YKK AP America Inc.

YWW 45 FS (MONOLITHIC GLASS) WINDOW WALL SYSTEM (NON-HVHZ) (NON-IMPACT)

INSTALLATION NOTES:

1. SEE SHEET 3 FOR ANCHOR TYPE REQUIREMENTS, MINIMUM EMBEDMENTS, AND MINIMUM EDGE DISTANCES. ALL ANCHOR REQUIREMENTS MUST BE ADHERED TO. ANY DEVIATIONS FROM ANCHOR REQUIREMENTS REQUIRES SEPARATE EVALUATION AND APPROVAL.

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

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

4. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.

5. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.

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

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

8. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.

9. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.

10. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
    A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
    B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
    C. MASONRY - CMU UNIT STRENGTH CONFORMS TO ASTM C-90, WITH MIN. COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MIN. GROUT COMPRESSIVE STRENGTH OF 2000 PSI.
    D. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.
    E. STEEL - MINIMUM YIELD STRENGTH OF 36 KSI. MINIMUM 18 GA. WALL THICKNESS WITH 2X WOOD BACKING.
    F. ALUMINUM - MINIMUM 1/8 INCH THICK 6063-T5 ALUMINUM.

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
    - AAMA 501-15
    - ASTM E 283-04(12)
    - ASTM E 330-14
    - ASTM E 331-00(09)

2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.

3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.

4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

5. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE. SEE SHEET 4 FOR GLAZING DETAILS. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300.

6. STOREFRONT FRAME MATERIAL: ALUMINUM 6063-T5

7. ALL STRUCTURAL MATERIALS & DISSIMILAR METALS SHALL BE PROTECTED, TREATED, PAINTED, COATED, AND/OR ISOLATED AS REQUIRED IN THE APPLICABLE SECTIONS OF THE CURRENT FLORIDA BUILDING CODE AND REFERENCED DESIGN SPECIFICATIONS.

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2	ELEVATIONS
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4	GLAZING DETAILS & DESIGN PRESSURE TABLE
5	MULLION DESIGN PRESSURE TABLES
6	ANCHOR TABLE
7	ANCHOR TABLE
8	VERTICAL SECTIONS
9	VERTICAL SECTIONS (CONT'D)
10	HORIZONTAL SECTIONS
11	COMPONENTS
12	BILL OF MATERIALS

INSTRUCTIONS FOR USE:

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

YKK AP America Inc.
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DUBLIN, GEORGIA 31021
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TITLE: YWW 45 FS (MONOLITHIC GLASS) WINDOW WALL SYSTEM (NON-HVHZ)(NON-IMPACT) INSTALLATION & GENERAL NOTES

PREPARED BY: BUILDING DROPS, INC.
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FAX: (954)744.4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
8TH FBC CODE CHANGE	SH	5.22.23

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2023.08.01 12:19:49 -04'00'

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

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

FL #: FL12611

DATE: 07.25.17

DWG. BY: AR | CHK. BY: HFN

SCALE: NTS

DWG. #: YKK209

SHEET: 1 OF 12

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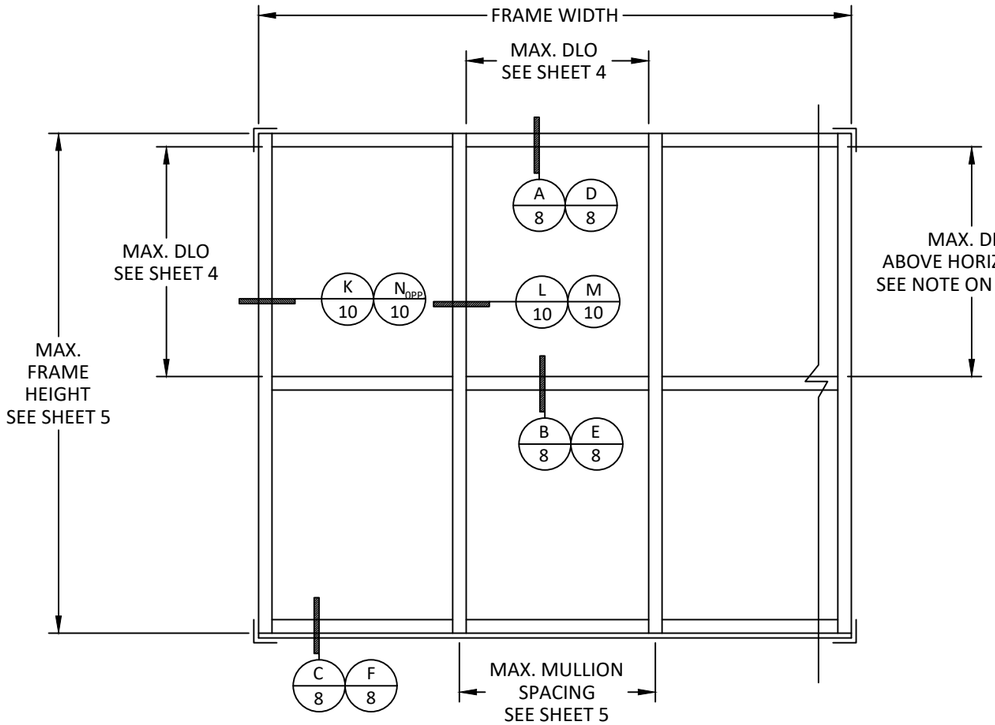
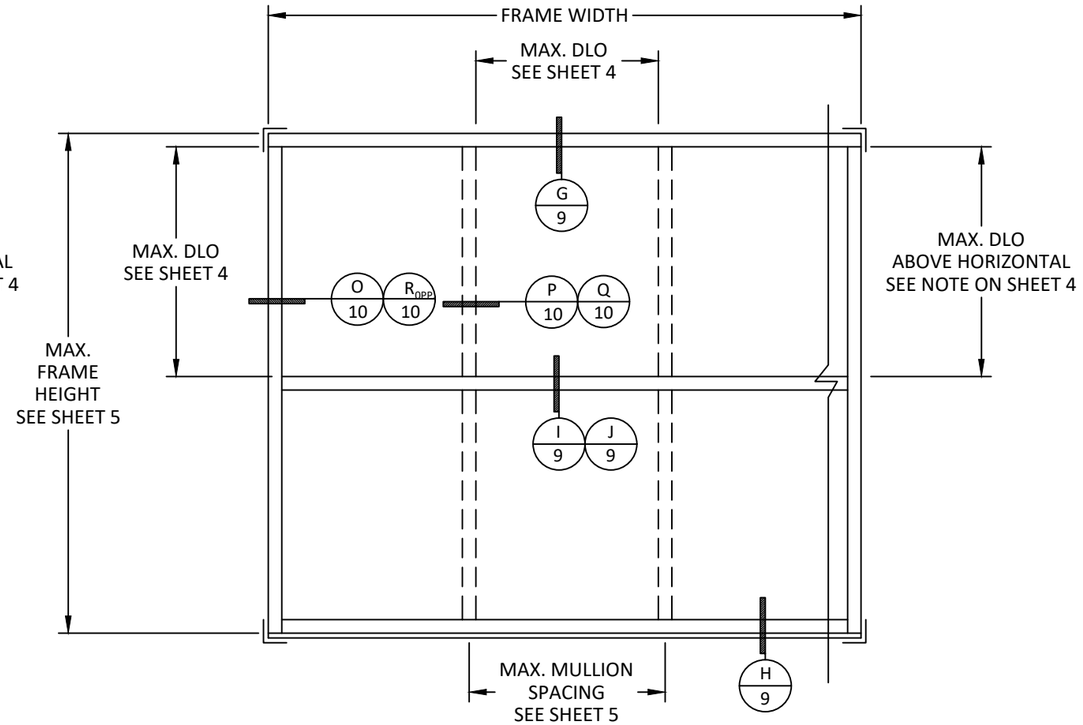


ELEVATION
VERTICAL THRU



ELEVATION
CONTINUOUS HEAD AND SILL

YKK AP America Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
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TITLE: YWW 45 FS (MONOLITHIC GLASS) WINDOW WALL SYSTEM (NON-HVHZ)(NON-IMPACT) ELEVATIONS

