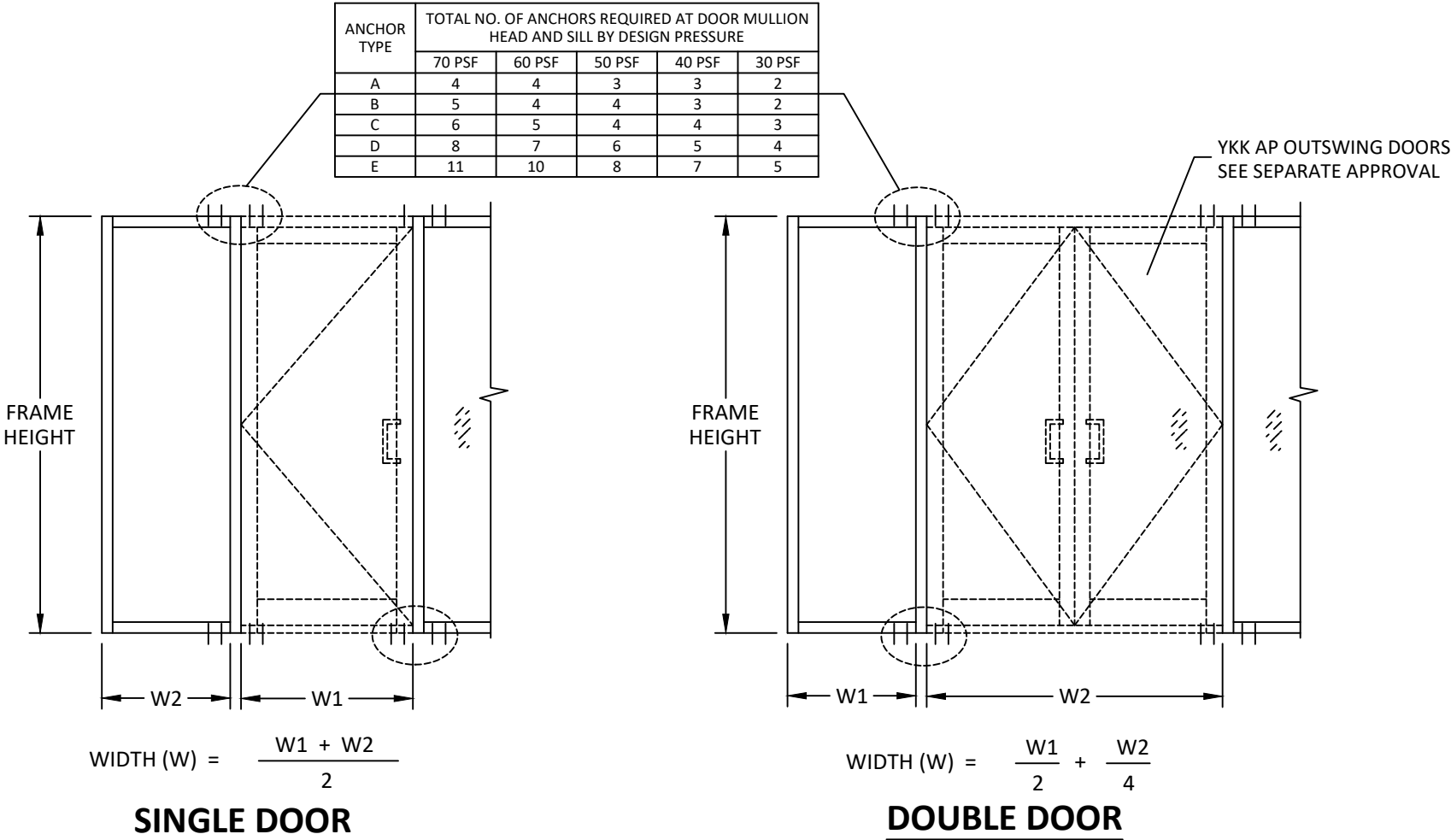
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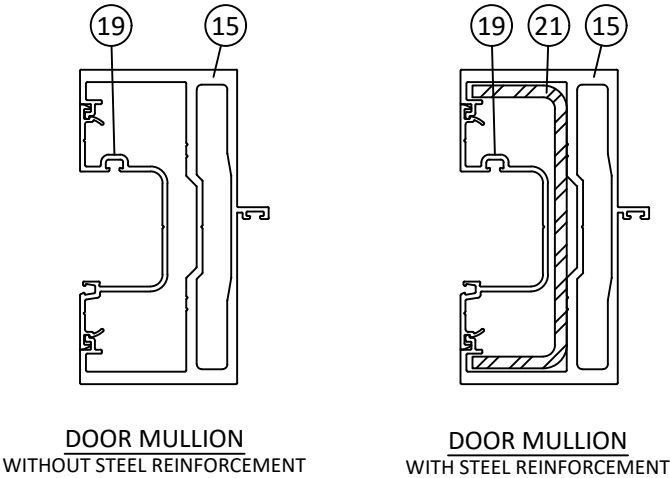
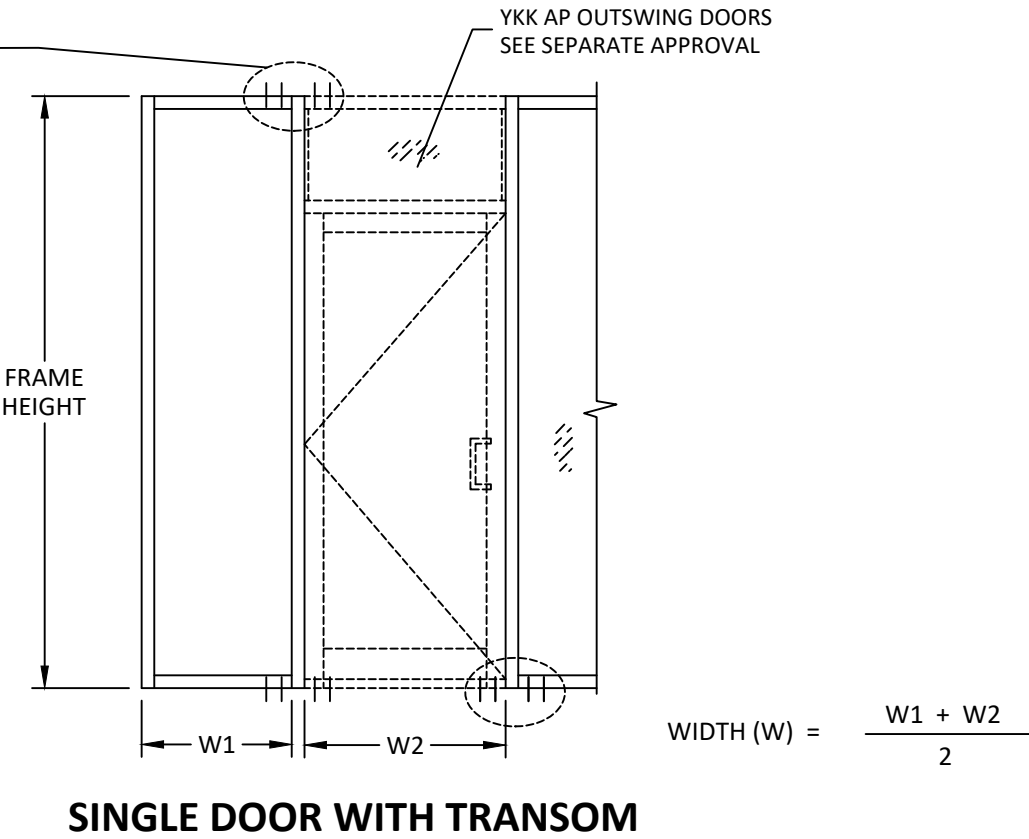
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DOOR MULLION LOAD & ANCHOR TABLES

