

# YKK AP AMERICA, INC.

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

INSTALLATION NOTES:

- SEE SHEET 10 FOR ANCHOR TYPE REQUIREMENTS, MINIMUM EMBEDMENTS, AND MINIMUM EDGE DISTANCES. ALL ANCHOR REQUIREMENTS MUST BE ADHERED TO. ANY DEVIATIONS FROM ANCHOR REQUIREMENTS REQUIRES SEPARATE EVALUATION AND APPROVAL.
- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
  - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
  - CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
  - MASONRY - CMU UNIT STRENGTH CONFORMS TO ASTM C-90, WITH MIN. COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MIN. GROUT COMPRESSIVE STRENGTH OF 2000 PSI.
  - STEEL - MINIMUM YIELD STRENGTH OF 36 KSI. MINIMUM 12 GA. WALL THICKNESS.
  - STEEL - MINIMUM YIELD STRENGTH OF 36 KSI. MINIMUM 18 GA. WALL THICKNESS.
  - ALUMINUM - MINIMUM 1/8 INCH THICK 6063-T5 ALUMINUM.

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
  - TAS 201-94
  - TAS 202-94
  - TAS 203-94
  - AAMA 501-15
  - ASTM E1886-13a
  - ASTM E1996-17
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 3 OR LESS. SEE SHEETS 3 & 4 FOR LMI AND SMI GLASS TYPES.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4.
- STOREFRONT FRAME MATERIAL: ALUMINUM 6063-T5
- ALL STRUCTURAL MATERIALS & DISSIMILAR METALS SHALL BE PROTECTED, TREATED, PAINTED, COATED, AND/OR ISOLATED AS REQUIRED IN THE APPLICABLE SECTIONS OF THE CURRENT FLORIDA BUILDING CODE AND REFERENCED DESIGN SPECIFICATIONS.
- GLASS SHALL MEET THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEETS 3 & 4 FOR GLAZING DETAILS.

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INSTRUCTIONS FOR USE:

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



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

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

INSTALLATION & GENERAL NOTES

PREPARED BY: BUILDING DROPS, INC.

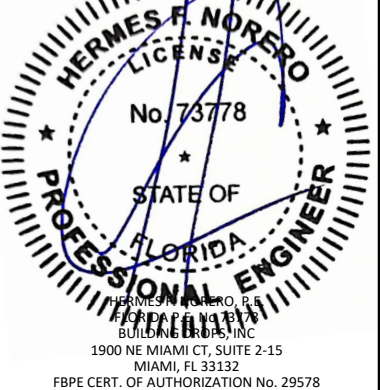
1900 NE MIAMI CT, SUITE 2-15  
MIAMI, FL 33132  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com



| REMARKS         | BY | DATE     |
|-----------------|----|----------|
| FBC CODE UPDATE | RV | 07.12.17 |
| MISC. UPDATES   | SH | 12.15.22 |
| PROFILE UPDATE  | SH | 07.03.24 |
| ANCHOR UPDATE   | SH | 02.11.26 |

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

Digitally signed by Hermes F. Norero, P.E.  
Reason: I am approving this document  
Date: 2026.02.11 17:05:14 -06'00'



FL #:

FL14218

DATE: 01.28.16

DWG. BY: SM

CHK. BY: HFN

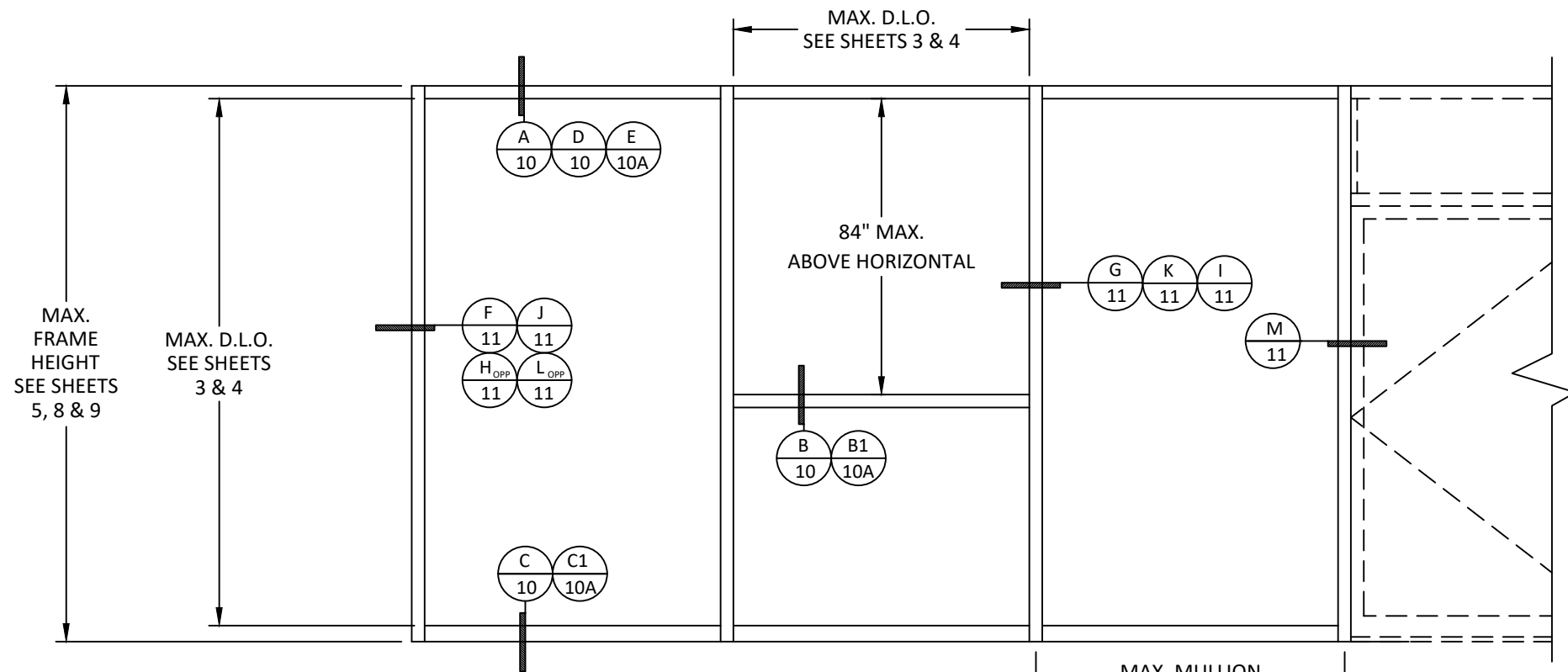
SCALE: NTS

DWG. #: YKK166

SHEET:

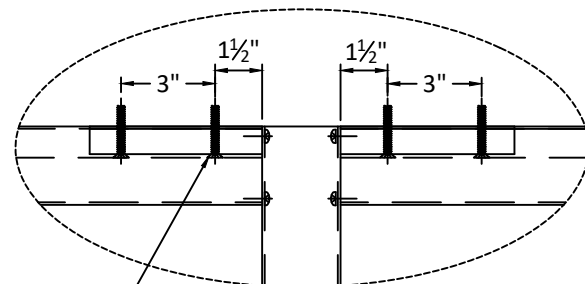
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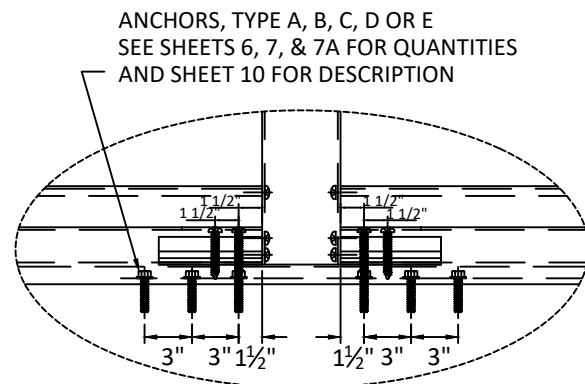


