# YKK AP America Inc.

## *YWW 45 TU/FI (INSULATING 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 E1300.

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.

NOTE: TYPICAL YWW 45 TU PROFILES SHOWN THROUGHOUT. YWW 45 FI PROFILES WITHOUT THERMAL BREAK ARE QUALIFIED FOR THE SAME PERFORMANCE RATINGS AND OPTIONS SHOWN HEREIN.

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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 AND 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.


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TITLE: YWW 45 TU/FI (INSULATING GLASS) WINDOW WALL (NON-HVHZ)(NON-IMPACT)
INSTALLATION & GENERAL NOTES


PREPARED BY:
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Reason: I am approving this document
Date: 2023.09.11 12:12:29 -04'00'

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HERMES F. NORERO, P.E.
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FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL12611

DATE: 07.26.17

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SCALE: NTS

DWG. #: YKK210

SHEET: 1 OF 12


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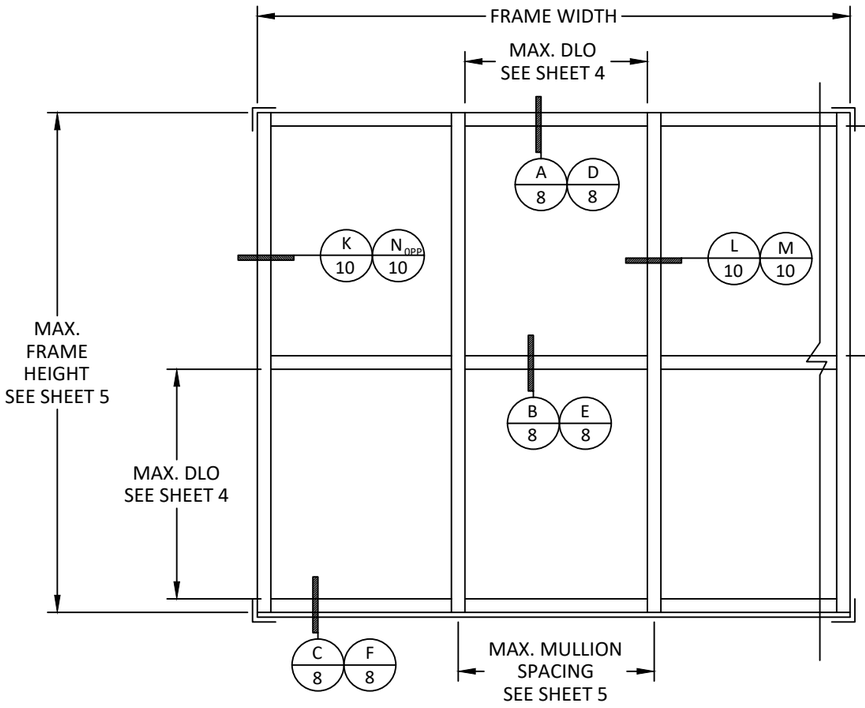
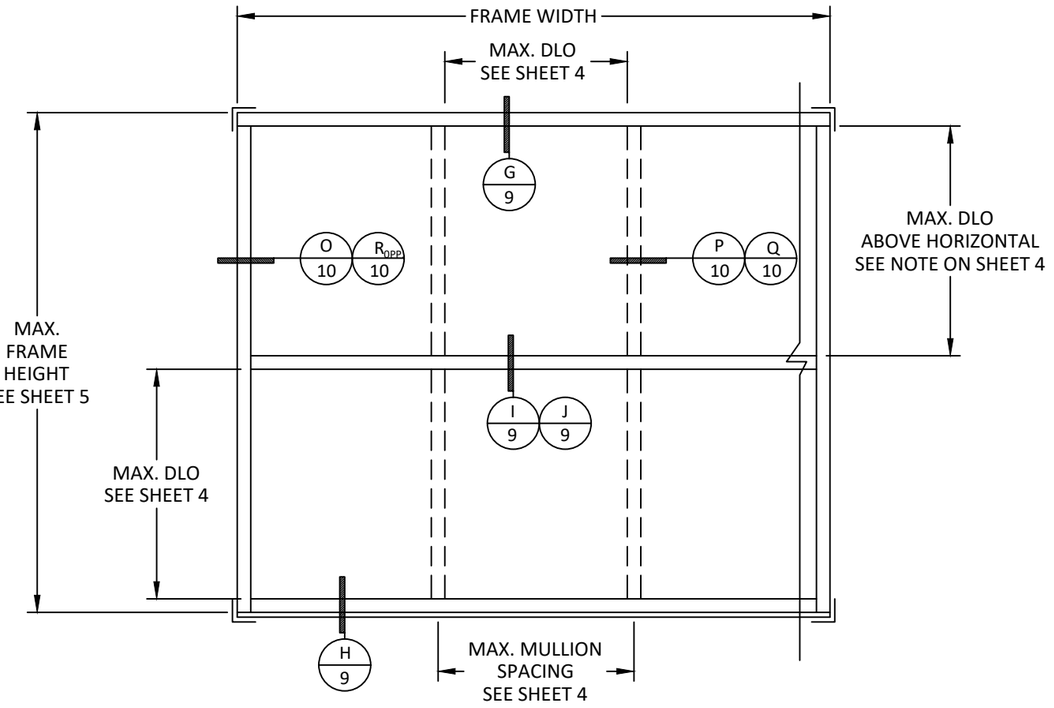