DOOR MULLION LOAD CAPACITY (PSF)					
NOMINAL DIMS.		WITHOUT STEEL REINF.		WITH STEEL REINF.	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24	102	70.0	70.0	70.0	90.0
30		70.0	70.0	70.0	90.0
36		70.0	70.0	70.0	90.0
42		70.0	70.0	70.0	90.0
48		70.0	70.0	70.0	90.0
54		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				
	70 PSF	60 PSF	50 PSF	40 PSF	30 PSF
A	4	4	3	3	2
B	5	4	4	3	2
C	6	5	4	4	3
D	8	7	6	5	4
E	11	10	8	7	5





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

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

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

REMARKS	BY	DATE
MISC. UPDATES	SH	12.15.22
PROFILE UPDATE	SH	07.03.24
ANCHOR UPDATE	SH	02.11.26
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 CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

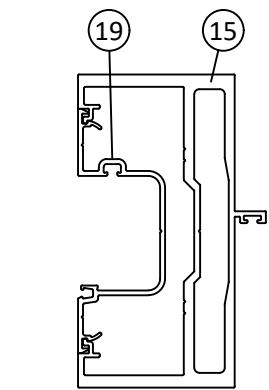
FL #:	FL14218
DATE:	01.28.16
DWG. BY:	CHK. BY:
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SCALE:	NTS
DWG. #:	YKK166
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[Page 9 of 14]