**ELEVATION**  
**TYPICAL YHS 50 TU STOREFRONT**

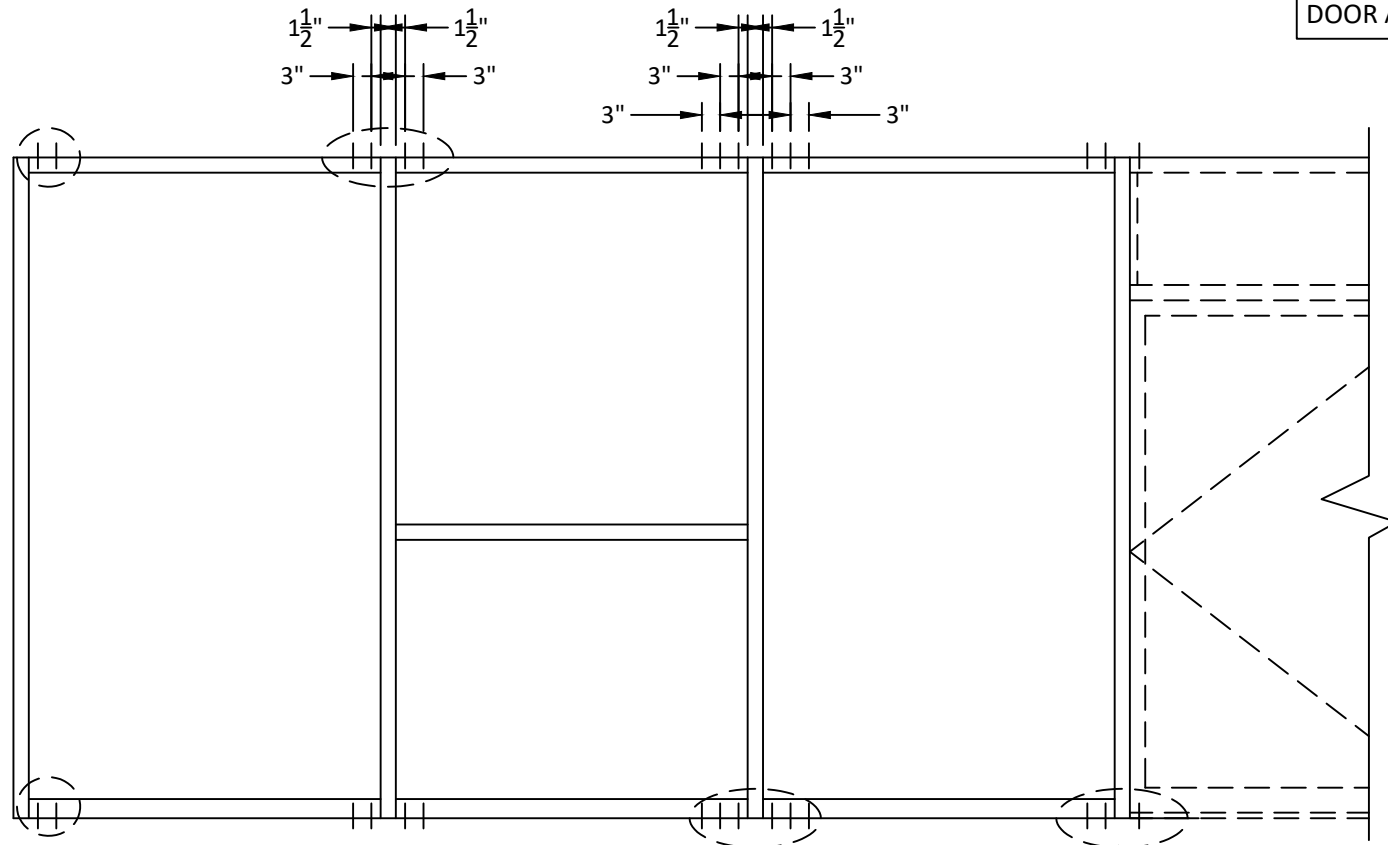
SEE SEPARATE DOOR APPROVAL FOR DOOR RATING & DETAILS.  
LOWER DESIGN PRESSURE FROM STOREFRONT OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.



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



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



**TYPICAL ANCHOR LAYOUT**

FOR DOOR ADJACENT  
MULLION ANCHOR  
REQUIREMENTS SEE  
SHEETS 8 & 9



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

SCALE: **NTS**

DWG. #: **YKK166**

SHEET:

**2**

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| GLASS LOAD CAPACITY (PSF) |               |                             |                      |
|---------------------------|---------------|-----------------------------|----------------------|
| NOMINAL DIMS. (in)        |               | GLASS TYPES<br>A, B, C OR D | GLASS TYPE<br>H      |
| DLO<br>WIDTH              | DLO<br>HEIGHT | EXT. (+)<br>INT. (-)        | EXT. (+)<br>INT. (-) |
| 27.5                      | 54.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | 44.2                 |
| 63.5                      |               | 70.0                        | 48.7                 |
| 69.5                      |               | 68.4                        | 41.8                 |
| 27.5                      | 60.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | 39.6                 |
| 63.5                      |               | 70.0                        | 39.6                 |
| 69.5                      |               | 70.0                        | 43.4                 |
| 27.5                      | 66.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | 39.6                 |
| 63.5                      |               | 63.4                        | 35.8                 |
| 69.5                      |               | 63.5                        | 35.9                 |
| 27.5                      | 72.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | 39.6                 |
| 63.5                      |               | 63.4                        | 35.8                 |
| 69.0                      |               | 57.9                        | -                    |
| 27.5                      | 78.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | 39.6                 |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | 39.6                 |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
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| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
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| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
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| 69.5                      |               | 57.9                        | -                    |
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| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
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| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.4                        | -                    |
| 69.5                      |               | 57.9                        | -                    |
| 27.5                      | 84.375        | 70.0                        | 50.0                 |
| 33.5                      |               | 70.0                        | 50.0                 |
| 39.5                      |               | 70.0                        | 50.0                 |
| 45.5                      |               | 70.0                        | 50.0                 |
| 51.5                      |               | 70.0                        | 44.2                 |
| 57.5                      |               | 70.0                        | -                    |
| 63.5                      |               | 63.                         |                      |

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

**\* NOTE:**

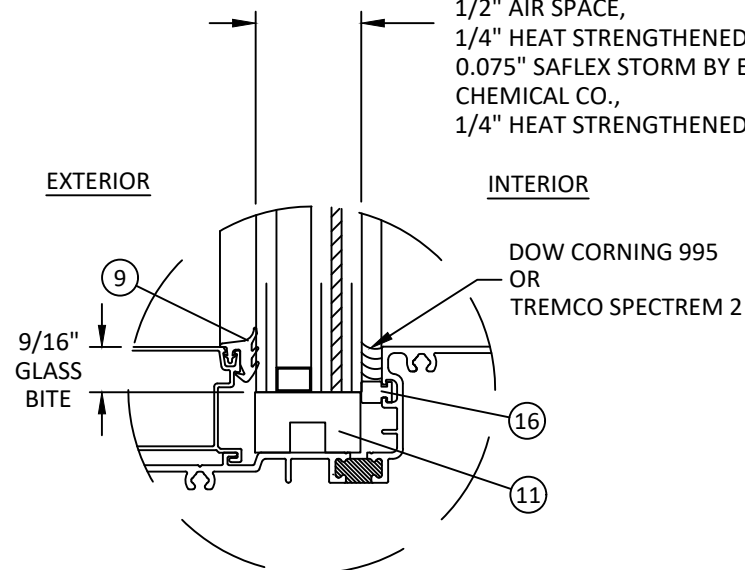
1. GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300 (3 SEC. GUSTS) AND CHAPTER 17 OF THE CURRENT FBC FOR SIZES OTHER THAN TESTED.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER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

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

## WET GLAZED GLASS TYPES

## LARGE & SMALL MISSILE IMPACT

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

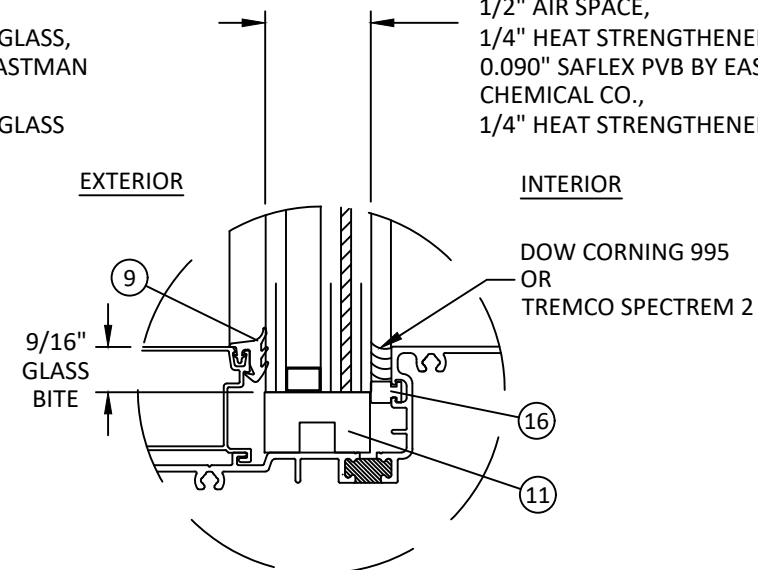


## GLAZING DETAIL E

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(WET GLAZED)

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

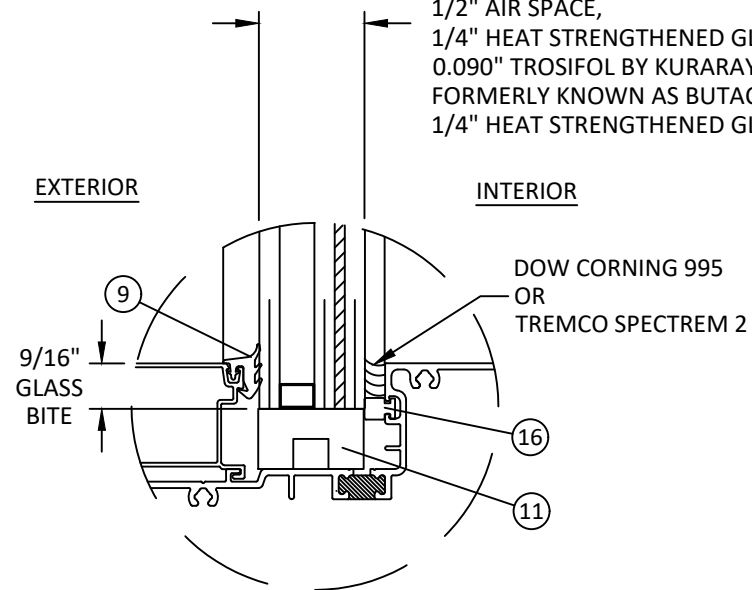


## GLAZING DETAIL F

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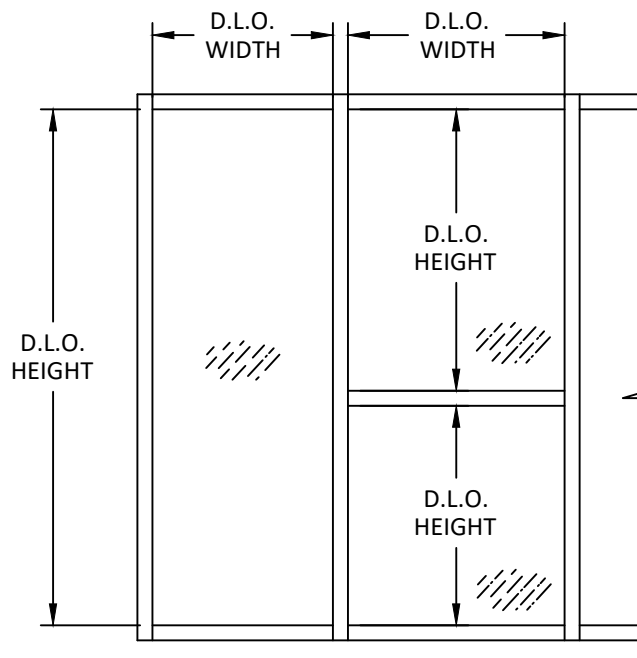
(WET GLAZED)

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



## GLAZING DETAIL G

(WET 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.