**ELEVATION**

**VERTICAL THRU**




**ELEVATION**

**CONTINUOUS HEAD AND SILL**

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ELEVATIONS

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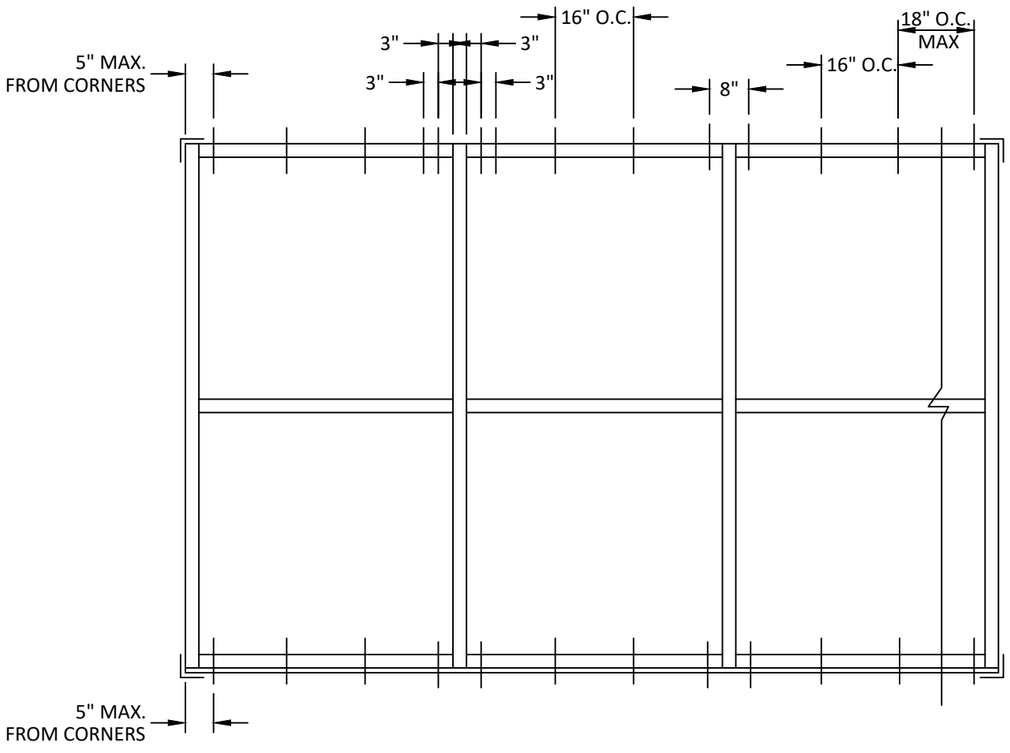
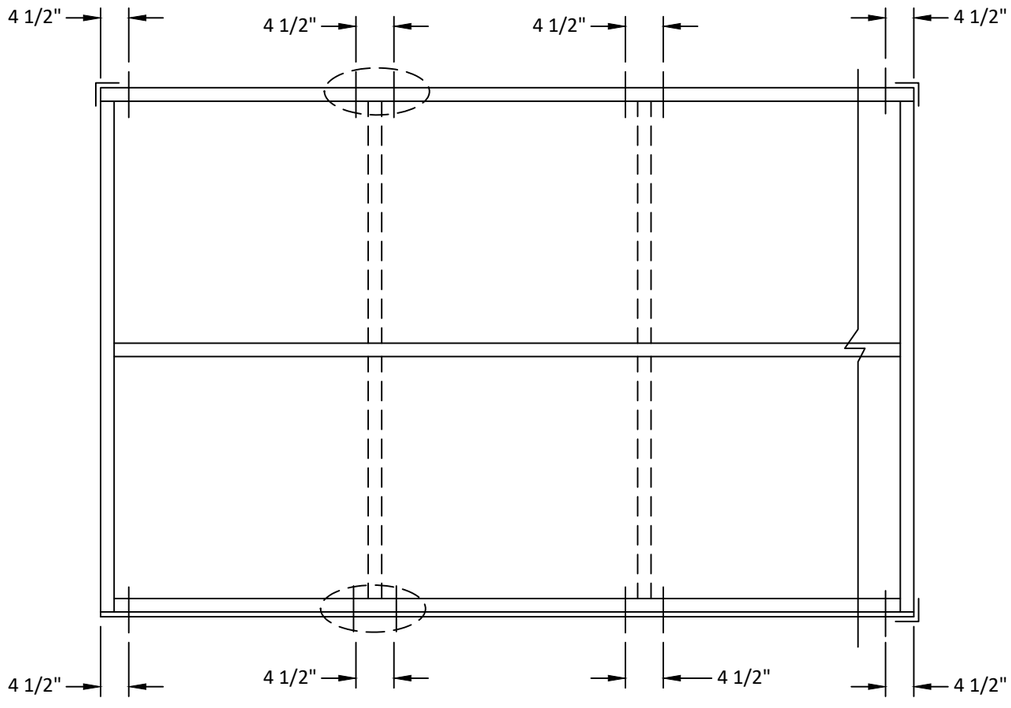
| YWW 45 TU VERTICAL THRU ANCHOR TYPES | | | | |
|---|---|---|---|---|
| ANCHOR DESCRIPTION | SUBSTRATE REQUIREMENTS | MIN. EMBEDMENT | MIN. EDGE DISTANCE | NOTES |
| 1/4" Ø TAPCON BY ITW ($F_u$=125 KSI, $F_y$=100 KSI) OR 1/4" Ø ULTRACON+ BY DEWALT ($F_u$=177 KSI, $F_y$=155 KSI) | CONCRETE AT HEAD OR SILL $F'_C$=3000 PSI MIN. | 1-3/4" | 2-1/4" | MAY BE USED THROUGH OPTIONAL 1X BUCKS, BY OTHERS |
| #12 WOOD SCREWS | MIN. S.G.=0.55 WOOD | 1-1/2" | 3/4" | -- |
| 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 TU 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 TU/FI (INSULATING GLASS) WINDOW WALL (NON-HVHZ)(NON-IMPACT) ANCHOR LAYOUTS & ANCHOR SCHEDULE


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# GLAZING DETAILS

## NON-IMPACT GLAZING

| INSULATED GLASS LOAD CAPACITY (PSF) | | |
|---|---|---|
| NOMINAL PANEL SIZE (in) | | NON-IMPACT INSUL. GLASS |
| PANEL WIDTH | PANEL HEIGHT | EXT. (+) INT. (-) |
| 30 | 30 | 58 |
| 36 | | 42 |
| 42 | | 32 |
| 48 | | 27 |
| 54 | | 22 |
| 58 | | 20 |
| 60 | | 19 |
| 66 | | 17 |
| 72 | | 15 |
| 30 | 36 | 50 |
| 36 | | 49 |
| 42 | | 36 |
| 48 | | 29 |
| 54 | | 24 |
| 58 | | 22 |
| 60 | | 21 |
| 30 | 39 | 47 |
| 36 | | 45 |
| 42 | | 39 |
| 48 | | 31 |
| 54 | | 25 |

| INSULATED GLASS LOAD CAPACITY (PSF) | | |
|---|---|---|
| NOMINAL PANEL SIZE (in) | | NON-IMPACT INSUL. GLASS |
| PANEL WIDTH | PANEL HEIGHT | EXT. (+) INT. (-) |
| 30 | 42 | 45 |
| 36 | | 43 |
| 42 | | 42 |
| 48 | | 32 |
| 30 | 48 | 42.4 |
| 36 | | 38.9 |
| 42 | | 37.0 |
| 30 | 54 | 40 |
| 36 | | 36 |
| 30 | 60 | 39 |
| 36 | | 35 |
| 30 | 66 | 38 |

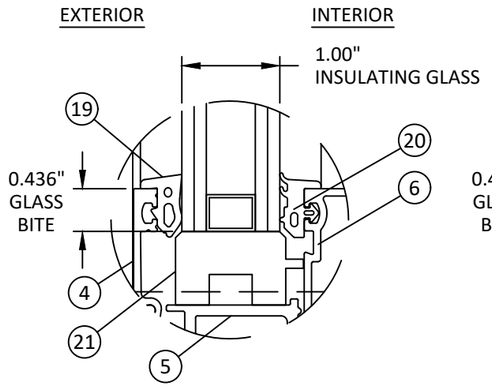
FRAME DIM. NOT SHOWN MAY BE OBTAINED BY LINEAR INTERPOLATION OF TABULATED VALUES. MAX AREA NOT TO EXCEED = 3900.00 IN²

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

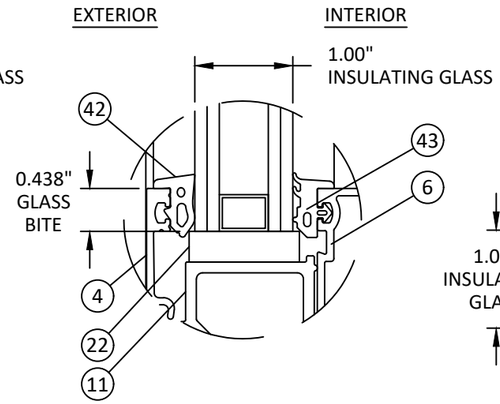
DAYLITE OPENING DIMENSIONS:
DAYLITE OPENING WIDTH
= NOMINAL PANEL WIDTH - 2.00"
= NOMINAL PANEL WIDTH - 2.25"

DAYLITE OPENING HEIGHT
= FRAME HEIGHT - 4.00" (HEAD TO SILL)
= HORIZ. END - 4.25" (HORIZONTAL TO HEAD/SILL)

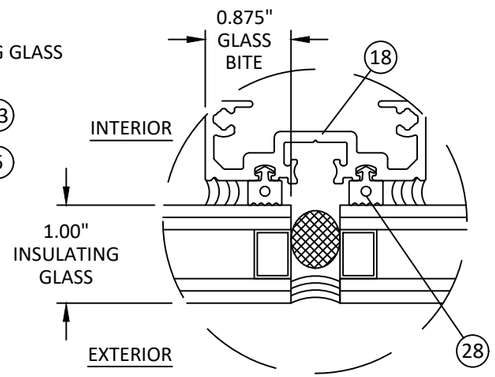
MAX DAYLITE OPENING ABOVE HORIZONTAL NOT TO EXCEED
58" x 62-25/32"