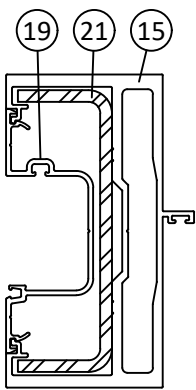
DOOR MULLION LOAD & ANCHOR TABLES

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

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

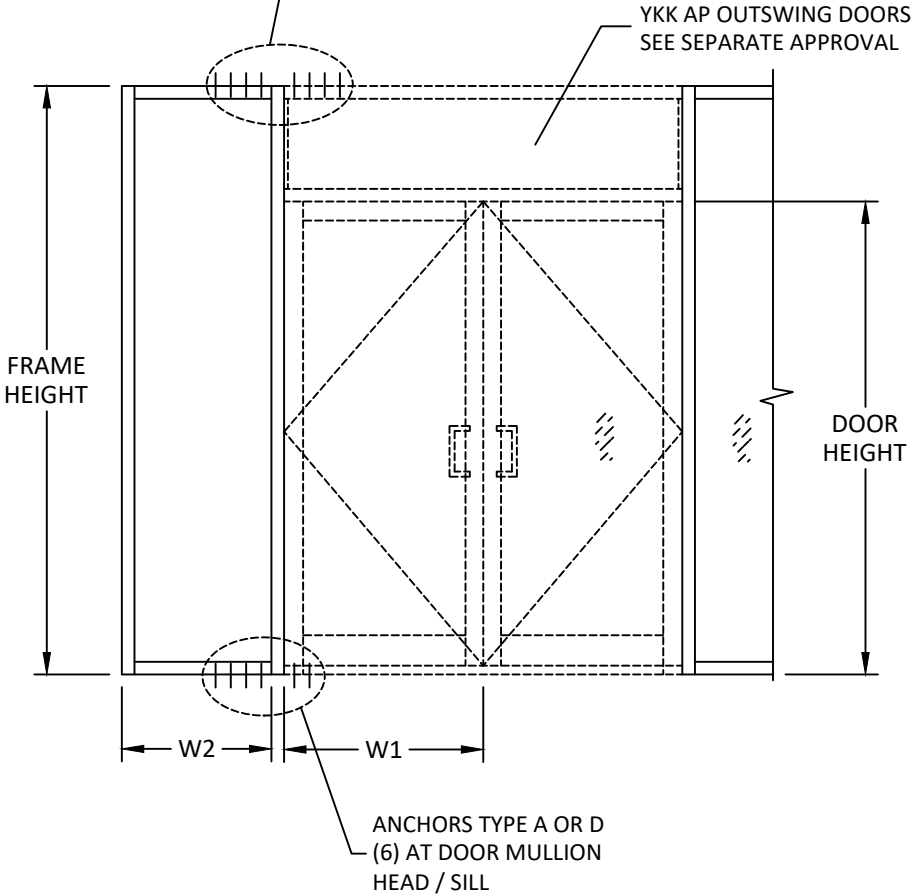


DOOR MULLION
WITHOUT STEEL REINFORCEMENT



DOOR MULLION
WITH STEEL REINFORCEMENT

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



DOUBLE DOOR WITH TRANSOM



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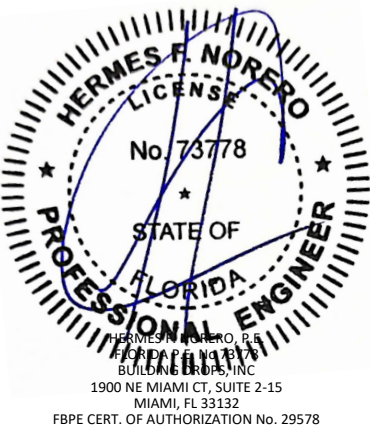
TITLE:
YHS 50 TU ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(WZ3) (IMPACT)
DOOR MULLION TABLES (1)

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



REMARKS	BY	DATE
MISC. UPDATES	SH	12.15.22
PROFILE UPDATE	SH	07.03.24
ANCHOR UPDATE	SH	02.11.26
2026 CODE UPDATE	SH	07.28.26

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FL #:
FL14218

DATE: **01.28.16**

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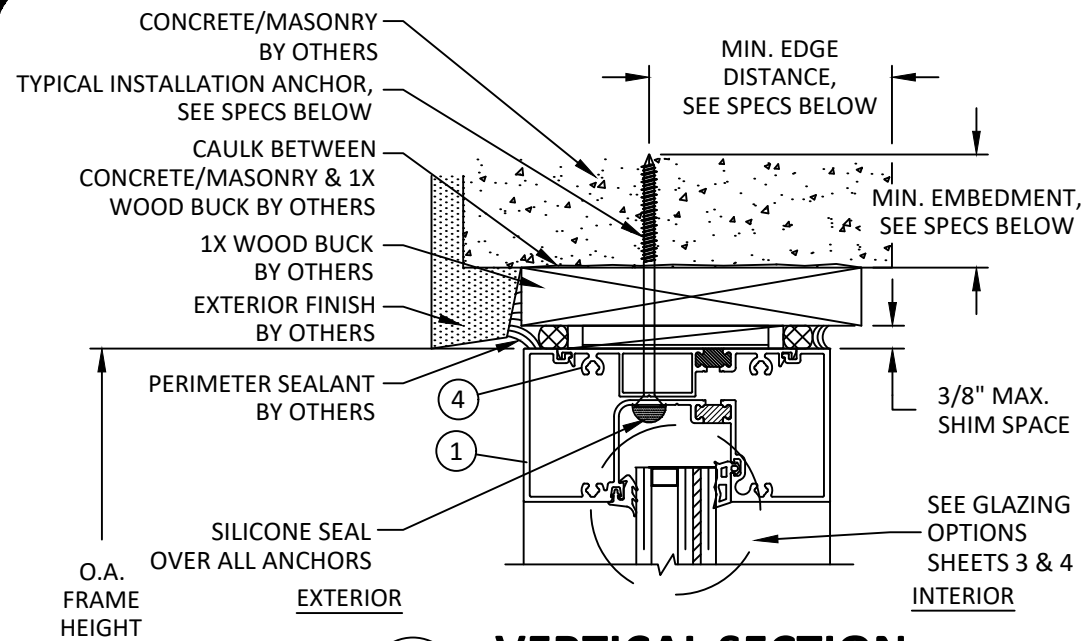
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DWG. #: **YKK166**

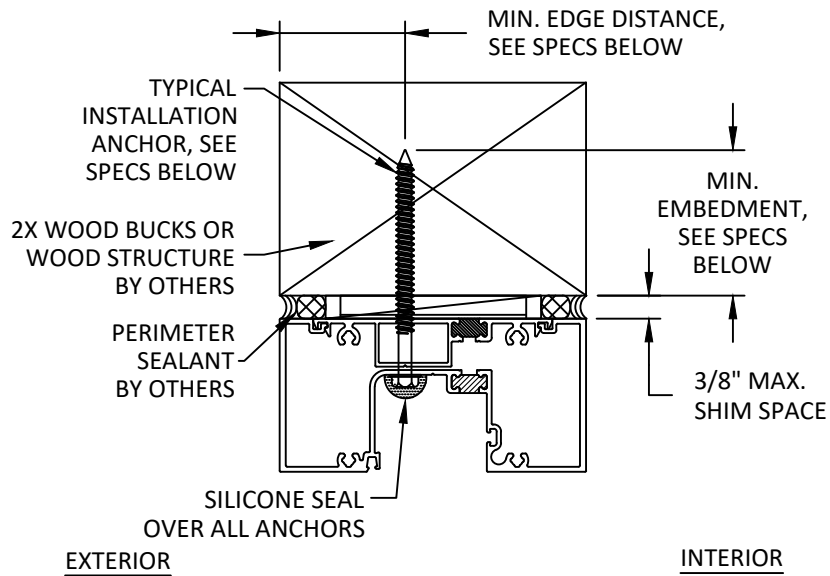
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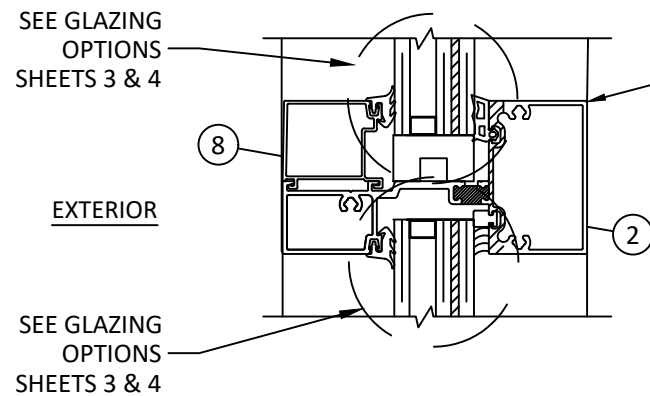
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A
10 **VERTICAL SECTION**
HEAD - CONCRETE/MASONRY W/ 1X BUCK



