

# YKK AP AMERICA INC.

## SERIES YHS 50 FI STOREFRONT

### OUTSIDE GLAZED - HVHZ IMPACT RATED

INSTALLATION NOTES:

- SEE SHEET 15 & 16 FOR ANCHOR TYPE REQUIREMENTS, MINIMUM EMBEDMENTS, AND MINIMUM EDGE DISTANCES. ALL ANCHOR REQUIREMENTS MUST BE ADHERED TO. ANY DEVIATIONS FROM ANCHOR REQUIREMENTS REQUIRES SEPARATE EVALUATION AND APPROVAL.
- 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.
- 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 WITH 2X WOOD BACKING.
  - ALUMINUM - MINIMUM 1/8 INCH THICK 6063-T5 ALUMINUM.

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
  - TAS 201-94
  - TAS 202-94
  - TAS 203-94
  - AAMA 501-05
  - ASTM E1886-05
  - ASTM E1996-06
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE. SEE SHEETS 3, 4 & 5 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 MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEETS 3, 4 & 5 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 & 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 6, 7, 8, 9 & 10 FOR STORE FRONT MULLION AND SHEETS 13 & 14 FOR DOOR MULLION, THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- USING CHART ON SHEET 11 & 12 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  
1229 HWY 441 BYPASS  
DUBLIN, GEORGIA 31021  
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 FI ALUMINUM STOREFRONT SYSTEM

INSTALLATION & GENERAL NOTES

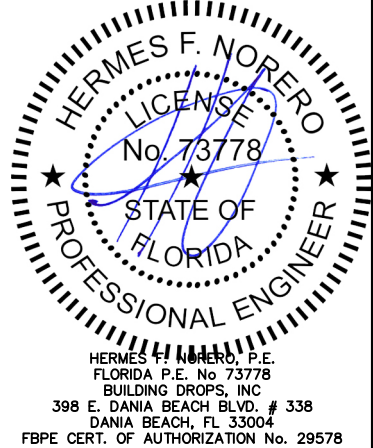
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REMARKS	BY	DATE
A-UPDATES PER COMMENTS	MS	04.20.16
B-FBC CODE UPDATE	RV	07.12.17

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FL #:

FL14218

DATE: 11.18.15

DWG. BY: SM

CHK. BY: HFN

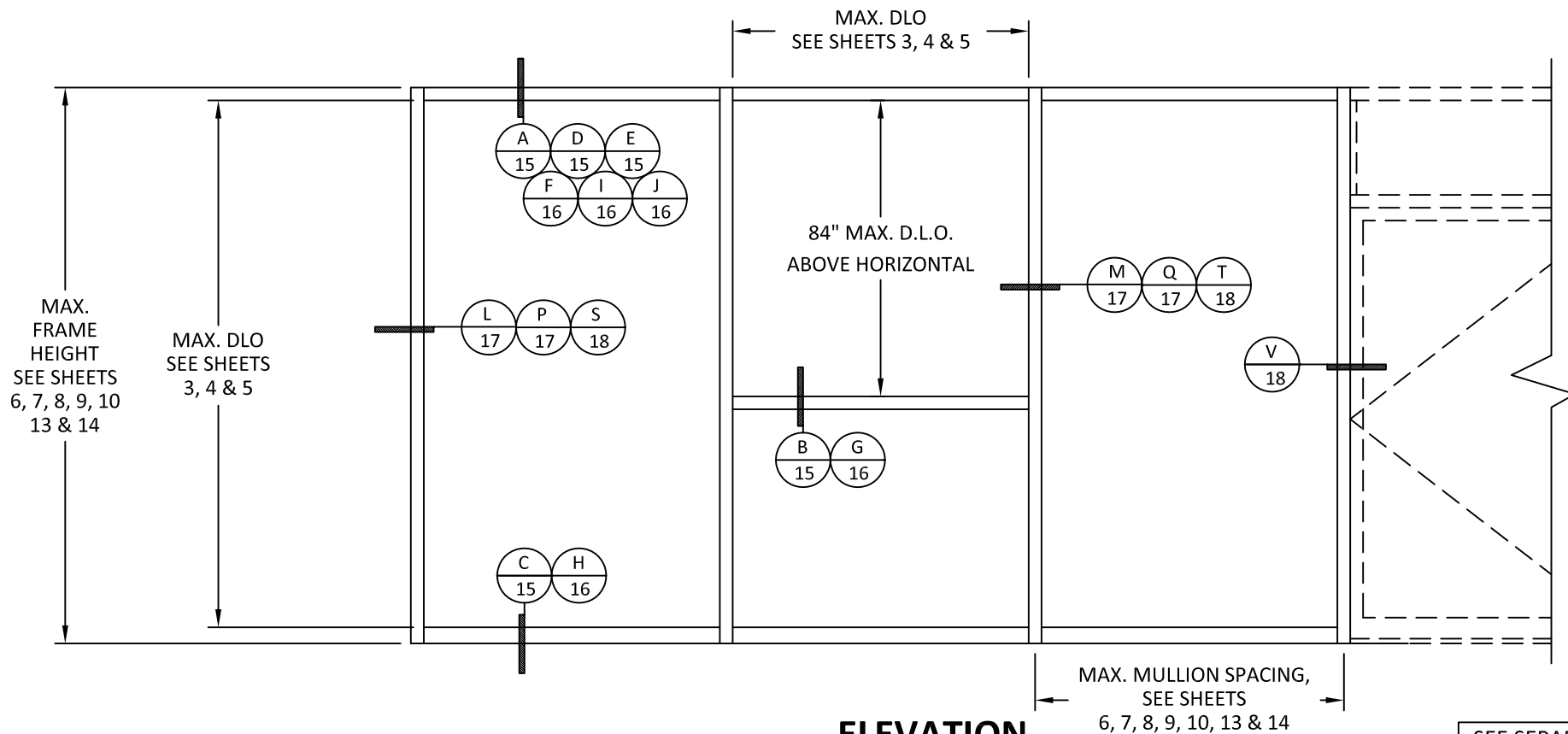
SCALE: NTS

DWG. #: YKK159

SHEET:

1

OF 20

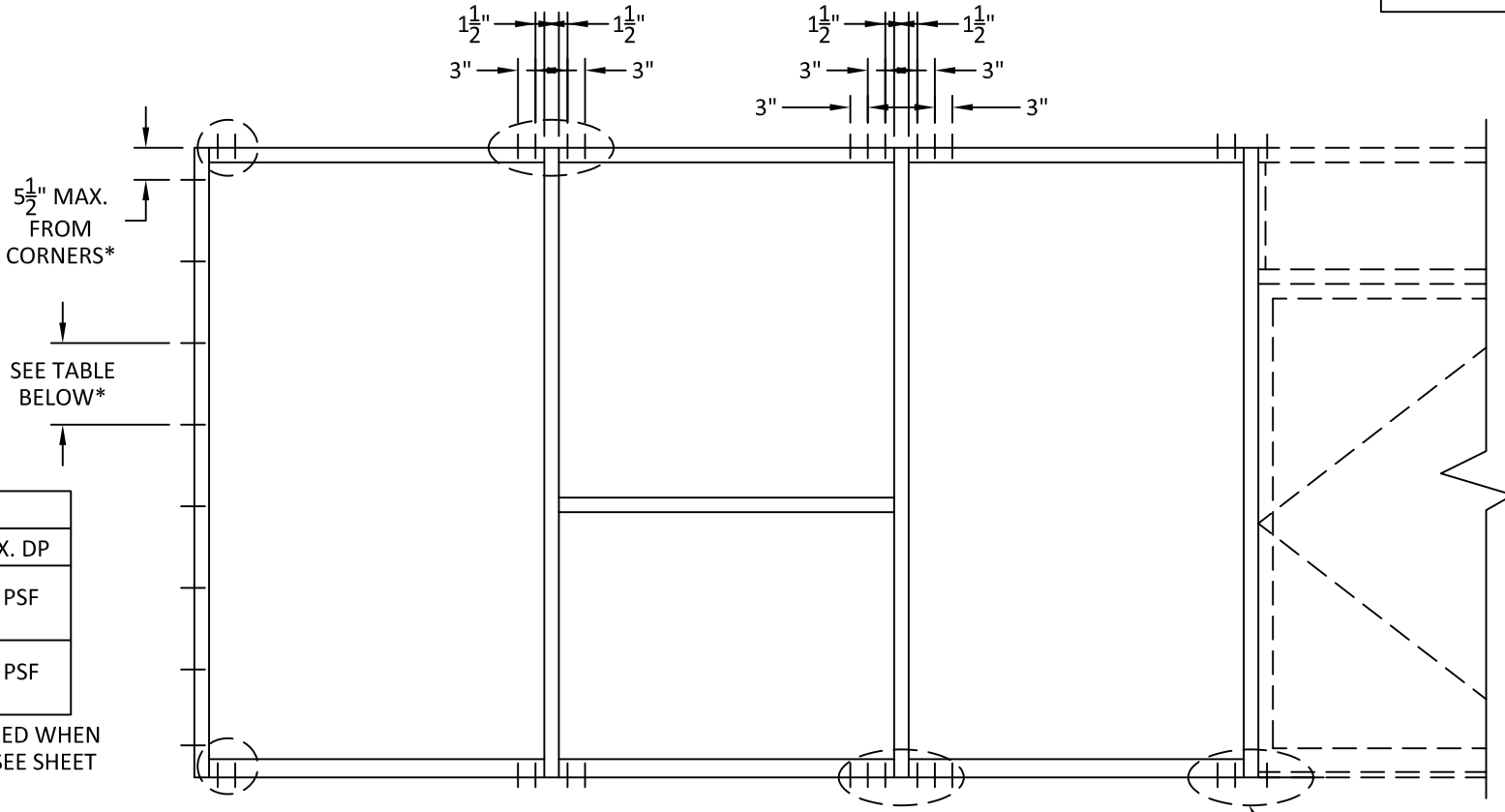


**ELEVATION**  
**TYPICAL YHS 50 FI STOREFRONT**

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

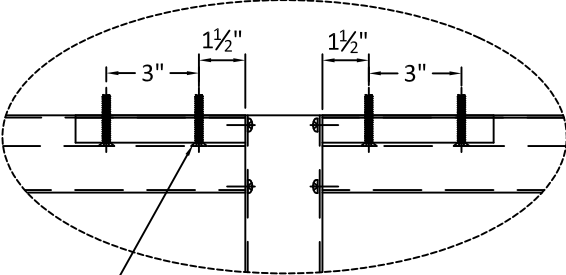
JAMB ANCHOR SPACING*		
ANCHOR TYPE	MAX. SPACING	MAX. DP
A OR B	18.75"	65 PSF
C OR D	13"	
A OR B	13.5"	90 PSF
C OR D	9.375"	

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

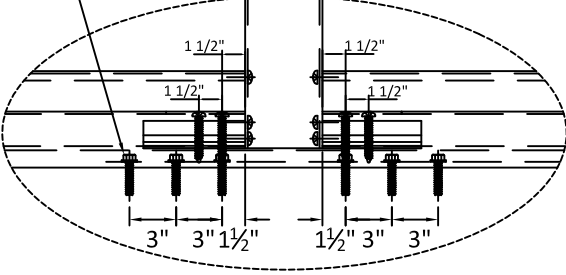


**TYPICAL ANCHOR LAYOUT**

FOR DOOR ADJACENT  
MULLION ANCHOR  
REQUIREMENTS SEE  
SHEETS 13 & 14



ANCHORS, TYPE A, B, C OR D  
SEE SHEETS 11 & 12 FOR QUANTITIES AND  
SHEETS 15 & 16 FOR DESCRIPTION



ANCHORS, TYPE A, B, C OR D  
SEE SHEETS 11 & 12 FOR QUANTITIES AND  
SHEETS 15 & 16 FOR DESCRIPTION



**YKK AP AMERICA**

1229 HWY 441 BYPASS  
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TITLE: **YHS 50 FI**  
**ALUMINUM STOREFRONT SYSTEM**

ELEVATION &  
ANCHOR LAYOUT

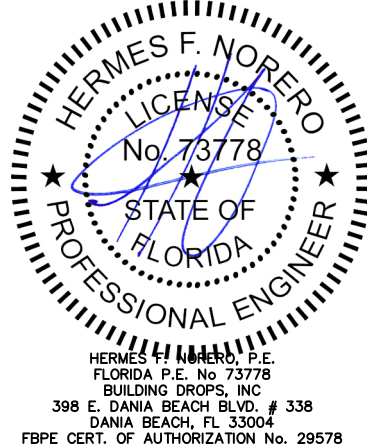
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REMARKS	BY	DATE

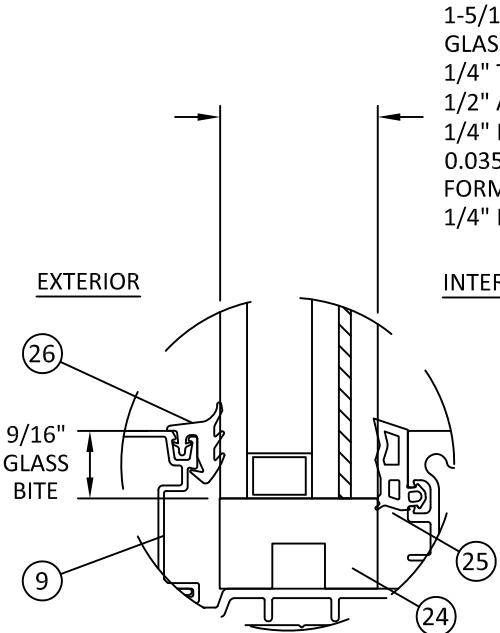
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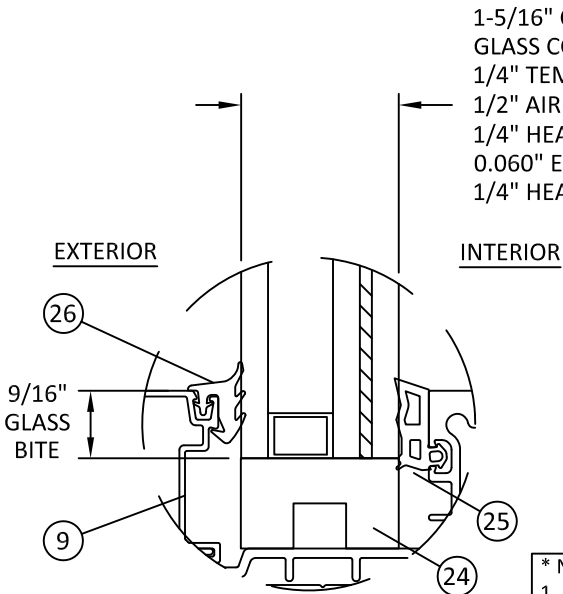
FL #:	<b>FL14218</b>
DATE:	<b>11.18.15</b>
DWG. BY:	<b>SM</b>
CHK. BY:	<b>HFN</b>
SCALE:	<b>NTS</b>
DWG. #:	<b>YKK159</b>
SHEET:	<b>2</b>

GLASS TYPES  
SMALL MISSILE IMPACT ONLY

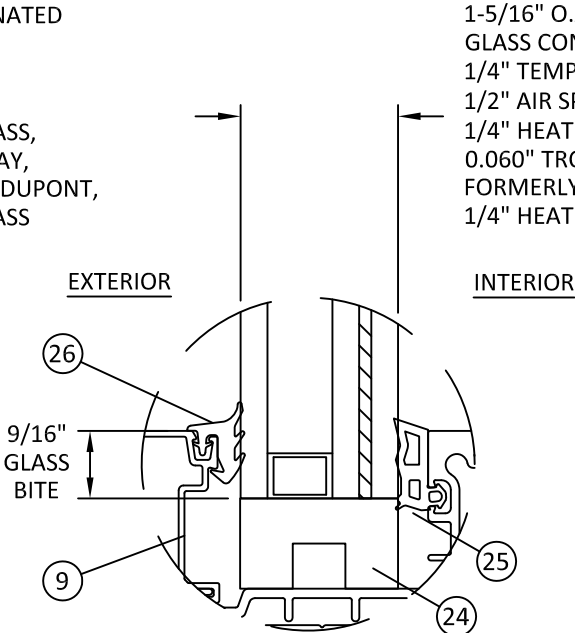
GLASS LOAD CAPACITY (PSF)					GLASS LOAD CAPACITY (PSF)				
DAYLIGHT OPENING (IN)		GLASS TYPES I OR J		GLASS TYPE K	DAYLIGHT OPENING (IN)		GLASS TYPES I OR J		GLASS TYPE K
DLO WIDTH	DLO HEIGHT	EXT. (+)	INT. (-)	EXT. (+) INT. (-)	DLO WIDTH	DLO HEIGHT	EXT. (+)	INT. (-)	EXT. (+) INT. (-)
27.5	54.375	70.0	90.0	70.0	27.5	90.375	70.0	90.0	70.0
33.5		70.0	90.0	70.0	33.5		70.0	90.0	70.0
39.5		70.0	90.0	70.0	39.5		70.0	90.0	70.0
45.5		70.0	90.0	70.0	45.5		70.0	90.0	70.0
51.5		70.0	90.0	70.0	51.5		70.0	90.0	70.0
57.5		70.0	90.0	70.0	57.5		70.0	90.0	70.0
63.5	60.375	70.0	90.0	68.4	63.5	96.375	63.4	81.5	63.4
69.5		70.0	90.0	70.0	69.5		57.9	74.5	47.2
27.5		70.0	90.0	70.0	27.5		70.0	90.0	70.0
33.5		70.0	90.0	70.0	33.5		70.0	90.0	70.0
39.5		70.0	90.0	70.0	39.5		70.0	90.0	70.0
45.5		70.0	90.0	70.0	45.5		70.0	90.0	70.0
51.5	66.375	70.0	90.0	70.0	51.5	102.375	70.0	90.0	70.0
57.5		70.0	90.0	70.0	57.5		70.0	90.0	70.0
63.5		70.0	90.0	70.0	63.5		63.4	81.5	51.7
69.5		70.0	90.0	70.0	66.5		60.5	77.8	49.4
27.5		70.0	90.0	70.0	27.5		70.0	90.0	70.0
33.5		70.0	90.0	70.0	33.5		70.0	90.0	70.0
39.5	72.375	70.0	90.0	70.0	39.5	108.375	70.0	90.0	70.0
45.5		70.0	90.0	70.0	45.5		70.0	90.0	70.0
51.5		70.0	90.0	70.0	51.5		70.0	90.0	70.0
57.5		70.0	90.0	70.0	57.5		70.0	90.0	70.0
63.5		63.4	81.5	63.4	63.5		63.4	81.5	51.7
69.5		63.5	81.6	63.5	27.5	114.375	70.0	90.0	70.0
27.5	78.375	70.0	90.0	70.0	33.5		70.0	90.0	70.0
33.5		70.0	90.0	70.0	39.5		70.0	90.0	70.0
39.5		70.0	90.0	70.0	45.5		70.0	90.0	70.0
45.5		70.0	90.0	70.0	51.5		70.0	90.0	57.1
51.5		70.0	90.0	70.0	57.5		70.0	90.0	57.1
57.5	84.375	70.0	90.0	70.0	60.5	120.375	66.5	85.5	54.3
63.5		63.4	81.5	63.4	27.5		70.0	90.0	70.0
69.5		57.9	74.5	57.9	33.5		70.0	90.0	70.0
27.5		70.0	90.0	70.0	39.5		70.0	90.0	70.0
33.5		70.0	90.0	70.0	45.5	126.375	70.0	90.0	70.0
39.5		70.0	90.0	70.0	51.5		70.0	90.0	57.1
45.5		70.0	90.0	70.0	57.5		70.0	90.0	57.1
51.5		70.0	90.0	70.0	27.5	132.375	70.0	90.0	70.0
57.5		70.0	90.0	70.0	33.5		70.0	90.0	70.0
63.5		63.4	81.5	63.4	38.5		70.0	90.0	70.0
69.5		57.9	74.5	57.9	27.5	138.375	70.0	90.0	70.0
27.5		70.0	90.0	70.0	33.5		70.0	90.0	70.0
33.5		70.0	90.0	70.0	36.5		70.0	90.0	70.0
39.5		70.0	90.0	70.0	27.5		70.0	90.0	70.0
45.5		70.0	90.0	70.0	33.5		70.0	90.0	70.0
51.5		70.0	90.0	70.0	34.5		70.0	90.0	70.0
57.5		70.0	90.0	70.0	27.5		70.0	90.0	70.0
63.5		63.4	81.5	63.4	33.5		70.0	90.0	70.0
69.5		57.9	74.5	57.9					



GLAZING DETAIL I  
(DRY GLAZED)



GLAZING DETAIL K  
(DRY GLAZED)

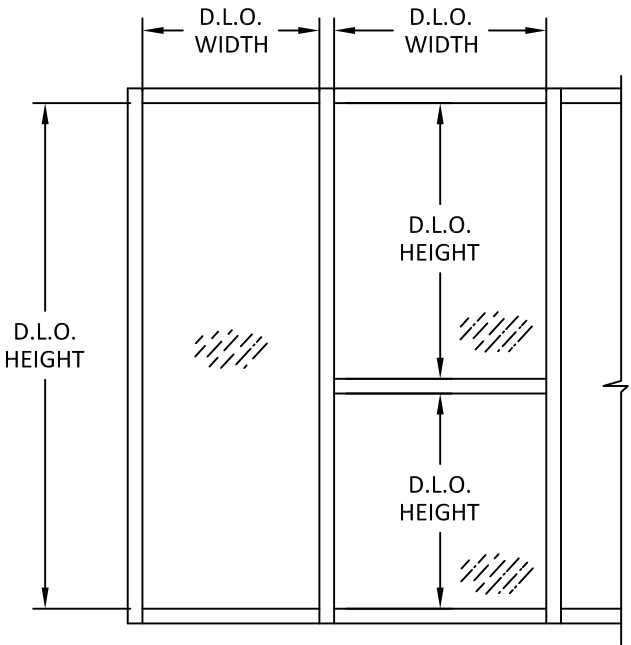


GLAZING DETAIL J  
(DRY GLAZED)

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

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

- \* NOTE:
- GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-04 (3 SEC. GUSTS) AND CHAPTER 17 OF THE CURRENT FBC FOR SIZES OTHER THAN TESTED.
  - SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
  - SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER CHAPTER 24.
  - D.L.O. MAY NOT EXCEED MAX DIMENSIONS IN GLASS CHARTS FOR GLASS TYPE.