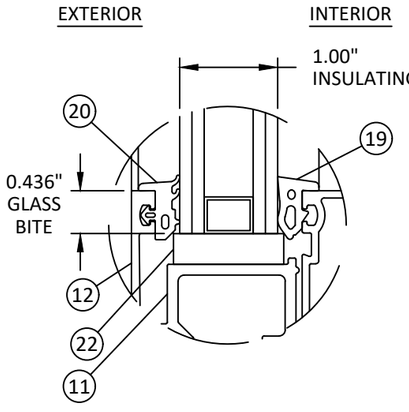

### GLAZING DETAIL 1
**TYPICAL AT SILL**
**OUTSIDE GLAZED**



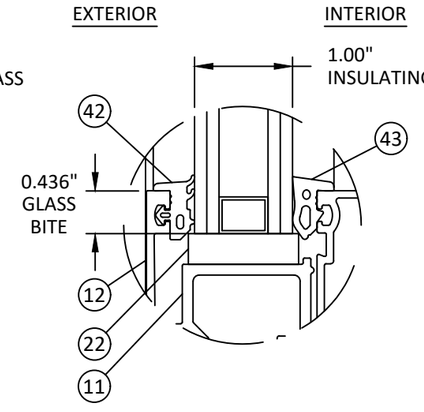

### GLAZING DETAIL 2
**TYPICAL AT SILL WITH SSG MULLION**
**OUTSIDE GLAZED**



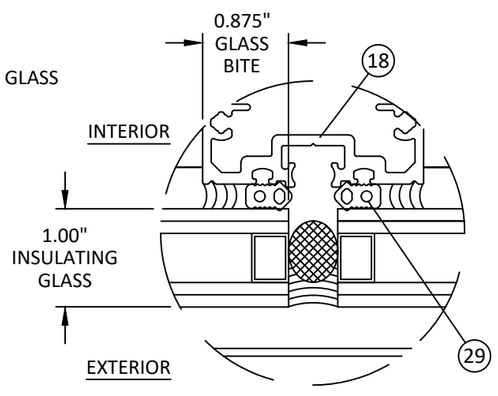

### GLAZING DETAIL 3
**TYPICAL AT INTERMEDIATE**
**SSG VERTICAL**
**OUTSIDE GLAZED**



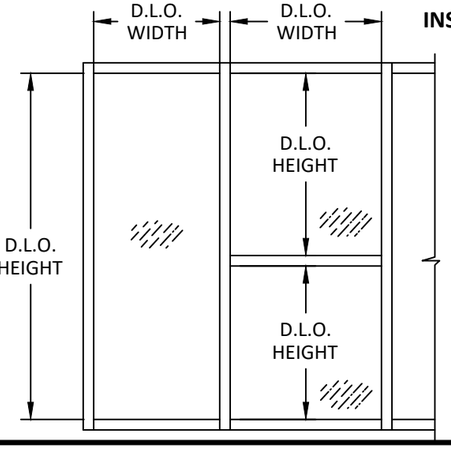

### GLAZING DETAIL 4
**TYPICAL AT SILL**
**INSIDE GLAZED**




### GLAZING DETAIL 5
**TYPICAL AT SILL WITH SSG MULLION**
**INSIDE GLAZED**




### GLAZING DETAIL 6
**TYPICAL AT INTERMEDIATE**
**SSG VERTICAL**
**INSIDE GLAZED**




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.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TITLE: YWW 45 TU/FI (INSULATING GLASS) WINDOW WALL (NON-HVHZ)(NON-IMPACT)
GLAZING DETAILS AND DESIGN PRESSURE TABLE


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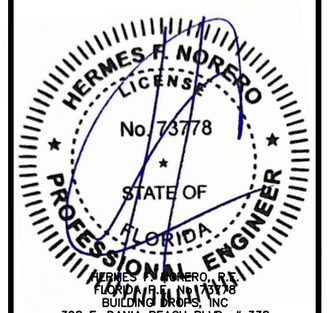


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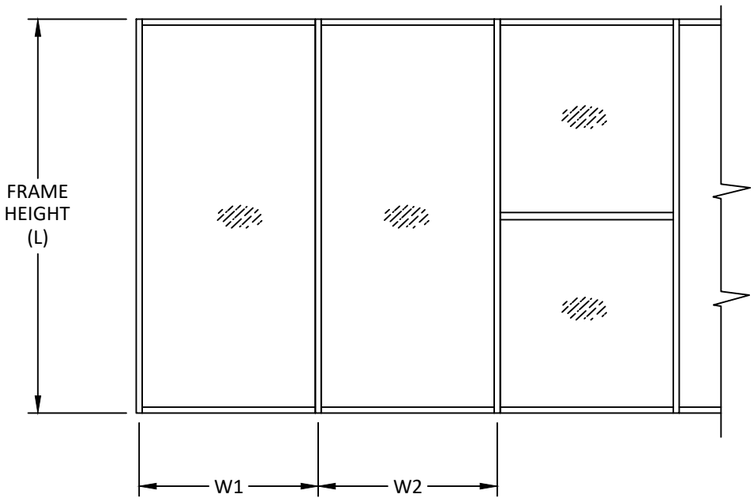
# MULLION LOAD TABLES

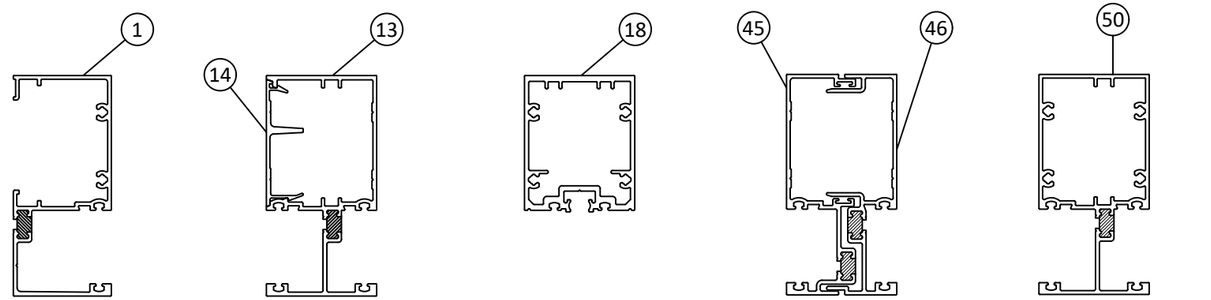
| MAXIMUM DESIGN PRESSURE CAPACITY VERTICAL THRU | | |
|---|---|---|
| WIDTH (in) W | FRAME HEIGHT (in) L | DESIGN PRESSURE (psf) |
| 30 | 72 | 80.0 |
| 36 | | 77.8 |
| 42 | | 66.7 |
| 48 | | 58.3 |
| 54 | | 51.9 |
| 60 | | 46.7 |
| 66 | | 42.4 |
| 30 | 78 | 80.0 |
| 36 | | 71.8 |
| 42 | | 61.5 |
| 48 | | 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 |

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

| MAXIMUM DESIGN PRESSURE CAPACITY CONTINUOUS HEAD AND SILL | | |
|---|---|---|
| WIDTH (in) W | FRAME HEIGHT (in) | DESIGN PRESSURE (psf) |
| 30.0 | 66.0 | 80.0 |
| 36.0 | | 73.6 |
| 42.0 | | 63.1 |
| 48.0 | | 55.2 |
| 54.0 | | 49.1 |
| 30.0 | 72.0 | 80.0 |
| 36.0 | | 67.5 |
| 42.0 | | 57.9 |
| 48.0 | | 50.6 |
| 30.0 | 78.0 | 63.7 |
| 36.0 | | 53.1 |
| 42.0 | | 45.5 |
| 30.0 | 84.0 | 51.0 |
| 36.0 | | 42.5 |
| 42.0 | | 36.4 |
| 30.0 | 90.0 | 41.5 |
| 36.0 | | 34.6 |
| 30.0 | 102.0 | 28.5 |
| 36.0 | 102.0 | 23.7 |
| 30.0 | 108.0 | 24.0 |




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



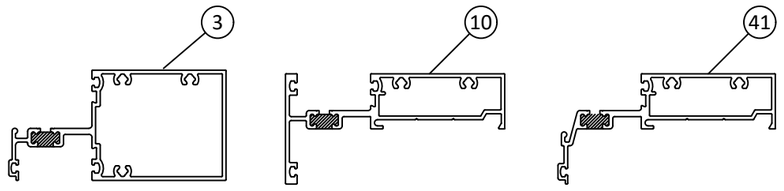

M1 JAMB/MULLION

M2 S.S. MULLION

M3 SSG MULLION

M4 EXPANSION MULLION

M5 CAPTURED MULLION




H1 O.G. HORIZONTAL

H2 I.G. HORIZONTAL

H3 I.G. HORIZONTAL

NOTE: TYPICAL YWW 45 TU PROFILES SHOWN THROUGHOUT. YWW 45 FI PROFILES WITHOUT THERMAL BREAK ARE QUALIFIED FOR THE SAME PERFORMANCE RATINGS AND OPTIONS SHOWN HEREIN.