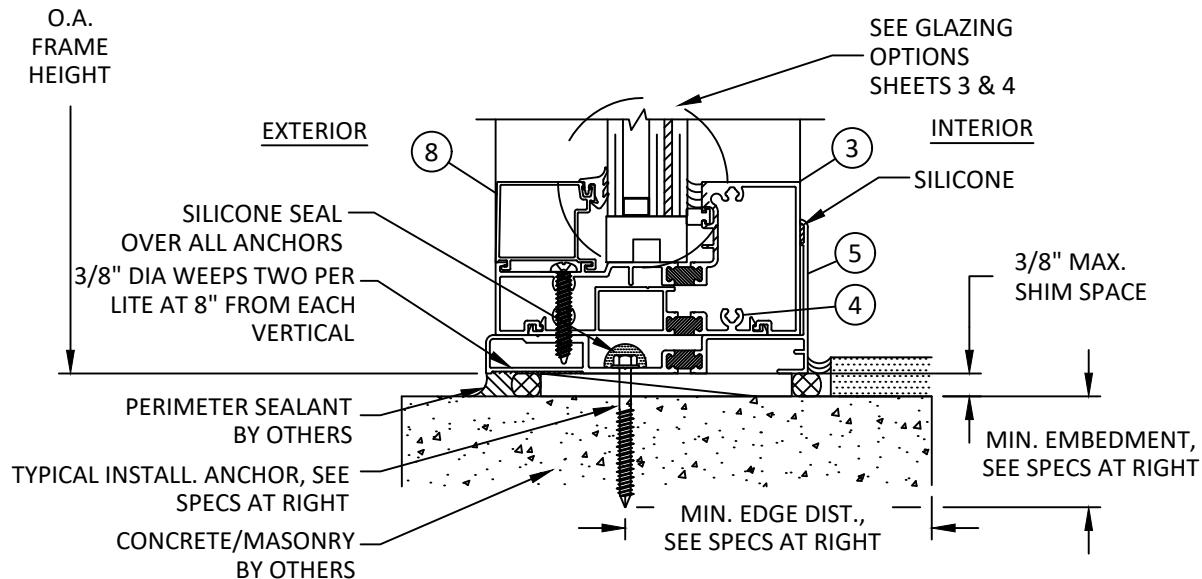
D
10 **VERTICAL SECTION**
HEAD - WOOD FRAMING
TYPICAL INSTALLATION



B
10 **VERTICAL SECTION**
HORIZONTAL MEMBER

LIMIT DESIGN LOADS FOR HORIZONTAL AS FOLLOWS		
MAX HORIZ. SPAN	MAX HEIGHT ABOVE HORIZ.	MAX DESIGN LOADS
60"	54"	70 PSF
60"	84"	54 PSF
66"	54"	48 PSF
66"	84"	34 PSF
72"	54"	33 PSF
72"	84"	20 PSF

NOTE: DESIGN LOADS SHOWN ABOVE ARE BASED ON MAX. GLASS AREA ABOVE HORIZONTAL FOR SMALLER GLASS ABOVE HORIZONTAL DESIGN LOADS TO BE CALCULATED SEPARATELY.



C
10 **VERTICAL SECTION**
SILL - DIRECT TO CONCRETE/MASONRY

YHS 50 TU 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"

*NOTE: ANCHORS MAY BE EITHER HEX HEAD OR FLAT HEAD



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TITLE: YHS 50 TU ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(WZ3) (IMPACT)
VERTICAL SECTIONS
& ANCHOR DESCRIPTIONS

PREPARED BY:
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2026 CODE UPDATE	SH	07.28.26

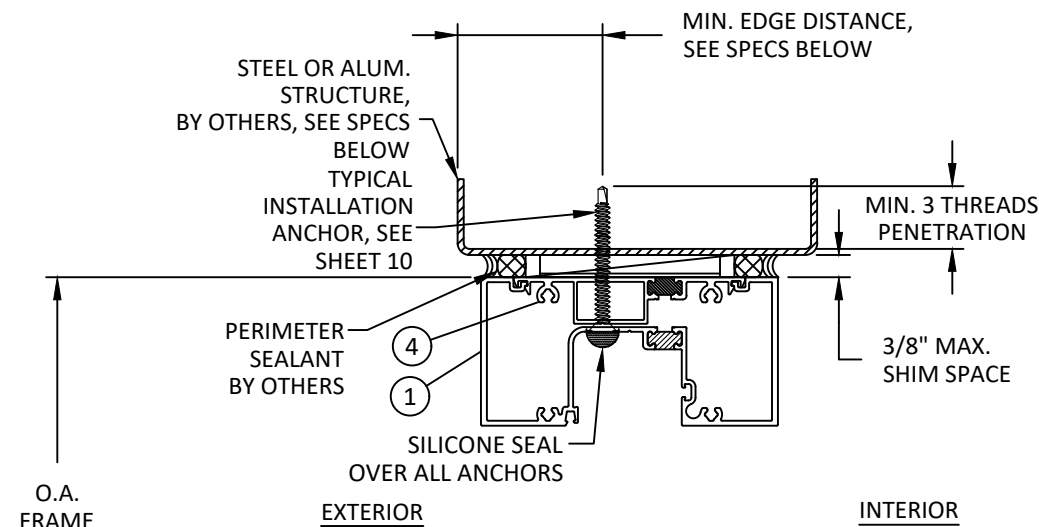
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DATE:	01.28.16
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SM	HFN
SCALE:	NTS
DWG. #:	YKK166
SHEET:	REV.
10	D

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E
10A

VERTICAL SECTION

HEAD - METAL SUBSTRATE
TYPICAL INSTALLATION

SEE GLAZING
OPTIONS
SHEETS 3 & 4

EXTERIOR

INTERIOR

SEE GLAZING
OPTIONS
SHEETS 3 & 4

LIMIT DESIGN LOADS FOR HORIZONTAL AS FOLLOWS		
MAX HORIZ. SPAN	MAX HEIGHT ABOVE HORIZ.	MAX DESIGN LOADS
60"	54"	70 PSF
60"	84"	54 PSF
66"	54"	48 PSF
66"	84"	34 PSF
72"	54"	33 PSF
72"	84"	20 PSF

NOTE: DESIGN LOADS SHOWN ABOVE ARE BASED ON MAX. GLASS AREA ABOVE HORIZONTAL FOR SMALLER GLASS ABOVE HORIZONTAL DESIGN LOADS TO BE CALCULATED SEPARATELY.