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DWG. BY:	CHK. BY:
AR	HFN

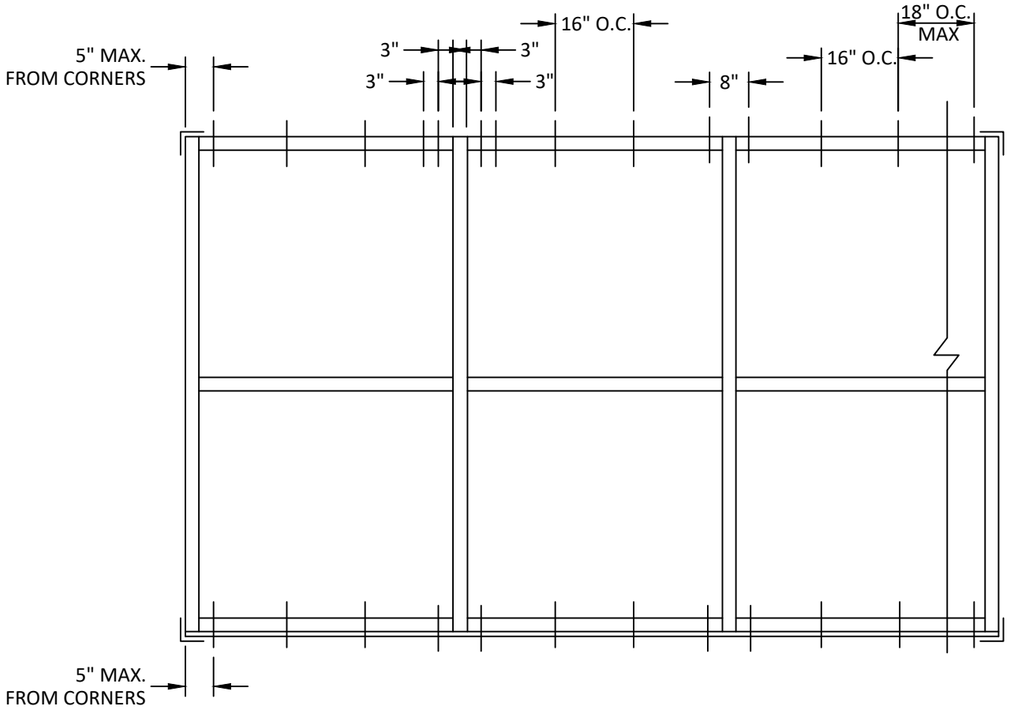
SCALE: NTS

DWG. #: YKK209

SHEET: 2 OF 12

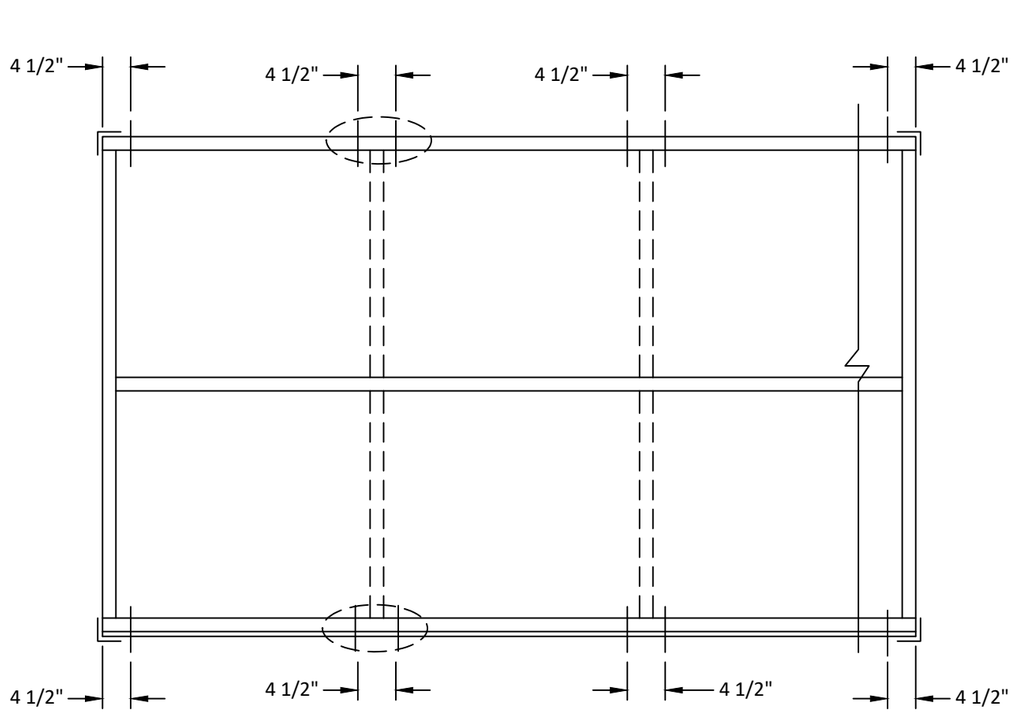
YWW 45 FS VERTICAL THRU ANCHOR TYPES				
ANCHOR DESCRIPTION	SUBSTRATE REQUIREMENTS	MIN. EMBEDMENT	MIN. EDGE DISTANCE	NOTES
1/4" Ø TAPCON BY ITW (F_u=125 KSI, F_y=100 KSI) OR 1/4" Ø ULTRACON+ BY DEWALT (F_u=177 KSI, F_y=155 KSI)	CONCRETE AT HEAD OR SILL F'$_C$=3000 PSI MIN.	1-1/4"	2-1/2"	MAY BE USED THROUGH OPTIONAL 1X BUCKS, BY OTHERS
#12 WOOD SCREWS	MIN. S.G.=0.55 WOOD	1-1/4"	1"	--
1/4" Ø SELF-DRILLING OR SELF-TAPPING SCREWS (GRADE 5)	STEEL: 18 GA. MIN., F_y=33 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
	18 GA. MIN. STEEL STUD, F_y=33 KSI MIN. WITH 2X WOOD BACKING	1-1/2" IN WOOD	1" IN WOOD	

YWW 45 FS CONTINUOUS HEAD AND SILL ANCHOR TYPES				
ANCHOR DESCRIPTION	SUBSTRATE REQUIREMENTS	MIN. EMBEDMENT	MIN. EDGE DISTANCE	NOTES
3/8" Ø LDT BY ITW (F_u=125 KSI, F_y=100 KSI)	CONCRETE AT HEAD OR SILL F'$_C$=3000 PSI MIN.	2"	2-1/2"	MAY BE USED THROUGH OPTIONAL 1X BUCKS, BY OTHERS
3/8" LAG SCREW	MIN. S.G.=0.55 WOOD	3"	1"	--
3/8" Ø SELF-DRILLING OR SELF-TAPPING SCREWS (GRADE 5)	STEEL: 18 GA. MIN., F_y=33 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
	18 GA. MIN. STEEL STUD, F_y=33 KSI MIN. WITH 2X WOOD BACKING	1-1/2" IN WOOD	1" IN WOOD	



TYPICAL ANCHOR LAYOUT

VERTICAL THRU
THROUGH FRAME ANCHORS



TYPICAL ANCHOR LAYOUT

CONTINUOUS HEAD AND SILL
HEAD & SILL ANCHORS

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TITLE: YWW 45 FS (MONOLITHIC GLASS) WINDOW WALL SYSTEM (NON-HVHZ)(NON-IMPACT) ANCHOR LAYOUTS & ANCHOR SCHEDULE

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SCALE: NTS

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GLASS LOAD CAPACITY (PSF)		
NOMINAL PANEL SIZE (in)		NON-IMPACT GLASS
PANEL WIDTH	PANEL HEIGHT	EXT. (+) INT. (-)
30	30	52.5
36		37.5
42		29.2
48		23.9
54		20.2
58.25		18.2
60		17.5
66		15.4
30	36	45.0
36		43.8
42		32.8
48		26.3
54		21.9
58.25		19.6
60		18.8
30	39.375	42.4
36		40.3
42		35.3
48		27.8
54		23.0
58.25		20.4
30	42	40.8
36		38.3
42		37.5
48		29.2
54		23.9
30	48	38.2
36		35.0
42		33.3

GLASS LOAD CAPACITY (PSF)		
NOMINAL PANEL SIZE (in)		NON-IMPACT GLASS
PANEL WIDTH	PANEL HEIGHT	EXT. (+) INT. (-)
30	54	36.3
36		32.8
42		30.7
30	60	35.0
36		31.3
30	66.0	34.0

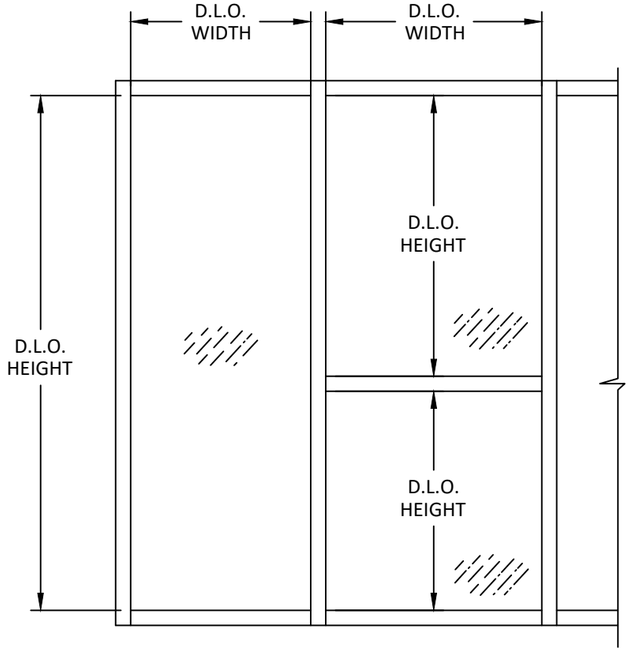
FRAME DIM. NOT SHOWN MAY BE OBTAINED BY LINEAR INTERPOLATION OF TABULATED VALUES. MAX AREA NOT TO EXCEED = 3900.00 IN²

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON CHAPTER 17 OF THE FBC FOR SIZES OTHER THAN TESTED.