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

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

## WET GLAZING DETAILS

PREPARED BY:  
BUILDING DROPS, INC.



| REMARKS         | BY | DATE     |
|-----------------|----|----------|
| FBC CODE UPDATE | RV | 07.12.17 |
| MISC. UPDATES   | SH | 12.15.22 |
| PROFILE UPDATE  | SH | 07.03.24 |
| ANCHOR UPDATE   | SH | 02.11.26 |

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



FL #:

FL14218

DATE: 01.28.16

DWG. BY:  
SM

CHK. BY:  
HFN

SCALE: **NTS**

DWG. #: YKK166

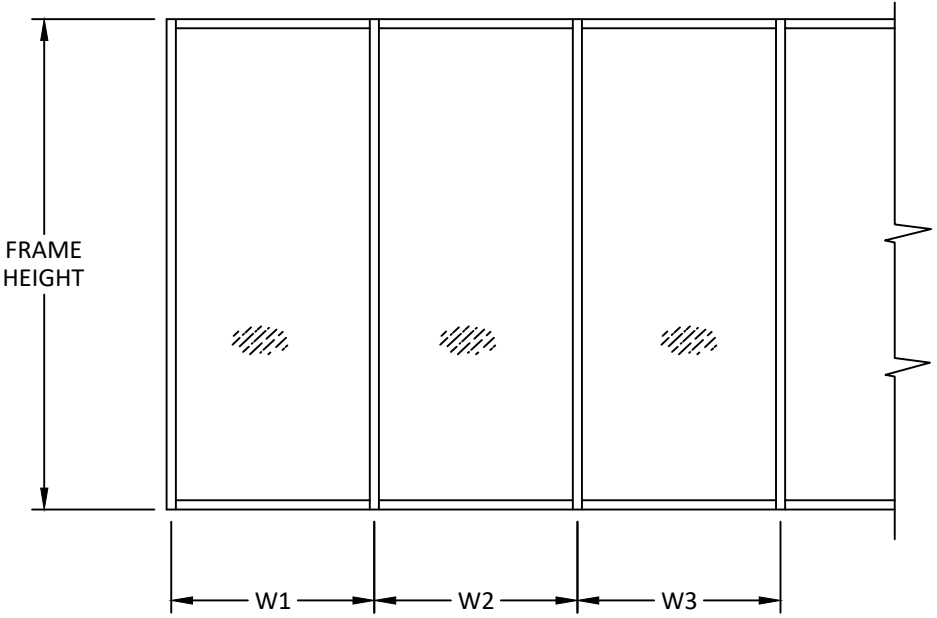
SHEET:

4

MULLION LOAD TABLES

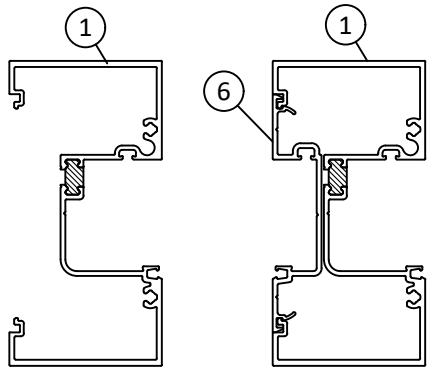
| JAMB/MULLION LOAD CAPACITY - PSF<br>WITH OR WITHOUT INTERMEDIATE HORIZONTALS |                 |                      |                      |                      |
|------------------------------------------------------------------------------|-----------------|----------------------|----------------------|----------------------|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

| JAMB/MULLION LOAD CAPACITY - PSF<br>WITH OR WITHOUT INTERMEDIATE HORIZONTALS |                 |                      |                      |                      |
|------------------------------------------------------------------------------|-----------------|----------------------|----------------------|----------------------|
| NOMINAL DIMS.                                                                |                 | STANDARD<br>CONFIG.  | HEAVY<br>CONFIG.     | EXP.<br>MULLION      |
| WIDTH (W)                                                                    | FRAME<br>HEIGHT | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) | EXT. (+)<br>INT. (-) |
| 30                                                                           | 96              | 70.0                 | 70.0                 | 70.0                 |
| 36                                                                           |                 | 70.0                 | 70.0                 | 70.0                 |
| 42                                                                           |                 | 70.0                 | 70.0                 | 70.0                 |
| 48                                                                           |                 | 70.0                 | 70.0                 | 70.0                 |
| 54                                                                           |                 | 50.0                 | 70.0                 | 70.0                 |
| 60                                                                           |                 | --                   | 70.0                 | 70.0                 |
| 66                                                                           |                 | --                   | 70.0                 | --                   |
| 72                                                                           |                 | --                   | 70.0                 | --                   |
| 30                                                                           | 102             | 70.0                 | 70.0                 | 70.0                 |
| 36                                                                           |                 | 70.0                 | 70.0                 | 70.0                 |
| 42                                                                           |                 | 66.7                 | 70.0                 | 70.0                 |
| 48                                                                           |                 | 50.0                 | 70.0                 | 70.0                 |
| 54                                                                           |                 | --                   | 70.0                 | 70.0                 |
| 60                                                                           |                 | --                   | 70.0                 | --                   |
| 66                                                                           |                 | --                   | 70.0                 | --                   |
| 72                                                                           |                 | --                   | 70.0                 | --                   |
| 30                                                                           | 108             | 70.0                 | 70.0                 | 70.0                 |
| 36                                                                           |                 | 65.6                 | 70.0                 | 70.0                 |
| 42                                                                           |                 | 56.2                 | 70.0                 | 70.0                 |
| 48                                                                           |                 | 50.0                 | 70.0                 | 70.0                 |
| 54                                                                           |                 | --                   | 70.0                 | 70.0                 |
| 60                                                                           |                 | --                   | 70.0                 | --                   |
| 66                                                                           |                 | --                   | 70.0                 | --                   |
| 72                                                                           |                 | --                   | 70.0                 | --                   |
| 30                                                                           | 114             | 66.9                 | 70.0                 | 70.0                 |
| 36                                                                           |                 | 55.7                 | 70.0                 | 70.0                 |
| 42                                                                           |                 | 48.6                 | 70.0                 | 70.0                 |
| 48                                                                           |                 | --                   | 70.0                 | 67.0                 |
| 54                                                                           |                 | --                   | 66.1                 | --                   |
| 60                                                                           |                 | --                   | 66.1                 | --                   |
| 66                                                                           |                 | --                   | 66.1                 | --                   |
| 72                                                                           |                 | --                   | 66.1                 | --                   |
| 30                                                                           | 120             | 57.3                 | 70.0                 | 70.0                 |
| 36                                                                           |                 | 48.6                 | 70.0                 | 70.0                 |
| 42                                                                           |                 | 41.7                 | 70.0                 | 65.6                 |
| 48                                                                           |                 | --                   | 63.8                 | 57.4                 |
| 54                                                                           |                 | --                   | 56.7                 | --                   |
| 60                                                                           |                 | --                   | 56.7                 | --                   |
| 66                                                                           |                 | --                   | 56.7                 | --                   |
| 72                                                                           |                 | --                   | 56.7                 | --                   |



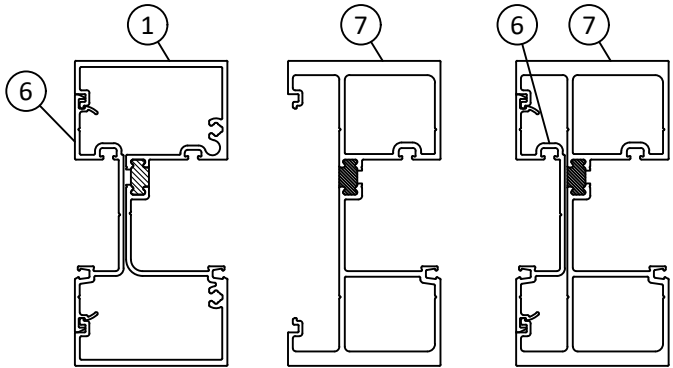
WIDTH (W) = W1 (JAMB)

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



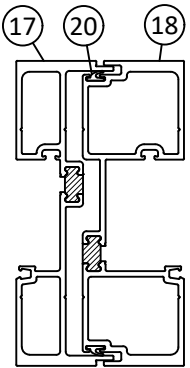
JAMB MULLION

STD. CONFIGURATION



JAMB JAMB MULLION

HEAVY CONFIGURATION



EXPANSION  
MULLION



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

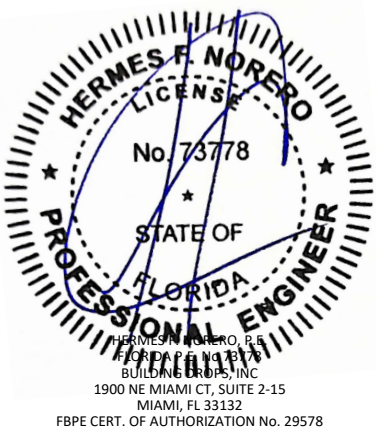
TITLE:  
YHS 50 TU ALUMINUM STOREFRONT  
SYSTEM - OUTSIDE GLAZED  
(WZ3) (IMPACT)  
MULLION TABLES