B1
10A

VERTICAL SECTION

5" HORIZONTAL MEMBER

SEE GLAZING
OPTIONS
SHEETS 3 & 4

EXTERIOR

INTERIOR

SILICONE SEAL
OVER ALL ANCHORS
#14 X 1/2"
PHSMS TYPE AB

3/8" DIA WEEPS TWO PER
LITE AT 8" FROM EACH
VERTICAL

PERIMETER SEALANT
BY OTHERS

TYPICAL INSTALL. ANCHOR, SEE
SHEET 10

CONCRETE/MASONRY
BY OTHERS

MIN. EDGE DIST.,
SEE SPECS AT RIGHT

3/8" MAX.
SHIM SPACE

MIN. EMBEDMENT,
SEE SPECS AT RIGHT

C1
10A

VERTICAL SECTION

SILL - DIRECT TO CONCRETE/MASONRY



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TITLE: YHS 50 TU ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(WZ3) (IMPACT)
VERTICAL SECTIONS
& ANCHOR DESCRIPTIONS

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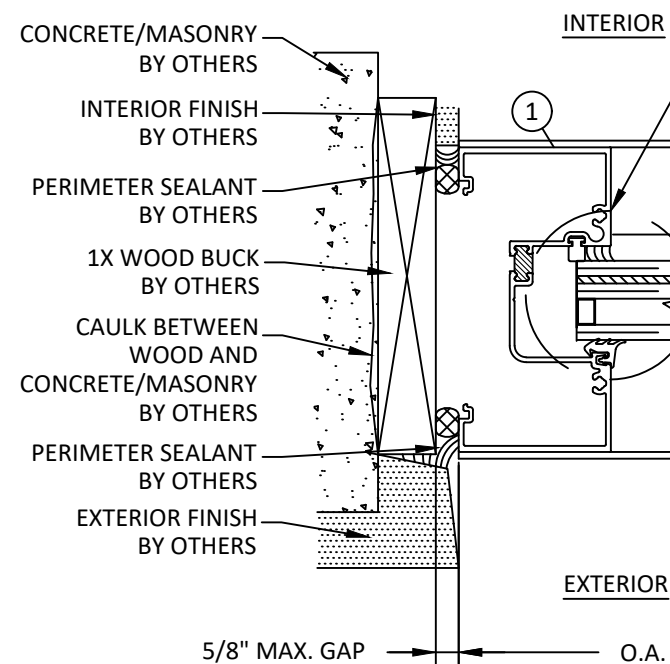
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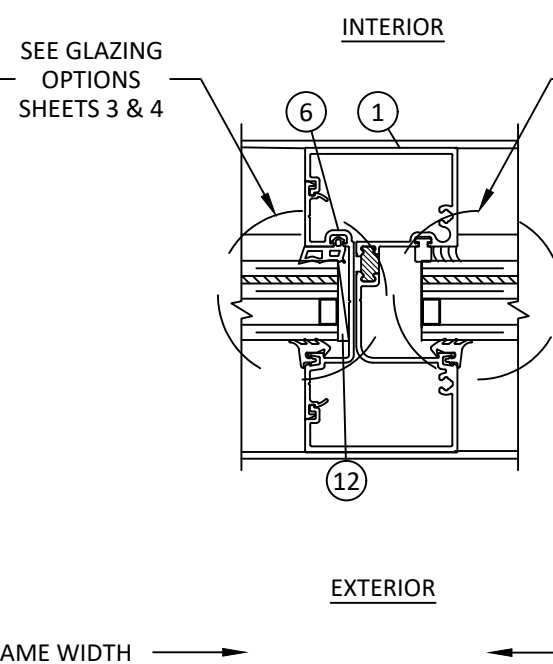
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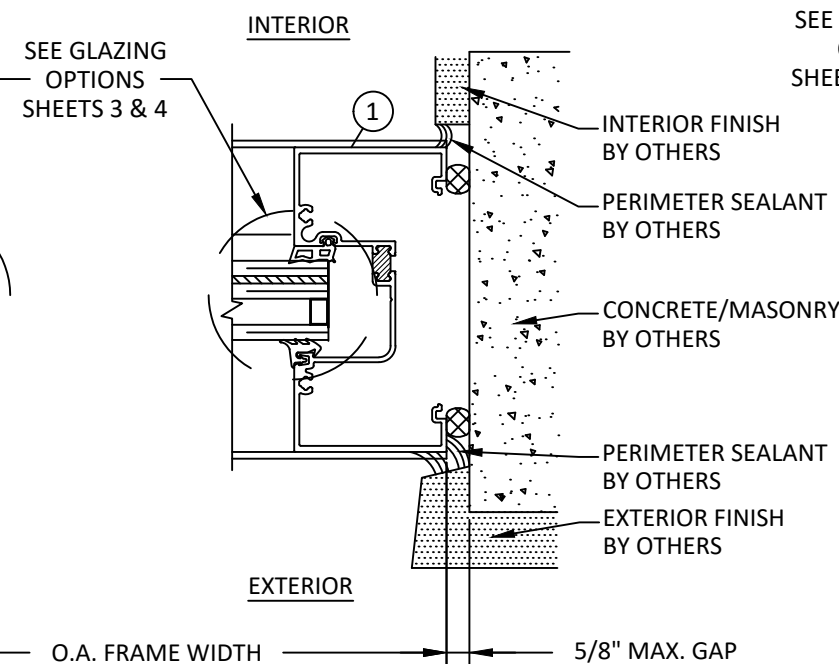
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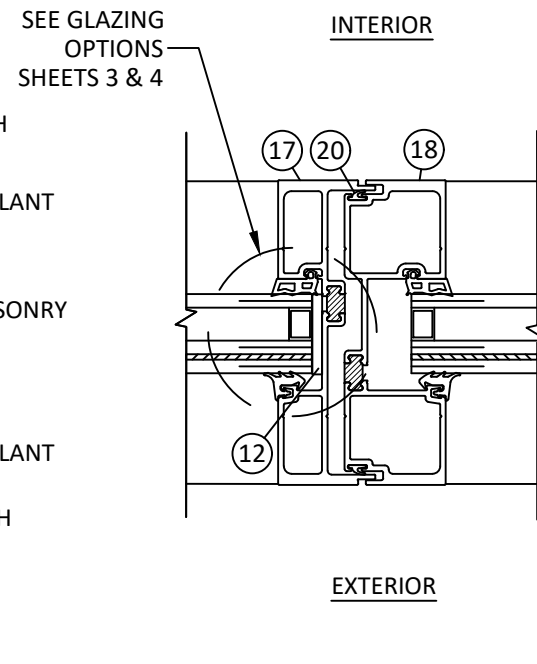
F **HORIZONTAL SECTION**
11 JAMB - CONCRETE/MASONRY W/ 1X BUCK
STANDARD CONFIGURATION