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


TITLE: YWW 45 TU/FI (INSULATING GLASS) WINDOW WALL (NON-HVHZ)(NON-IMPACT) MULLION DESIGN PRESSURE 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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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: 07.26.17

DWG. BY: AR | CHK. BY: HFN

SCALE: NTS

DWG. #: YKK210

SHEET: 5 OF 12


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# VERTICAL THRU ANCHOR TABLE

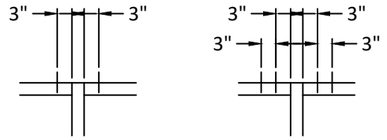
| HEADER, SILL AND JAMBS ANCHOR LOAD CAPACITY - QUANTITY OF ANCHORS CLUSTERED ON EACH SIDE OF MULLION<br>PSF - EXT. (+) & INT. (-) | | | | | | | |
|---|---|---|---|---|---|---|---|
| NOMINAL DIMS. | | INSTALLATION TO CONCRETE OR MASONRY | | INSTALLATION TO STEEL OR ALUMINUM | | INSTALLATION TO WOOD | |
| 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 |

ANCHOR REQUIREMENTS:
SEE SHEET 3 FOR ANCHOR DESCRIPTIONS

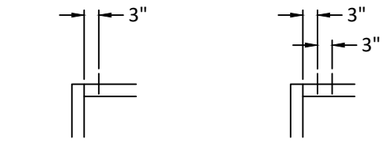
DETERMINE REQUIRED QUANTITY OF ANCHORS CLUSTERED ON EACH SIDE OF MULLION FROM TABLE AT LEFT BASED ON NOMINAL PANEL SIZE AND SITE REQUIRED DP. INSTALL ANCHORS PER DETAILS BELOW.

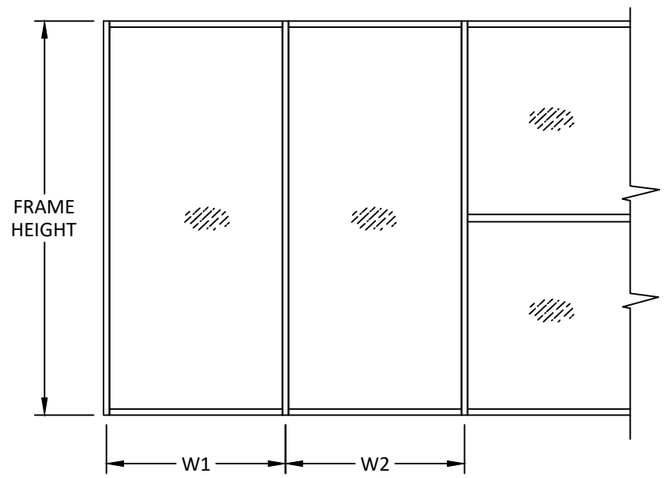
ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION

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 TU/FI (INSULATING GLASS) WINDOW WALL (NON-HVHZ)(NON-IMPACT)
ANCHOR LAYOUTS

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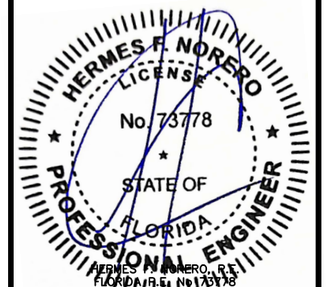


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DATE: 07.26.17

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DWG. #: YKK210

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# CONTINUOUS HEAD AND SILL ANCHOR TABLE

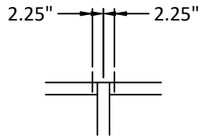
| HEADER, SILL AND JAMBS ANCHOR LOAD CAPACITY - QUANTITY OF ANCHORS CLUSTERED ON EACH SIDE OF MULLION PSF - EXT. (+) & INT. (-) | | | | |
|---|---|---|---|---|
| NOMINAL DIMS. | | INSTALLATION TO CONCRETE OR MASONRY | INSTALLATION TO STEEL OR ALUMINUM | INSTALLATION TO WOOD |
| WIDTH (in) (W) | FRAME HEIGHT (in) | 1 ANCHOR | 1 ANCHOR | 1 ANCHOR |
| 30 | 66 | 80.0 | 80.0 | 80.0 |
| 36 | | 80.0 | 80.0 | 80.0 |
| 42 | | 80.0 | 80.0 | 80.0 |
| 48 | | 80.0 | 80.0 | 80.0 |
| 54 | | 80.0 | 80.0 | 80.0 |
| 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 |
| 30 | 78 | 80.0 | 80.0 | 80.0 |
| 36 | | 80.0 | 80.0 | 80.0 |
| 42 | | 76.5 | 80.0 | 80.0 |
| 30 | 84 | 80.0 | 80.0 | 80.0 |
| 36 | | 77.1 | 80.0 | 80.0 |
| 42 | | 69.2 | 80.0 | 80.0 |
| 30 | 90 | 80.0 | 80.0 | 80.0 |
| 36 | | 70.7 | 80.0 | 80.0 |
| 30 | 96 | 75.4 | 80.0 | 80.0 |
| 36 | | 65.2 | 80.0 | 80.0 |
| 30 | 102 | 70.2 | 80.0 | 80.0 |
| 36 | | 60.6 | 75.2 | 76.1 |
| 30 | 108 | 65.7 | 80.0 | 80.0 |
| 30 | 114 | 61.7 | 76.6 | 77.5 |
| 30 | 120 | 58.1 | 72.2 | 73.0 |

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.

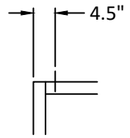
ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION

MULLIONS

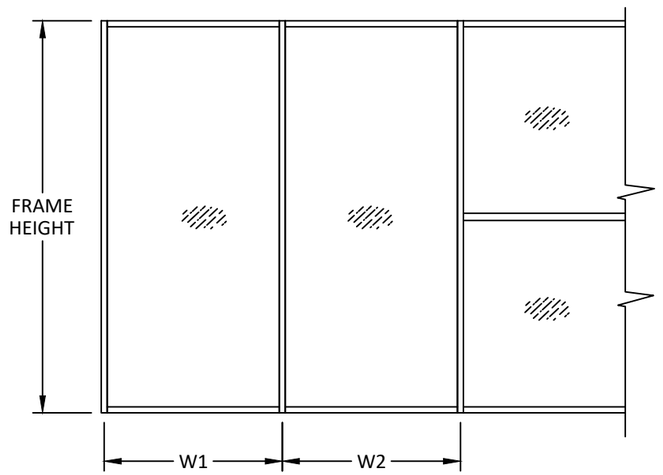



1 ANCHOR

JAMBS




1 ANCHOR

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ANCHOR LAYOUTS

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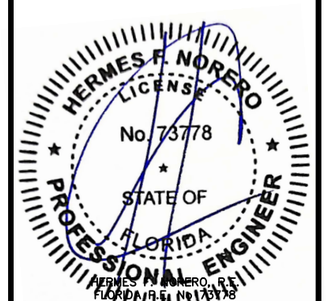


HERMES F. NORERO, PE
FLORIDA PE No. 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL12611

DATE: 07.26.17

DWG. BY: AR | CHK. BY: HFN

SCALE: NTS

DWG. #: YKK210

SHEET: 7 OF 12

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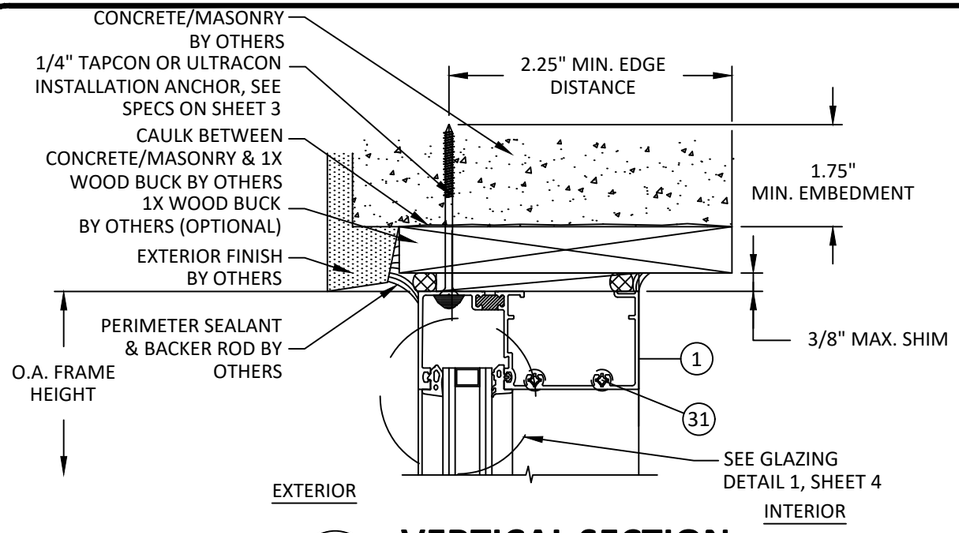
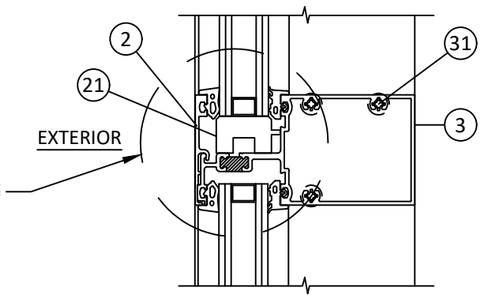