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



| REMARKS         | BY | DATE     |
|-----------------|----|----------|
| FBC CODE UPDATE | RV | 07.12.17 |
| MISC. UPDATES   | SH | 12.15.22 |
| PROFILE UPDATE  | SH | 07.03.24 |
| ANCHOR UPDATE   | SH | 02.11.26 |

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



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

# ANCHOR TYPE 'A & B' TABLES

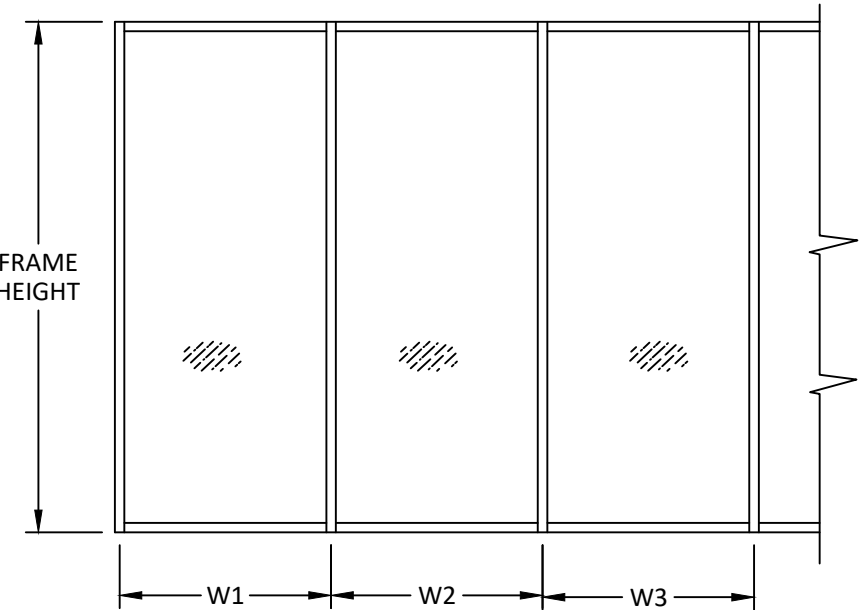
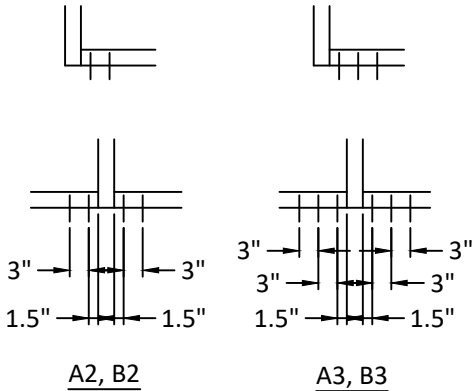
| ANCHOR LOAD CAPACITY - PSF<br>EXT. (+) & INT (-) |                 |                    |                    |
|--------------------------------------------------|-----------------|--------------------|--------------------|
| NOMINAL DIMS.                                    |                 | ANCHOR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

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

ANCHORS TYPES: SEE SHEET 10 FOR DESCRIPTION

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

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION



WIDTH (W) = W1 (JAMB)

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



YKK AP AMERICA, INC.  
101 MARIETTA STREET NW, SUITE 2100  
ATLANTA, GA 30303  
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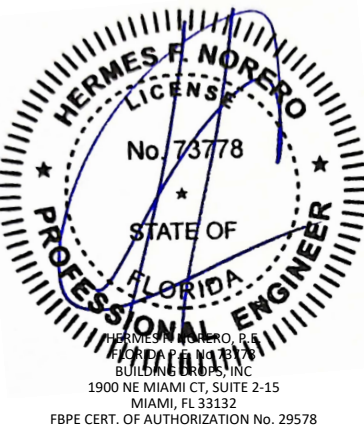
TITLE: YHS 50 TU ALUMINUM STOREFRONT  
SYSTEM - OUTSIDE GLAZED  
(WZ3) (IMPACT)  
TYPE A & B ANCHOR TABLES

PREPARED BY: BUILDING DROPS, INC.  
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FAX: (954) 744-4738  
WEB: www.buildingdrops.com



| REMARKS         | BY | DATE     |
|-----------------|----|----------|
| FBC CODE UPDATE | RV | 07.12.17 |
| MISC. UPDATES   | SH | 12.15.22 |
| PROFILE UPDATE  | SH | 07.03.24 |
| ANCHOR UPDATE   | SH | 02.11.26 |

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



FL #: FL14218

DATE: 01.28.16

DWG. BY: SM  
CHK. BY: HFN

SCALE: NTS

DWG. #: YKK166

SHEET:

6

c:\users\sebastianherrerros\building drops, inc\building drops, inc\common\projects\ykk ap america, inc\fbc-26-0123 - fl14218 yns 50 tu pre-glazed storefront systems\dwgs\tu\ykk166.dwg 2/11/2026 9:30 AM

# ANCHOR TYPE 'C & D' TABLES

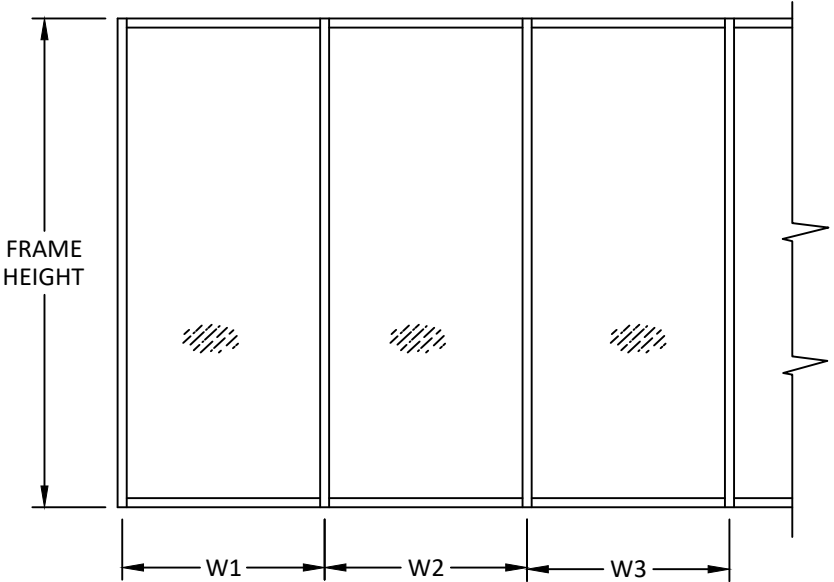
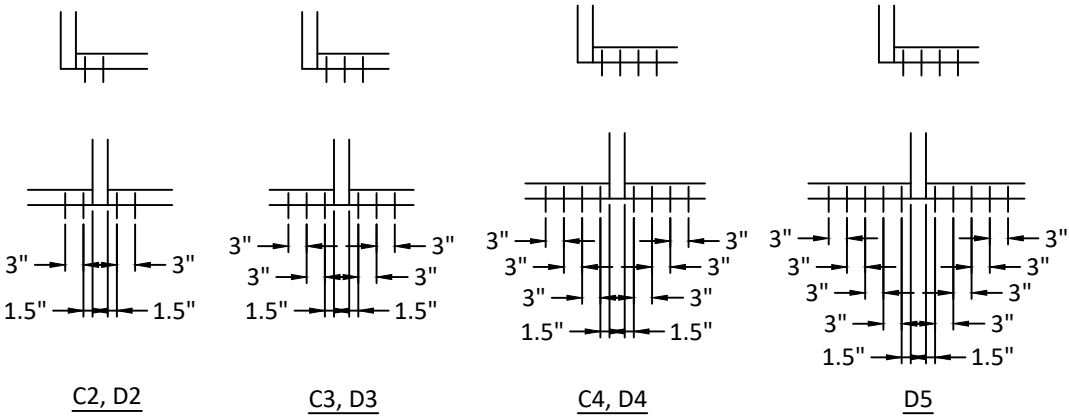
| ANCHOR LOAD CAPACITY - PSF<br>EXT. (+) & INT (-) |              |                 |      |                 |      |      |
|--------------------------------------------------|--------------|-----------------|------|-----------------|------|------|
| NOMINAL DIMS.                                   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

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

ANCHORS TYPES: SEE SHEET 10 FOR DESCRIPTION

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

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION



WIDTH (W) = W1 (JAMB)

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

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

TITLE:  
YHS 50 TU ALUMINUM STOREFRONT  
SYSTEM - OUTSIDE GLAZED  
(WZ3) (IMPACT)  
TYPE C & D ANCHOR TABLES

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

| REMARKS         | BY | DATE     |
|-----------------|----|----------|
| FBC CODE UPDATE | RV | 07.12.17 |
| MISC. UPDATES   | SH | 12.15.22 |
| PROFILE UPDATE  | SH | 07.03.24 |
| ANCHOR UPDATE   | SH | 02.11.26 |

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

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

HERMES F. NORERO, P.E.  
BUILDING DROPS, INC.  
1900 NE MIAMI CT, SUITE 2-15  
MIAMI, FL 33132  
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:  
**FL14218**

DATE: **01.28.16**

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

SCALE: **NTS**

DWG. #: **YKK166**

SHEET:  
**7**

[Page 7 of 14]