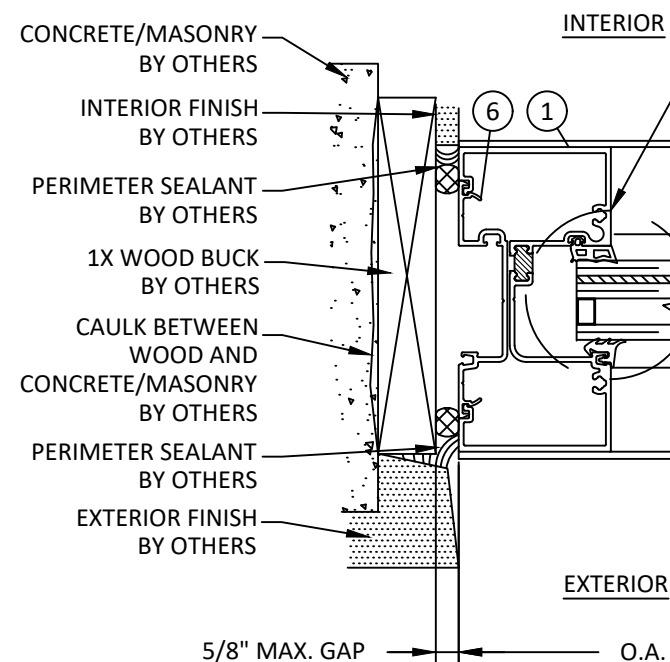
G **HORIZONTAL SECTION**
11 VERTICAL MULLION
STANDARD CONFIGURATION



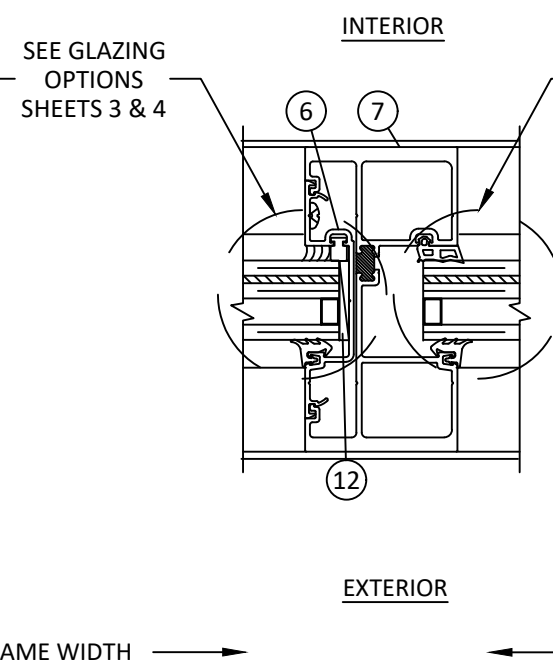
H **HORIZONTAL SECTION**
11 JAMB - DIRECT TO CONCRETE/MASONRY
STANDARD CONFIGURATION