## A/8 VERTICAL SECTION

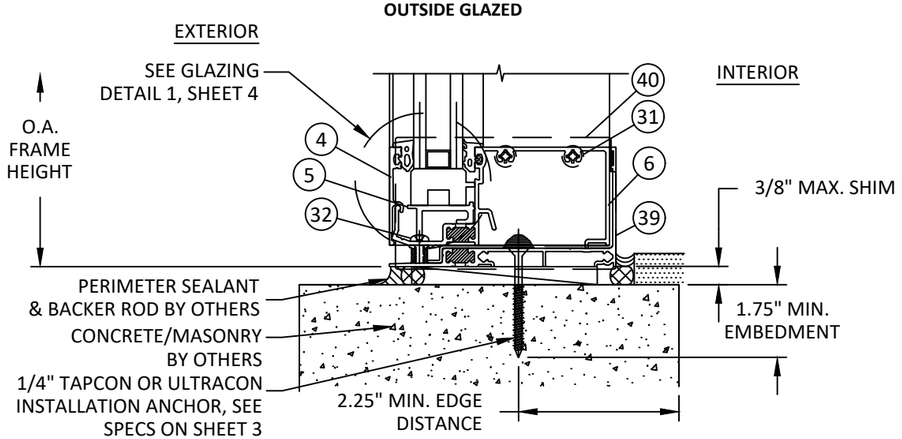
**HEAD - CONCRETE/MASONRY W/ 1X BUCK**
**VERTICAL THROUGH FRAME INSTALLATION**
**OUTSIDE GLAZED**




## B/8 VERTICAL SECTION

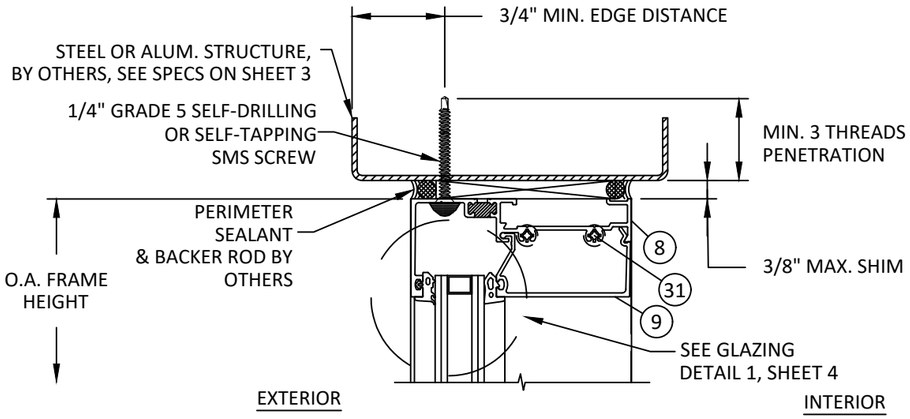
**HORIZONTAL MEMBER**
**VERTICAL THROUGH FRAME INSTALLATION**
**OUTSIDE GLAZED**

NOTE:
YWW 45 FI WINDOW WALL SYSTEMS HAS THE SAME SECTIONS. THE THERMAL BREAK IS NOT APPLICABLE TO YWW 45 FI SYSTEM.



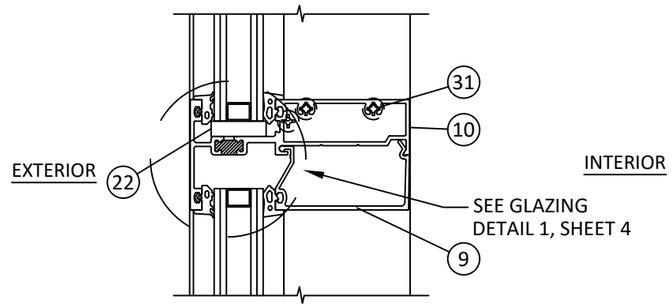

## C/8 VERTICAL SECTION

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




## D/8 VERTICAL SECTION

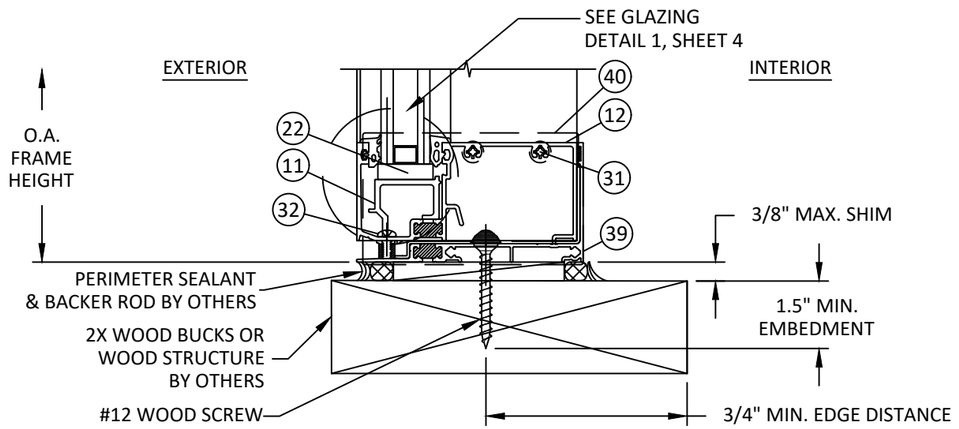
**HEAD - METAL SUBSTRATE**
**VERTICAL THROUGH FRAME INSTALLATION**
**INSIDE GLAZED**




## E/8 VERTICAL SECTION

**HORIZONTAL MEMBER**
**VERTICAL THROUGH FRAME INSTALLATION**
**INSIDE GLAZED**

**INSIDE 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 TU/FI (INSULATING GLASS) WINDOW WALL (NON-HVHZ)(NON-IMPACT) VERTICAL SECTIONS

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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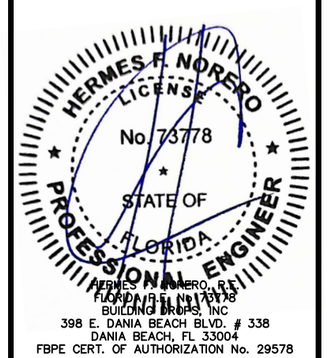