YKK AP AMERICA

1229 HWY 441 BYPASS  
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TITLE: YHS 50 FI  
ALUMINUM STOREFRONT SYSTEM

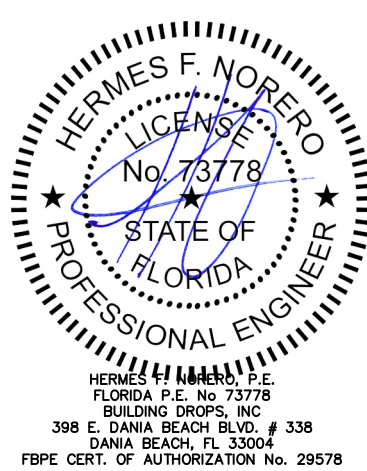
SMI GLAZING DETAILS

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REMARKS	BY	DATE
A-GASKET REVISION	LS	10.19.16
B-FBC CODE UPDATE	RV	07.12.17

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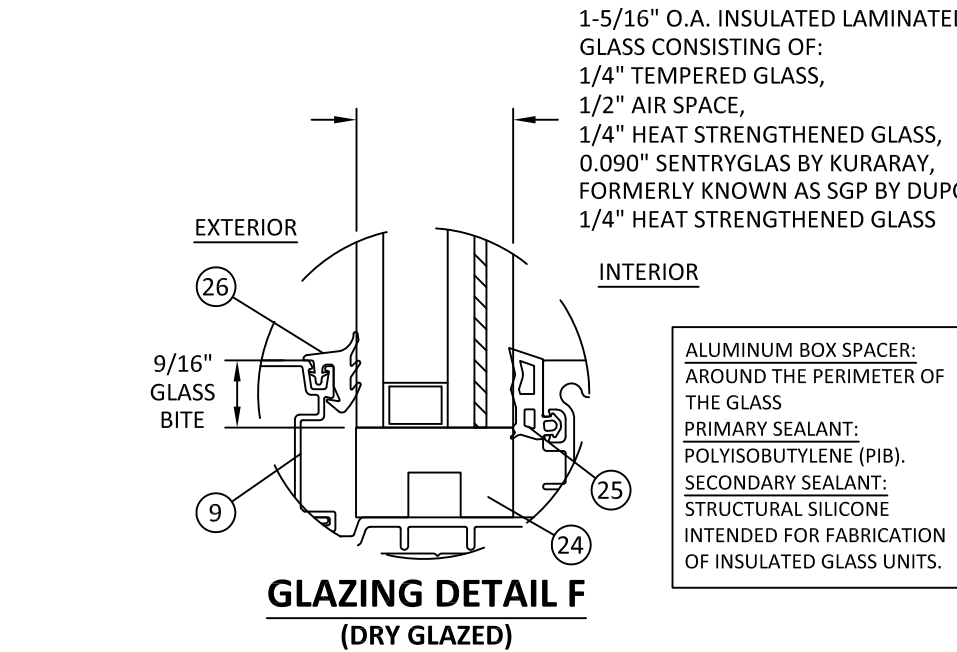
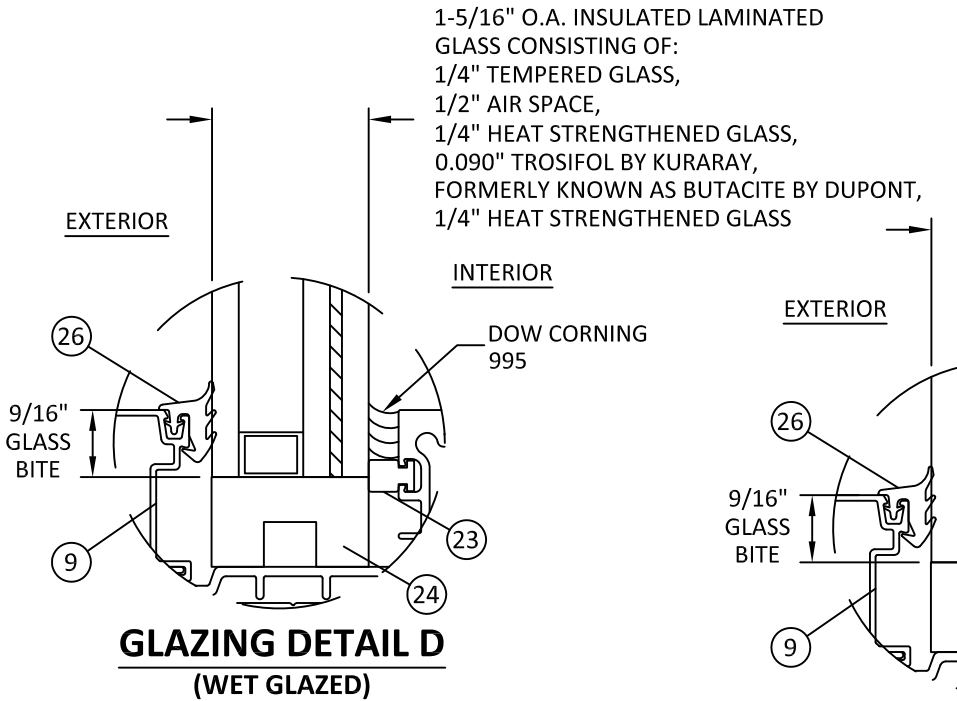
FL #:	FL14218
DATE:	11.18.15
DWG. BY:	SM
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK159
SHEET:	



GLASS TYPES  
LARGE & SMALL MISSILE IMPACT

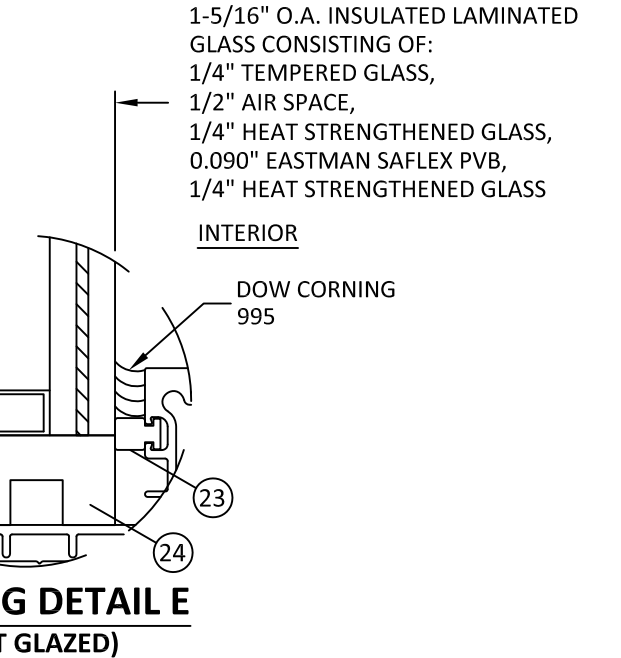
GLASS LOAD CAPACITY (PSF)					
DAYLIGHT OPENING (IN)		GLASS TYPES D OR E	GLASS TYPE F		GLASS TYPES G OR H
DLO WIDTH	DLO HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	INT. (-) EXT. (+)	EXT. (+) INT. (-)
27.5	54.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	90.0	70.0
45.5		50.0	70.0	88.5	70.0
51.5		44.2	70.0	78.2	70.0
57.5		44.2	70.0	78.3	70.0
63.5	60.375	48.7	70.0	79.7	70.0
69.5		41.8	68.4	68.4	68.4
27.5		50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	90.0	70.0
45.5		50.0	70.0	88.5	70.0
51.5	66.375	44.2	70.0	78.2	70.0
57.5		39.6	70.0	70.0	70.0
63.5		39.6	70.0	70.1	70.0
69.5		43.4	70.0	73.6	70.0
27.5	72.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	90.0	70.0
45.5		50.0	70.0	88.5	70.0
51.5		44.2	70.0	78.2	70.0
57.5		39.6	70.0	70.0	70.0
63.5	78.375	35.8	63.4	63.4	63.4
69.5		35.9	63.5	63.5	63.5
27.5		50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	90.0	70.0
45.5		50.0	70.0	88.5	70.0
51.5	84.375	44.2	70.0	78.2	70.0
57.5		39.6	70.0	70.0	70.0
63.5		-	63.4	63.4	63.4
69.5		-	57.9	57.9	57.9
27.5	90.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	90.0	70.0
45.5		50.0	70.0	88.5	70.0
51.5		44.2	70.0	78.2	70.0
57.5		-	70.0	70.0	70.0
63.5	96.375	-	63.4	63.4	63.4
69.5		-	53.8	53.8	-
27.5	102.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	90.0	70.0
45.5		50.0	70.0	81.8	70.0
51.5		-	70.0	75.1	70.0
57.5	108.375	-	70.0	70.0	70.0
63.5		-	58.9	58.9	-
27.5	114.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	88.6	70.0
45.5		-	70.0	79.4	70.0
51.5		-	65.0	65.0	-
57.5	120.375	-	61.8	61.8	-
63.5		50.0	70.0	90.0	70.0
69.5	126.375	50.0	70.0	90.0	70.0
27.5		50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	89.5	70.0
45.5	132.375	50.0	70.0	90.0	70.0
51.5		50.0	70.0	90.0	70.0
57.5		50.0	70.0	90.0	70.0
63.5	138.375	50.0	70.0	90.0	70.0
69.5		50.0	70.0	90.0	70.0
27.5	144.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	90.0	70.0
45.5		50.0	70.0	87.1	70.0
51.5		44.2	70.0	78.2	70.0
57.5		-	70.0	70.0	70.0
63.5	150.375	-	63.4	63.4	63.4
69.5		-	57.9	57.9	57.9

GLASS LOAD CAPACITY (PSF)					
DAYLIGHT OPENING (IN)		GLASS TYPES D OR E	GLASS TYPE F		GLASS TYPES G OR H
DLO WIDTH	DLO HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	INT. (-) EXT. (+)	EXT. (+) INT. (-)
27.5	54.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	90.0	70.0
45.5		50.0	70.0	88.5	70.0
51.5		44.2	70.0	78.2	70.0
57.5		44.2	70.0	78.3	70.0
63.5	60.375	48.7	70.0	79.7	70.0
69.5		41.8	68.4	68.4	68.4
27.5		50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	90.0	70.0
45.5		50.0	70.0	88.5	70.0
51.5	66.375	44.2	70.0	78.2	70.0
57.5		39.6	70.0	70.0	70.0
63.5		39.6	70.0	70.1	70.0
69.5		43.4	70.0	73.6	70.0
27.5	72.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	90.0	70.0
45.5		50.0	70.0	88.5	70.0
51.5		44.2	70.0	78.2	70.0
57.5		39.6	70.0	70.0	70.0
63.5	78.375	35.8	63.4	63.4	63.4
69.5		35.9	63.5	63.5	63.5
27.5		50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	90.0	70.0
45.5		50.0	70.0	88.5	70.0
51.5	84.375	44.2	70.0	78.2	70.0
57.5		39.6	70.0	70.0	70.0
63.5		-	63.4	63.4	63.4
69.5		-	57.9	57.9	57.9
27.5	90.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	90.0	70.0
45.5		50.0	70.0	88.5	70.0
51.5		44.2	70.0	78.2	70.0
57.5		-	70.0	70.0	70.0
63.5	96.375	-	63.4	63.4	63.4
69.5		-	53.8	53.8	-
27.5	102.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	90.0	70.0
45.5		50.0	70.0	81.8	70.0
51.5		-	70.0	75.1	70.0
57.5	108.375	-	70.0	70.0	70.0
63.5		-	58.9	58.9	-
27.5	114.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	88.6	70.0
45.5		-	70.0	79.4	70.0
51.5		-	65.0	65.0	-
57.5	120.375	-	61.8	61.8	-
63.5		50.0	70.0	90.0	70.0
69.5	126.375	50.0	70.0	90.0	70.0
27.5		50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	89.5	70.0
45.5	132.375	50.0	70.0	90.0	70.0
51.5		50.0	70.0	90.0	70.0
57.5		50.0	70.0	90.0	70.0
63.5	138.375	50.0	70.0	90.0	70.0
69.5		50.0	70.0	90.0	70.0
27.5	144.375	50.0	70.0	90.0	70.0
33.5		50.0	70.0	90.0	70.0
39.5		50.0	70.0	90.0	70.0
45.5		50.0	70.0	87.1	70.0
51.5		44.2	70.0	78.2	70.0
57.5		-	70.0	70.0	70.0
63.5	150.375	-	63.4	63.4	63.4
69.5		-	57.9	57.9	57.9

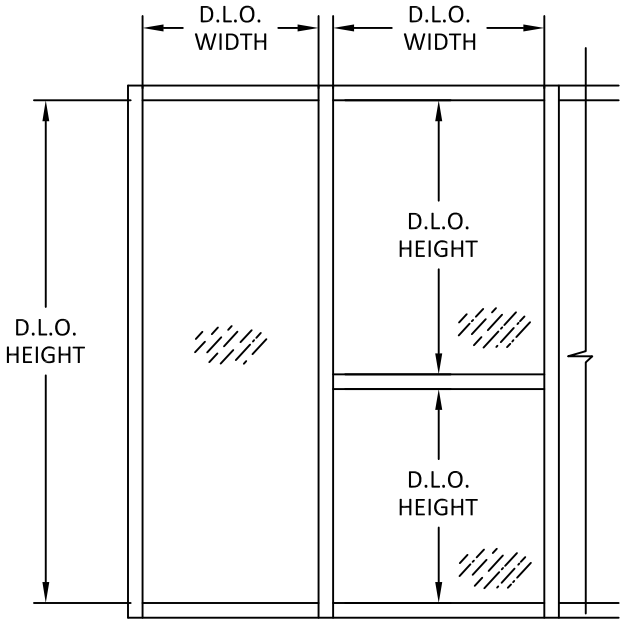


GLAZING DETAILS CONTINUED ON NEXT PAGE

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 E1300-04 (3 SEC. GUSTS) AND CHAPTER 17 OF THE CURRENT FBC FOR SIZES OTHER THAN TESTED.
  - SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
  - SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER CHAPTER 24.
  - D.L.O. MAY NOT EXCEED MAX DIMENSIONS IN GLASS CHARTS FOR GLASS TYPE.



YKK AP AMERICA

1229 HWY 441 BYPASS  
DUBLIN, GEORGIA 31021  
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 FI  
ALUMINUM STOREFRONT SYSTEM

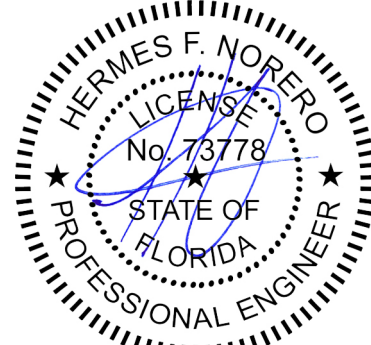
LMI GLAZING DETAILS

PREPARED BY:  
BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



REMARKS	BY	DATE
A-UPDATES PER COMMENTS	MS	04.20.16
B-GASKET REVISION	LS	10.19.16
C-FBC CODE UPDATE	RV	07.12.17

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FLORIDA P.E. No. 73778  
BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD. # 338  
DANIA BEACH, FL 33004  
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL14218

DATE: 11.18.15

DWG. BY:  
SM

CHK. BY:  
HFN

SCALE: NTS

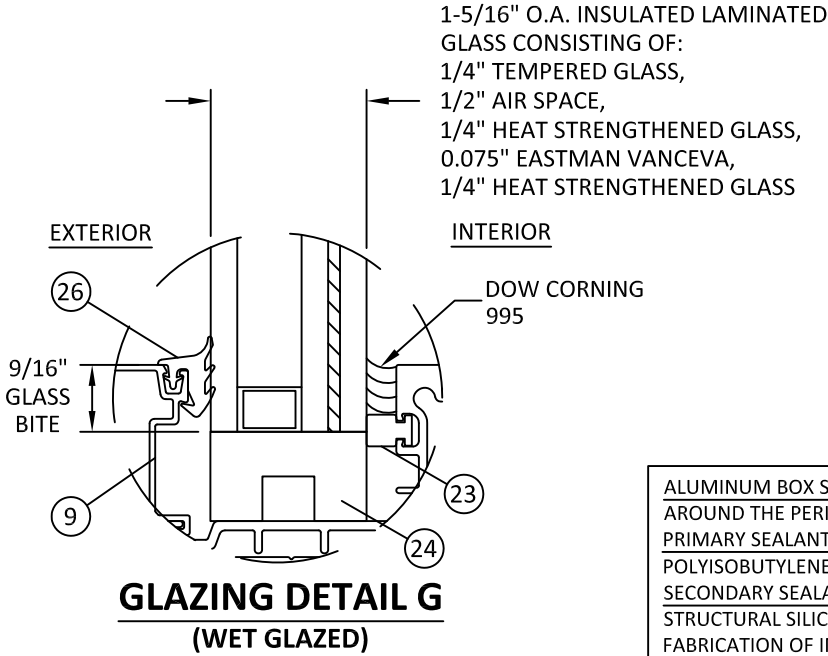
DWG. #: YKK159

SHEET:

4

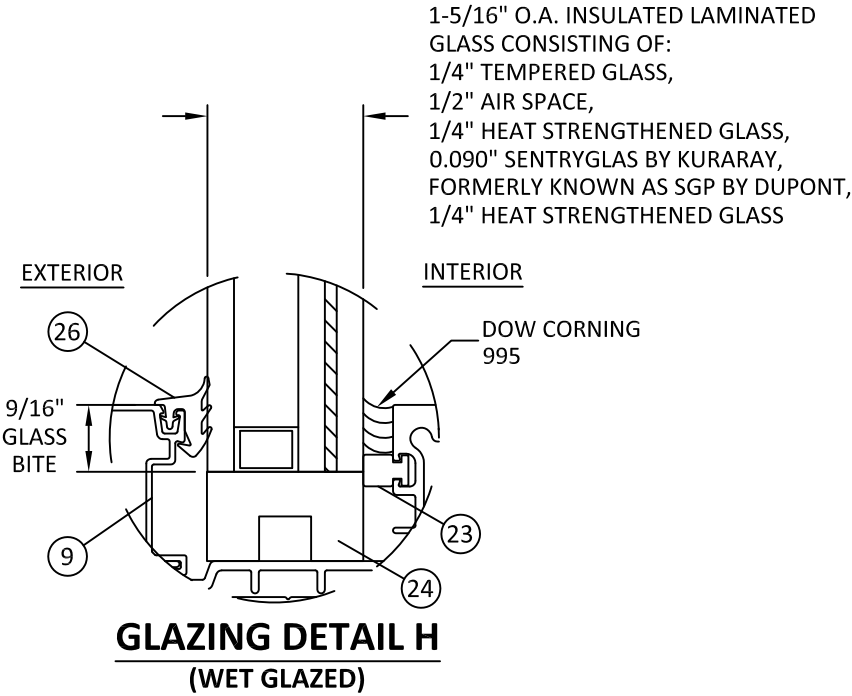
OF 20

GLASS TYPES  
LARGE & SMALL MISSILE IMPACT  
(CONTINUED)



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

- \* NOTE:
1. GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-04 (3 SEC. GUSTS) AND CHAPTER 17 OF THE CURRENT FBC FOR SIZES OTHER THAN TESTED.
  2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
  3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER CHAPTER 24.
  4. D.L.O. MAY NOT EXCEED MAX DIMENSIONS IN GLASS CHARTS FOR GLASS TYPE.