DAYLITE OPENING DIMENSIONS:
DAYLITE OPENING WIDTH
= NOMINAL PANEL WIDTH - 1.75" (FS)

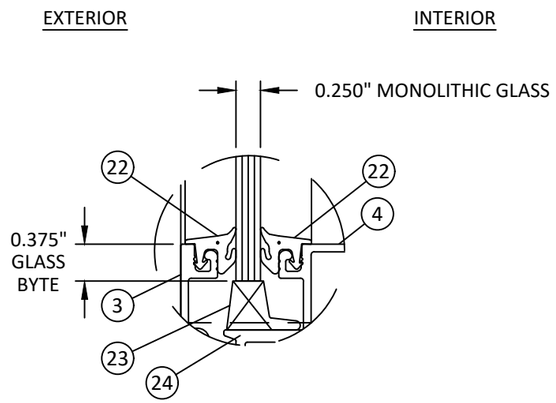
DAYLITE OPENING HEIGHT
= FRAME HEIGHT - 3.75" (HEAD TO SILL)
= HORIZ. END - 3.75" (HORIZONTAL TO HEAD/SILL)

MAX DAYLITE OPENING ABOVE HORIZONTAL NOT TO EXCEED
58" x 62-25/32"

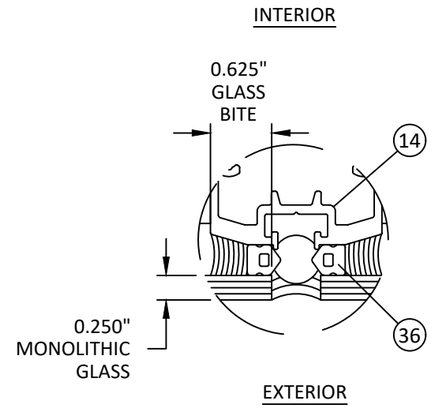


GLAZING DETAILS

NON-IMPACT GLAZING



GLAZING DETAIL 1
TYPICAL AT SILL



GLAZING DETAIL 2
TYPICAL AT SSG VERTICAL

GLAZING NOTES:
1. GLASS TYPE AND THICKNESS SHALL COMPLY WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. THICKNESS, TEMPER, AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
4. D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN GLASS CHARTS.

ALUMINUM BOX SPACER:
AROUND THE PERIMETER OF THE GLASS

PRIMARY SEALANT:
POLYISOBUTYLENE (PIB)

SECONDARY SEALANT:
STRUCTURAL SILICONE INTENDED FOR FABRICATION OF INSULATED GLASS UNITS.

YKK AP America Inc.
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TITLE: YWW 45 FS (MONOLITHIC GLASS) WINDOW WALL SYSTEM (NON-HVHZ)(NON-IMPACT)
GLAZING DETAILS AND DESIGN PRESSURE TABLE

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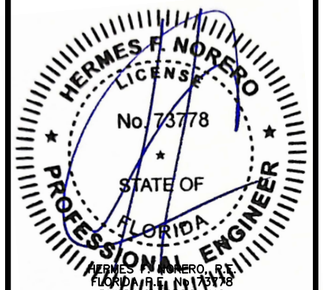

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FL #: FL12611

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DWG. BY: AR | CHK. BY: HFN

SCALE: NTS

DWG. #: YKK209

SHEET: 4 OF 12

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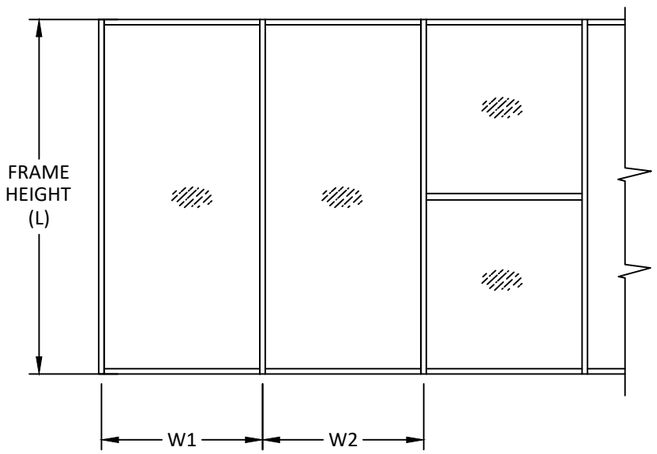
MULLION LOAD TABLES

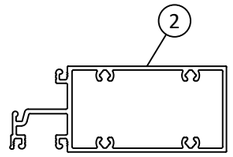
MAXIMUM DESIGN PRESSURE CAPACITY VERTICAL THRU		
WIDTH (in) W	FRAME HEIGHT (in) L	DESIGN PRESSURE (psf)
30	72	80.0
36		77.8
42		66.7
48		58.3
54		51.9
60		46.7
66		42.4
30	78	80.0
36		71.8
42		61.5
48		53.8
54		47.9
60		43.1
30	84	80.0
36		66.7
42		57.1
48		50.0
54		44.4
60		40.0
30	90	65.0
36		54.2
42		46.5
48		40.7
54		36.1
30	96	53.6
36		44.7
42		38.3
48		33.5
30	102	44.7
36		37.2
42		31.9
48		27.9
30	108	37.6
36		31.4
42		26.9
30	114	32.0
36		26.7
42		22.9
30	120	27.4
36		22.9
42		19.6

MAXIMUM DESIGN PRESSURE CAPACITY CONTINUOUS HEAD AND SILL		
WIDTH (in) W	FRAME HEIGHT (in) L	DESIGN PRESSURE (psf)
30	72	80.0
36		77.8
42		66.7
48		58.3
54		51.9
60		46.7
66		42.4
30	78	80.0
36		71.8
42		61.5
48		53.8
54		47.9
60		43.1
30	84	80.0
36		66.7
42		57.1
48		50.0
54		44.4
60		40.0
30	90	65.0
36		54.2
42		46.5
48		40.7
54		36.1
30	96	53.6
36		44.7
42		38.3
48		33.5
30	102	44.7
36		37.2
42		31.9
48		27.9
30	108	37.6
36		31.4
42		26.9
30	114	32.0
36		26.7
42		22.9
30	120	27.4
36		22.9
42		19.6

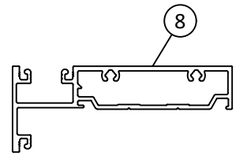
NOTE: VALUES SHOWN ABOVE APPLICABLE TO ALL VERTICAL MEMBERS SHOWN.