FL #: FL12611

DATE: 07.26.17

DWG. BY: AR | CHK. BY: HFN

SCALE: NTS

DWG. #: YKK210

SHEET: 8 OF 12

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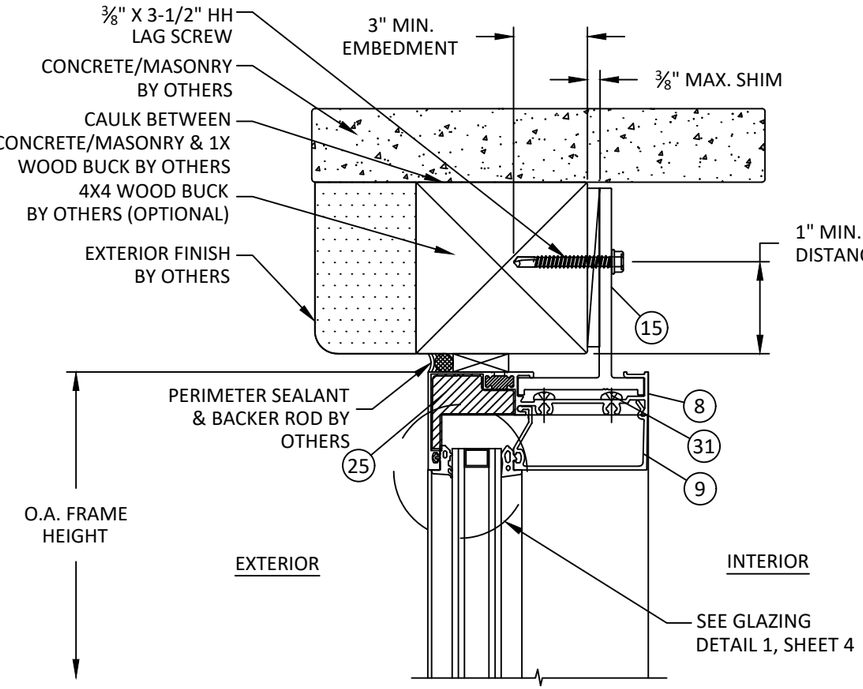
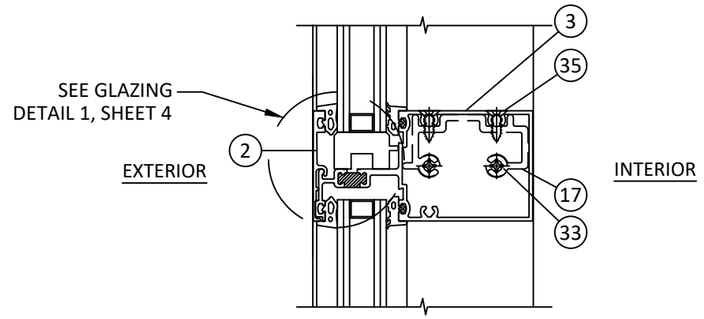


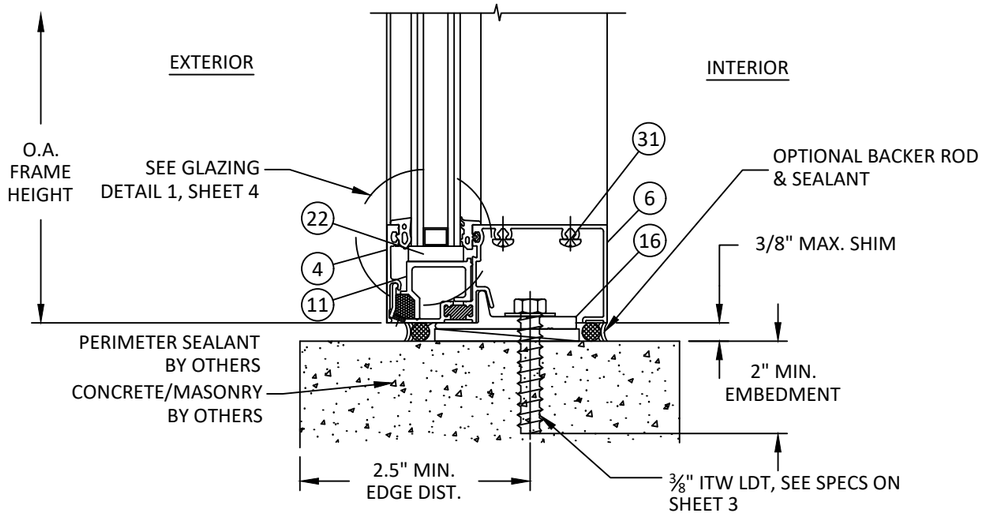

## G/9 VERTICAL SECTION

**HEAD - CONCRETE/MASONRY W/ 1X BUCK**
**HEAD ANCHOR**
**CONTINUOUS HEAD/SILL INSTALLATION**
**INSIDE GLAZED**



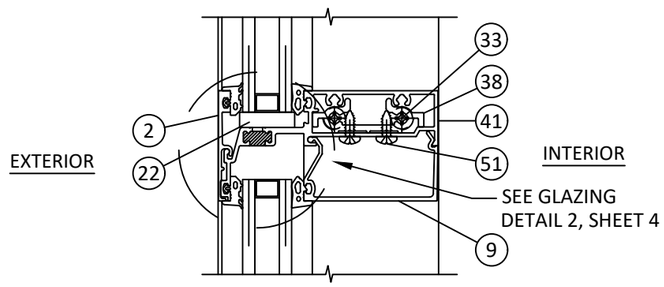

## I/9 VERTICAL SECTION

**INTERMEDIATE HORIZONTAL MULLION**
**CONTINUOUS HEAD/SILL INSTALLATION**
**OUTSIDE GLAZED**




## H/9 VERTICAL SECTION

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




## J/9 VERTICAL SECTION

**INTERMEDIATE HORIZONTAL MULLION**
**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 TU/FI (INSULATING GLASS) WINDOW WALL (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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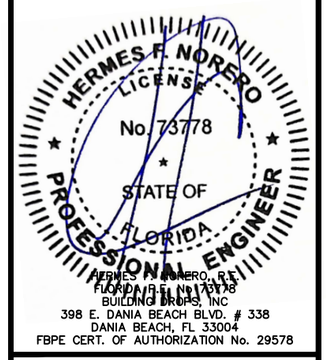