YKK AP AMERICA

1229 HWY 441 BYPASS  
DUBLIN, GEORGIA 31021  
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 FI  
ALUMINUM STOREFRONT SYSTEM

LMI GLAZING DETAILS

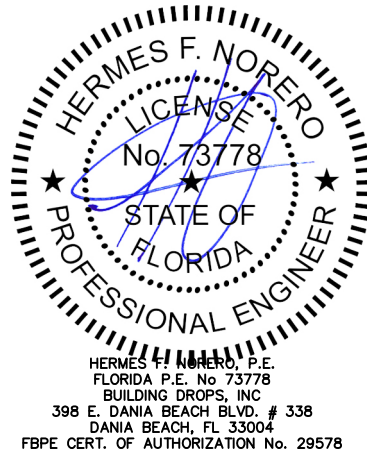
PREPARED BY: BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



REMARKS	BY	DATE
A-FBC CODE UPDATE	RV	07.12.17

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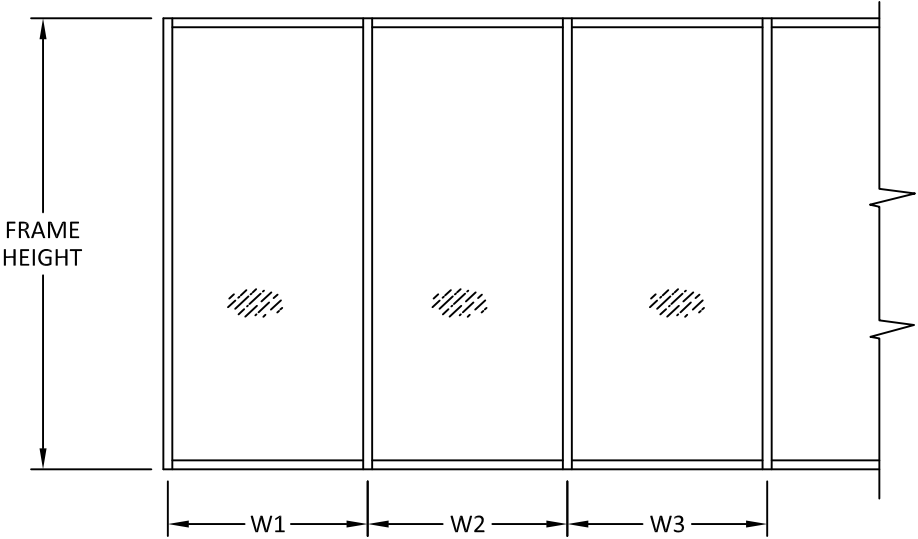
FL #:	FL14218
DATE:	11.18.15
DWG. BY:	SM
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK159
SHEET:	5

# MULLION LOAD TABLES

## LIGHT CONFIGURATION

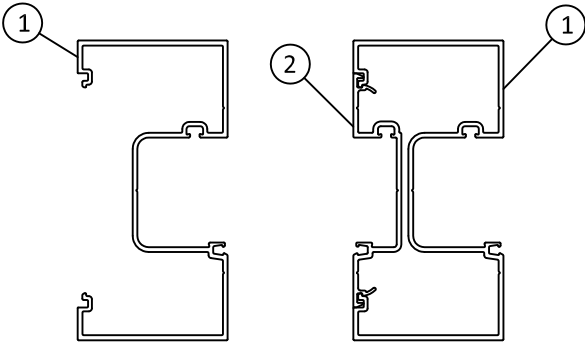
DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		LIGHT JAMB - J1	LIGHT MULLION - M1
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	72	50.0	50.0
33		50.0	50.0
36		50.0	50.0
39		50.0	50.0
42		50.0	50.0
45		50.0	50.0
48		50.0	50.0
51		50.0	50.0
54		50.0	50.0
57		50.0	50.0
60		50.0	50.0
63		50.0	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		50.0	50.0
60	84	50.0	50.0
63		50.0	50.0
66		50.0	50.0
69		50.0	50.0
72		50.0	50.0
75		50.0	50.0
78		50.0	50.0
81		50.0	50.0
84		50.0	50.0
87		50.0	50.0
90		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
60		50.0	50.0
63		50.0	50.0
66	96	50.0	50.0
69		50.0	50.0
72		50.0	50.0
75		50.0	50.0
78		50.0	50.0
81		50.0	47.9
84		50.0	45.1
87		50.0	42.6
90		50.0	50.0
93		50.0	50.0
96		50.0	50.0
99	102	50.0	50.0
102		50.0	50.0
105		50.0	50.0
108		50.0	50.0
111		50.0	48.5
114		50.0	45.2
117		50.0	42.4
120		50.0	40.7
123		50.0	50.0
126		50.0	50.0
129		50.0	50.0
132		50.0	50.0
135	108	50.0	50.0
138		50.0	50.0
141		50.0	50.0
144		50.0	46.6
147		50.0	43.2
150		50.0	40.3
153		50.0	37.8
156		50.0	50.0
159		50.0	50.0
162		50.0	50.0
165		50.0	50.0
168		50.0	50.0



WIDTH (W) = W1 (JAMB)

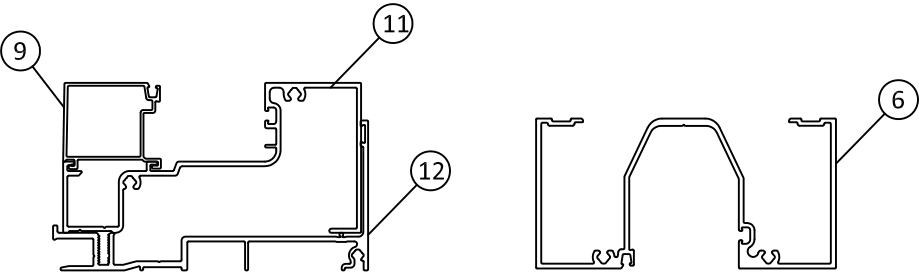
WIDTH (W) =  $\frac{W2 + W3}{2}$  (MULLION)



LIGHT JAMB - J1

LIGHT MULLION - M1

### LIGHT CONFIGURATION



LIGHT SILL

LIGHT HEAD

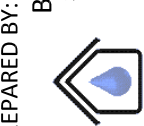


YKK AP AMERICA

1229 HWY 441 BYPASS  
DUBLIN, GEORGIA 31021  
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 FI  
ALUMINUM STOREFRONT SYSTEM

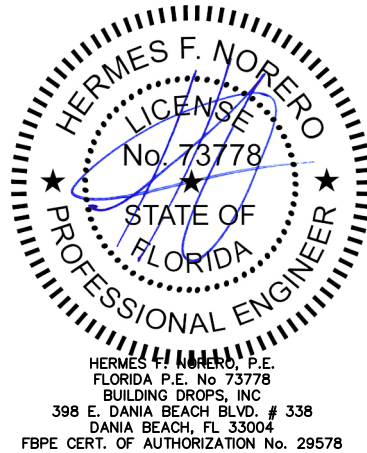
LIGHT MULL TABLES



PREPARED BY:  
BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)399-8478  
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**FL14218**

DATE: **11.18.15**

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SCALE: **NTS**

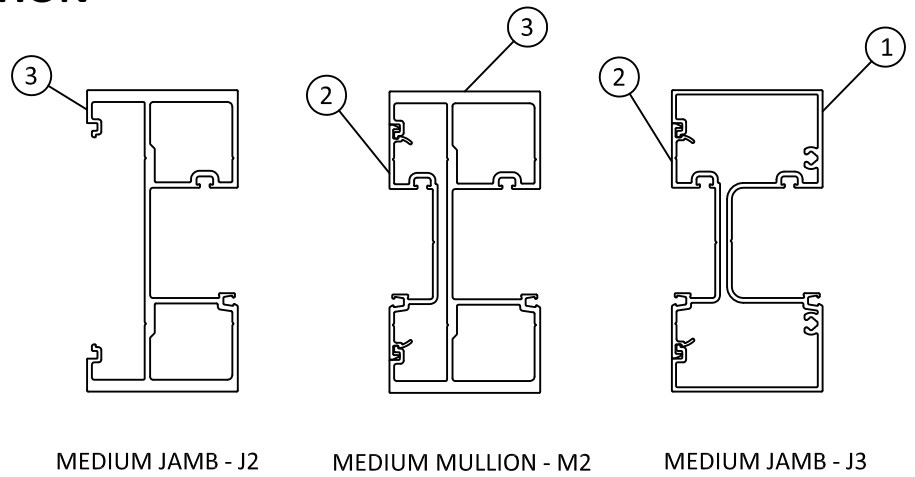
DWG. #: **YKK159**

SHEET:

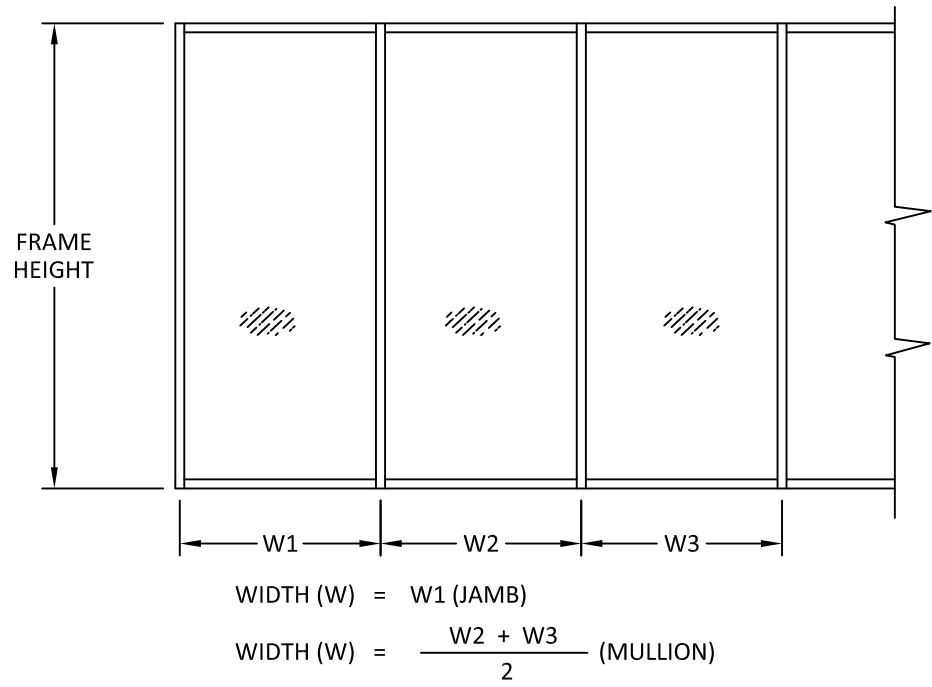
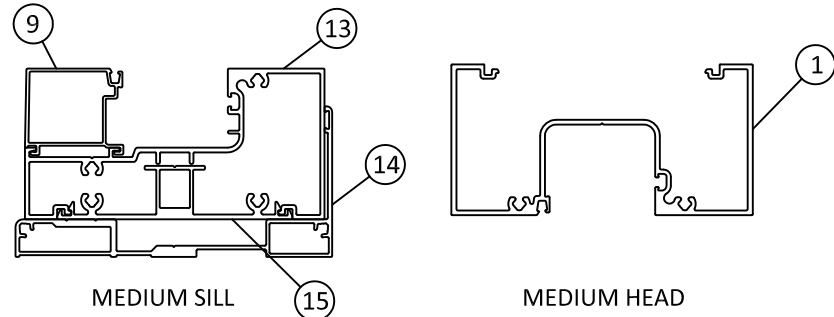
**6**

MULLION LOAD TABLES  
MEDIUM CONFIGURATION

DESIGN LOAD CAPACITY - PSF					DESIGN LOAD CAPACITY - PSF				
NOMINAL DIMS.		MEDIUM JAMB - J2	MEDIUM JAMB - J3	MEDIUM MULLION - M2	NOMINAL DIMS.		MEDIUM JAMB - J2	MEDIUM JAMB - J3	MEDIUM MULLION - M2
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	60	70.0	70.0	70.0	30	84	70.0	70.0	70.0
36		70.0	70.0	70.0	36		70.0	70.0	70.0
42		70.0	70.0	70.0	42		70.0	70.0	70.0
48		70.0	70.0	70.0	48		70.0	70.0	70.0
54		70.0	70.0	70.0	54		70.0	70.0	70.0
60		70.0	70.0	70.0	60		70.0	70.0	70.0
66		70.0	70.0	70.0	66		70.0	70.0	70.0
72	66	70.0	70.0	70.0	72	90	70.0	70.0	70.0
30		70.0	70.0	70.0	30		70.0	70.0	70.0
36		70.0	70.0	70.0	36		70.0	70.0	70.0
42		70.0	70.0	70.0	42		70.0	70.0	70.0
48		70.0	70.0	70.0	48		70.0	70.0	70.0
54		70.0	70.0	70.0	54		70.0	70.0	70.0
60		70.0	70.0	70.0	60		70.0	70.0	70.0
66	72	70.0	70.0	70.0	66	96	70.0	70.0	70.0
72		70.0	70.0	70.0	72		70.0	67.2	64.7
30		70.0	70.0	70.0	30		70.0	70.0	70.0
36		70.0	70.0	70.0	36		70.0	70.0	70.0
42		70.0	70.0	70.0	42		70.0	70.0	70.0
48		70.0	70.0	70.0	48		70.0	70.0	70.0
54		70.0	70.0	70.0	54		70.0	70.0	70.0
60	78	70.0	70.0	70.0	60	102	70.0	70.0	68.2
66		70.0	70.0	70.0	66		70.0	64.5	62.0
72		70.0	70.0	70.0	72		70.0	70.0	70.0
30		70.0	70.0	70.0	30	108	70.0	70.0	70.0
36		70.0	70.0	70.0	36		70.0	70.0	70.0
42		70.0	70.0	70.0	42		70.0	70.0	70.0
48		70.0	70.0	70.0	48		70.0	70.0	70.0
54		70.0	70.0	70.0	54		70.0	69.8	67.2
60		70.0	70.0	70.0	60		70.0	62.8	60.4
66	72	70.0	70.0	70.0	66		70.0	70.0	70.0
72		70.0	70.0	70.0	72		70.0	70.0	70.0
		70.0	70.0	70.0			70.0	70.0	70.0



MEDIUM CONFIGURATION



YKK AP AMERICA  
1229 HWY 441 BYPASS  
DUBLIN, GEORGIA 31021  
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 FI  
ALUMINUM STOREFRONT SYSTEM

MEDIUM MULL TABLES

PREPARED BY:  
BUILDING DROPS, INC.  
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DANIA BEACH, FL 33004  
PH: (954)399-8478  
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HERMES F. NORERO  
LICENSED PROFESSIONAL ENGINEER  
No. 73778  
STATE OF FLORIDA

HERMES F. NORERO, P.E.  
FLORIDA P.E. No. 73778  
BUILDING DROPS, INC  
398 E. DANIA BEACH BLVD. # 338  
DANIA BEACH, FL 33004  
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:  
**FL14218**

DATE:  
**11.18.15**

DWG. BY:  
**SM**

CHK. BY:  
**HFN**

SCALE:  
**NTS**

DWG. #:  
**YKK159**

SHEET:  
**7**

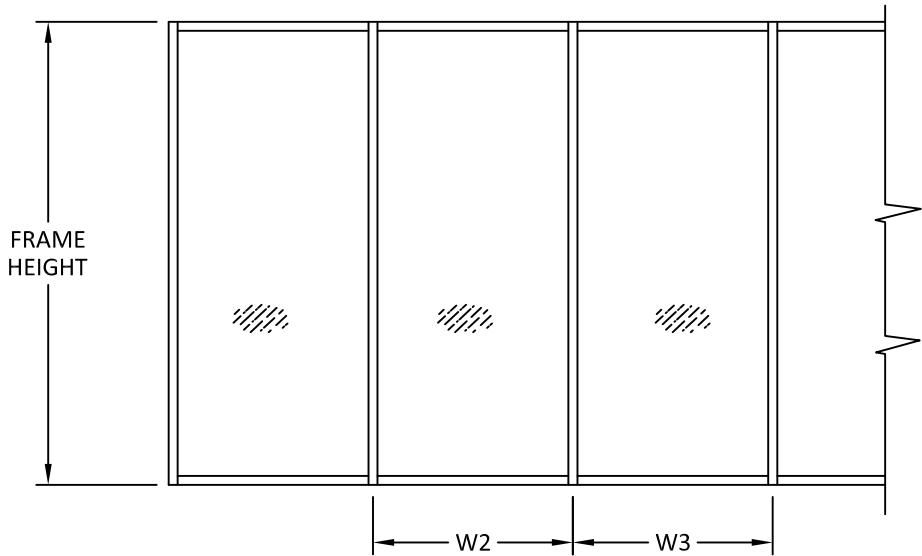


# MULLION LOAD TABLES

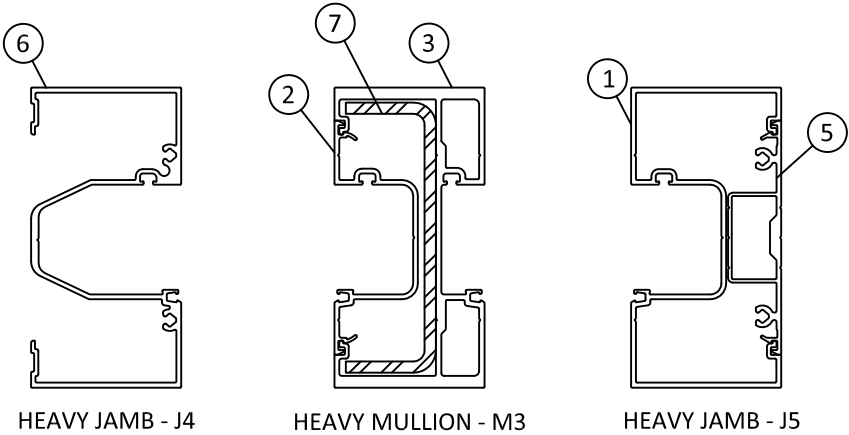
## HEAVY CONFIGURATION

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
60	120	70.0	90.0
41	126	65.0	65.0
39	132	65.0	65.0
37	138	65.0	65.0
36	144	65.0	65.0

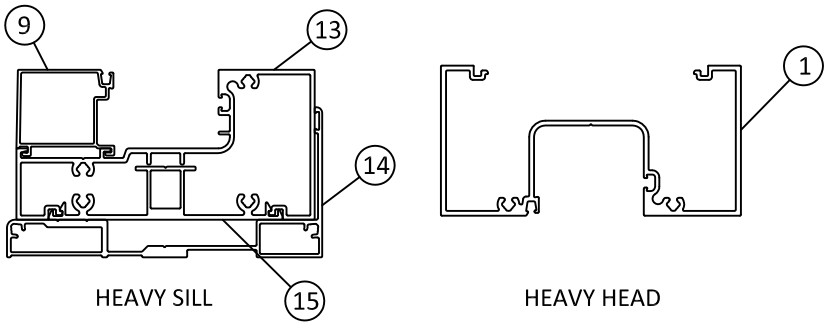
NOTE: HEAVY CONFIGURATION JAMBS ARE ANCHORED ALONG THEIR LENGTH AND THEREFORE DO NOT LIMIT DESIGN PRESSURE.