ANCHOR TYPE 'E' TABLES

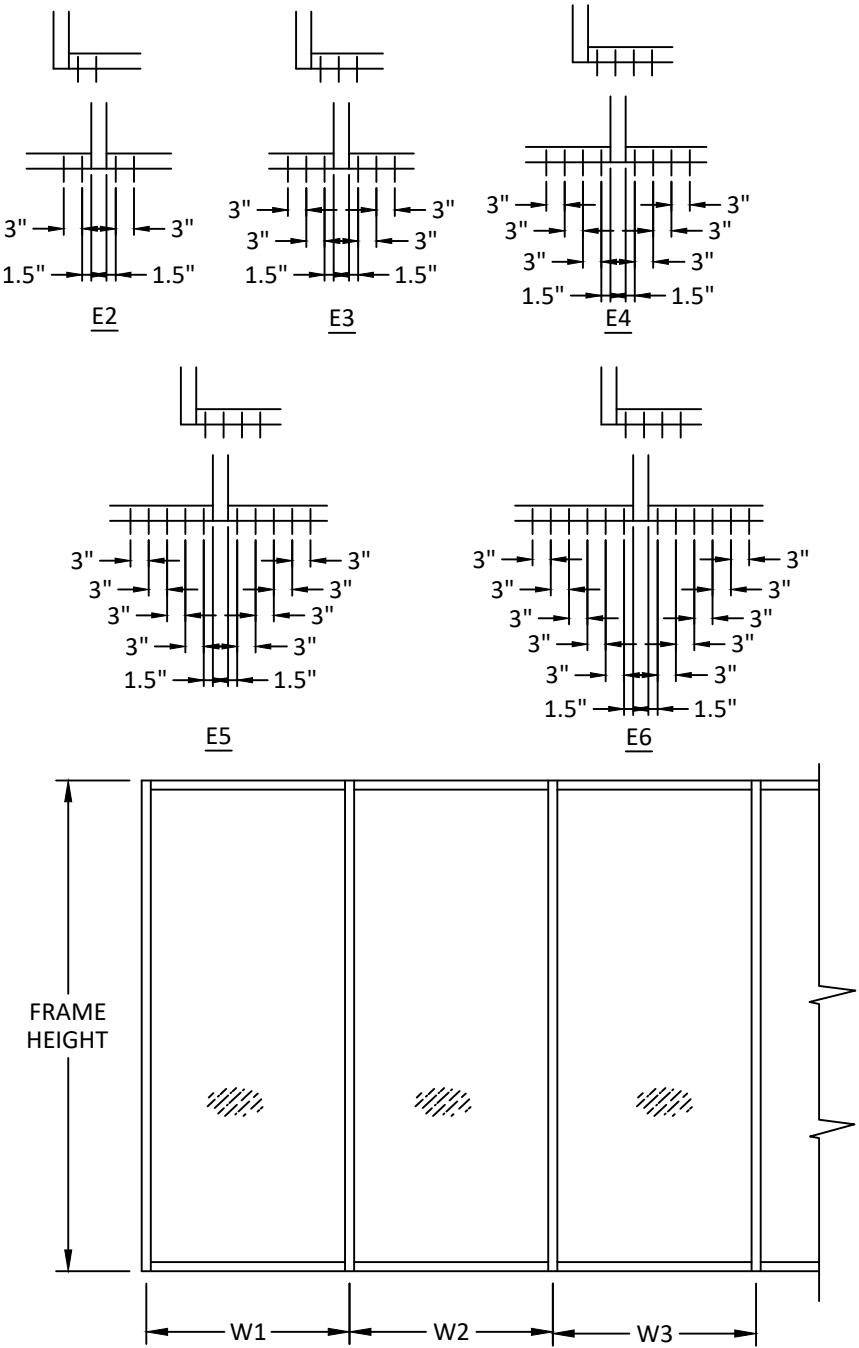
| ANCHOR LOAD CAPACITY - PSF<br>EXT. (+) & INT (-) |              |                 |      |      |      |      |
|--------------------------------------------------|--------------|-----------------|------|------|------|------|
| NOMINAL DIMS.                                    |              | ANCHOR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

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

ANCHORS TYPES: SEE SHEET 10 FOR DESCRIPTION

- E2 = (2) ANCHORS TYPE 'E' AT JAMB OR EACH SIDE OF MULLION  
E3 = (3) ANCHORS TYPE 'E' AT JAMB OR EACH SIDE OF MULLION  
E4 = (4) ANCHORS TYPE 'E' AT JAMB OR EACH SIDE OF MULLION  
E5 = (5) ANCHORS TYPE 'E' AT JAMB OR EACH SIDE OF MULLION  
E6 = (6) ANCHORS TYPE 'E' AT JAMB OR EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION



WIDTH (W) = W1 (JAMB)

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

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

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

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

BD

BUILDING DROPS

| REMARKS         | BY | DATE     |
|-----------------|----|----------|
| FBC CODE UPDATE | RV | 07.12.17 |
| MISC. UPDATES   | SH | 12.15.22 |
| PROFILE UPDATE  | SH | 07.03.24 |
| ANCHOR UPDATE   | SH | 02.11.26 |

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HERMES F. NORERO

LICENSE

No. 73778

STATE OF FLORIDA

PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.  
BUILDING DROPS, INC.  
1900 NE MIAMI CT, SUITE 2-15  
MIAMI, FL 33132  
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:  
**FL14218**

DATE:  
**01.28.16**

DWG. BY:  
**SM**

CHK. BY:  
**HFN**

SCALE:  
**NTS**

DWG. #:  
**YKK166**

SHEET:  
**7A**

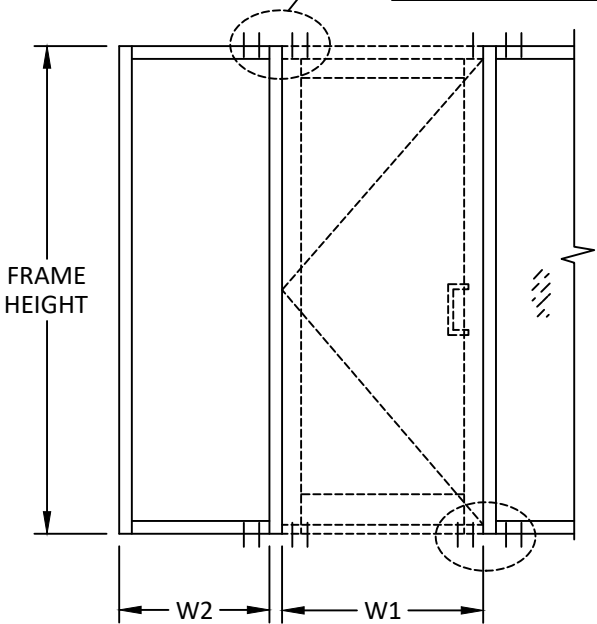
[Page 8 of 14]

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# DOOR MULLION LOAD & ANCHOR TABLES

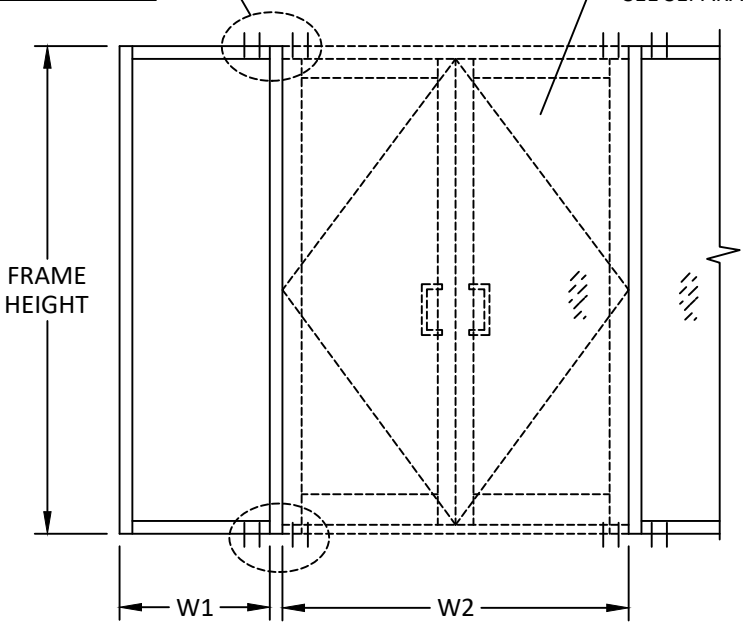
| DOOR MULLION LOAD CAPACITY (PSF) |              |                      |          |                   |          |
|----------------------------------|--------------|----------------------|----------|-------------------|----------|
| NOMINAL DIMS.                    |              | WITHOUT STEEL REINF. |          | WITH STEEL REINF. |          |
| WIDTH (W)                        | FRAME HEIGHT | EXT. (+)             | INT. (-) | EXT. (+)          | INT. (-) |
| 24                               | 102          | 70.0                 | 70.0     | 70.0              | 90.0     |
| 30                               |              | 70.0                 | 70.0     | 70.0              | 90.0     |
| 36                               |              | 70.0                 | 70.0     | 70.0              | 90.0     |
| 42                               |              | 70.0                 | 70.0     | 70.0              | 90.0     |
| 48                               |              | 70.0                 | 70.0     | 70.0              | 90.0     |
| 54                               |              | 70.0                 | 70.0     | 70.0              | 90.0     |
| 60                               |              | 70.0                 | 70.0     | 70.0              | 90.0     |
| 24                               | 108          | 70.0                 | 70.0     | 70.0              | 90.0     |
| 30                               |              | 70.0                 | 70.0     | 70.0              | 90.0     |
| 36                               |              | 70.0                 | 70.0     | 70.0              | 90.0     |
| 42                               |              | 70.0                 | 70.0     | 70.0              | 90.0     |
| 48                               |              | 70.0                 | 70.0     | 70.0              | 90.0     |
| 54                               |              | 70.0                 | 70.0     | 70.0              | 90.0     |
| 60                               |              | 70.0                 | 70.0     | 70.0              | 90.0     |
| 24                               | 114          | 70.0                 | 70.0     | 70.0              | 90.0     |
| 30                               |              | 70.0                 | 70.0     | 70.0              | 90.0     |
| 36                               |              | 70.0                 | 70.0     | 70.0              | 90.0     |
| 42                               |              | 70.0                 | 70.0     | 70.0              | 90.0     |
| 48                               |              | 70.0                 | 70.0     | 70.0              | 90.0     |
| 54                               |              | 70.0                 | 70.0     | 70.0              | 90.0     |
| 60                               |              | 70.0                 | 70.0     | 70.0              | 90.0     |
| 24                               | 120          | 70.0                 | 70.0     | 70.0              | 90.0     |
| 30                               |              | 70.0                 | 70.0     | 70.0              | 90.0     |
| 36                               |              | 70.0                 | 70.0     | 70.0              | 90.0     |
| 42                               |              | 70.0                 | 70.0     | 70.0              | 90.0     |
| 48                               |              | 70.0                 | 70.0     | 70.0              | 90.0     |
| 54                               |              | 69.2                 | 69.2     | 70.0              | 90.0     |
| 60                               |              | 62.3                 | 62.3     | 70.0              | 90.0     |

| ANCHOR TYPE | TOTAL NO. OF ANCHORS REQUIRED AT DOOR MULLION HEAD AND SILL BY DESIGN PRESSURE |        |        |        |        |
|-------------|--------------------------------------------------------------------------------|--------|--------|--------|--------|
|             | 70 PSF                                                                         | 60 PSF | 50 PSF | 40 PSF | 30 PSF |
| A           | 4                                                                              | 4      | 3      | 3      | 2      |
| B           | 5                                                                              | 4      | 4      | 3      | 2      |
| C           | 6                                                                              | 5      | 4      | 4      | 3      |
| D           | 8                                                                              | 7      | 6      | 5      | 4      |
| E           | 11                                                                             | 10     | 8      | 7      | 5      |