FL #: FL12611

DATE: 07.26.17

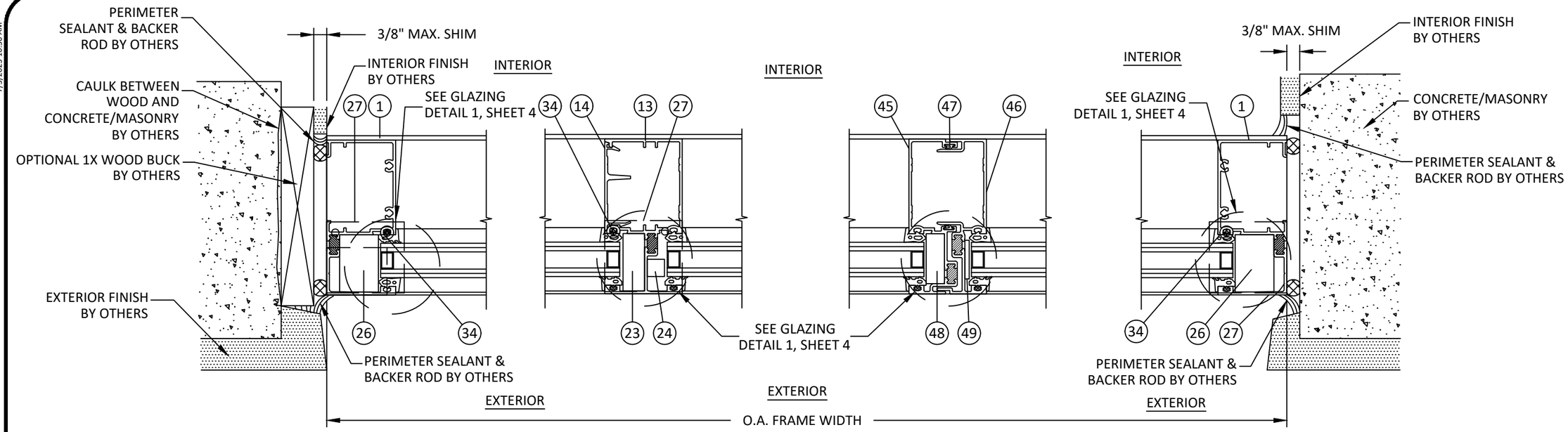
DWG. BY: AR | CHK. BY: HFN

SCALE: NTS

DWG. #: YKK210

SHEET: 9 OF 12

7/3/2023 10:30 AM




## K/10 HORIZONTAL SECTION

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

## L/10 HORIZONTAL SECTION

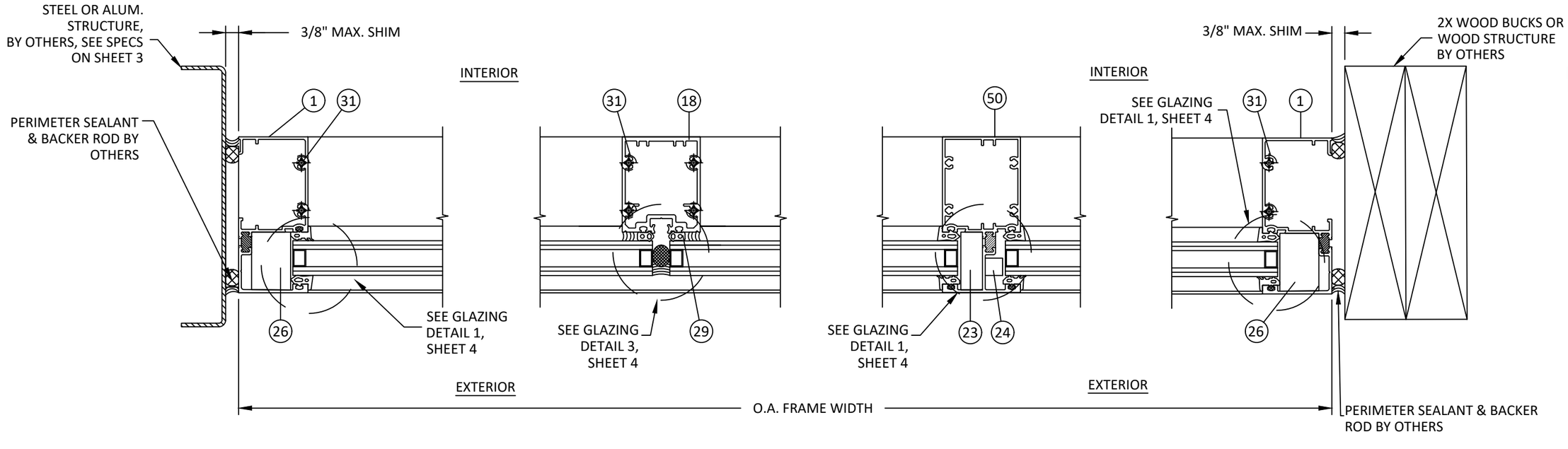
**VERTICAL MULLION**
**VERTICAL THROUGH FRAME INSTALLATION**
**INSIDE GLAZED**

## M/10 HORIZONTAL SECTION

**VERTICAL MULLION**
**VERTICAL THROUGH FRAME INSTALLATION**
**INSIDE GLAZED**

## N/10 HORIZONTAL SECTION

**JAMB - DIRECT TO CONCRETE/MASONRY**
**VERTICAL THROUGH FRAME INSTALLATION**
**INSIDE GLAZED**




## O/10 HORIZONTAL SECTION

**JAMB - METAL SUBSTRATE**
**CONTINUOUS HEAD/SILL FRAME INSTALLATION**
**OUTSIDE GLAZED**

## P/10 HORIZONTAL SECTION

**VERTICAL MULLION**
**CONTINUOUS HEAD & SILL INSTALLATION**
**INSIDE GLAZED**

## Q/10 HORIZONTAL SECTION

**VERTICAL MULLION**
**CONTINUOUS HEAD & SILL INSTALLATION**
**INSIDE GLAZED**

## R/10 HORIZONTAL SECTION

**JAMB - WOOD FRAMING**
**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 TU/FI (INSULATING GLASS) WINDOW WALL (NON-HVHZ)(NON-IMPACT) HORIZONTAL SECTIONS

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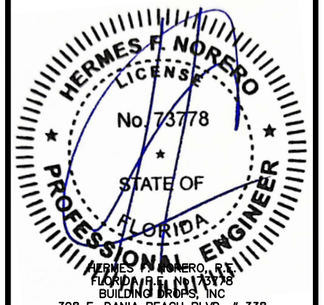


FL #: FL12611

DATE: 07.26.17

DWG. BY: AR | CHK. BY: HFN

SCALE: NTS

DWG. #: YKK210

SHEET: 10 OF 12

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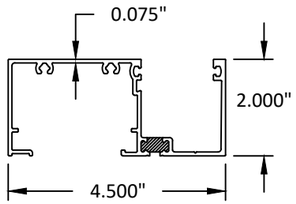
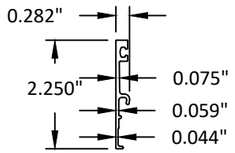
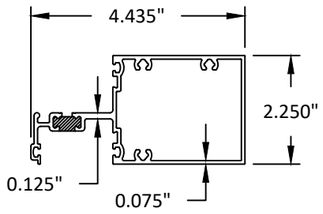


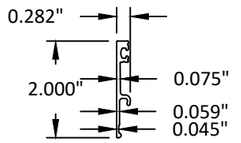

1 JAMB/HEAD (O.G.)



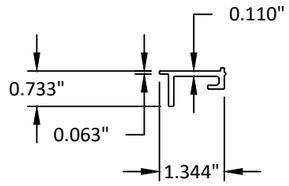

2 EXTERIOR GLASS STOP



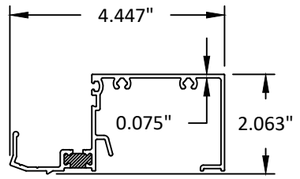

3 HORIZONTAL (O.G.)



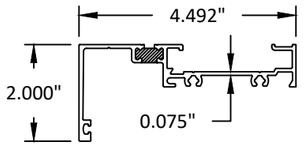

4 EXTERIOR GLASS STOP



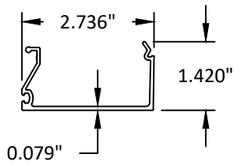

5 SETTING BLOCK CHAIR



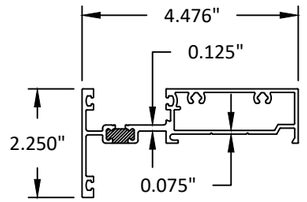

6 SILL (O.G)



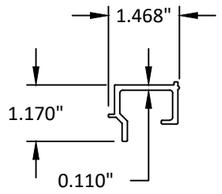

8 HEAD (I.G.)



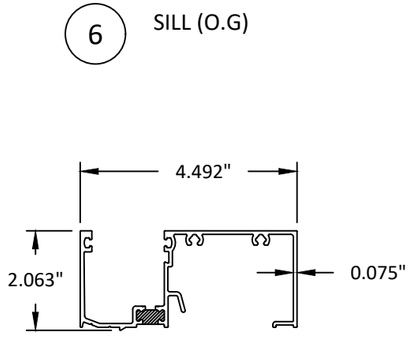

9 INTERIOR GLASS STOP



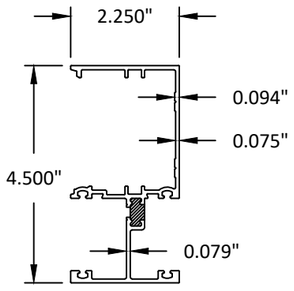

10 HORIZONTAL (I.G)



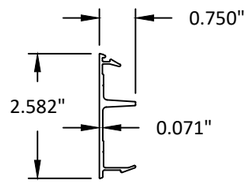

11 SETTING BLOCK CHAIR



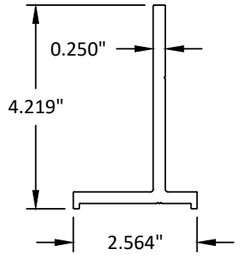

12 SILL (I.G.)



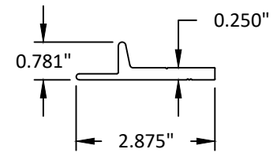

13 TWO PIECE VERTICAL



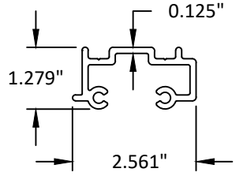

14 FLUSH FILLER



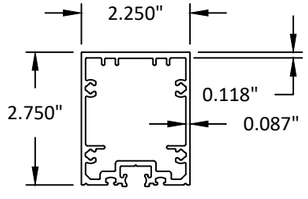

15 HEAD ANCHOR



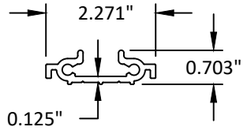

16 SILL ANCHOR



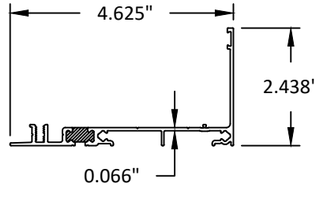

17 SHEAR BLOCK



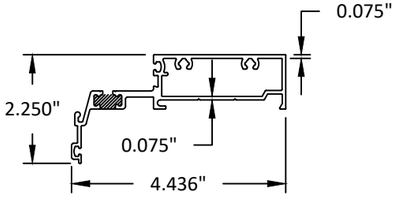

18 SSG VERTICAL MULLION




38 SHEAR BLOCK (I.G)




39 THERMAL SILL FLASHING




41 HORIZONTAL (I.G.)

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

TITLE: YWW 45 TU/FI (INSULATING GLASS) WINDOW WALL (NON-HVHZ)(NON-IMPACT) COMPONENTS

PREPARED BY:
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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: 07.26.17