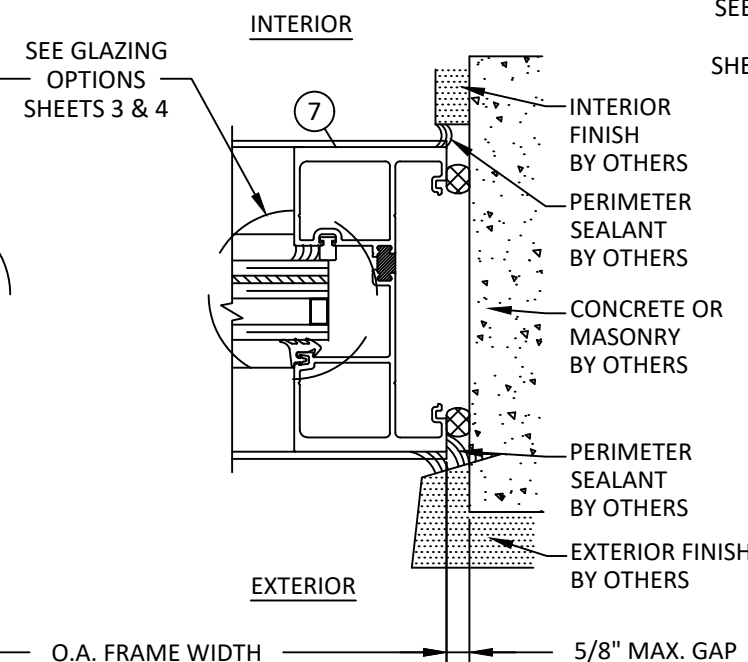
I **HORIZONTAL SECTION**
11 VERTICAL EXPANSION MULLION



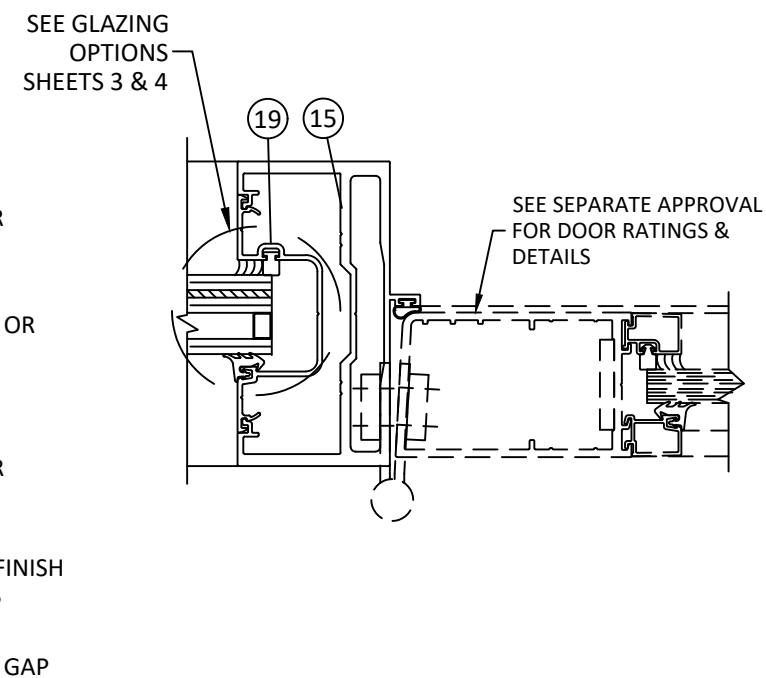
J **HORIZONTAL SECTION**
11 JAMB - CONCRETE/MASONRY W/ 1X BUCK
HEAVY CONFIGURATION



K **HORIZONTAL SECTION**
11 VERTICAL MULLION
HEAVY CONFIGURATION



L **HORIZONTAL SECTION**
11 JAMB - DIRECT TO CONCRETE/MASONRY
HEAVY CONFIGURATION



M **HORIZONTAL SECTION**
11 DOOR JAMB MULLION



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TITLE: YHS 50 TU ALUMINUM STOREFRONT
SYSTEM - OUTSIDE GLAZED
(WZ3) (IMPACT)

HORIZONTAL SECTIONS

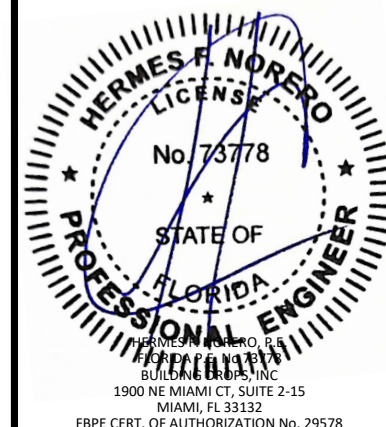
PREPARED BY: BUILDING DROPS, INC.

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MIAMI, FL 33132
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REMARKS	BY	DATE
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FL14218

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SM

CHK. BY:
HFN

SCALE: NTS

DWG. #: YKK166

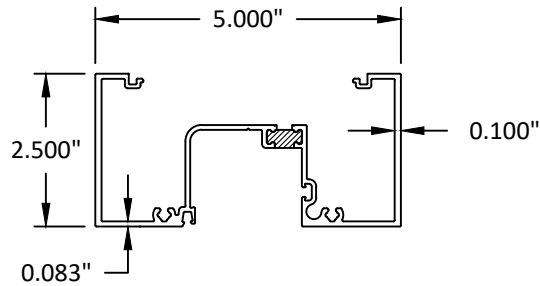
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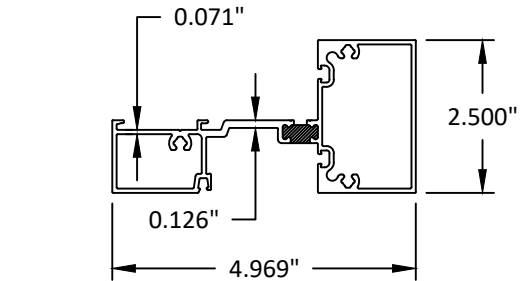
REV.

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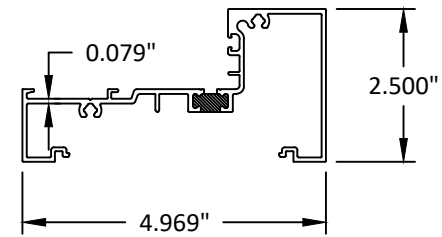
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1	BE9-0681	HEAD / JAMB / VERTICAL	6063-T5
2	BE9-0683	HORIZONTAL	6063-T5
3	BE9-0682	SILL	6063-T5
4	E1-1060	ANCHOR FILLER	6063-T5
5	BE9-0687	SILL FLASHING	6063-T5
6	BE9-0655	SHALLOW POCKET FILLER	6063-T5
7	BE9-0684	HEAVY DUTY VERTICAL	6063-T5
8	E9-0658	GLASS STOP	6063-T5
9	E2-0083	EXTERIOR GLAZING GASKET	EPDM
10	E2-0088	INTERIOR GLAZING GASKET	EPDM
11	E2-0095	SETTING BLOCK	EPDM (85±5)
12	E2-0096	SIDE BLOCK	EPDM
13	PC-1220	#12 x 1-1/4" PHSMS Type AB	ZINC PLATED STEEL
14	PC-1424	#14 x 1-1/2" PHSMS Type AB	ZINC PLATED STEEL
15	E9-0504	DOOR JAMB O/P	6063-T6
16	E2-0084	INTERIOR SILICONE SPACER	SILICONE
17	BE9-0634	EXPANSION MULLION (MALE)	6063-T5
18	BE9-0635	EXPANSION MULLION (FEMALE)	6063-T5
19	E9-0656	DEEP POCKET FILLER	6063-T5
20	E2-0065	WEATHERING GASKET	EPDM
21	E1-1062	STEEL CHANNEL (1-1/2" X 4-1/2" X 3/16")	A36 STEEL
22	BY7-8506	5" HORIZONTAL	6063-T5