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



### HEAVY CONFIGURATION



YKK AP AMERICA

1229 HWY 441 BYPASS  
DUBLIN, GEORGIA 31021  
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 FI  
ALUMINUM STOREFRONT SYSTEM

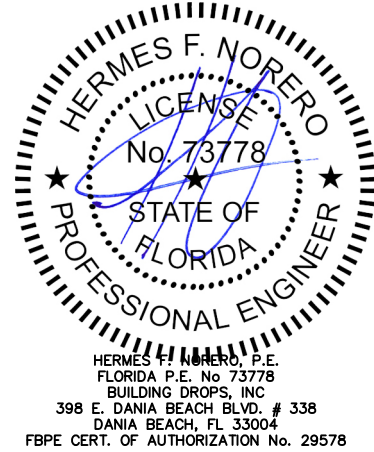
MEDIUM MULL TABLES

PREPARED BY:  
BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



REMARKS	BY	DATE
A-UPDATES PER COMMENTS	MS	04.20.16

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FL #:	FL14218
DATE:	11.18.15
DWG. BY:	SM
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK159
SHEET:	8



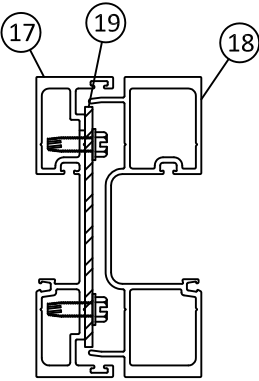
# MULLION LOAD TABLES

## EXPANSION MULLION

DESIGN LOAD CAPACITY - PSF			DESIGN LOAD CAPACITY - PSF			DESIGN LOAD CAPACITY - PSF		
NOMINAL DIMS.		EXPANSION MULLION	NOMINAL DIMS.		EXPANSION MULLION	NOMINAL DIMS.		EXPANSION MULLION
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)
30	72	65.0	30	90	65.0	30	108	65.0
33		65.0	33		65.0	33		65.0
36		65.0	36		65.0	36		65.0
39		65.0	39		65.0	39		61.7
42		65.0	42		65.0	42		57.3
45		65.0	45		65.0	45		53.5
48		65.0	48		65.0	48		50.2
51		65.0	51		65.0	51		47.2
54		65.0	54		64.2	54		44.6
57		65.0	57		60.8	57		42.2
60		65.0	60		57.8	60		40.1
63		65.0	63		55.0	63		38.2
66		65.0	66		52.5	66		36.5
69		65.0	69		50.2	30	114	65.0
72	78	65.0	72	96	48.1	33		65.0
30		65.0	30		65.0	36		60.0
33		65.0	33		65.0	39		55.4
36		65.0	36		65.0	42		51.4
39		65.0	39		65.0	45		48.0
42		65.0	42		65.0	48		45.0
45		65.0	45		65.0	51		42.4
48		65.0	48		63.5	54		40.0
51		65.0	51		59.7	57		37.9
54		65.0	54		56.4	60		36.0
57		65.0	57		53.5	63		34.3
60		65.0	60		50.8	30	120	65.0
63		65.0	63		48.4	33		59.1
66	84	65.0	66	102	46.2	36		54.2
69		65.0	69		44.2	39		50.0
72		64.1	72		42.3	42		46.4
30		65.0	30		65.0	45		43.3
33		65.0	33		65.0	48		40.6
36		65.0	36		65.0	51		38.2
39		65.0	39		65.0	54		36.1
42		65.0	42		64.3	57		34.2
45		65.0	45		60.0	60		32.5
48		65.0	48		56.2	30	126	59.0
51		65.0	51		52.9	33		53.6
54		65.0	54		50.0	36		49.1
57		65.0	57		47.3	39		45.4
60		65.0	60		45.0	41		43.1
63	88	63.2	63		42.8	30	132	53.7
66		60.3	66		40.9	33		48.8
69		57.7	69		39.1	36		44.8
72		55.3				39		41.3
						30	138	49.1
						33		44.7
						37		39.8
						30	144	45.1
						33		41.0
						36		37.6



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



EXPANSION MULLION

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



YKK AP AMERICA

1229 HWY 441 BYPASS  
DUBLIN, GEORGIA 31021  
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 FI  
ALUMINUM STOREFRONT SYSTEM

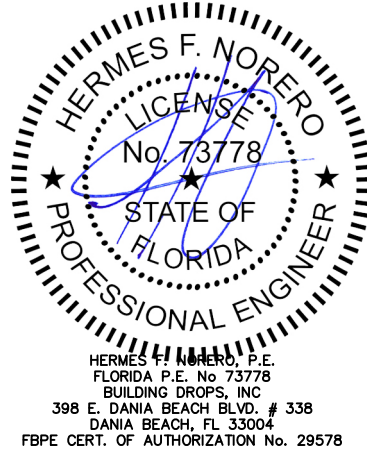
HEAVY MULL TABLES

PREPARED BY:  
BUILDING DROPS, INC.  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)399-8478  
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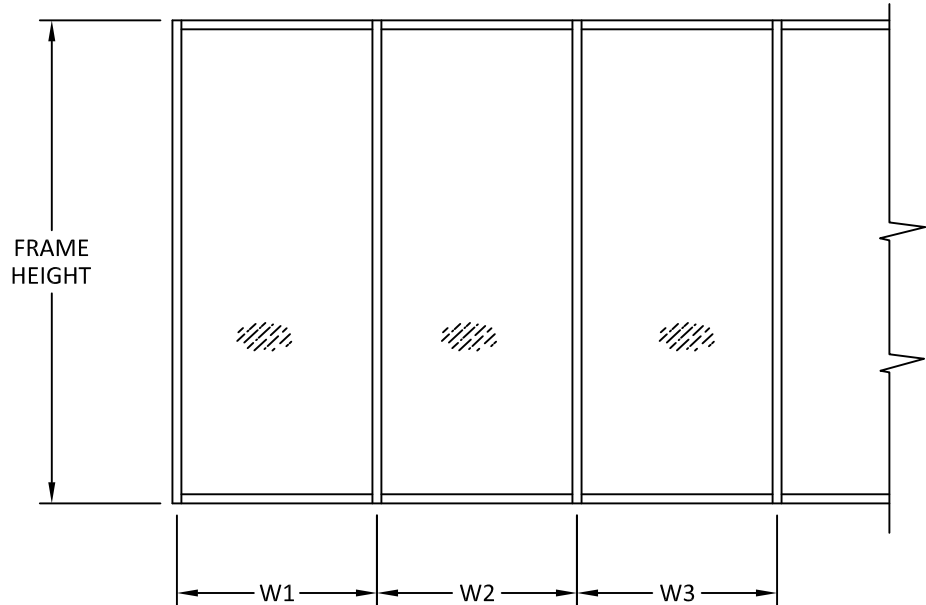
FL #:	FL14218	
DATE:	11.18.15	
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SCALE:	NTS	
DWG. #:	YKK159	
SHEET:	9	

# SMI MULLION LOAD TABLES

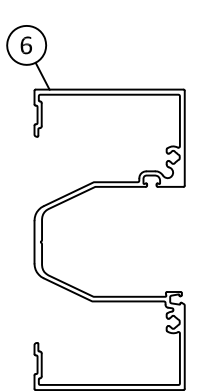
## HEAVY CONFIGURATION FOR USE IN SMALL MISSILE IMPACT APPLICATIONS ONLY

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

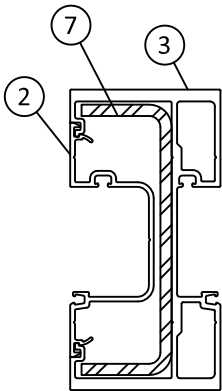
NOTE: HEAVY CONFIGURATION JAMBS ARE ANCHORED ALONG THEIR LENGTH AND THEREFORE DO NOT LIMIT DESIGN PRESSURE.



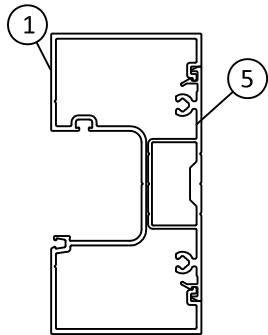
$$\text{WIDTH (W)} = \frac{W2 + W3}{2} \text{ (MULLION)}$$



HEAVY JAMB - J4



HEAVY MULLION - M3



HEAVY JAMB - J5

### 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

1229 HWY 441 BYPASS  
DUBLIN, GEORGIA 31021  
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 FI  
ALUMINUM STOREFRONT SYSTEM

SMI ONLY  
HEAVY MULL TABLES

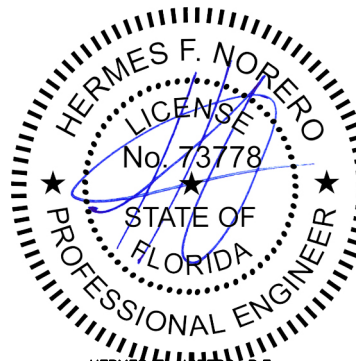
PREPARED BY:  
BUILDING DROPS, INC.

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HERMES F. NORERO, P.E.  
FLORIDA P.E. No. 73778  
BUILDING DROPS, INC  
398 E. DANIA BEACH BLVD. # 338  
DANIA BEACH, FL 33004  
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL14218

DATE: 11.18.15

DWG. BY:  
SM

CHK. BY:  
HFN

SCALE: NTS

DWG. #: YKK159

SHEET:

10

OF 20

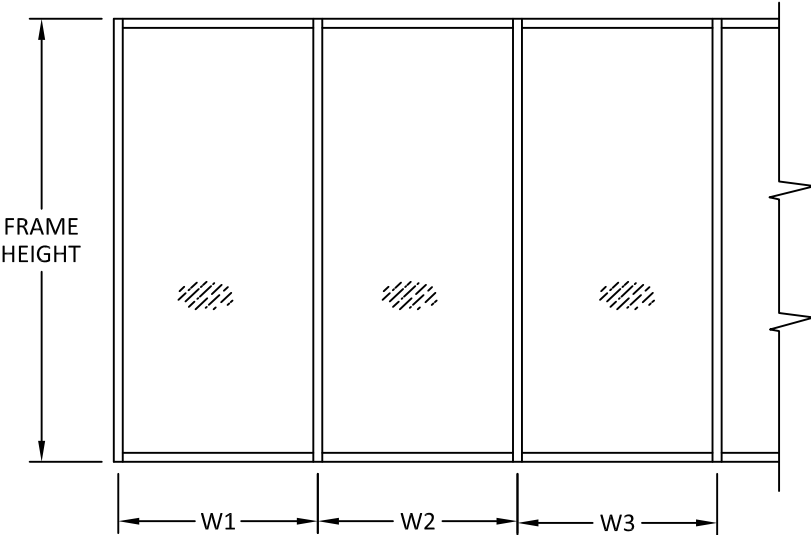
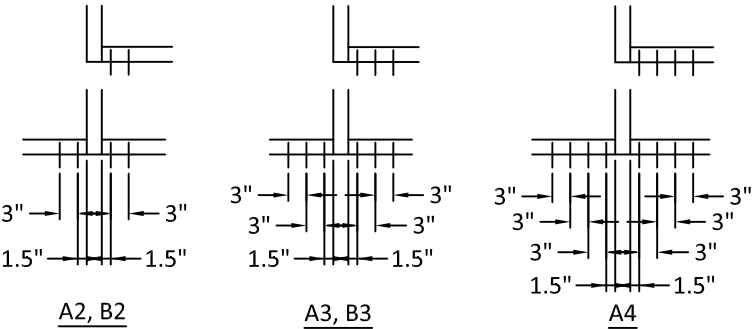
# ANCHOR TYPE 'A & B' TABLES

ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT. (-)						ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT. (-)						ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT. (-)									
NOMINAL DIMS.		ANCHORS TYPE 'A'		ANCHORS TYPE 'B'		NOMINAL DIMS.		ANCHORS TYPE 'A'			ANCHORS TYPE 'B'			NOMINAL DIMS.		ANCHORS TYPE 'A'			ANCHORS TYPE 'B'		
WIDTH (W)	FRAME HEIGHT	A2	A3	B2	B3	WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2	B3	WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2	B3		
30.0	72.0	90.0	90.0	90.0	90.0	30.0	90.0	90.0	90.0	90.0	90.0	90.0	30.0	108.0	90.0	90.0	90.0	90.0	90.0		
33.0		90.0	90.0	90.0	90.0	33.0		90.0	90.0	90.0	90.0	90.0	33.0		90.0	90.0	90.0	90.0	90.0		
36.0		90.0	90.0	90.0	90.0	36.0		90.0	90.0	90.0	90.0	90.0	36.0		90.0	90.0	90.0	90.0	90.0		
39.0		90.0	90.0	90.0	90.0	39.0		90.0	90.0	90.0	90.0	90.0	39.0		90.0	90.0	90.0	90.0	90.0		
42.0		90.0	90.0	90.0	90.0	42.0		90.0	90.0	90.0	90.0	90.0	42.0		87.9	90.0	90.0	90.0	90.0		
45.0		90.0	90.0	90.0	90.0	45.0		90.0	90.0	90.0	90.0	90.0	45.0		82.1	90.0	90.0	90.0	90.0		
48.0		90.0	90.0	90.0	90.0	48.0		90.0	90.0	90.0	90.0	90.0	48.0		76.9	90.0	90.0	87.7	90.0		
51.0		90.0	90.0	90.0	90.0	51.0		86.9	90.0	90.0	90.0	90.0	51.0		72.4	90.0	90.0	82.5	90.0		
54.0		90.0	90.0	90.0	90.0	54.0		82.1	90.0	90.0	90.0	90.0	54.0		68.4	90.0	90.0	77.9	90.0		
57.0		90.0	90.0	90.0	90.0	57.0		77.8	90.0	90.0	88.6	90.0	57.0		64.8	90.0	90.0	73.8	90.0		
60.0		90.0	90.0	90.0	90.0	60.0		73.9	90.0	90.0	84.2	90.0	60.0		61.6	90.0	90.0	70.2	90.0		
63.0		87.9	90.0	90.0	90.0	63.0		70.3	90.0	90.0	80.2	90.0	63.0		58.6	87.9	90.0	66.8	90.0		
66.0		83.9	90.0	90.0	90.0	66.0		67.2	90.0	90.0	76.5	90.0	66.0		56.0	83.9	90.0	63.8	90.0		
69.0		80.3	90.0	90.0	90.0	69.0		64.2	90.0	90.0	73.2	90.0	30.0		90.0	90.0	90.0	90.0	90.0		
72.0		76.9	90.0	87.7	90.0	72.0		61.6	90.0	90.0	70.2	90.0	33.0		90.0	90.0	90.0	90.0	90.0		
30.0	78.0	90.0	90.0	90.0	90.0	30.0	96.0	90.0	90.0	90.0	90.0	90.0	30.0	114.0	90.0	90.0	90.0	90.0	90.0		
33.0		90.0	90.0	90.0	90.0	33.0		90.0	90.0	90.0	90.0	90.0	33.0		90.0	90.0	90.0	90.0	90.0		
36.0		90.0	90.0	90.0	90.0	36.0		90.0	90.0	90.0	90.0	90.0	36.0		90.0	90.0	90.0	90.0	90.0		
39.0		90.0	90.0	90.0	90.0	39.0		90.0	90.0	90.0	90.0	90.0	39.0		90.0	90.0	90.0	90.0	90.0		
42.0		90.0	90.0	90.0	90.0	42.0		90.0	90.0	90.0	90.0	90.0	42.0		90.0	90.0	90.0	90.0	90.0		
45.0		90.0	90.0	90.0	90.0	45.0		90.0	90.0	90.0	90.0	90.0	45.0		90.0	90.0	90.0	90.0	90.0		
48.0		90.0	90.0	90.0	90.0	48.0		86.6	90.0	90.0	90.0	90.0	48.0		90.0	90.0	90.0	90.0	90.0		
51.0		90.0	90.0	90.0	90.0	51.0		81.5	90.0	90.0	90.0	90.0	51.0		90.0	90.0	90.0	90.0	90.0		
54.0		90.0	90.0	90.0	90.0	54.0		76.9	90.0	90.0	87.7	90.0	60.0		90.0	90.0	90.0	90.0	90.0		
57.0		89.7	90.0	90.0	90.0	57.0		72.9	90.0	90.0	83.1	90.0	63.0		90.0	90.0	90.0	90.0	90.0		
60.0		85.2	90.0	90.0	90.0	60.0		69.2	90.0	90.0	78.9	90.0	30.0		90.0	90.0	90.0	90.0	90.0		
63.0		81.2	90.0	90.0	90.0	63.0		66.0	90.0	90.0	75.2	90.0	33.0		90.0	90.0	90.0	90.0	90.0		
66.0		77.5	90.0	88.3	90.0	66.0		63.0	90.0	90.0	71.7	90.0	36.0		90.0	90.0	90.0	90.0	90.0		
69.0		74.1	90.0	84.5	90.0	69.0		60.2	90.0	90.0	68.6	90.0	39.0		90.0	90.0	90.0	90.0	90.0		
72.0		71.0	90.0	80.9	90.0	72.0		57.7	86.6	90.0	65.8	90.0	42.0		90.0	90.0	90.0	90.0	90.0		
30.0	84.0	90.0	90.0	90.0	90.0	30.0	102.0	90.0	90.0	90.0	90.0	90.0	30.0	120.0	90.0	90.0	90.0	90.0	90.0		
33.0		90.0	90.0	90.0	90.0	33.0		90.0	90.0	90.0	90.0	90.0	33.0		90.0	90.0	90.0	90.0	90.0		
36.0		90.0	90.0	90.0	90.0	36.0		90.0	90.0	90.0	90.0	90.0	36.0		90.0	90.0	90.0	90.0	90.0		
39.0		90.0	90.0	90.0	90.0	39.0		90.0	90.0	90.0	90.0	90.0	39.0		90.0	90.0	90.0	90.0	90.0		
42.0		90.0	90.0	90.0	90.0	42.0		90.0	90.0	90.0	90.0	90.0	42.0		90.0	90.0	90.0	90.0	90.0		
45.0		90.0	90.0	90.0	90.0	45.0		86.9	90.0	90.0	90.0	90.0	45.0		90.0	90.0	90.0	90.0	90.0		
48.0		90.0	90.0	90.0	90.0	48.0		81.5	90.0	90.0	90.0	90.0	48.0		90.0	90.0	90.0	90.0	90.0		
51.0		90.0	90.0	90.0	90.0	51.0		76.7	90.0	90.0	87.4	90.0	33.0		90.0	90.0	90.0	90.0	90.0		
54.0		87.9	90.0	90.0	90.0	54.0		72.4	90.0	90.0	82.5	90.0	36.0		90.0	90.0	90.0	90.0	90.0		
57.0		83.3	90.0	90.0	90.0	57.0		68.6	90.0	90.0	78.2	90.0	39.0		90.0	90.0	90.0	90.0	90.0		
60.0		79.1	90.0	90.0	90.0	60.0		65.2	90.0	90.0	74.3	90.0	41.0		90.0	90.0	90.0	90.0	90.0		
63.0		75.4	90.0	85.9	90.0	63.0		62.1	90.0	90.0	70.7	90.0	30.0		90.0	90.0	90.0	90.0	90.0		
66.0		71.9	90.0	82.0	90.0	66.0		59.3	88.9	90.0	67.5	90.0	33.0		90.0	90.0	90.0	90.0	90.0		
69.0		68.8	90.0	78.4	90.0	69.0		56.7	85.0	90.0	64.6	90.0	36.0		90.0	90.0	90.0	90.0	90.0		
72.0		66.0	90.0	75.2	90.0								39.0		90.0	90.0	90.0	88.3	90.0		
											30.0	90.0	90.0	90.0	90.0	90.0					
											33.0	90.0	90.0	90.0	90.0	90.0					
											37.0	90.0	90.0	90.0	89.0	90.0					
											30.0	90.0	90.0	90.0	90.0	90.0					
											33.0	90.0	90.0	90.0	90.0	90.0					
											36.0	90.0	90.0	90.0	87.7	90.0					

ANCHORS TYPES: SEE SHEETS 15 & 16 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  
A4 = (4) 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

1229 HWY 441 BYPASS  
DUBLIN, GEORGIA 31021  
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 FI  
ALUMINUM STOREFRONT SYSTEM

TYPE A & B ANCHOR TABLES

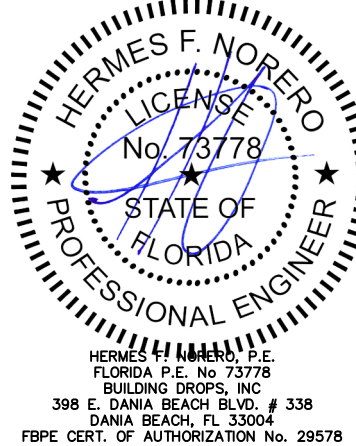
PREPARED BY: BUILDING DROPS, INC.