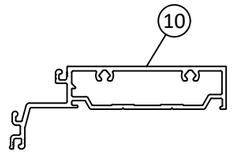
$$\text{TRIBUTARY WIDTH (W)} = \frac{W1 + W2}{2}$$



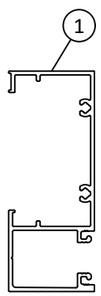
H1
O.G. HORIZONTAL



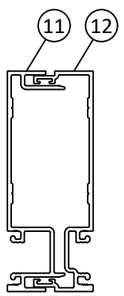
H2
I.G. HORIZONTAL



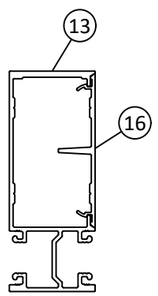
H3
I.G. HORIZONTAL
WITH SSG MULLION



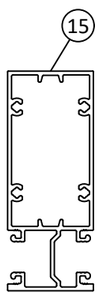
J1
JAMB MULLION



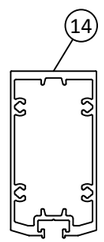
M1
EXPANSION MULLION



M2
S.S. MULLION



M3
HOLLOW MULLION



M4
SSG MULLION

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

TITLE: YWW 45 FS (MONOLITHIC GLASS) WINDOW WALL SYSTEM (NON-HVHZ)(NON-IMPACT) 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
8TH FBC CODE CHANGE	SH	5.22.23

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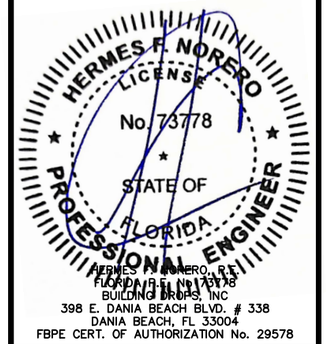

FL #: FL12611

DATE: 07.25.17

DWG. BY: AR | CHK. BY: HFN

SCALE: NTS

DWG. #: YKK209

SHEET: 5 OF 12

7/3/2023 10:34 AM
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7/3/2023 10:34 AM

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HEADER, SILL AND JAMBS ANCHOR LOAD CAPACITY - QUANTITY OF ANCHORS CLUSTERED ON EACH SIDE OF MULLION PSF - EXT. (+) & INT. (-)							
NOMINAL DIMS.		INSTALLATION TO CONCRETE OR MASONRY		INSTALLATION TO STEEL OR ALUMINUM		INSTALLATION TO WOOD	
WIDTH (*in*) (W)	FRAME HEIGHT (*in*)	1 ANCHOR	2 ANCHORS	1 ANCHOR	2 ANCHORS	1 ANCHOR	2 ANCHORS
30	72	34.7	69.3	44.5	80.0	60.1	80.0
36		30.5	61.0	39.1	78.2	52.9	80.0
42		27.7	55.3	35.5	71.0	48.0	80.0
48		25.7	51.5	33.0	66.0	44.6	80.0
54		24.4	48.8	31.3	62.6	42.3	80.0
60		23.5	47.0	30.2	60.3	40.8	80.0
66		23.0	46.1	29.5	59.1	39.9	79.9
30	78	31.4	62.7	40.2	80.0	54.4	80.0
36		27.4	54.9	35.2	70.4	47.6	80.0
42		24.8	49.5	31.8	63.5	42.9	80.0
48		22.9	45.7	29.3	58.7	39.7	79.3
54		21.5	43.0	27.6	55.2	37.3	74.6
60		20.6	41.2	26.4	52.8	35.7	71.4
30	84	28.6	57.3	36.7	73.4	49.7	80.0
36		24.9	49.9	32.0	64.0	43.3	80.0
42		22.4	44.8	28.7	57.5	38.8	77.7
48		20.6	41.2	26.4	52.8	35.7	71.4
54		19.3	38.5	24.7	49.4	33.4	66.8
60		18.3	36.6	23.5	46.9	31.7	63.4
30	90	26.3	52.7	33.8	67.6	45.7	80.0
36		22.9	45.7	29.3	58.7	39.7	79.3
42		20.5	40.9	26.2	52.5	35.5	70.9
48		18.7	37.4	24.0	48.0	32.4	64.9
54		17.4	34.8	22.3	44.7	30.2	60.4
30	96	24.4	48.8	31.3	62.6	42.3	80.0
36		21.1	42.2	27.1	54.1	36.6	73.2
42		18.8	37.6	24.1	48.3	32.6	65.3
48		17.2	34.3	22.0	44.0	29.7	59.5
30	102.0	22.7	45.4	29.1	58.3	39.4	78.8
36		19.6	39.2	25.1	50.3	34.0	68.0
42		17.4	34.8	22.3	44.7	30.2	60.4
48		15.8	31.7	20.3	40.6	27.5	54.9
30	108.0	21.2	42.5	27.2	54.5	36.8	73.7
36		18.3	36.6	23.5	46.9	31.7	63.4
42		16.2	32.4	20.8	41.6	28.1	56.3
30	114.0	20.0	39.9	25.6	51.2	34.6	69.2
36		17.2	34.3	22.0	44.0	29.7	59.5
42		15.2	30.3	19.5	38.9	26.3	52.6
30	120.0	18.8	37.6	24.1	48.3	32.6	65.3
36		16.1	32.3	20.7	41.4	28.0	56.0
42		14.3	28.5	18.3	36.6	24.7	49.4

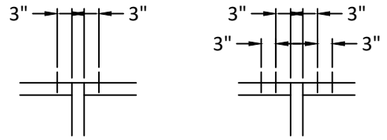
VERTICAL THRU ANCHOR TABLE

ANCHOR REQUIREMENTS:
SEE SHEET 3 FOR ANCHOR DESCRIPTIONS

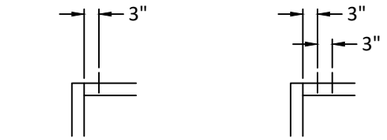
DETERMINE REQUIRED QUANTITY OF ANCHORS CLUSTERED ON EACH SIDE OF MULLION FROM TABLE AT LEFT BASED ON NOMINAL PANEL SIZE AND SITE REQUIRED DP. INSTALL ANCHORS PER DETAILS BELOW.

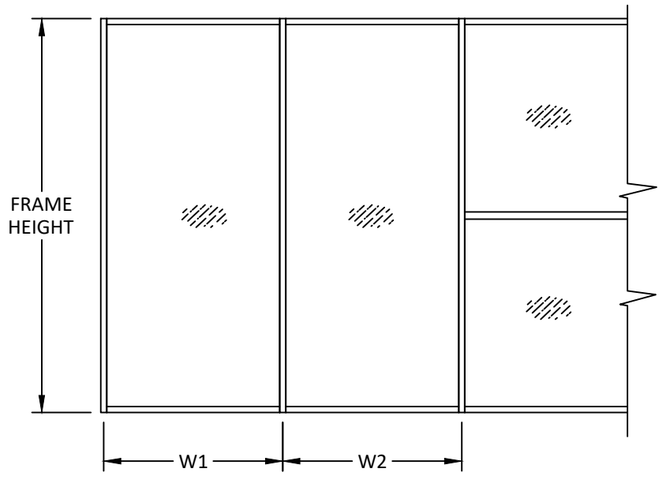
ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION

MULLIONS



JAMBS





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

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

TITLE: YWW 45 FS (MONOLITHIC GLASS) WINDOW WALL SYSTEM (NON-HVHZ)(NON-IMPACT) ANCHOR TABLE

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
8TH FBC CODE CHANGE	SH	5.22.23

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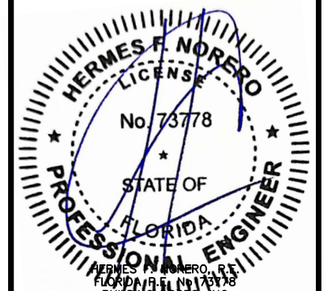

HERMES F. NORERO, PE
FLORIDA PE No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL12611

DATE: 07.25.17

DWG. BY: AR | CHK. BY: HFN

SCALE: NTS

DWG. #: YKK209

SHEET: 6 OF 12

7/3/2023 10:34 AM

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HEADER, SILL AND JAMBS ANCHOR LOAD CAPACITY - QUANTITY OF ANCHORS CLUSTERED ON EACH SIDE OF MULLION PSF - EXT. (+) & INT. (-)				
NOMINAL DIMS.		INSTALLATION TO CONCRETE OR MASONRY	INSTALLATION TO STEEL OR ALUMINUM	INSTALLATION TO WOOD
WIDTH (in) (W)	FRAME HEIGHT (in)	1 ANCHOR	1 ANCHOR	1 ANCHOR
30	72	80.0	80.0	80.0
36		80.0	80.0	80.0
42		80.0	80.0	80.0
48		79.5	80.0	80.0
54		75.4	80.0	80.0
60		72.7	80.0	77.2
66		71.2	80.0	75.5
30	78	80.0	80.0	80.0
36		80.0	80.0	80.0
42		76.5	80.0	80.0
48		70.7	80.0	75.0
54		66.5	80.0	70.6
60		63.6	78.9	67.5
30	84	80.0	80.0	80.0
36		77.1	80.0	80.0
42		69.2	80.0	73.5
48		63.6	78.9	67.5
54		59.5	73.9	63.2
60		56.5	70.2	60.0
30	90	80.0	80.0	80.0
36		70.7	80.0	75.0
42		63.2	78.5	67.1
48		57.8	71.8	61.4
54		53.8	66.8	57.2
30	96	75.4	80.0	80.0
36		65.2	80.0	69.2
42		58.1	72.2	61.7
48		53.0	65.8	56.3
30	102	70.2	80.0	74.5
36		60.6	75.2	64.3
42		53.8	66.8	57.2
48		48.9	60.7	51.9
30	108	65.7	80.0	69.7
36		56.5	70.2	60.0
42		50.1	62.2	53.2
30	114	61.7	76.6	65.5
36		53.0	65.8	56.3
42		46.9	58.2	49.8
30	120	58.1	72.2	61.7
36		49.9	61.9	53.0
42		44.1	54.7	46.8