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

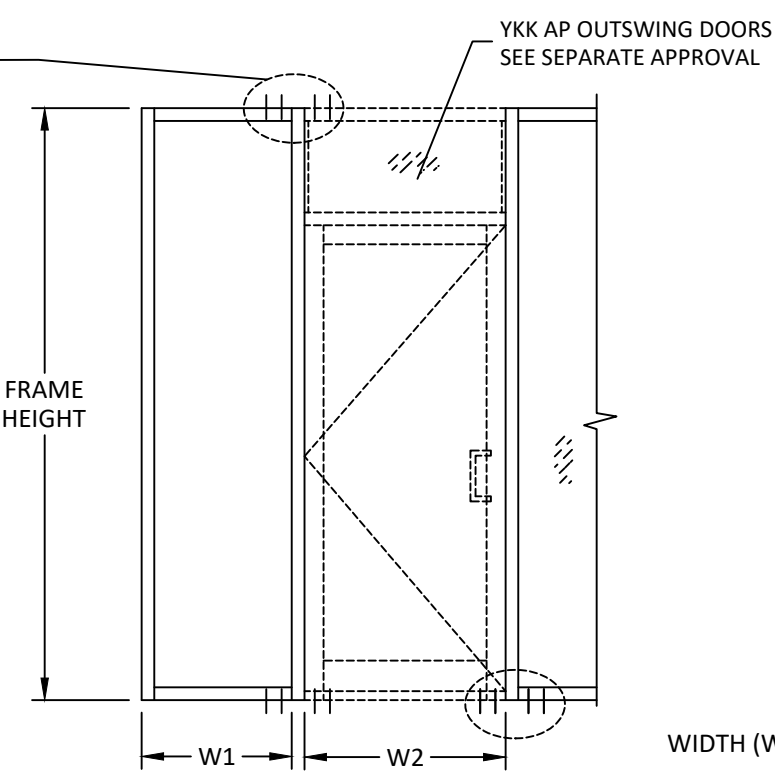
**SINGLE DOOR**



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

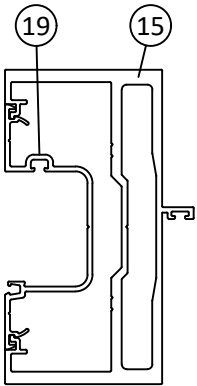
**DOUBLE DOOR**

| ANCHOR TYPE | TOTAL NO. OF ANCHORS REQUIRED AT DOOR MULLION HEAD AND SILL BY DESIGN PRESSURE |        |        |        |        |
|-------------|--------------------------------------------------------------------------------|--------|--------|--------|--------|
|             | 70 PSF                                                                         | 60 PSF | 50 PSF | 40 PSF | 30 PSF |
| A           | 4                                                                              | 4      | 3      | 3      | 2      |
| B           | 5                                                                              | 4      | 4      | 3      | 2      |
| C           | 6                                                                              | 5      | 4      | 4      | 3      |
| D           | 8                                                                              | 7      | 6      | 5      | 4      |
| E           | 11                                                                             | 10     | 8      | 7      | 5      |

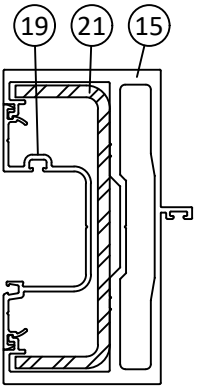


WIDTH (W) =  $\frac{W1 + W2}{2}$

**SINGLE DOOR WITH TRANSOM**



**DOOR MULLION WITHOUT STEEL REINFORCEMENT**



**DOOR MULLION WITH STEEL REINFORCEMENT**



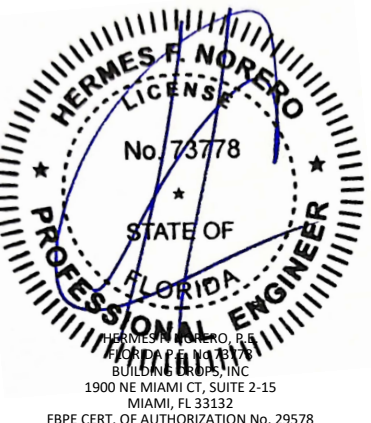
**YKK AP AMERICA, INC.**  
101 MARIETTA STREET NW, SUITE 2100  
ATLANTA, GA 30303  
PH: (678) 838-6000

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

PREPARED BY: **BUILDING DROPS, INC.**  
1900 NE MIAMI CT, SUITE 2-15  
MIAMI, FL 33132  
PH: (954) 399-8478  
FAX: (954) 474-4738  
WEB: www.buildingdrops.com

| REMARKS         | BY | DATE     |
|-----------------|----|----------|
| FBC CODE UPDATE | RV | 07.12.17 |
| MISC. UPDATES   | SH | 12.15.22 |
| PROFILE UPDATE  | SH | 07.03.24 |
| ANCHOR UPDATE   | SH | 02.11.26 |

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|          |                 |
|----------|-----------------|
| FL #:    | <b>FL14218</b>  |
| DATE:    | <b>01.28.16</b> |
| DWG. BY: | <b>SM</b>       |
| CHK. BY: | <b>HFN</b>      |
| SCALE:   | <b>NTS</b>      |
| DWG. #:  | <b>YKK166</b>   |

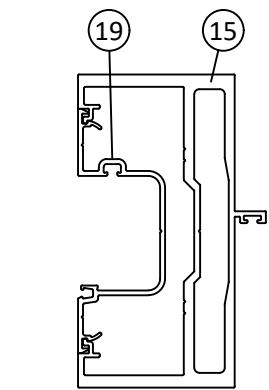
SHEET:

8

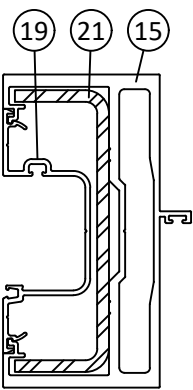
DOOR MULLION LOAD & ANCHOR TABLES

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

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

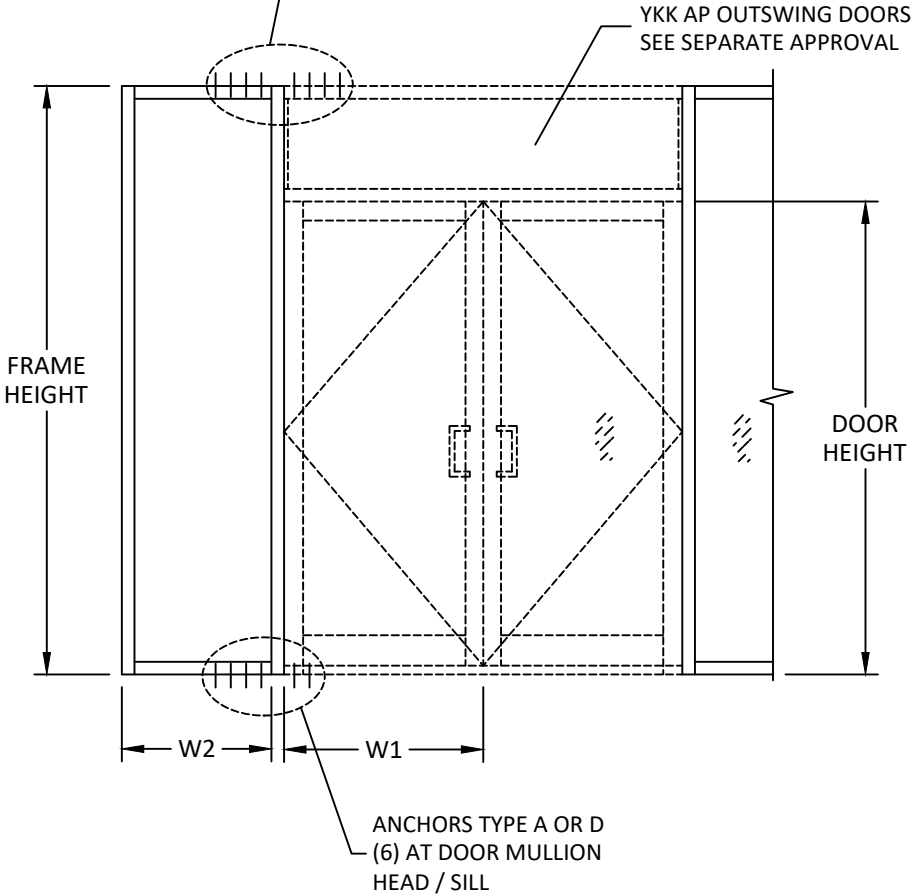


DOOR MULLION  
WITHOUT STEEL REINFORCEMENT



DOOR MULLION  
WITH STEEL REINFORCEMENT

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



DOUBLE DOOR WITH TRANSOM

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

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

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

**BUILDING DROPS**

| REMARKS         | BY | DATE     |
|-----------------|----|----------|
| FBC CODE UPDATE | RV | 07.12.17 |
| MISC. UPDATES   | SH | 12.15.22 |
| PROFILE UPDATE  | SH | 07.03.24 |
| ANCHOR UPDATE   | SH | 02.11.26 |