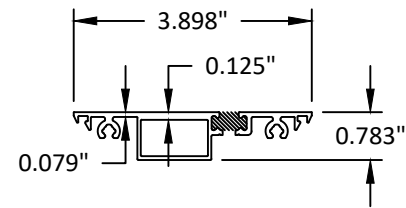
1 HEAD/JAMB/VERTICAL



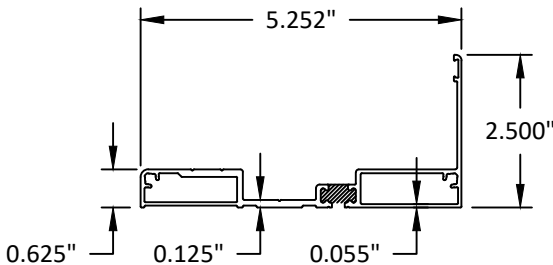
2 HORIZONTAL



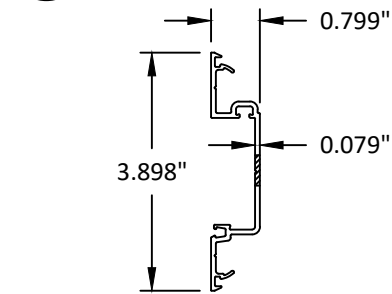
3 SILL



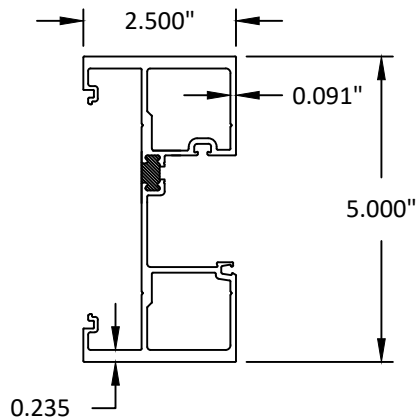
4 ANCHOR FILLER



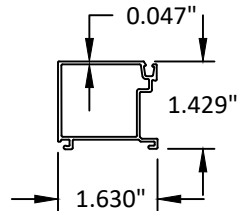
5 SILL FLASHING



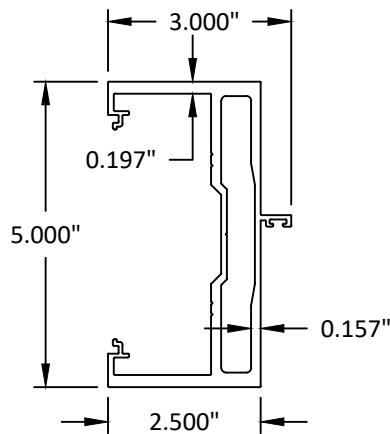
6 SHALLOW POCKET FILLER



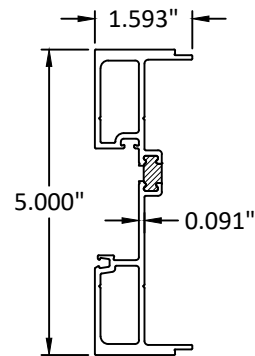
7 HEAVY DUTY VERTICAL



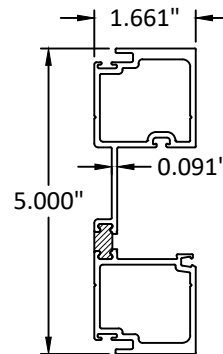
8 GLAZING STOP



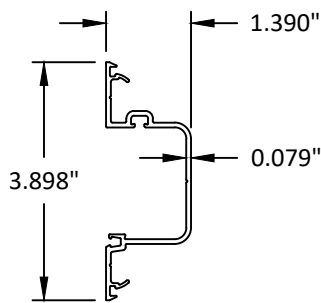
15 DOOR MULLION O/P



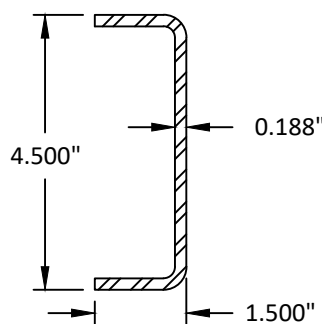
17 EXPANSION MULLION (MALE)



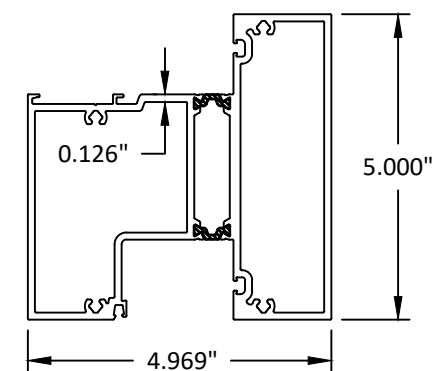
18 EXPANSION MULLION (FEMALE)



19 DEEP POCKET FILLER



21 DOOR MULLION REINFORCEMENT



22 5" HORIZONTAL



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SYSTEM - OUTSIDE GLAZED
(WZ3) (IMPACT)

COMPONENTS & BILL OF MATERIALS

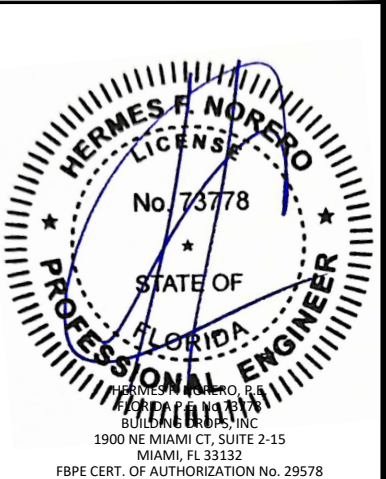
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CHK. BY: HFN

SCALE: NTS

DWG. #: YKK166

SHEET: 12
REV. D