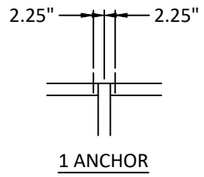
CONTINUOUS HEAD AND SILL ANCHOR TABLE

ANCHOR REQUIREMENTS:
SEE SHEET 3 FOR ANCHOR DESCRIPTIONS

DETERMINE REQUIRED QUANTITY OF ANCHORS CLUSTERED ON EACH SIDE OF MULLION FROM TABLE AT LEFT BASED ON NOMINAL PANEL SIZE AND SITE REQUIRED DP. INSTALL ANCHORS PER DETAILS BELOW.

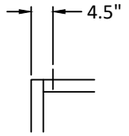
ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION

MULLIONS

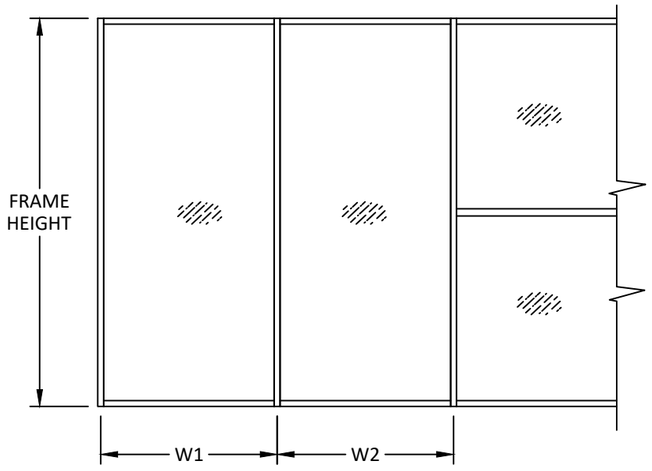


1 ANCHOR

JAMBS



1 ANCHOR



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

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

TITLE: YWW 45 FS (MONOLITHIC GLASS) WINDOW WALL SYSTEM (NON-HVHZ)(NON-IMPACT) ANCHOR TABLE

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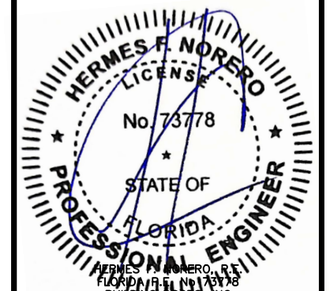

HERMES F. NORERO, PE
FLORIDA PE No. 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL12611

DATE: 07.25.17

DWG. BY: AR | CHK. BY: HFN

SCALE: NTS

DWG. #: YKK209

SHEET: 7 OF 12

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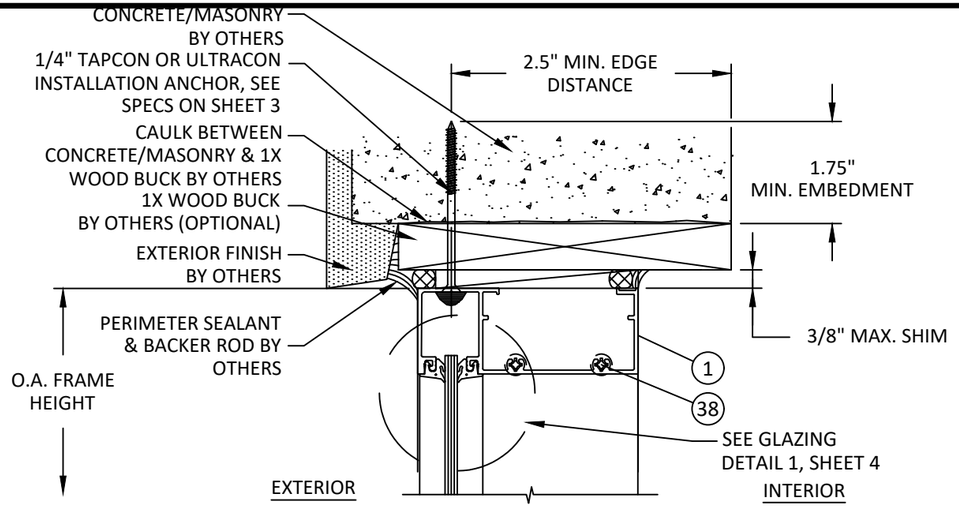
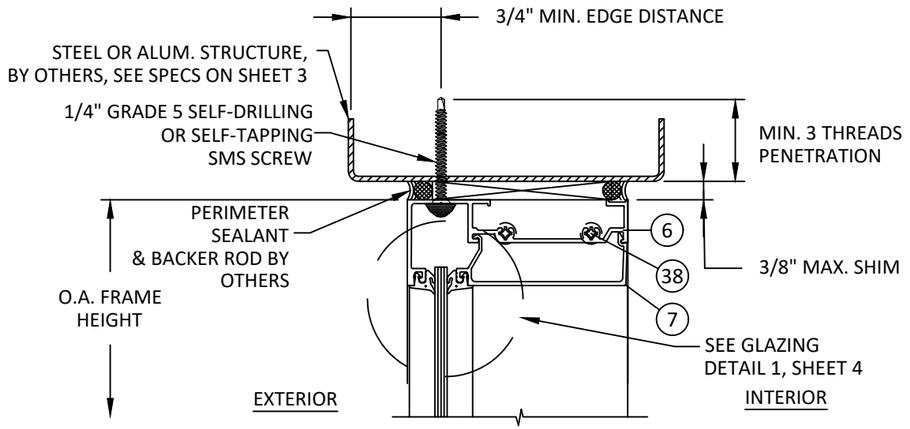