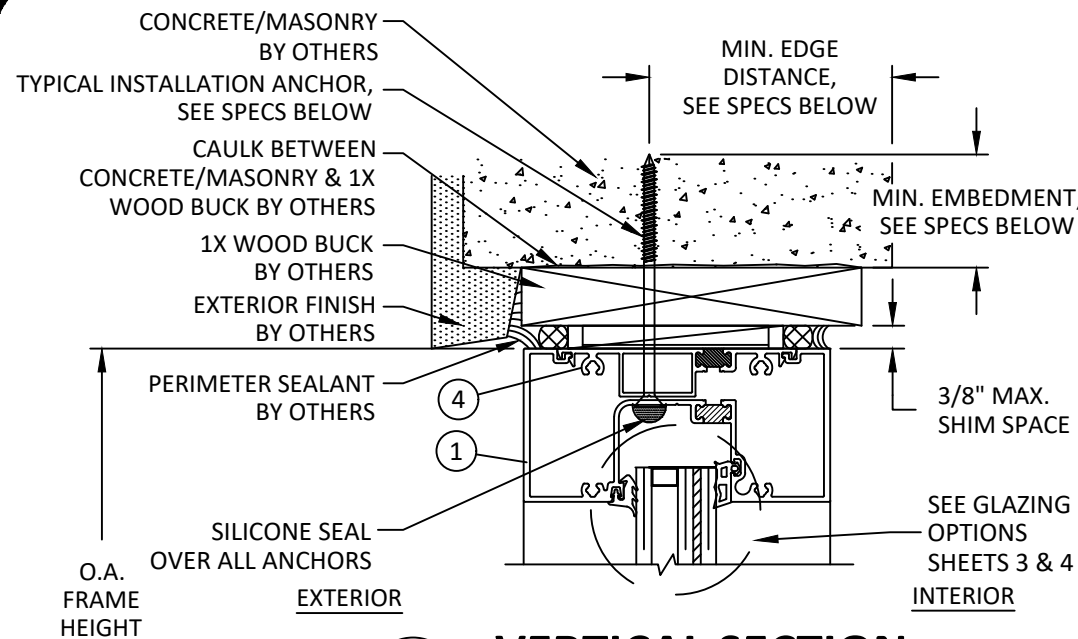
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

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

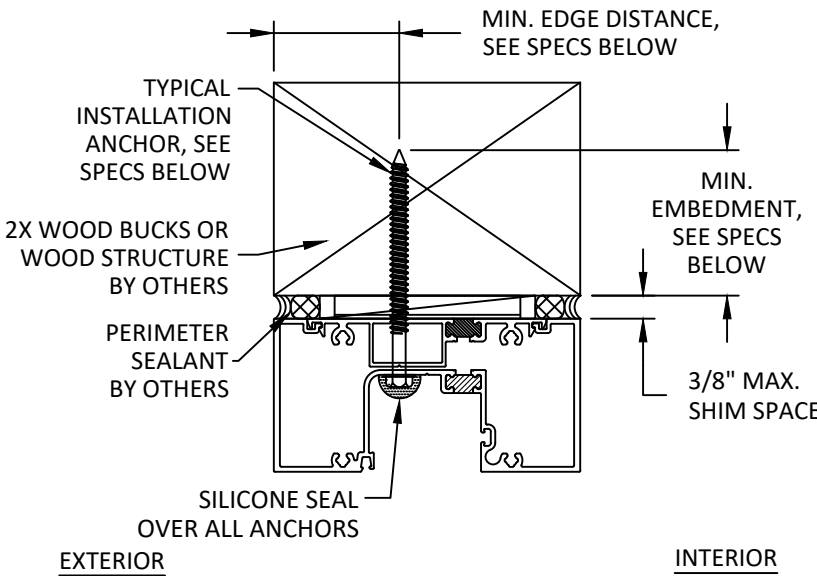
**BUILDING DROPS, INC.**  
1900 NE MIAMI CT, SUITE 2-15  
MIAMI, FL 33132  
FBPE CERT. OF AUTHORIZATION No. 29578

|          |                 |
|----------|-----------------|
| FL #:    | <b>FL14218</b>  |
| DATE:    | <b>01.28.16</b> |
| DWG. BY: | <b>SM</b>       |
| CHK. BY: | <b>HFN</b>      |
| SCALE:   | <b>NTS</b>      |
| DWG. #:  | <b>YKK166</b>   |
| SHEET:   |                 |

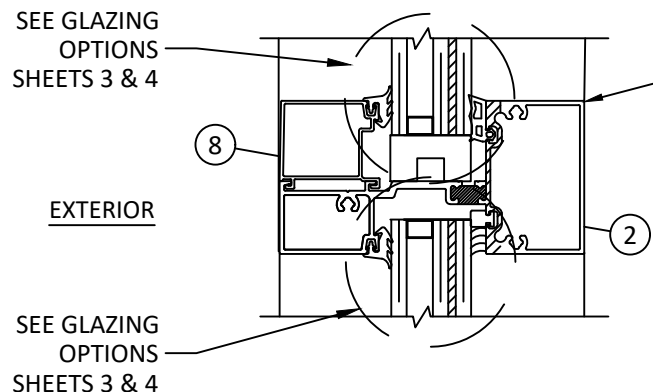
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**A**  
**10** **VERTICAL SECTION**  
HEAD - CONCRETE/MASONRY W/ 1X BUCK



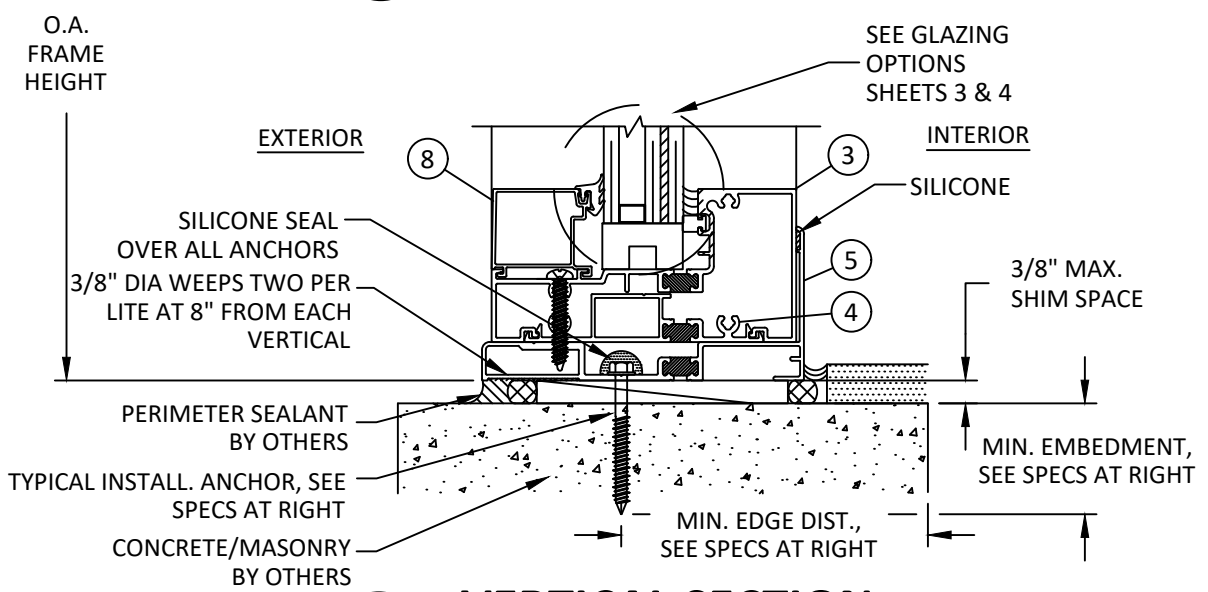
**D**  
**10** **VERTICAL SECTION**  
HEAD - WOOD FRAMING  
TYPICAL INSTALLATION