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FL #:	FL14218
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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK159
SHEET:	11

# ANCHOR TYPE 'C & D' TABLES

ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT. (-)								
NOMINAL DIMS.		ANCHORS TYPE 'C'				ANCHORS TYPE 'D'		
WIDTH (W)	FRAME HEIGHT	C2	C3	C4	C5	D2	D3	D4
30.0	72.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
33.0		90.0	90.0	90.0	90.0	90.0	90.0	90.0
36.0		90.0	90.0	90.0	90.0	90.0	90.0	90.0
39.0		90.0	90.0	90.0	90.0	90.0	90.0	90.0
42.0		87.7	90.0	90.0	90.0	90.0	90.0	90.0
45.0		81.8	90.0	90.0	90.0	90.0	90.0	90.0
48.0		76.7	90.0	90.0	90.0	86.6	90.0	90.0
51.0		72.2	90.0	90.0	90.0	81.5	90.0	90.0
54.0		68.2	90.0	90.0	90.0	76.9	90.0	90.0
57.0		64.6	90.0	90.0	90.0	72.9	90.0	90.0
60.0		61.4	90.0	90.0	90.0	69.3	90.0	90.0
63.0		58.4	87.7	90.0	90.0	66.0	90.0	90.0
66.0		55.8	83.7	90.0	90.0	63.0	90.0	90.0
69.0		53.4	80.0	90.0	90.0	60.2	90.0	90.0
72.0		51.1	76.7	90.0	90.0	57.7	86.6	90.0
30.0	78.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
33.0		90.0	90.0	90.0	90.0	90.0	90.0	90.0
36.0		90.0	90.0	90.0	90.0	90.0	90.0	90.0
39.0		87.1	90.0	90.0	90.0	90.0	90.0	90.0
42.0		80.9	90.0	90.0	90.0	90.0	90.0	90.0
45.0		75.5	90.0	90.0	90.0	85.2	90.0	90.0
48.0		70.8	90.0	90.0	90.0	79.9	90.0	90.0
51.0		66.6	90.0	90.0	90.0	75.2	90.0	90.0
54.0		62.9	90.0	90.0	90.0	71.0	90.0	90.0
57.0		59.6	89.4	90.0	90.0	67.3	90.0	90.0
60.0		56.6	85.0	90.0	90.0	63.9	90.0	90.0
63.0		53.9	80.9	90.0	90.0	60.9	90.0	90.0
66.0		51.5	77.2	90.0	90.0	58.1	87.2	90.0
69.0		49.3	73.9	90.0	90.0	55.6	83.4	90.0
72.0		47.2	70.8	90.0	90.0	53.3	79.9	90.0
30.0	84.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
33.0		90.0	90.0	90.0	90.0	90.0	90.0	90.0
36.0		87.7	90.0	90.0	90.0	90.0	90.0	90.0
39.0		80.9	90.0	90.0	90.0	90.0	90.0	90.0
42.0		75.1	90.0	90.0	90.0	84.8	90.0	90.0
45.0		70.1	90.0	90.0	90.0	79.1	90.0	90.0
48.0		65.7	90.0	90.0	90.0	74.2	90.0	90.0
51.0		61.9	90.0	90.0	90.0	69.8	90.0	90.0
54.0		58.4	87.7	90.0	90.0	66.0	90.0	90.0
57.0		55.4	83.0	90.0	90.0	62.5	90.0	90.0
60.0		52.6	78.9	90.0	90.0	59.4	89.0	90.0
63.0		50.1	75.1	90.0	90.0	56.5	84.8	90.0
66.0		47.8	71.7	90.0	90.0	54.0	80.9	90.0
69.0		45.7	68.6	90.0	90.0	51.6	77.4	90.0
72.0		43.8	65.7	87.7	90.0	49.5	74.2	90.0

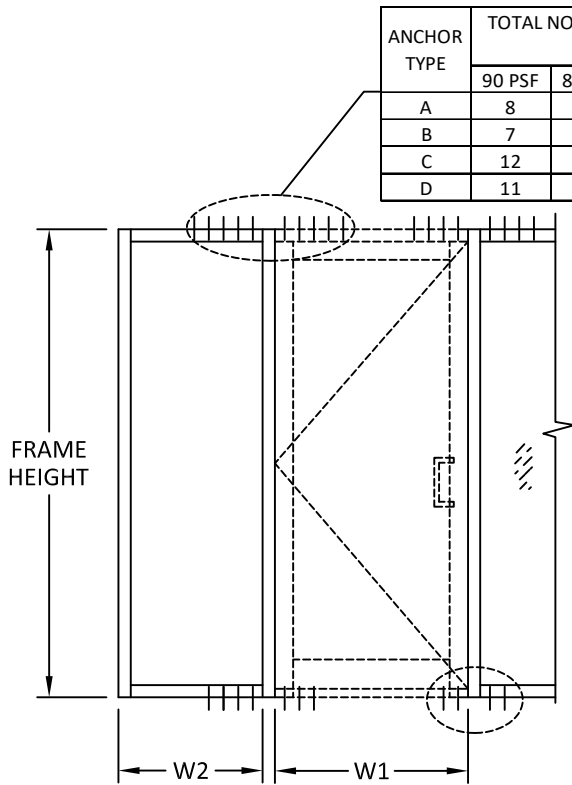
ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT. (-)												
NOMINAL DIMS.		ANCHORS TYPE 'C'				ANCHORS TYPE 'D'						
WIDTH (W)	FRAME HEIGHT	C2	C3	C4	C5	D2	D3	D4	D5	D6	D7	D8
30.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0			
33.0		89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0			
36.0		81.8	90.0	90.0	90.0	90.0	90.0	90.0	90.0			
39.0		75.5	90.0	90.0	90.0	85.2	90.0	90.0	90.0			
42.0		70.1	90.0	90.0	90.0	79.1	90.0	90.0	90.0			
45.0		65.5	90.0	90.0	90.0	73.9	90.0	90.0	90.0			
48.0		61.4	90.0	90.0	90.0	69.3	90.0	90.0	90.0			
51.0		57.8	86.6	90.0	90.0	65.2	90.0	90.0	90.0			
54.0		54.5	81.8	90.0	90.0	61.6	90.0	90.0	90.0			
57.0		51.7	77.5	90.0	90.0	58.3	87.5	90.0	90.0			
60.0		49.1	73.6	90.0	90.0	55.4	83.1	90.0	90.0			
63.0		46.8	70.1	90.0	90.0	52.8	79.1	90.0	90.0			
66.0		44.6	66.9	89.3	90.0	50.4	75.5	90.0	90.0			
69.0		42.7	64.0	85.4	90.0	48.2	72.3	90.0	90.0			
72.0		40.9	61.4	81.8	90.0	46.2	69.3	90.0	90.0			
30.0	96.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0			
33.0		83.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0			
36.0		76.7	90.0	90.0	90.0	86.6	90.0	90.0	90.0			
39.0		70.8	90.0	90.0	90.0	79.9	90.0	90.0	90.0			
42.0		65.7	90.0	90.0	90.0	74.2	90.0	90.0	90.0			
45.0		61.4	90.0	90.0	90.0	69.3	90.0	90.0	90.0			
48.0		57.5	86.3	90.0	90.0	64.9	90.0	90.0	90.0			
51.0		54.1	81.2	90.0	90.0	61.1	90.0	90.0	90.0			
54.0		51.1	76.7	90.0	90.0	57.7	86.6	90.0	90.0			
57.0		48.4	72.7	90.0	90.0	54.7	82.0	90.0	90.0			
60.0		46.0	69.0	90.0	90.0	51.9	77.9	90.0	90.0			
63.0		43.8	65.7	87.7	90.0	49.5	74.2	90.0	90.0			
66.0		41.8	62.8	83.7	90.0	47.2	70.8	90.0	90.0			
69.0		40.0	60.0	80.0	90.0	45.2	67.7	90.0	90.0			
72.0		38.4	57.5	76.7	90.0	43.3	64.9	86.6	90.0			
30.0	102.0	86.6	90.0	90.0	90.0	90.0	90.0	90.0	90.0			
33.0		78.8	90.0	90.0	90.0	88.9	90.0	90.0	90.0			
36.0		72.2	90.0	90.0	90.0	81.5	90.0	90.0	90.0			
39.0		66.6	90.0	90.0	90.0	75.2	90.0	90.0	90.0			
42.0		61.9	90.0	90.0	90.0	69.8	90.0	90.0	90.0			
45.0		57.8	86.6	90.0	90.0	65.2	90.0	90.0	90.0			
48.0		54.1	81.2	90.0	90.0	61.1	90.0	90.0	90.0			
51.0		51.0	76.4	90.0	90.0	57.5	86.3	90.0	90.0			
54.0		48.1	72.2	90.0	90.0	54.3	81.5	90.0	90.0			
57.0		45.6	68.4	90.0	90.0	51.5	77.2	90.0	90.0			
60.0		43.3	65.0	86.6	90.0	48.9	73.3	90.0	90.0			
63.0		41.3	61.9	82.5	90.0	46.6	69.8	90.0	90.0			
66.0		39.4	59.1	78.8	90.0	44.4	66.7	88.9	90.0			
69.0		37.7	56.5	75.3	90.0	42.5	63.8	85.0	90.0			

ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT. (-)									
NOMINAL DIMS.		ANCHORS TYPE 'C'				ANCHORS TYPE 'D'			
WIDTH (W)	FRAME HEIGHT	C2	C3	C4	C5	D2	D3	D4	D5
30.0	108.0	81.8	90.0	90.0	90.0	90.0	90.0	90.0	90.0
33.0		74.4	90.0	90.0	90.0	83.9	90.0	90.0	90.0
36.0		68.2	90.0	90.0	90.0	76.9	90.0	90.0	90.0
39.0		62.9	90.0	90.0	90.0	71.0	90.0	90.0	90.0
42.0		58.4	87.7	90.0	90.0	66.0	90.0	90.0	90.0
45.0		54.5	81.8	90.0	90.0	61.6	90.0	90.0	90.0
48.0		51.1	76.7	90.0	90.0	57.7	86.6	90.0	90.0
51.0		48.1	72.2	90.0	90.0	54.3	81.5	90.0	90.0
54.0		45.5	68.2	90.0	90.0	51.3	76.9	90.0	90.0
57.0		43.1	64.6	86.1	90.0	48.6	72.9	90.0	90.0
60.0		40.9	61.4	81.8	90.0	46.2	69.3	90.0	90.0
63.0		39.0	58.4	77.9	90.0	44.0	66.0	87.9	90.0
66.0	37.2	55.8	74.4	90.0	42.0	63.0	83.9	90.0	
30.0	114.0	77.5	90.0	90.0	90.0	87.5	90.0	90.0	90.0
33.0		70.5	90.0	90.0	90.0	79.5	90.0	90.0	90.0
36.0		64.6	90.0	90.0	90.0	72.9	90.0	90.0	90.0
39.0		59.6	89.4	90.0	90.0	67.3	90.0	90.0	90.0
42.0		55.4	83.0	90.0	90.0	62.5	90.0	90.0	90.0
45.0		51.7	77.5	90.0	90.0	58.3	87.5	90.0	90.0
48.0		48.4	72.7	90.0	90.0	54.7	82.0	90.0	90.0
51.0		45.6	68.4	90.0	90.0	51.5	77.2	90.0	90.0
54.0		43.1	64.6	86.1	90.0	48.6	72.9	90.0	90.0
57.0		40.8	61.2	81.6	90.0	46.0	69.1	90.0	90.0
60.0		38.8	58.1	77.5	90.0	43.7	65.6	87.5	90.0
63.0		36.9	55.4	73.8	90.0	41.7	62.5	83.3	90.0
30.0	120.0	73.6	90.0	90.0	90.0	83.1	90.0	90.0	90.0
33.0		66.9	90.0	90.0	90.0	75.5	90.0	90.0	90.0
36.0		61.4	90.0	90.0	90.0	69.3	90.0	90.0	90.0
39.0		56.6	85.0	90.0	90.0	63.9	90.0	90.0	90.0
42.0		52.6	78.9	90.0	90.0	59.4	89.0	90.0	90.0
45.0		49.1	73.6	90.0	90.0	55.4	83.1	90.0	90.0
48.0		46.0	69.0	90.0	90.0	51.9	77.9	90.0	90.0
51.0		43.3	65.0	86.6	90.0	48.9	73.3	90.0	90.0
54.0		40.9	61.4	81.8	90.0	46.2	69.3	90.0	90.0
57.0		38.8	58.1	77.5	90.0	43.7	65.6	87.5	90.0
60.0		36.8	55.2	73.6	90.0	41.6	62.3	83.1	90.0
30.0		126	70.1	90.0	90.0	90.0	79.1	90.0	90.0
33.0	63.8		90.0	90.0	90.0	72.0	90.0	90.0	90.0
36.0	58.4		87.7	90.0	90.0	66.0	90.0	90.0	90.0
39.0	53.9		80.9	90.0	90.0	60.9	90.0	90.0	90.0
41.0	51.3		77.0	90.0	90.0	57.9	86.9	90.0	90.0
30.0	132		66.9	90.0	90.0	90.0	75.5	90.0	90.0
33.0		60.9	90.0	90.0	90.0	68.7	90.0	90.0	90.0
36.0		55.8	83.7	90.0	90.0	63.0	90.0	90.0	90.0
39.0		51.5	77.2	90.0	90.0	58.1	87.2	90.0	90.0
30.0	138	64.0	90.0	90.0	90.0	72.3	90.0	90.0	90.0
33.0		58.2	87.3	90.0	90.0	65.7	90.0	90.0	90.0
37.0		51.9	77.9	90.0	90.0	58.6	87.9	90.0	90.0
30.0	144	61.4	90.0	90.0	90.0	69.3	90.0	90.0	90.0
33.0		55.8	83.7	90.0	90.0	63.0	90.0	90.0	90.0
36.0		51.1	76.7	90.0	90.0	57.7	86.6	90.0	90.0



# DOOR MULLION LOAD & ANCHOR TABLES

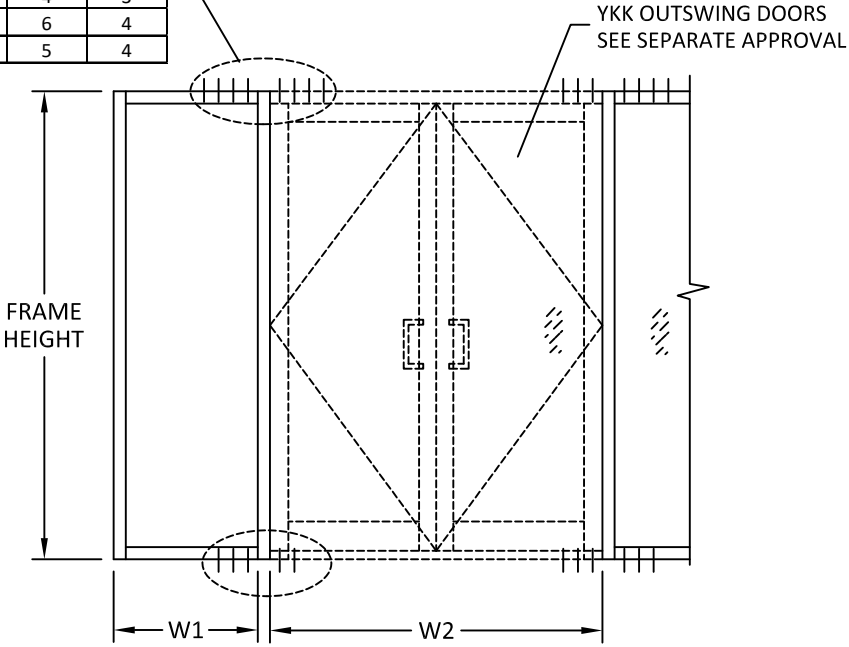
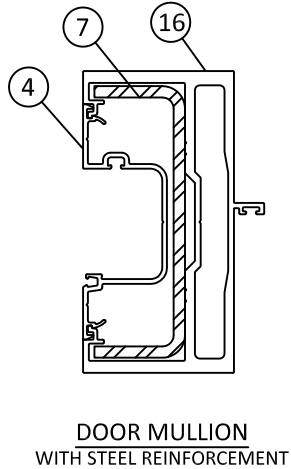
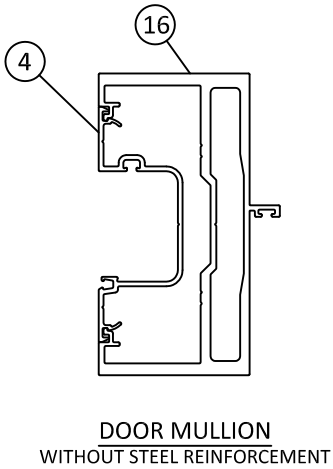
DOOR MULLION LOAD CAPACITY (PSF)					
NOMINAL DIMS.		WITHOUT STEEL REINF.		WITH STEEL REINF.	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24	102	70.0	70.0	70.0	90.0
30		70.0	70.0	70.0	90.0
36		70.0	70.0	70.0	90.0
42		70.0	70.0	70.0	90.0
48		70.0	70.0	70.0	90.0
54		70.0	70.0	70.0	90.0
60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



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

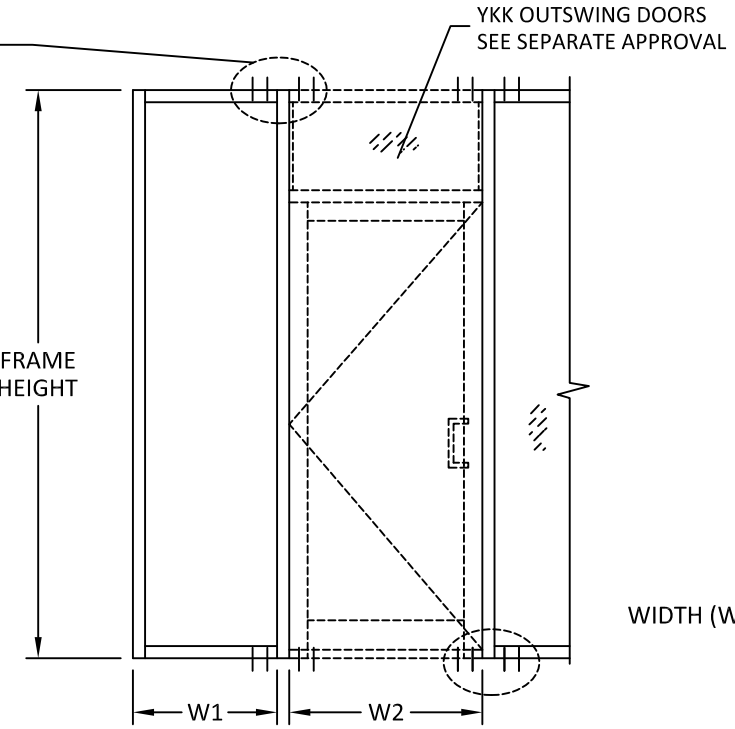
**SINGLE DOOR**

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



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

**DOUBLE DOOR**



**SINGLE DOOR WITH TRANSOM**

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



**YKK AP AMERICA**  
1229 HWY 441 BYPASS  
DUBLIN, GEORGIA 31021  
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 FI  
ALUMINUM STOREFRONT SYSTEM

DOOR MULLION TABLES

PREPARED BY:  
  