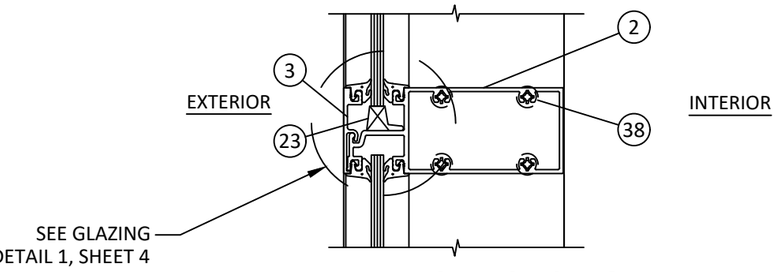
A/8 VERTICAL SECTION

HEAD - CONCRETE/MASONRY W/ 1X BUCK
VERTICAL THROUGH FRAME INSTALLATION
OUTSIDE GLAZED



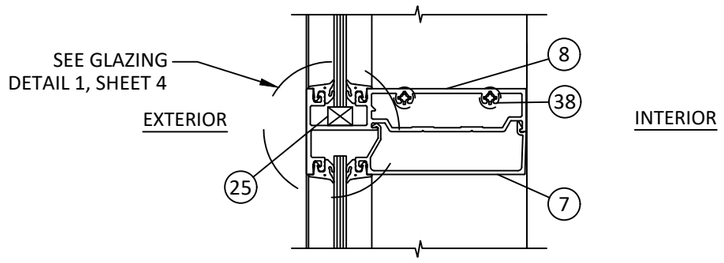
D/8 VERTICAL SECTION

HEAD - METAL SUBSTRATE
VERTICAL THROUGH FRAME INSTALLATION
INSIDE GLAZED



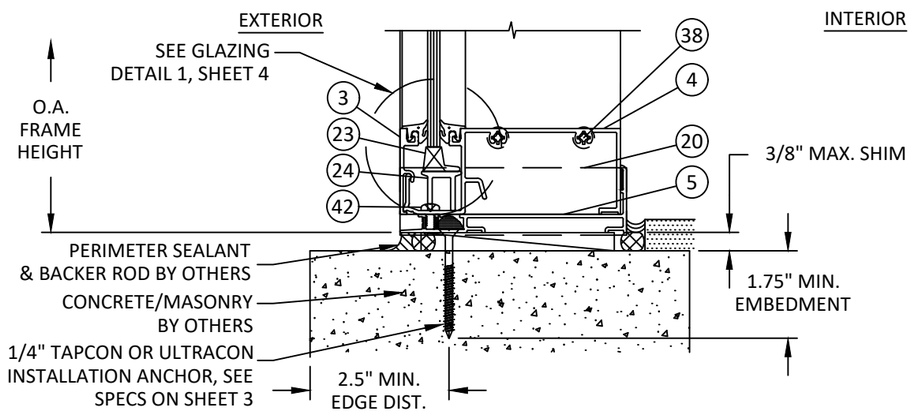
B/8 VERTICAL SECTION

INTERMEDIATE HORIZONTAL MEMBER
VERTICAL THROUGH FRAME INSTALLATION
OUTSIDE GLAZED



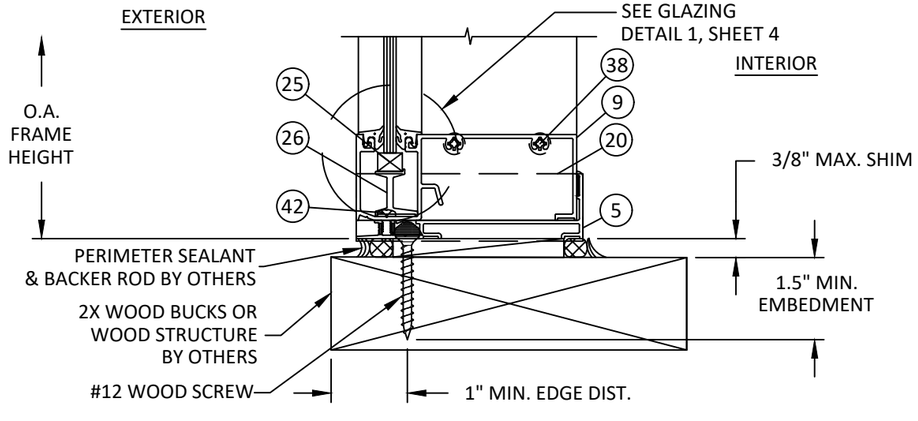
E/8 VERTICAL SECTION

INTERMEDIATE HORIZONTAL MEMBER
VERTICAL THROUGH FRAME INSTALLATION
INSIDE GLAZED



C/8 VERTICAL SECTION

SILL - DIRECT TO CONCRETE/MASONRY
VERTICAL THROUGH FRAME INSTALLATION
OUTSIDE GLAZED



F/8 VERTICAL SECTION

SILL - WOOD FRAMING
VERTICAL THROUGH FRAME INSTALLATION
INSIDE GLAZED

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

TITLE: YWW 45 FS (MONOLITHIC GLASS) WINDOW WALL SYSTEM (NON-HVHZ)(NON-IMPACT) VERTICAL SECTIONS

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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REMARKS	BY	DATE
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HERMES F. NORERO LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER
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 #: FL12611

DATE: 07.25.17

DWG. BY: AR | CHK. BY: HFN

SCALE: NTS

DWG. #: YKK209

SHEET: 8 OF 12

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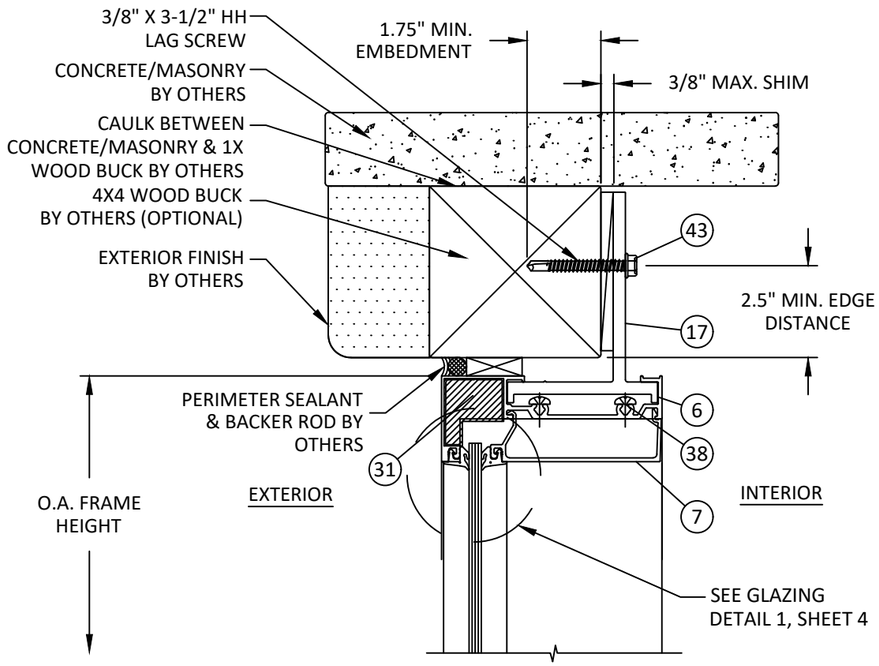
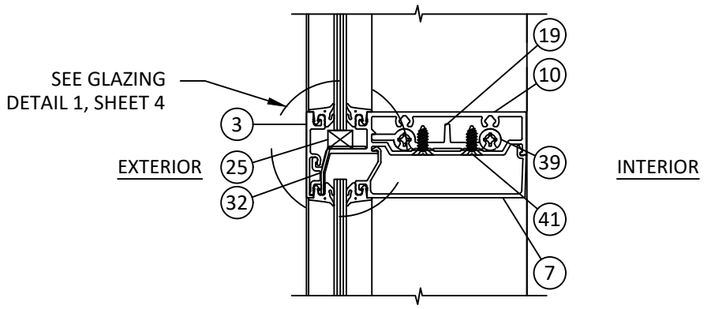


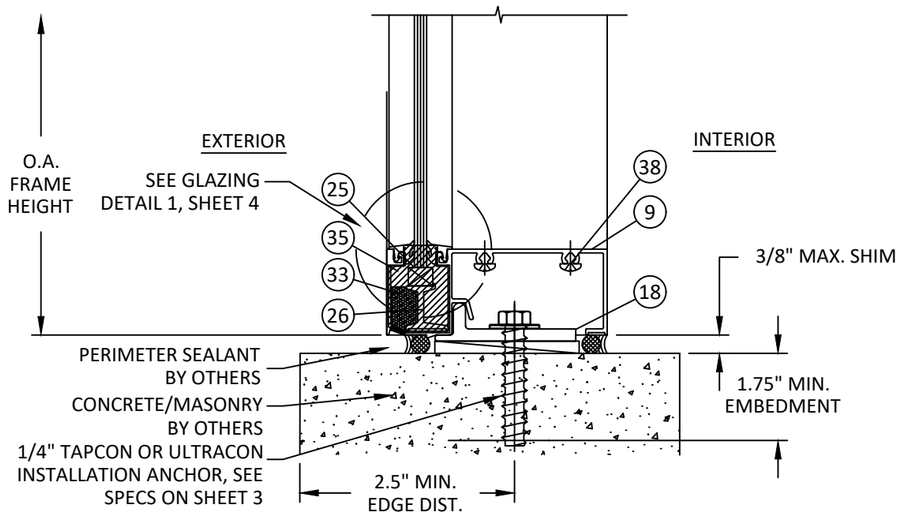
G/9 VERTICAL SECTION

HEAD - CONCRETE/MASONRY W/ 1X BUCK
HEAD ANCHOR - CONTINUOUS HEAD & SILL INSTALLATION



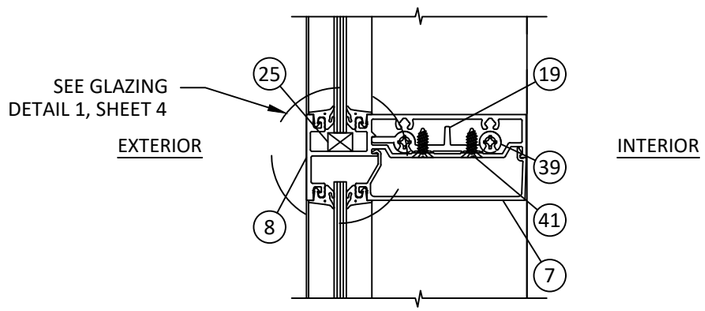
I/9 VERTICAL SECTION

INTERMEDIATE HORIZONTAL MEMBER
CONTINUOUS HEAD & SILL INSTALLATION
INSIDE GLAZED



H/9 VERTICAL SECTION

SILL - DIRECT TO CONCRETE/MASONRY
SILL ANCHOR - CONTINUOUS HEAD & SILL INSTALLATION



J/9 VERTICAL SECTION

INTERMEDIATE HORIZONTAL MEMBER
CONTINUOUS HEAD & SILL INSTALLATION
INSIDE GLAZED

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

TITLE: YWW 45 FS (MONOLITHIC GLASS) WINDOW WALL SYSTEM (NON-HVHZ)(NON-IMPACT) VERTICAL SECTIONS (CONT'D)