DWG. BY: AR | CHK. BY: HFN

SCALE: NTS

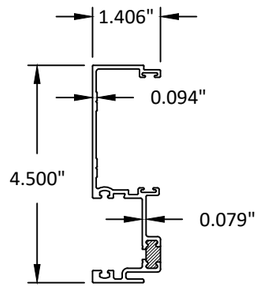
DWG. #: YKK210

SHEET: 11 OF 12

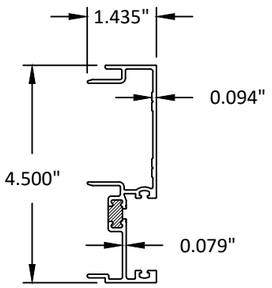
7/3/2023 10:30 AM

## BILL OF MATERIALS

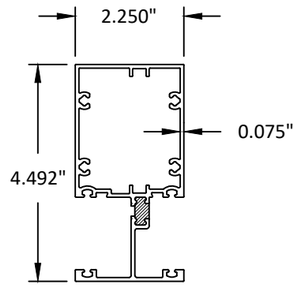
| ITEM | PART No. | DESCRIPTION | MATERIAL | MANUF./SUPPLIER/ REMARKS |
|---|---|---|---|---|
| 1 | BE9-2703 | JAMB/HEAD (O.G.) | 6063-T5 | YKK AP AMERICA |
| 2 | E9-1715 | EXTERIOR GLASS STOP | 6063-T5 | YKK AP AMERICA |
| 3 | BE9-2712 | HORIZONTAL (O.G.) | 6063-T5 | YKK AP AMERICA |
| 4 | E9-2714 | EXTERIOR GLASS STOP | 6063-T5 | YKK AP AMERICA |
| 5 | E1-1177 | SETTING BLOCK CHAIR | 6063-T5 | YKK AP AMERICA |
| 6 | BE9-2713 | SILL (O.G.) | 6063-T5 | YKK AP AMERICA |
| 7 | - | - | - | - |
| 8 | BE9-2720 | HEAD (I.G.) | 6063-T5 | YKK AP AMERICA |
| 9 | E9-2707 | INTERIOR GLASS STOP | 6063-T5 | YKK AP AMERICA |
| 10 | BE9-2705 | HORIZONTAL (I.G.) | 6063-T5 | YKK AP AMERICA |
| 11 | E1-1173 | SETTING BLOCK CHAIR | 6063-T5 | YKK AP AMERICA |
| 12 | BE9-2706 | SILL (I.G.) | 6063-T5 | YKK AP AMERICA |
| 13 | BE9-2701 | TWO PIECE VERTICAL | 6063-T5 | YKK AP AMERICA |
| 14 | E9-1702 | FLUSH FILLER | 6063-T5 | YKK AP AMERICA |
| 15 | E1-1171 | HEAD ANCHOR | 6063-T5 | YKK AP AMERICA |
| 16 | E1-1172 | SILL ANCHOR | 6063-T5 | YKK AP AMERICA |
| 17 | E1-1037 | SHEAR BLOCK | 6063-T5 | YKK AP AMERICA |
| 18 | E9-2715 | SSG VERTICAL MULLION | 6063-T5 | YKK AP AMERICA |
| 19 | E2-0808 | WEDGE GLAZING GASKET | EPDM | - |
| 20 | E2-0801 | PUSH-IN GLAZING GASKET | EPDM | - |
| 21 | E2-0150 | SETTING BLOCK | EPDM | - |
| 22 | E2-0178 | SETTING BLOCK | EPDM | - |
| 23 | E2-0546 | ANTI WALK BLOCK | EPDM | - |
| 24 | E2-0019 | SIDE BLOCK | EPDM | - |
| 25 | E2-0548 | END DAM (HEAD) | PVC SPONGE | - |
| 26 | E2-0545 | ANTI WALK BLOCK | EPDM | - |
| 27 | E1-1184 | MULLION END CAP | ALUMINUM SHEET | - |
| 28 | E2-0544 | SSG GLAZING SPACER (O.G.) | EPDM | - |
| 29 | E2-0543 | SSG GLAZING SPACER (I.G.) | EPDM | - |
| 30 | E1-0168 | SILL FLASHING END DAM | ALUMINUM SHEET | - |
| 31 | PC-1220 | #12X1 1/4" PHSMS TYPE AB | ZINC PLATED STEEL | - |
| 32 | PM-1006-SS | #10-24X3/8" PPHMS 18-8 SS | STAINLESS STEEL | - |
| 33 | PC-1228 | #12X1 3/4" PHSMS TYPE AB | ZINC PLATED STEEL | - |
| 34 | PC-1006 | #10X3/8" PHSMS TYPE AB | ZINC PLATED STEEL | - |
| 35 | FC-1210 | #12X5/8" FHSMS TYPE AB | ZINC PLATED STEEL | - |
| 36 | - | 3/8"X3 1/2" H.H. LAG SCREW | ZINC PLATED STEEL | - |
| 37 | - | 3/8"X2" H.H. LAG SCREW | ZINC PLATED STEEL | - |
| 38 | E1-1170 | SHEAR BLOCK (I.G.) | 6063-T5 | YKK AP AMERICA |
| 39 | BE9-2722 | THERMAL SILL FLASHING | 6063-T5 | YKK AP AMERICA |
| 40 | E1-0140 | SILL FLASHING END DAM | ALUMINUM SHEET | - |
| 41 | BE9-2717 | HORIZONTAL (I.G.) | 6063-T5 | YKK AP AMERICA |
| 42 | E2-0541 | GLAZING GASKET | EPDM | - |
| 43 | E2-0542 | WEDGE GASKET | EPDM | - |
| 44 | E2-0547 | END DAM (SILL) | PVC SPONGE | - |
| 45 | BE9-2709 | EXPANSION MULLION (FEMALE) | 6063-T5 | YKK AP AMERICA |
| 46 | BE9-2710 | EXPANSION MULLION (MALE) | 6063-T5 | YKK AP AMERICA |
| 47 | E2-0065 | WEATHERING GASKET | EPDM | - |
| 48 | E2-0153 | ANTI WALK BLOCK | EPDM | - |
| 49 | E2-0513 | SIDE BLOCK | EPDM | - |
| 50 | BE9-2702 | CAPTURED VERTICAL MULLION | 6063-T5 | YKK AP AMERICA |
| 51 | PC-1208 | #12X1/2" PHSMS TYPE AB | ZINC PLATED STEEL | - |
| 52 | E2-0047 | WATER DEFLECTOR | PVC/SUNPRENE RIGID | YKK AP AMERICA |




45 EXPANSION MULLION (FEMALE)




46 EXPANSION MULLION (MALE)




50 CAPTURED VERTICAL MULLION

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

TITLE: YWW 45 TU/FI (INSULATING GLASS) WINDOW WALL (NON-HVHZ)(NON-IMPACT)
BILL OF MATERIALS & COMPONENTS (CONT'D)

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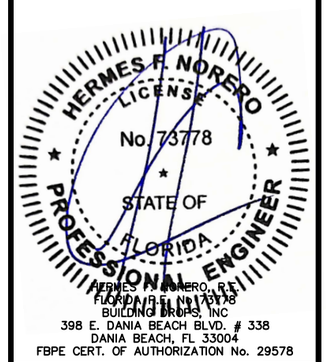
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.




FL #: FL12611

DATE: 07.26.17

DWG. BY: AR | CHK. BY: HFN

SCALE: NTS

DWG. #: YKK210

SHEET: 12 OF 12

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