**BUILDING DROPS, INC.**  
398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com

REMARKS	BY	DATE

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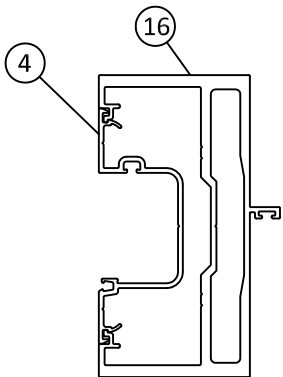
HERMES F. NORERO, P.E.  
FLORIDA P.E. No. 73778  
BUILDING DROPS, INC  
398 E. DANIA BEACH BLVD. # 338  
DANIA BEACH, FL 33004  
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	<b>FL14218</b>
DATE:	<b>11.18.15</b>
DWG. BY:	<b>SM</b>
CHK. BY:	<b>HFN</b>
SCALE:	<b>NTS</b>
DWG. #:	<b>YKK159</b>
SHEET:	<b>13</b>

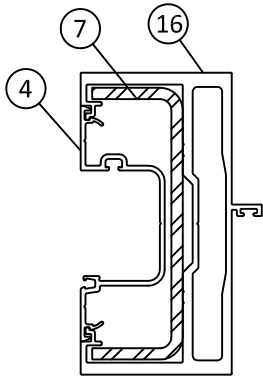
DOOR MULLION LOAD & ANCHOR TABLES

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

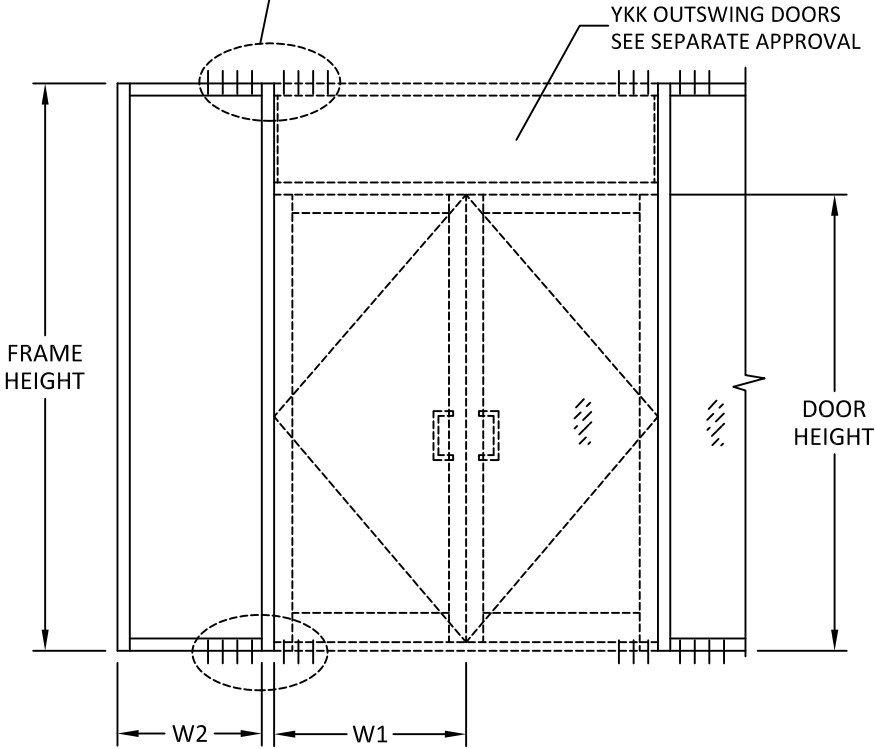


DOOR MULLION  
WITHOUT STEEL REINFORCEMENT



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	10	9	8	7	6	5	4
B	9	8	7	6	5	4	3
C	15	13	11	10	8	7	5
D	13	12	10	9	7	6	5



DOUBLE DOOR WITH TRANSOM



YKK AP AMERICA

1229 HWY 441 BYPASS  
DUBLIN, GEORGIA 31021  
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 FI  
ALUMINUM STOREFRONT SYSTEM

DOOR MULLION TABLES

PREPARED BY:

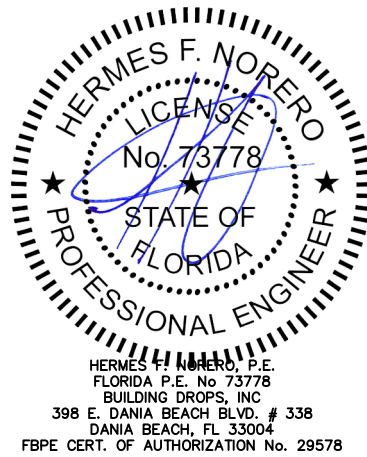
BUILDING DROPS, INC.

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DANIA BEACH, FL 33004  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com

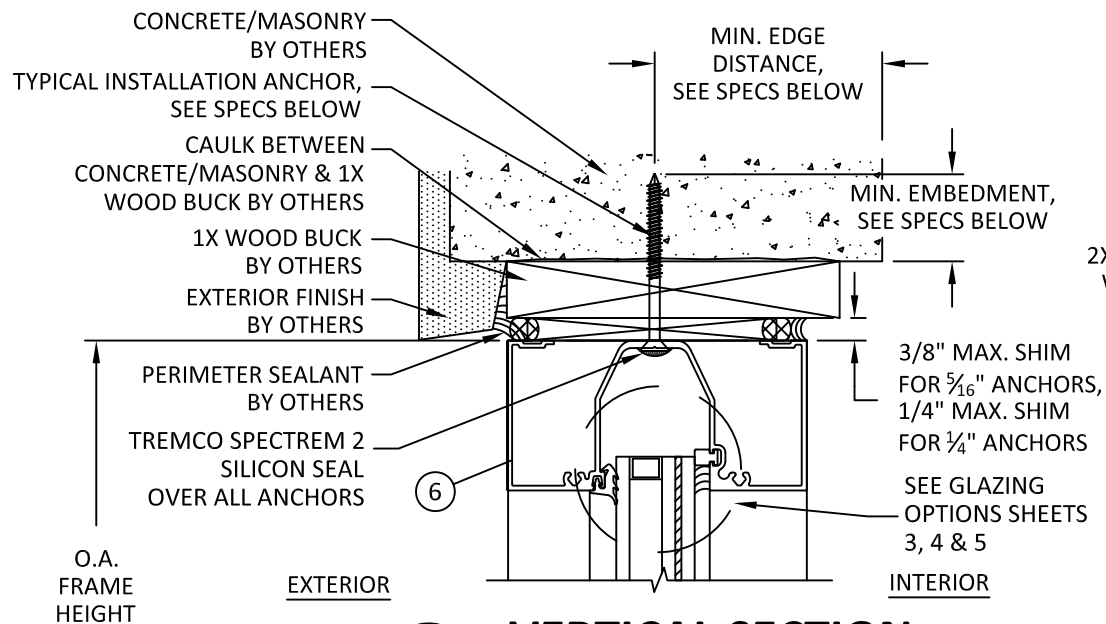


REMARKS	BY	DATE

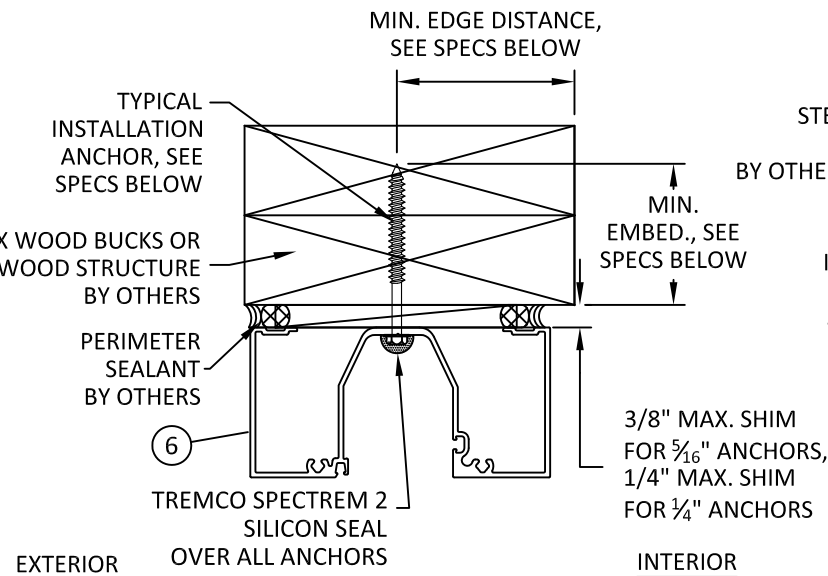
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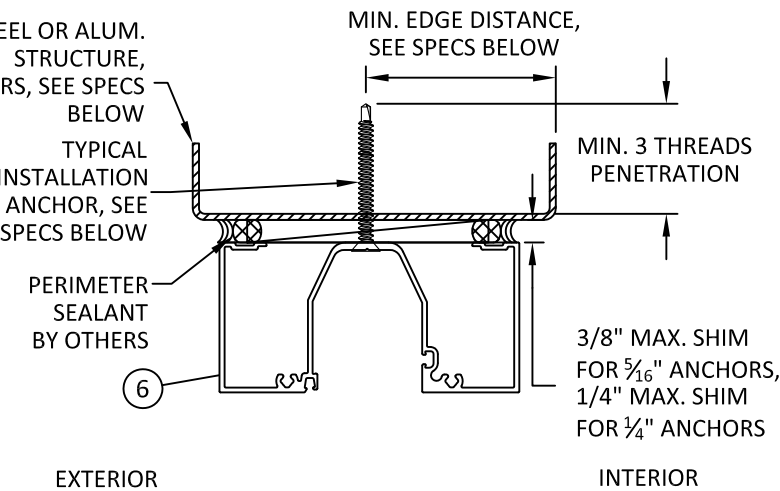
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DWG. #:	YKK159
SHEET:	14



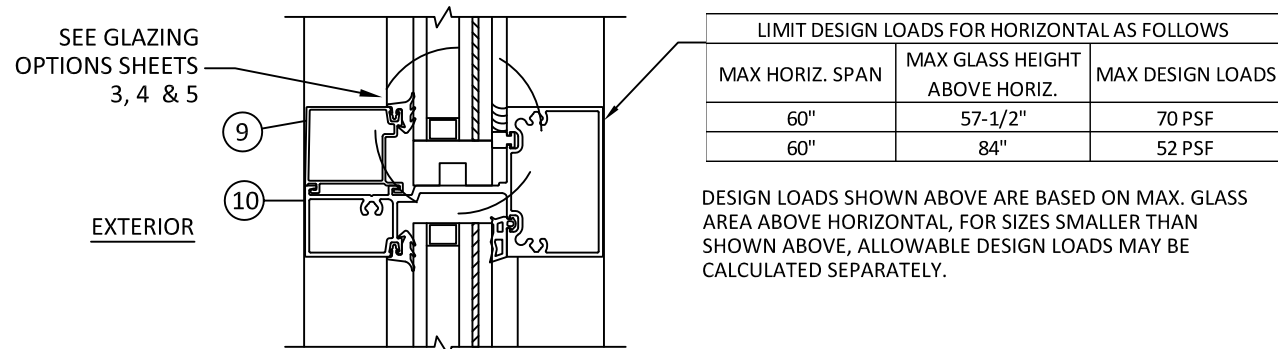
**A**  
**15** VERTICAL SECTION  
HEAD - CONCRETE/MASONRY W/ 1X BUCK  
LIGHT CONFIGURATION



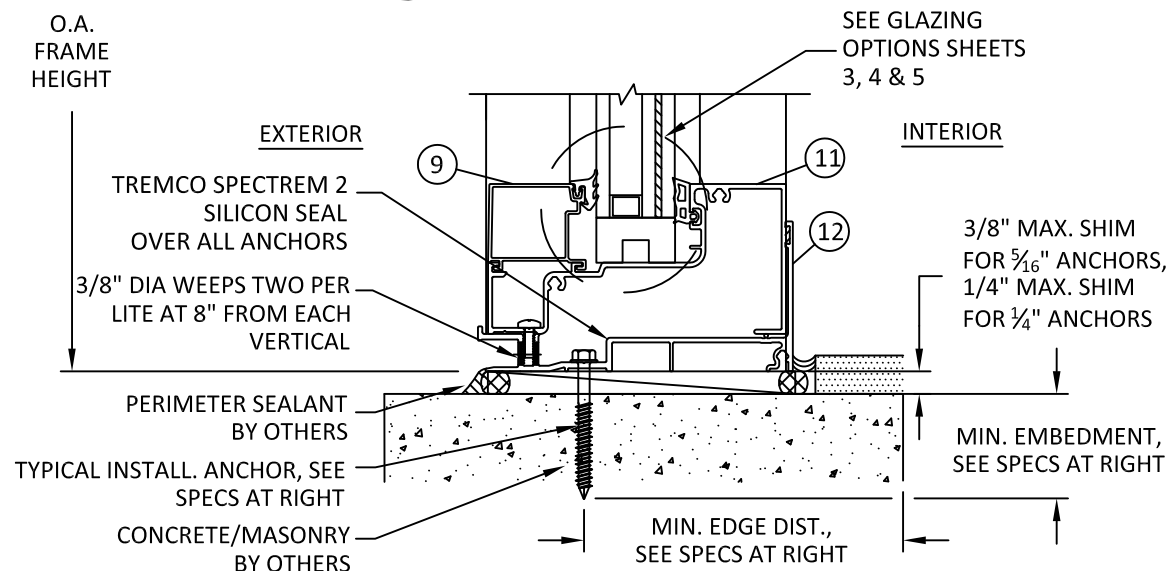
**D**  
**15** VERTICAL SECTION  
HEAD - WOOD FRAMING  
TYPICAL INSTALLATION



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



**B**  
**15** VERTICAL SECTION  
HORIZONTAL MEMBER



**C**  
**15** VERTICAL SECTION  
SILL - DIRECT TO CONCRETE/MASONRY  
LIGHT CONFIGURATION

YHS 50 FI ANCHOR TYPES					
ANCHOR TYPE	ANCHOR DESCRIPTION	SUBSTRATE REQUIREMENTS	MIN. EMBEDMENT	MIN. EDGE DISTANCE	NOTES
A	5/16" DIA. TAPCON BY ITW (Fu=125 KSI, Fy=100 KSI) OR	CONCRETE AT HEAD, SILL OR JAMBS F'C = 3000 PSI MIN.	1-3/4"	3"	FOR USE THROUGH OPTIONAL 1X BUCKS, BY OTHERS
	5/16" DIA. ULTRACON BY ELCO (Fu=177 KSI, Fy=155 KSI)	C-90 HOLLOW/FILLED BLOCK AT JAMBS F'M = 2000 PSI MIN.	1"	3"	
	5/16" DIA. ULTRACON BY ELCO (Fu=177 KSI, Fy=155 KSI)	MIN. S.G. = 0.55 WOOD	1-1/2"	1"	--
B	5/16" DIA. SELF-DRILLING SCREWS (GRADE 5)	STEEL: 12 GA. MIN., Fy=36 KSI MIN. ALUM.: 1/8" MIN., 6063-T5 MIN.	THREE THREADS PENETRATION PAST METAL STRUCTURE	3/4"	STEEL IN CONTACT WITH ALUM. TO BE PLATED OR PAINTED
C	1/4" DIA. TAPCON BY ITW (Fu=125 KSI, Fy=100 KSI) OR	CONCRETE AT HEAD, SILL OR JAMBS F'C = 3000 PSI MIN.	1-3/4"	2-1/2"	FOR USE THROUGH OPTIONAL 1X BUCKS, BY OTHERS
	1/4" DIA. ULTRACON BY ELCO (Fu=177 KSI, Fy=155 KSI)	C-90 HOLLOW/FILLED BLOCK AT JAMBS F'M = 2000 PSI MIN.	1-3/4"	2-1/2"	
	1/4" DIA. ULTRACON BY ELCO (Fu=177 KSI, Fy=155 KSI)	MIN. S.G. = 0.55 WOOD	1-1/2"	1"	--
D	1/4" DIA. SELF-DRILLING SCREWS (GRADE 5)	STEEL: 12 GA. MIN., Fy=36 KSI MIN. ALUM.: 1/8" MIN., 6063-T5 MIN.	3 THREADS PENETRATION PAST METAL STRUCTURE	3/4"	STEEL IN CONTACT WITH ALUM. TO BE PLATED OR PAINTED
E	1/4" DIA. SELF-DRILLING SCREWS (GRADE 5)	18 GA. MIN. STEEL STUD, Fy = 33 KSI MIN. WITH WOOD BACKING	1-1/2" IN WOOD	1" IN WOOD	--



YKK AP AMERICA  
1229 HWY 441 BYPASS  
DUBLIN, GEORGIA 31021  
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 FI  
ALUMINUM STOREFRONT SYSTEM

VERTICAL SECTIONS  
& ANCHOR DESCRIPTIONS

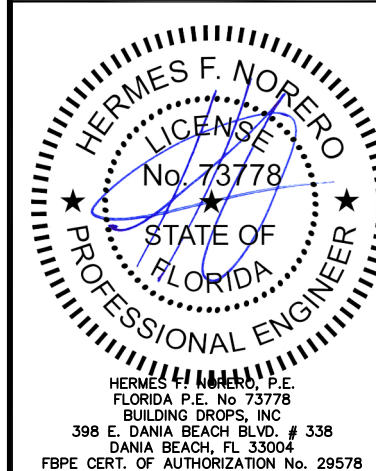
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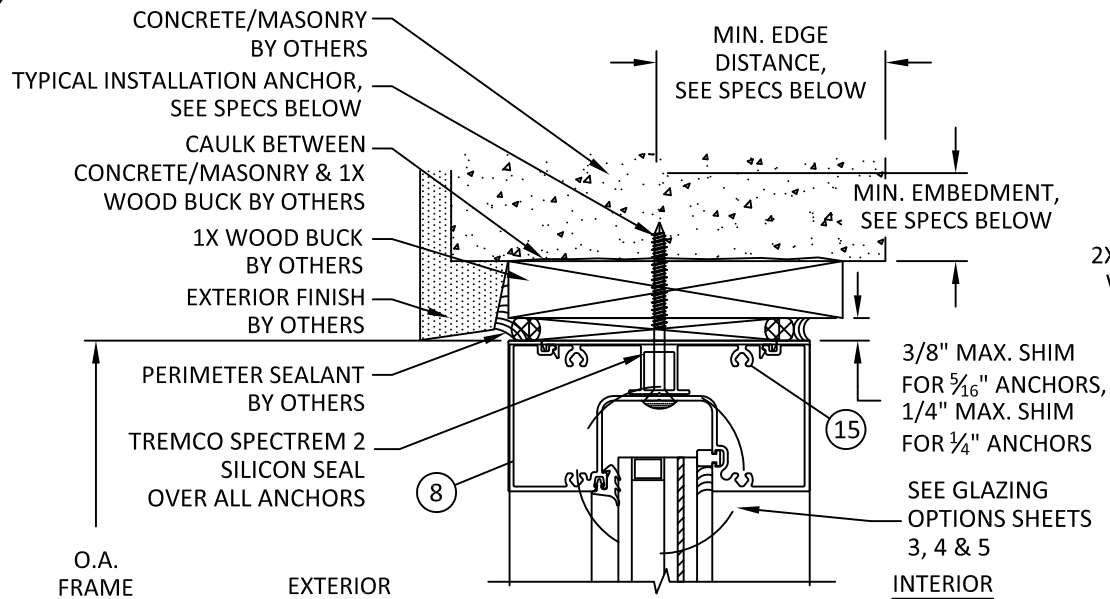
REMARKS	BY	DATE
A-UPDATES PER COMMENTS	MS	04.20.16
B-GASKET REVISION	LS	10.19.16

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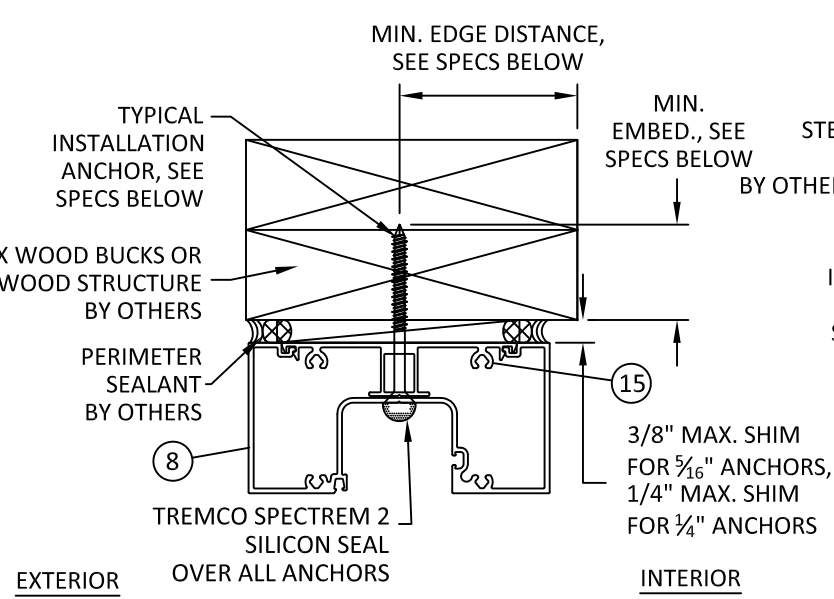