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
8TH FBC CODE CHANGE	SH	5.22.23

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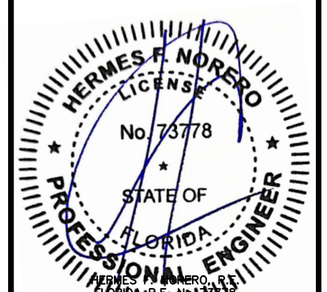

FL #: FL12611

DATE: 07.25.17

DWG. BY: AR | CHK. BY: HFN

SCALE: NTS

DWG. #: YKK209

SHEET: 9 OF 12

7/3/2023 10:34 AM

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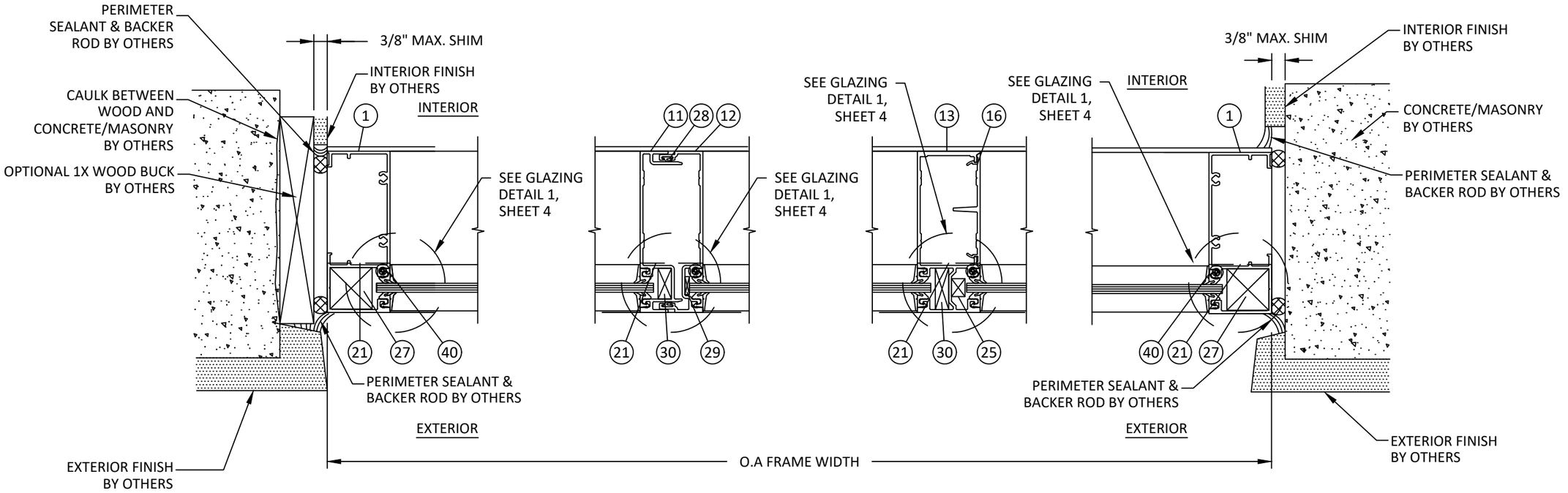
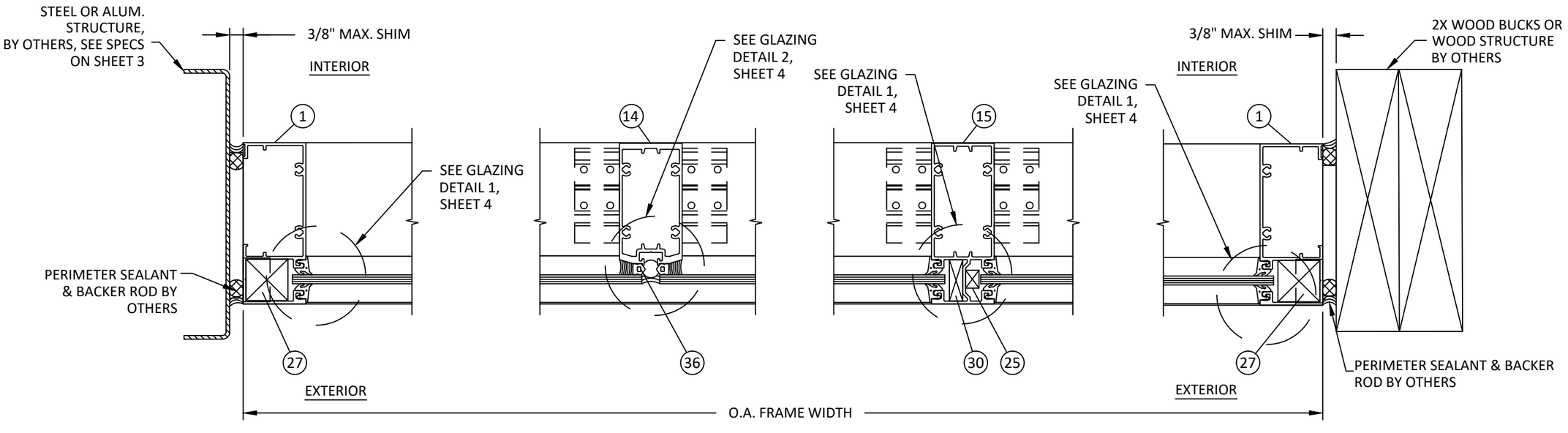


K/10 HORIZONTAL SECTION
JAMB - CONCRETE/MASONRY W/ 1X BUCK
VERTICAL THROUGH CONSTRUCTION

L/10 HORIZONTAL SECTION
VERTICAL MULLION
VERTICAL THROUGH CONSTRUCTION

M/10 HORIZONTAL SECTION
VERTICAL MULLION
VERTICAL THROUGH CONSTRUCTION

N/10 HORIZONTAL SECTION
JAMB - DIRECT TO CONCRETE/MASONRY
VERTICAL THROUGH CONSTRUCTION



O/10 HORIZONTAL SECTION
JAMB - METAL SUBSTRATE
CONTINUOUS HEAD & SILL CONSTRUCTION

P/10 HORIZONTAL SECTION
VERTICAL MULLION
CONTINUOUS HEAD & SILL CONSTRUCTION

Q/10 HORIZONTAL SECTION
VERTICAL MULLION
CONTINUOUS HEAD & SILL CONSTRUCTION

R/10 HORIZONTAL SECTION
JAMB - WOOD FRAMING
CONTINUOUS HEAD & SILL CONSTRUCTION

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

TITLE: YWW 45 FS (MONOLITHIC GLASS) WINDOW WALL SYSTEM (NON-HVHZ)(NON-IMPACT) HORIZONTAL SECTIONS

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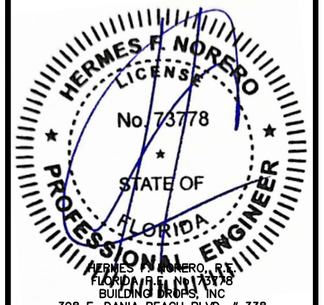

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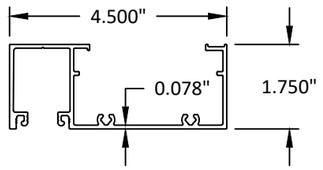
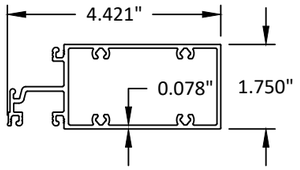
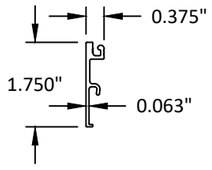


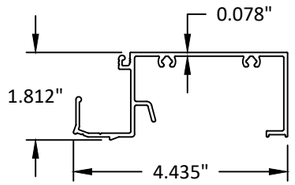
1 JAMB (ALL FRAMES)/HEAD (OG)



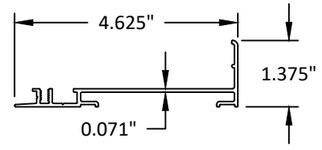
2 INTERMEDIATE HORIZONTAL (OG)



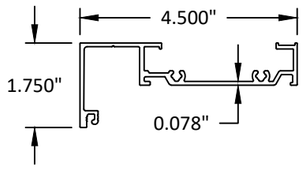
3 EXTERIOR GLASS STOP



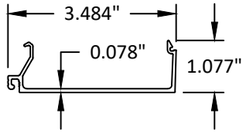
4 SILL (OG)



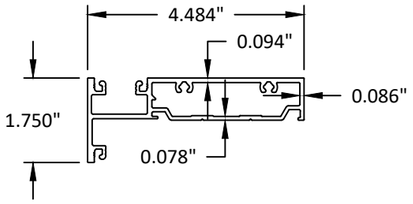
5 SILL FLASHING



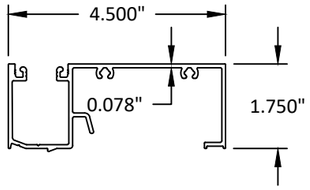
6 HEAD (IG)



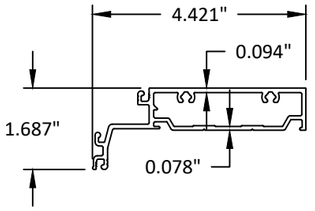
7 INTERIOR GLASS STOP



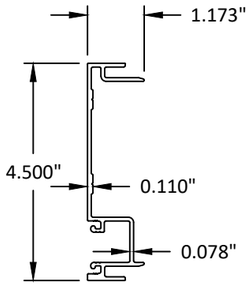
8 HORIZONTAL (IG)



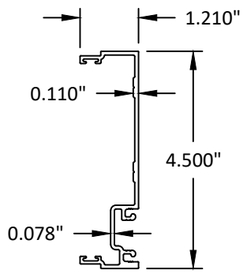
9 SILL (IG)



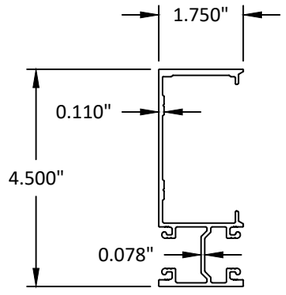
10 HORIZONTAL (WITH SSG VERTICAL)



11 EXPANSION MULLION (MALE)

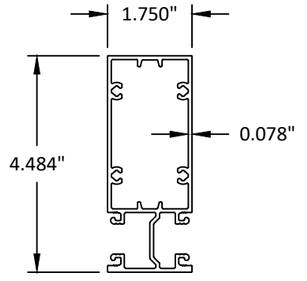


12 EXPANSION MULLION (FEMALE)

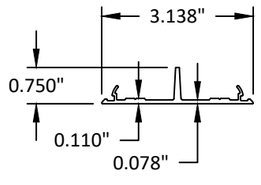


13 TWO PIECE VERTICAL MULLION

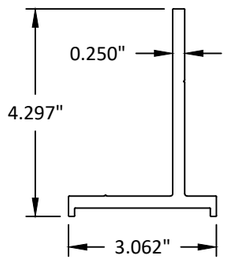
14 SSG VERTICAL MULLION



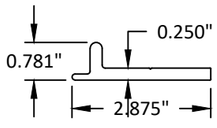
15 ONE PIECE VERTICAL MULLION



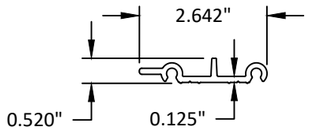
16 FLAT FILLER



17 OPTIONAL HEAD ANCHOR



18 OPTIONAL SILL ANCHOR



19 SHEAR BLOCK

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

TITLE: YWW 45 FS (MONOLITHIC GLASS) WINDOW WALL SYSTEM (NON-HVHZ)(NON-IMPACT) COMPONENTS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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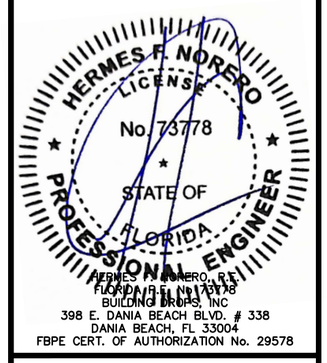

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL12611

DATE: 07.25.17

DWG. BY: AR | CHK. BY: HFN

SCALE: NTS

DWG. #: YKK209

SHEET: 11 OF 12

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BILL OF MATERIALS

ITEM	PART No.	DESCRIPTION	MATERIAL	MANUF./SUPPLIER/REMARKS
1	E9-2406	JAMB (ALL FRAMES)/HEAD (OG)	6063-T5	YKK AP AMERICA
2	E9-2413	INTERMEDIATE HORIZONTAL (OG)	6063-T5	YKK AP AMERICA
3	E9-2416	EXTERIOR GLASS STOP	6063-T5	YKK AP AMERICA
4	E9-2415	SILL (OG)	6063-T5	YKK AP AMERICA
5	E9-2405	SILL FLASHING	6063-T5	YKK AP AMERICA
6	E9-2401	HEAD (IG)	6063-T5	YKK AP AMERICA
7	E9-2403	INTERIOR GLASS STOP (IG)	6063-T5	YKK AP AMERICA
8	E9-2402	HORIZONTAL (IG)	6063-T5	YKK AP AMERICA
9	E9-2404	SILL (IG)	6063-T5	YKK AP AMERICA
10	E9-2414	HORIZONTAL (WITH SSG VERTICAL)	6063-T5	YKK AP AMERICA
11	E9-2410	EXPANSION MULLION (MALE)	6063-T5	YKK AP AMERICA
12	E9-2409	EXPANSION MULLION (FEMALE)	6063-T5	YKK AP AMERICA
13	E9-2407	TWO PIECE VERTICAL MULLION	6063-T5	YKK AP AMERICA
14	E9-2411	SSG VERTICAL MULLION	6063-T5	YKK AP AMERICA
15	E9-2412	ONE PIECE VERTICAL MULLION	6063-T5	YKK AP AMERICA
16	E9-2408	FLAT FILLER	6063-T5	YKK AP AMERICA
17	E1-1161	OPTIONAL HEAD ANCHOR	6063-T5	YKK AP AMERICA
18	E1-1098	OPTIONAL SILL ANCHOR	6063-T5	YKK AP AMERICA
19	E1-1168	SHEAR BLOCK	6063-T5	YKK AP AMERICA
20	E1-0168	END DAM	ALUMINUM SHEET	-
21	E1-1165	MULLION END CAP	ALUMINUM SHEET	-
22	E2-0052	GLAZING GASKET	EPDM	-
23	E2-0536	SETTING BLOCK	EPDM	-
24	E1-1164	SHEAR BLOCK CHAIR	6063-T5	YKK AP AMERICA
25	E2-0054	SIDE/SETTING BLOCK	EPDM	-
26	E1-1163	SETTING BLOCK CHAIR	6063-T5	YKK AP AMERICA
27	E2-0532	ANTI WALK BLOCK	EPDM	-
28	E2-0065	WEATHERING GASKET	EPDM	-
29	E2-0537	SIDE BLOCK	EPDM	-
30	E2-0533	ANTI WALK BLOCK	EPDM	-
31	E2-0530	END DAM (HEAD)	2# E.V.A. FOAM	-
32	E1-1166	HORIZONTAL BRIDGE (SSG)	ALUMINUM SHEET	-
33	E2-0099	WEEP BAFFLE	URETHANE	-
34	E2-0098	WEEP BAFFLE	URETHANE	-
35	E2-0531	END DAM (SILL)	2# E.V.A. FOAM	-
36	E2-0535	STRUCTURAL SILICONE GLAZING SPACER	SCR 900	-
37	-	-	-	-
38	PC-1220	#12 X 1-1/4" PHSMS TYPE AB	ZINC PLATED STEEL	-
39	PC-1228	#12 X 1-3/4" PHSMS TYPE AB	ZINC PLATED STEEL	-
40	PC-0806	#8 X 3/8" PHMS TYPE AB	ZINC PLATED STEEL	-
41	FC-1208	#12 X 1/2" FHSMS TYPE AB	ZINC PLATED STEEL	-
42	PM-1006-SS	#10-24 X 3/8" PPHMS 18-8 SS	STAINLESS STEEL	-
43	-	3/8" X 3-1/2" H.H. LAG SCREW	-	-

YKK AP America Inc.
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BILL OF MATERIALS

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

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