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DWG. #:	YKK159
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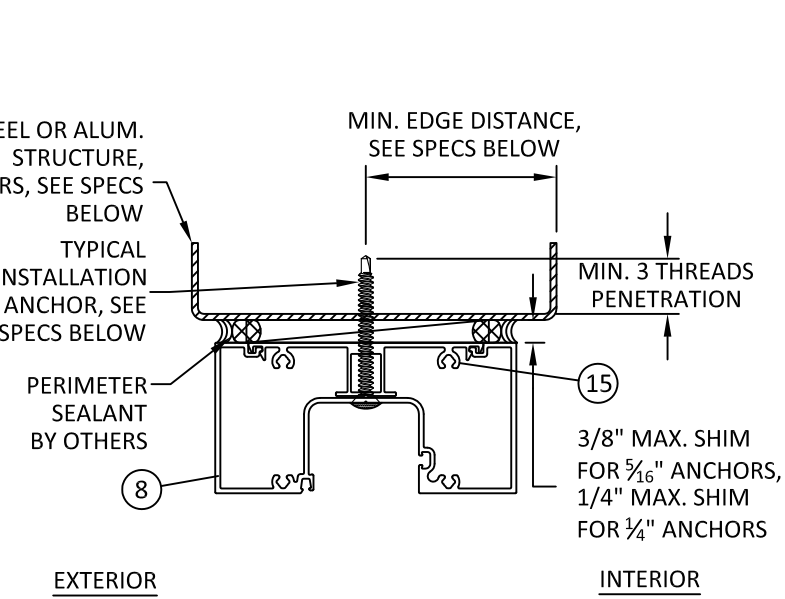




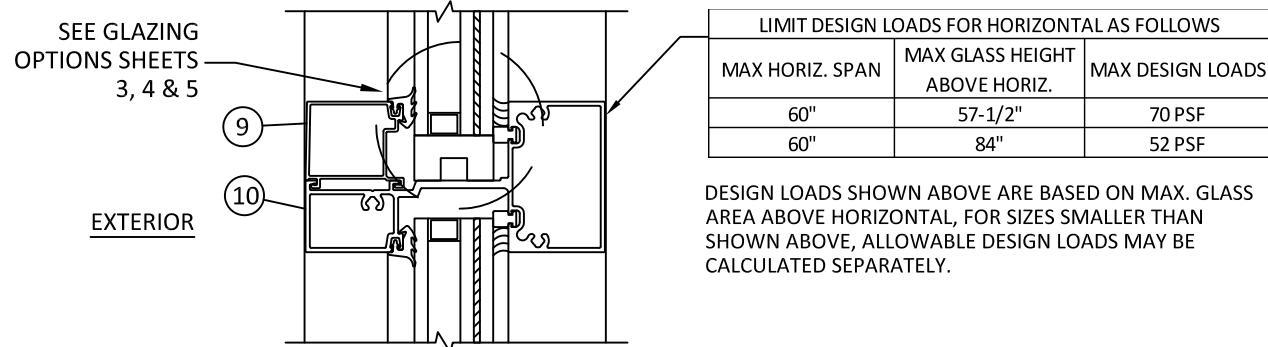
**F**  
**16** VERTICAL SECTION  
HEAD - CONCRETE/MASONRY W/ 1X BUCK  
HEAVY CONFIGURATION



**I**  
**16** VERTICAL SECTION  
HEAD - WOOD FRAMING  
TYPICAL INSTALLATION



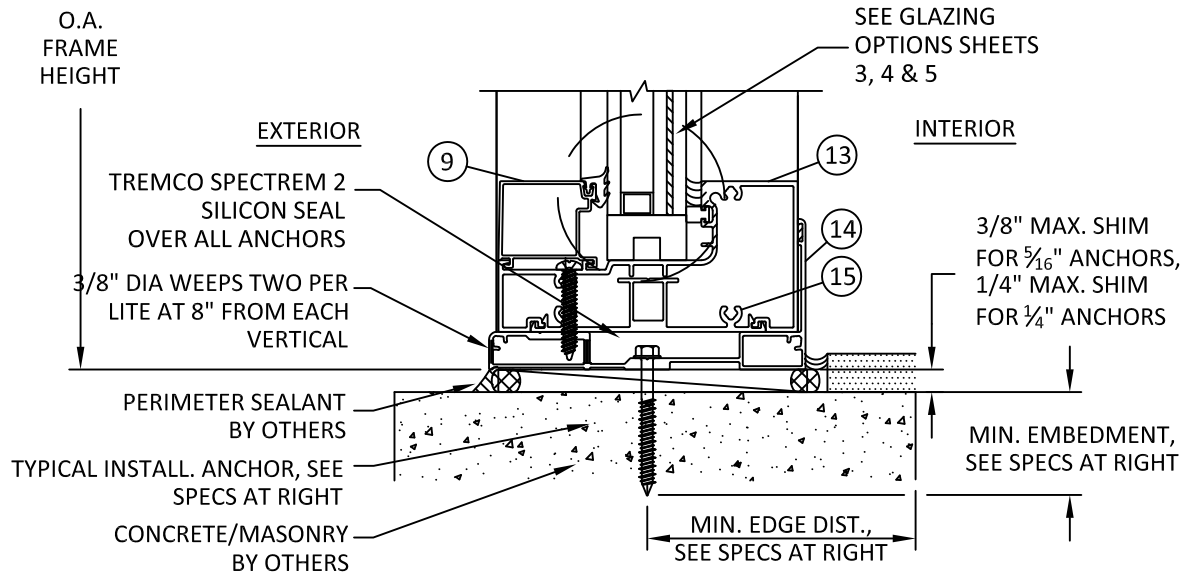
**J**  
**16** VERTICAL SECTION  
HEAD - METAL SUBSTRATE  
TYPICAL INSTALLATION



**G**  
**16** VERTICAL SECTION  
HORIZONTAL MEMBER

LIMIT DESIGN LOADS FOR HORIZONTAL AS FOLLOWS		
MAX HORIZ. SPAN	MAX GLASS HEIGHT ABOVE HORIZ.	MAX DESIGN LOADS
60"	57-1/2"	70 PSF
60"	84"	52 PSF

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



**H**  
**16** VERTICAL SECTION  
SILL - DIRECT TO CONCRETE/MASONRY  
HEAVY CONFIGURATION

YHS 50 FI ANCHOR TYPES					
ANCHOR TYPE	ANCHOR DESCRIPTION	SUBSTRATE REQUIREMENTS	MIN. EMBEDMENT	MIN. EDGE DISTANCE	NOTES
A	5/16" DIA. TAPCON BY ITW (Fu=125 KSI, Fy=100 KSI) OR	CONCRETE AT HEAD, SILL OR JAMBS F'C = 3000 PSI MIN.	1-3/4"	3"	FOR USE THROUGH OPTIONAL 1X BUCKS, BY OTHERS
	5/16" DIA. ULTRACON BY ELCO (Fu=177 KSI, Fy=155 KSI)	C-90 HOLLOW/FILLED BLOCK AT JAMBS F'M = 2000 PSI MIN.	1"	3"	
	5/16" DIA. ULTRACON BY ELCO (Fu=177 KSI, Fy=155 KSI)	MIN. S.G. = 0.55 WOOD	1-1/2"	1"	--
B	5/16" DIA. SELF-DRILLING SCREWS (GRADE 5)	STEEL: 12 GA. MIN., Fy=36 KSI MIN. ALUM.: 1/8" MIN., 6063-T5 MIN.	THREE THREADS PENETRATION PAST METAL STRUCTURE	3/4"	STEEL IN CONTACT WITH ALUM. TO BE PLATED OR PAINTED
C	1/4" DIA. TAPCON BY ITW (Fu=125 KSI, Fy=100 KSI) OR	CONCRETE AT HEAD, SILL OR JAMBS F'C = 3000 PSI MIN.	1-3/4"	2-1/2"	FOR USE THROUGH OPTIONAL 1X BUCKS, BY OTHERS
	1/4" DIA. ULTRACON BY ELCO (Fu=177 KSI, Fy=155 KSI)	C-90 HOLLOW/FILLED BLOCK AT JAMBS F'M = 2000 PSI MIN.	1-3/4"	2-1/2"	
	1/4" DIA. ULTRACON BY ELCO (Fu=177 KSI, Fy=155 KSI)	MIN. S.G. = 0.55 WOOD	1-1/2"	1"	--
D	1/4" DIA. SELF-DRILLING SCREWS (GRADE 5)	STEEL: 12 GA. MIN., Fy=36 KSI MIN. ALUM.: 1/8" MIN., 6063-T5 MIN.	3 THREADS PENETRATION PAST METAL STRUCTURE	3/4"	STEEL IN CONTACT WITH ALUM. TO BE PLATED OR PAINTED
E	1/4" DIA. SELF-DRILLING SCREWS (GRADE 5)	18 GA. MIN. STEEL STUD, Fy = 33 KSI MIN. WITH WOOD BACKING	1-1/2" IN WOOD	1" IN WOOD	--



YKK AP AMERICA  
1229 HWY 441 BYPASS  
DUBLIN, GEORGIA 31021  
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 FI  
ALUMINUM STOREFRONT SYSTEM

HORIZONTAL SECTIONS

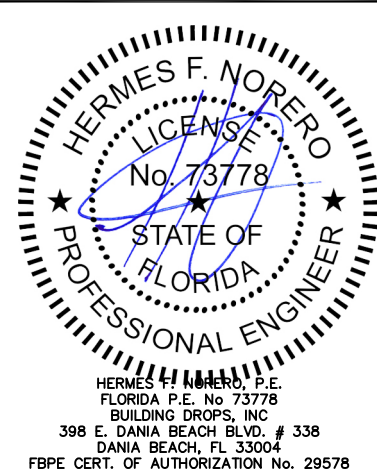
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DANIA BEACH, FL 33004  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



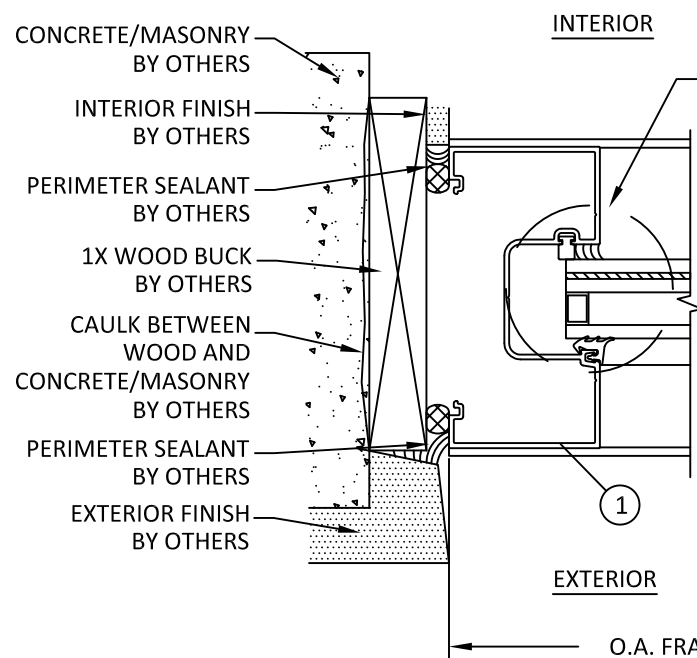
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A-UPDATES PER COMMENTS	MS	04.20.16

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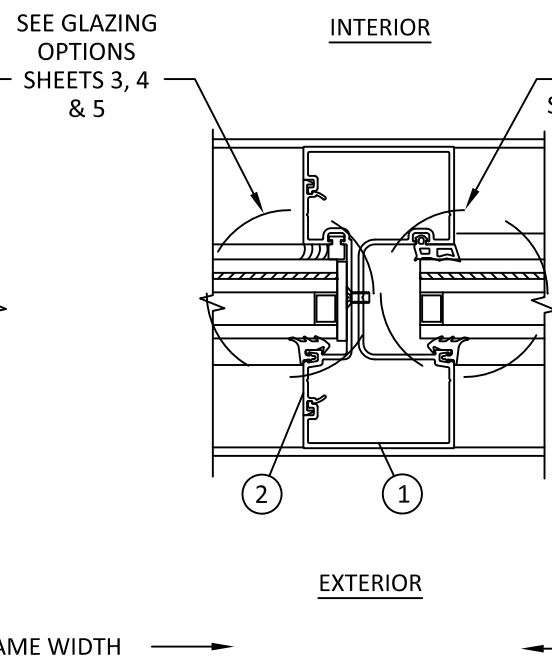


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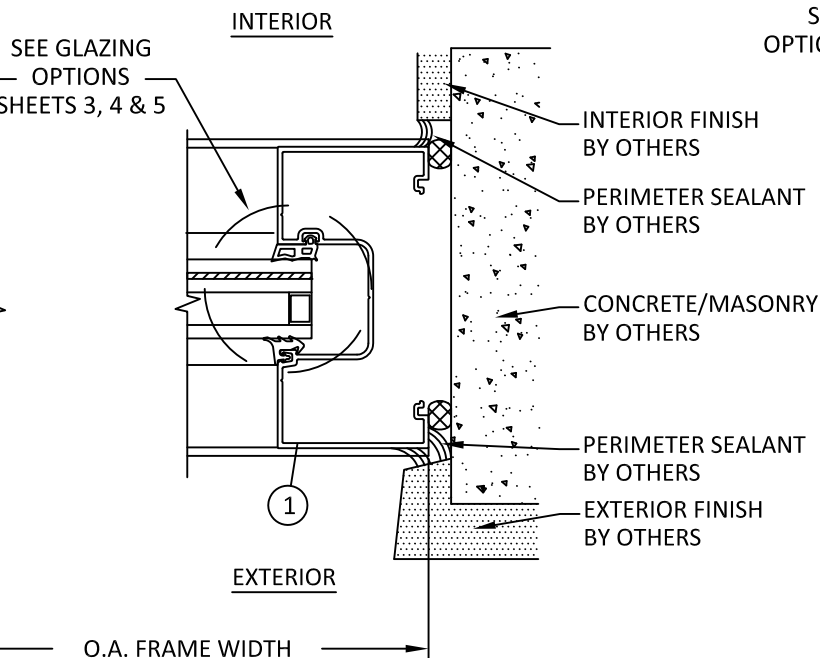




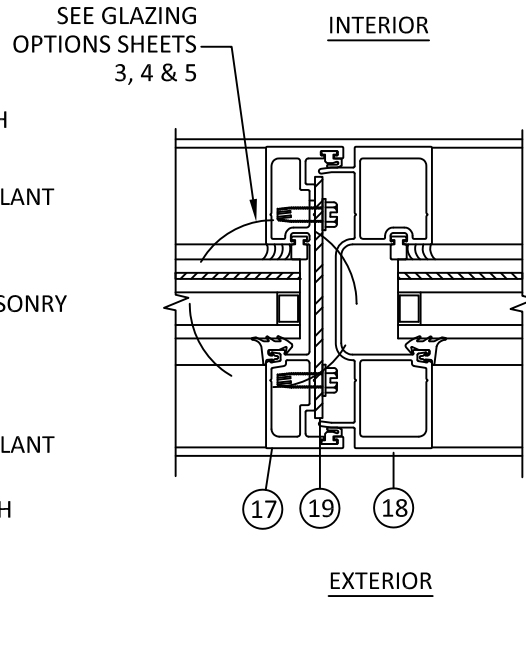
**L** **HORIZONTAL SECTION**  
**17** JAMB - CONCRETE/MASONRY W/ 1X BUCK  
LIGHT CONFIGURATION



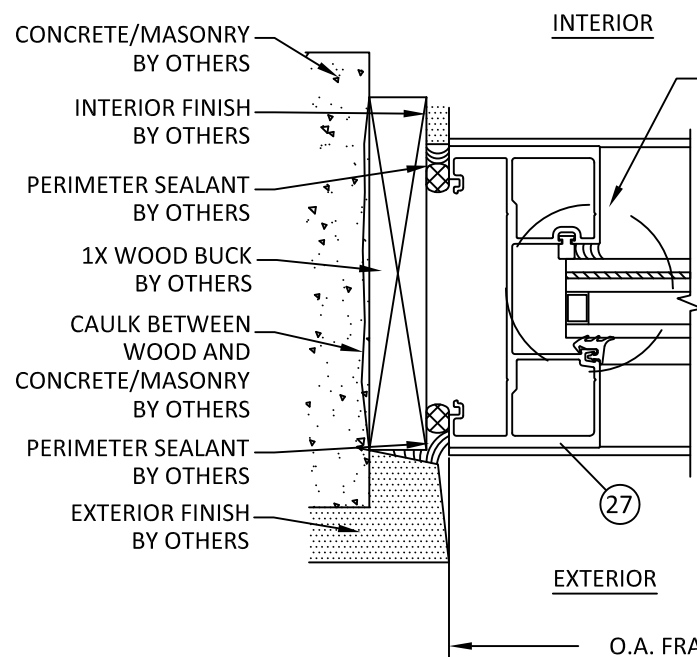
**M** **HORIZONTAL SECTION**  
**17** VERTICAL MULLION  
LIGHT CONFIGURATION



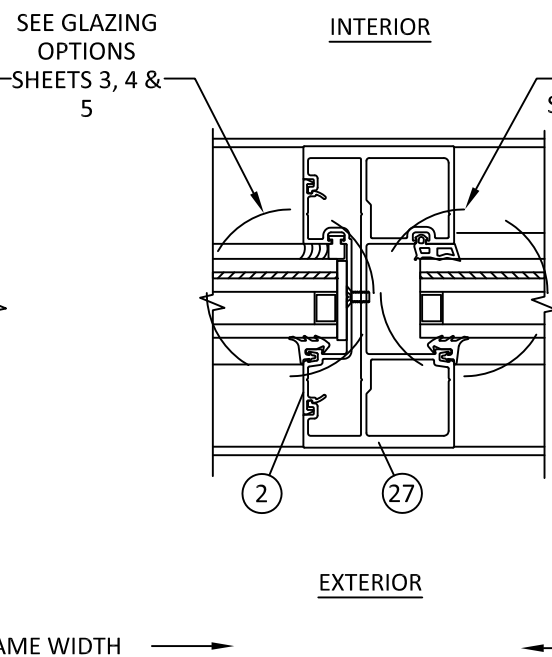
**N** **HORIZONTAL SECTION**  
**17** JAMB - DIRECT TO CONCRETE/MASONRY  
LIGHT CONFIGURATION



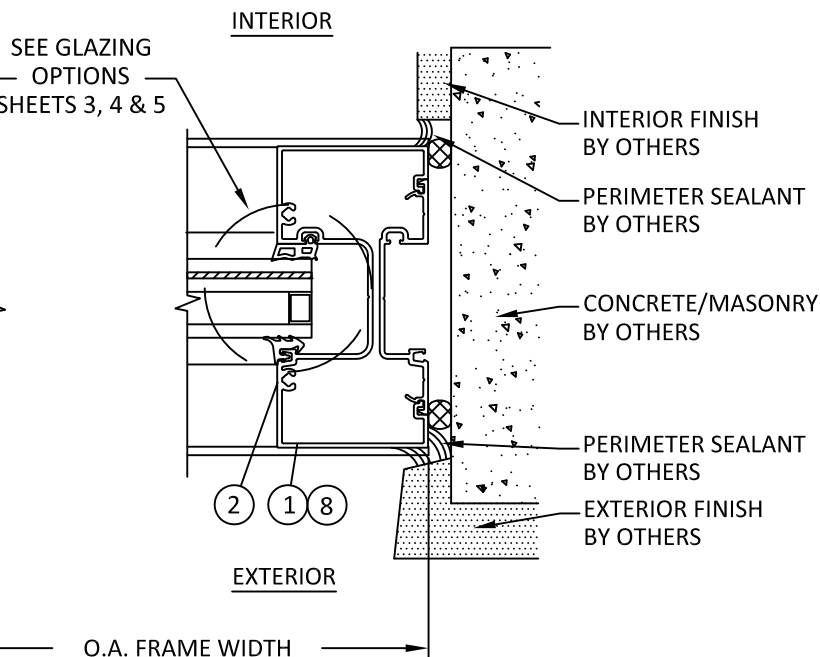
**O** **HORIZONTAL SECTION**  
**17** VERTICAL EXPANSION MULLION



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



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



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



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1229 HWY 441 BYPASS  
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TITLE: YHS 50 FI  
ALUMINUM STOREFRONT SYSTEM

HORIZONTAL SECTIONS

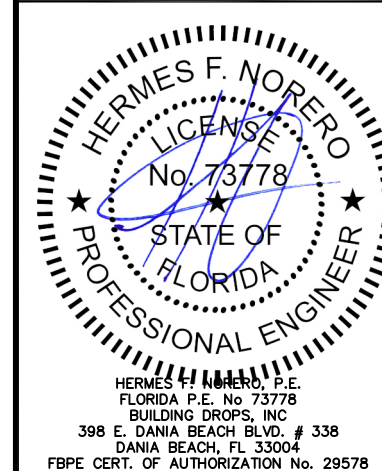
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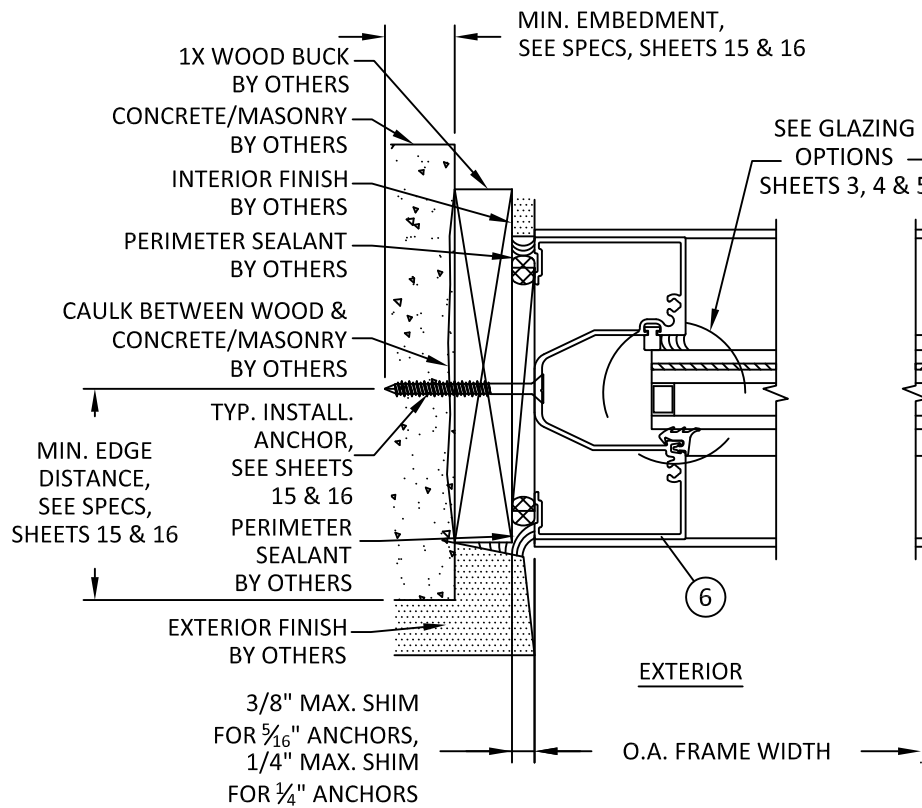
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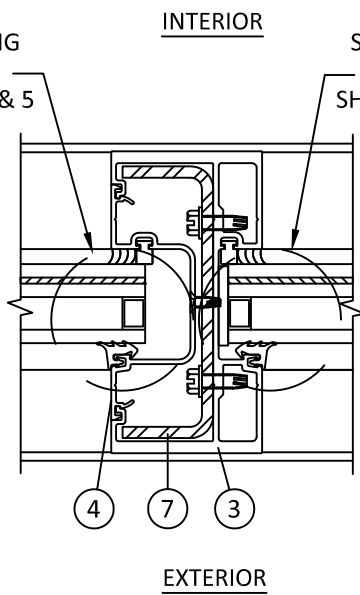


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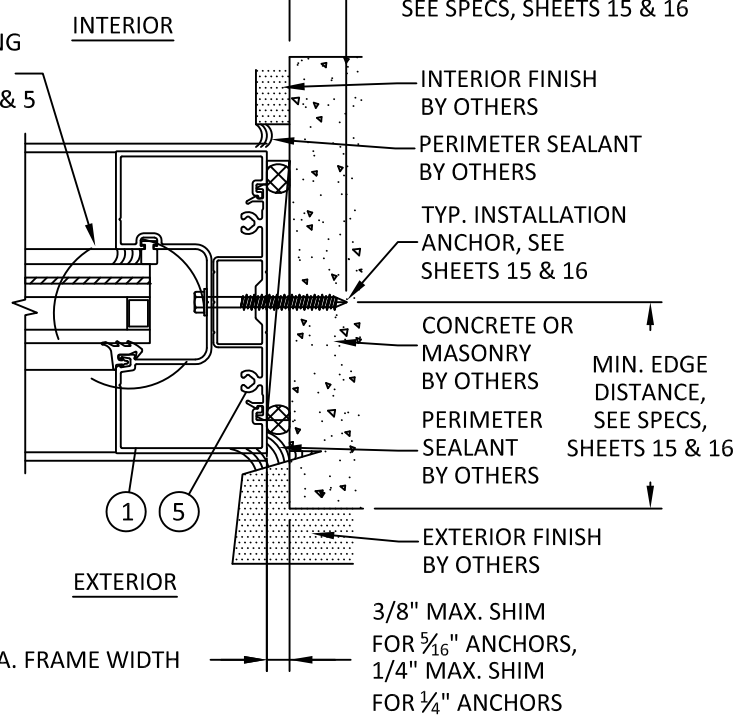
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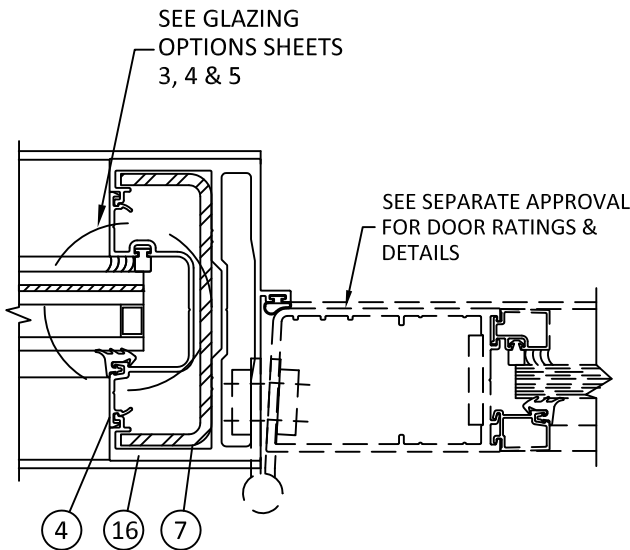
**S**  
**18** **HORIZONTAL SECTION**  
JAMB - CONCRETE/MASONRY W/ 1X BUCK  
HEAVY CONFIGURATION



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



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



**V**  
**18** **HORIZONTAL SECTION**  
DOOR JAMB MULLION



YKK AP AMERICA

1229 HWY 441 BYPASS  
DUBLIN, GEORGIA 31021

PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 FI  
ALUMINUM STOREFRONT SYSTEM

HORIZONTAL SECTIONS

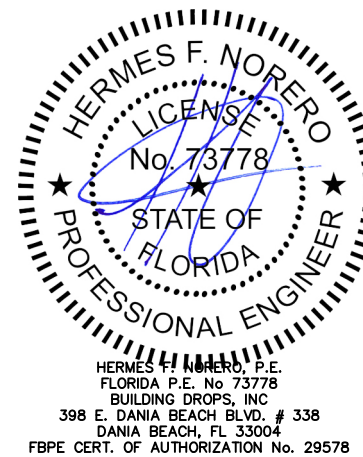
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**HFN**

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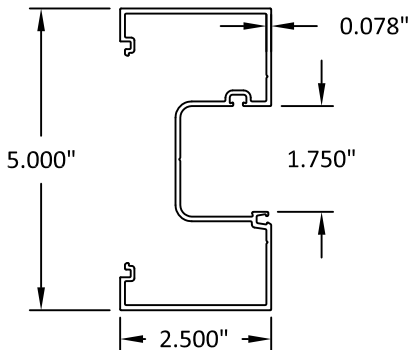
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**18**

OF 20

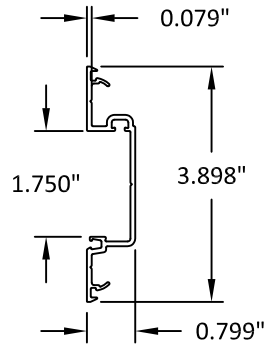
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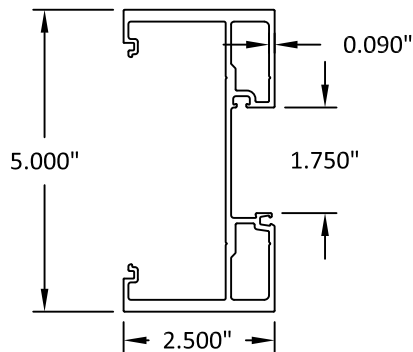
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL
1	E2-0663	LIGHT MULLION/JAMB & HEAVY JAMB	6063-T5
2	E9-0655	SHALLOW POCKET FILLER	6063-T5
3	E9-0665	HEAVY MULLION	6063-T5
4	E9-0656	DEEP POCKET FILLER	6063-T5
5	E9-0614	FLUSH FILLER	6063-T5
6	E9-0662	LIGHT HEAD OR HEAVY JAMB	6063-T5
7	E1-1062	HEAVY MULLION REINFORCEMENT	STEEL
8	E9-0651	HEAVY HEAD / MEDIUM JAMB	6063-T5
9	E9-0658	GLASS STOP	6063-T5
10	E9-0653	HORIZONTAL MEMBER	6063-T5
11	E9-0664	LIGHT SILL	6063-T5
12	E9-0625	LIGHT SILL FLASHING	6063-T5
13	E9-0652	HEAVY SILL	6063-T5
14	E9-0619	HEAVY SILL FLASHING	6063-T5
15	E9-0657	SNAP IN COVER	6063-T5
16	E9-0504	DOOR MULLION	6063-T5
17	E9-0688	FEMALE EXPANSION MULLION	6063-T5
18	E9-0689	MALE EXPANSION MULLION	6063-T5
19	--	EXPANSION MULLION REINFORCEMENT	STEEL
23	E2-0084	INTERIOR GLAZING SPACER	PC EPDM
24	E2-0095	SETTING BLOCK	EPDM
25	E2-0088	INTERIOR GLAZING GASKET	EPDM
26	E2-0083	EXTERIOR GLAZING GASKET	EPDM
27	E9-0654	MEDIUM MULLION / JAMB	6063-T5



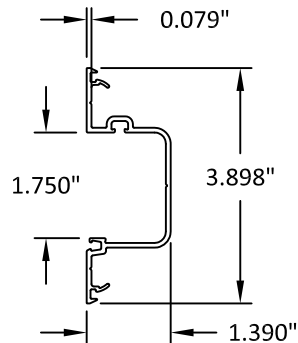
1 LIGHT MULLION/JAMB & HEAVY JAMB  
6063-T5



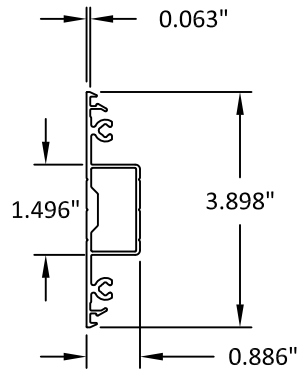
2 SHALLOW POCKET FILLER  
6063-T5



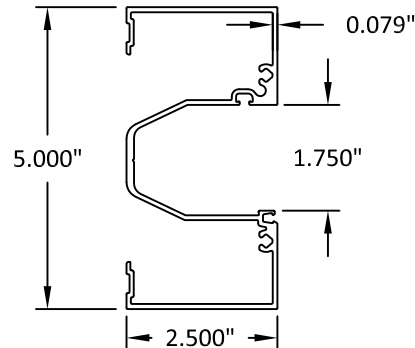
3 HEAVY MULLION  
6063-T5



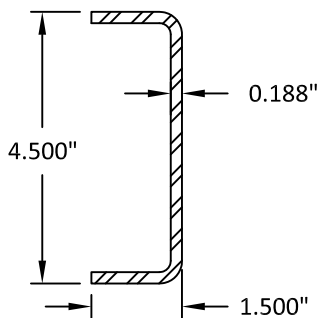
4 DEEP POCKET FILLER  
6063-T5



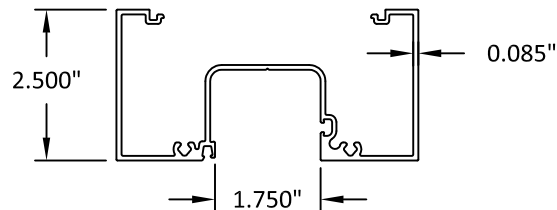
5 FLUSH FILLER  
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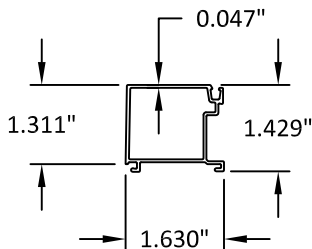
6 HEAVY JAMB & LIGHT HEAD  
6063-T5



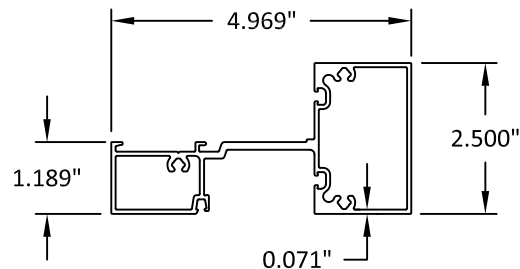
7 HEAVY MULLION REINFORCEMENT  
STEEL



8 HEAVY HEAD / MEDIUM JAMB  
6063-T5



9 GLASS STOP  
6063-T5



10 HORIZONTAL MEMBER  
6063-T5



YKK AP AMERICA

1229 HWY 441 BYPASS  
DUBLIN, GEORGIA 31021  
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHS 50 FI  
ALUMINUM STOREFRONT SYSTEM

COMPONENTS & BILL OF MATERIALS

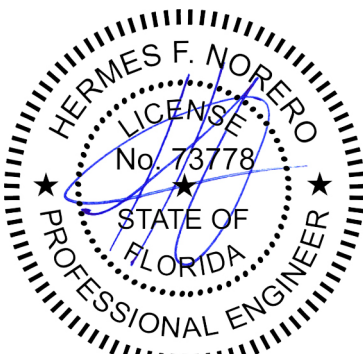
PREPARED BY: BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338  
DANIA BEACH, FL 33004  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



REMARKS	BY	DATE

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FLORIDA P.E. No. 73778  
BUILDING DROPS, INC  
398 E. DANIA BEACH BLVD. # 338  
DANIA BEACH, FL 33004  
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:  
**FL14218**

DATE: **11.18.15**

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

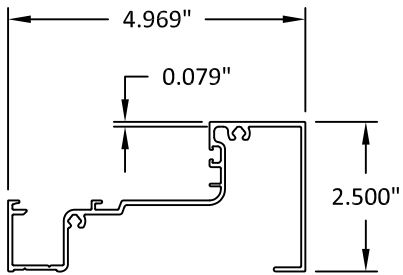
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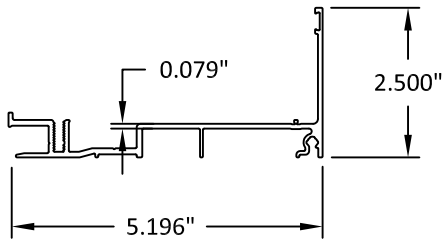
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**19**

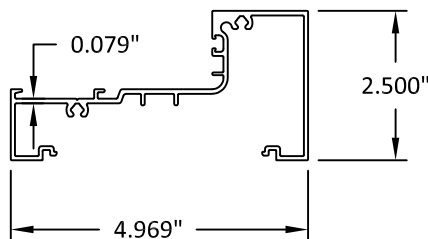
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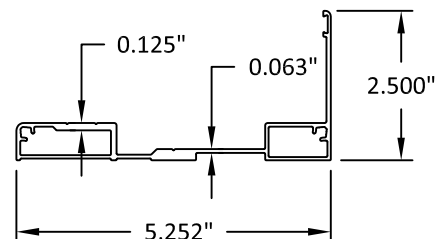
11 LIGHT SILL  
6063-T5



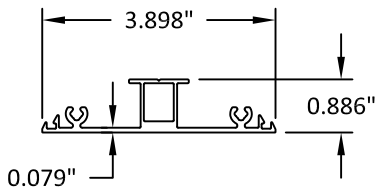
12 LIGHT SILL FLASHING  
6063-T5



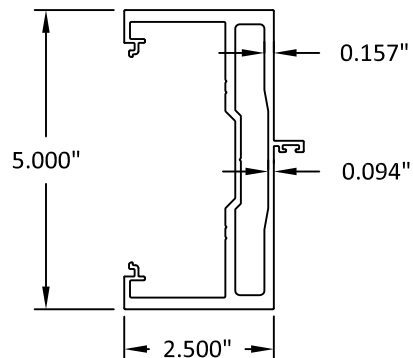
13 HEAVY SILL  
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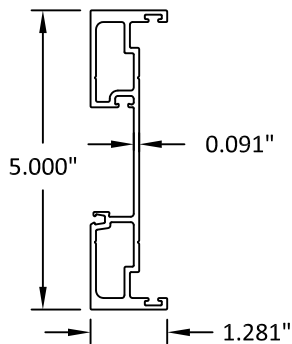
14 HEAVY SILL FLASHING  
6063-T5



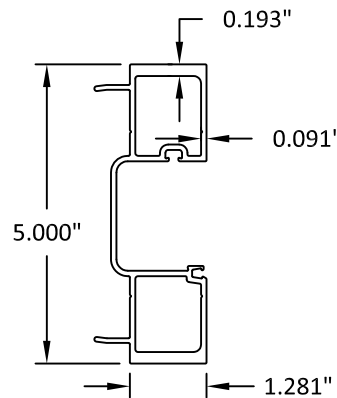
15 SNAP IN COVER  
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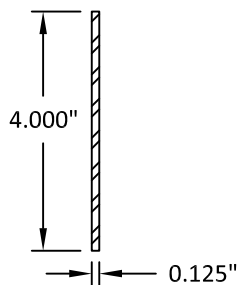
16 DOOR MULLION  
6063-T5



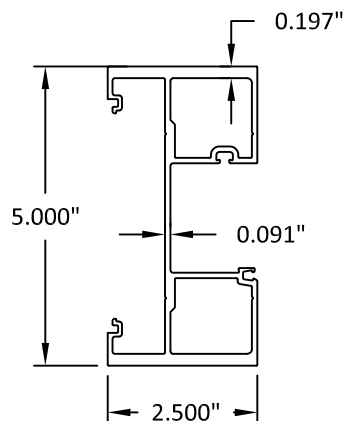
17 FEMALE EXPANSION MULLION  
6063-T5



18 MALE EXPANSION MULLION  
6063-T5



19 EXPANSION MULLION REINF.  
STEEL



27 MEDIUM MULLION / JAMB  
6063-T5

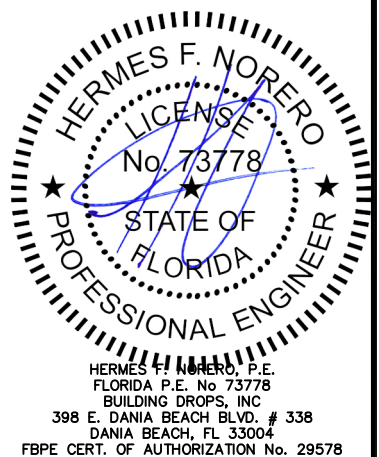


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