**B**  
**10** **VERTICAL SECTION**  
HORIZONTAL MEMBER

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

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



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

| YHS 50 TU ANCHOR SCHEDULE |                                     |                                                                             |                                                     |                    |
|---------------------------|-------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------|--------------------|
| ANCHOR TYPE               | ANCHOR DESCRIPTION                  | SUBSTRATE REQUIREMENTS                                                      | MIN. EMBEDMENT                                      | MIN. EDGE DISTANCE |
| A                         | 5/16" DEWALT ULTRAICON              | CONCRETE<br>MIN. F'C = 3000 PSI                                             | 2"                                                  | 3-1/8"             |
|                           | 5/16" ITW TAPCON+                   |                                                                             | 1-1/4"                                              | 2-3/16"            |
|                           | 5/16" SELF-DRILLING SCREW (GRADE 5) | STEEL: MIN. 12 GA.,<br>MIN. Fy=36 KSI<br>ALUM.: MIN. 1/8",<br>MIN. 6063-T5" | 3 THREADS<br>PENETRATION<br>PAST METAL<br>STRUCTURE | 3/4"               |
| B                         | 5/16" ITW TAPCON+                   | GROUT-FILLED BLOCK PER<br>C-90, MIN. F'C = 2000 PSI                         | 1-1/4"                                              | 3"                 |
|                           | 5/16" DEWALT ULTRAICON              | WOOD MIN. S.G. = 0.55                                                       | 1-1/2"                                              | 1-9/16"            |
|                           | 5/16" DEWALT TAPPER+                | CONCRETE<br>MIN. F'C = 3000 PSI                                             | 1-3/4"                                              | 2-1/2"             |
| C                         | 1/4" SELF-DRILLING SCREW (GRADE 5)  | STEEL: MIN. 12 GA.,<br>MIN. Fy=36 KSI<br>ALUM.: MIN. 1/8",<br>MIN. 6063-T5" | 3 THREADS<br>PENETRATION<br>PAST METAL<br>STRUCTURE | 3/4"               |
| D                         | 1/4" ITW TAPCON                     | CONCRETE<br>MIN. F'C = 3000 PSI                                             | 1-3/4"                                              | 1-1/2"             |
|                           | 1/4" DEWALT ULTRAICON+              |                                                                             | 1-3/4"                                              | 1-1/2"             |
|                           | 5/16" DEWALT ULTRAICON              | GROUT-FILLED BLOCK PER<br>C-90, MIN. F'C = 2000 PSI                         | 1-3/4"                                              | 2-1/2"             |
|                           | 1/4" DEWALT TAPPER+                 |                                                                             | 1-1/2"                                              | 3"                 |
| E                         | 1/4" DEWALT ULTRAICON+              | WOOD MIN. S.G. = 0.55                                                       | 1-1/2"                                              | 1"                 |
|                           | 1/4" DEWALT TAPPER+                 | CONCRETE<br>MIN. F'C = 3000 PSI                                             | 1-3/4"                                              | 1-3/4"             |
|                           | 1/4" DEWALT ULTRAICON+              | GROUT-FILLED BLOCK PER<br>C-90, MIN. F'C = 2000 PSI                         | 1-3/4"                                              | 1-1/2"             |
|                           | 1/4" ITW TAPCON                     |                                                                             | 1"                                                  | 2"                 |

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



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

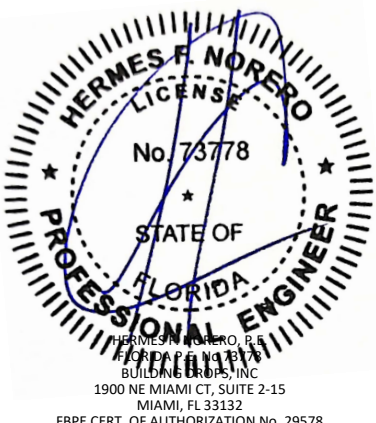
TITLE: YHS 50 TU ALUMINUM STOREFRONT SYSTEM - OUTSIDE GLAZED (WZ3) (IMPACT)  
VERTICAL SECTIONS & ANCHOR DESCRIPTIONS

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



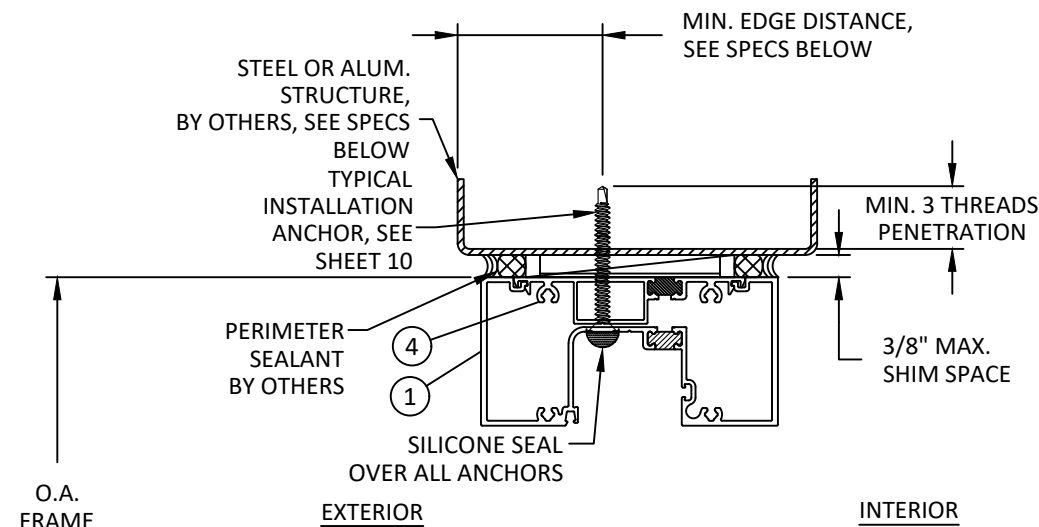
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|-----------------|----|----------|
| FBC CODE UPDATE | RV | 07.12.17 |
| MISC. UPDATES   | SH | 12.15.22 |
| PROFILE UPDATE  | SH | 07.03.24 |
| ANCHOR UPDATE   | SH | 02.11.26 |

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|          |          |
|----------|----------|
| FL #:    | FL14218  |
| DATE:    | 01.28.16 |
| DWG. BY: | CHK. BY: |
| SM       | HFN      |
| SCALE:   | NTS      |
| DWG. #:  | YKK166   |
| SHEET:   | 10       |

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**E**  
**10A**

## VERTICAL SECTION

HEAD - METAL SUBSTRATE  
TYPICAL INSTALLATION

SEE GLAZING  
OPTIONS  
SHEETS 3 & 4

EXTERIOR

INTERIOR

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

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

**B1**  
**10A**

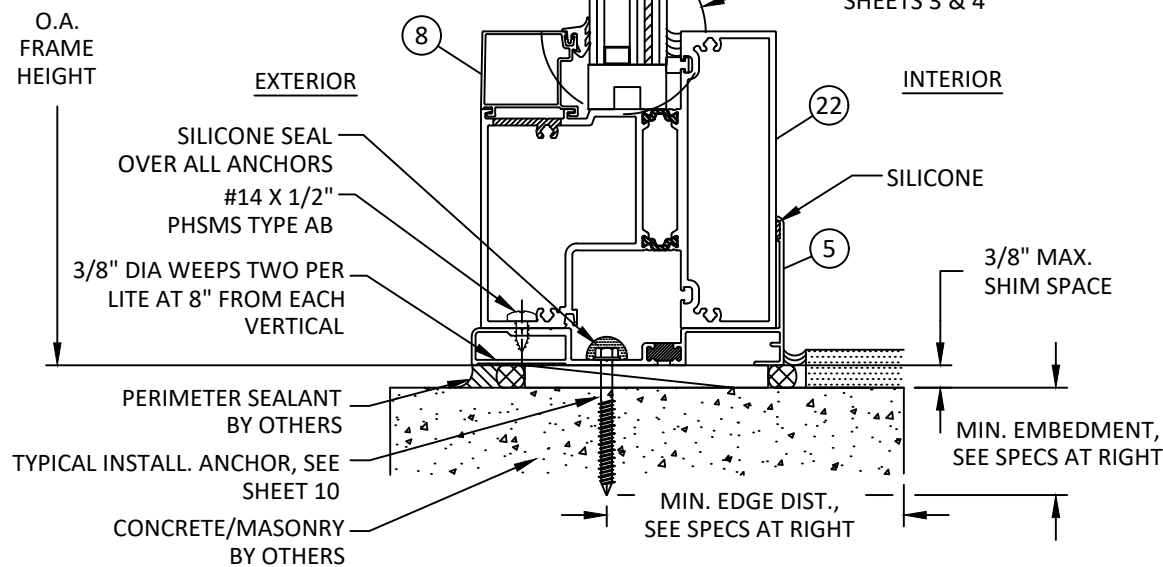
## VERTICAL SECTION

5" HORIZONTAL MEMBER

SEE GLAZING  
OPTIONS  
SHEETS 3 & 4

EXTERIOR

INTERIOR



**C1**  
**10A**

## VERTICAL SECTION

SILL - DIRECT TO CONCRETE/MASONRY



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

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

PREPARED BY:  
**BUILDING DROPS, INC.**  
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MIAMI, FL 33132  
PH: (954) 399-8478  
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| REMARKS         | BY | DATE     |
|-----------------|----|----------|
| FBC CODE UPDATE | RV | 07.12.17 |
| MISC. UPDATES   | SH | 12.15.22 |
| PROFILE UPDATE  | SH | 07.03.24 |
| ANCHOR UPDATE   | SH | 02.11.26 |

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FL #:  
**FL14218**

DATE: **01.28.16**

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

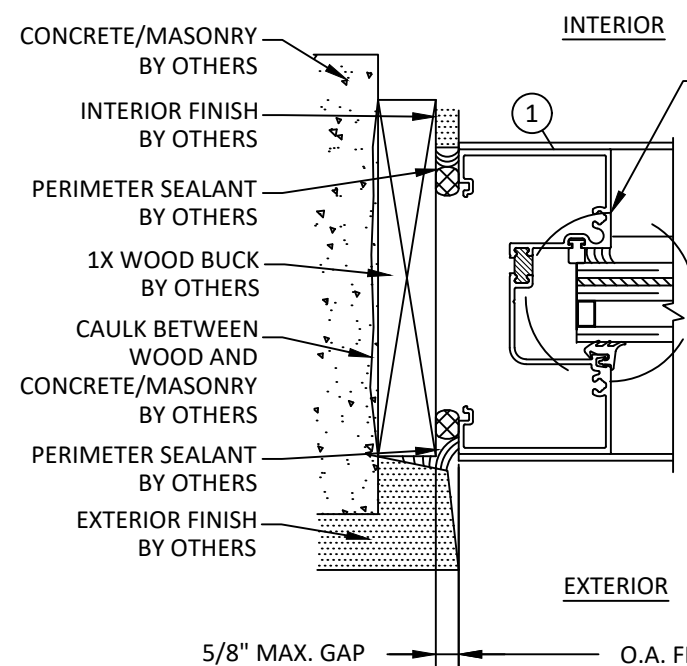
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DWG. #: **YKK166**

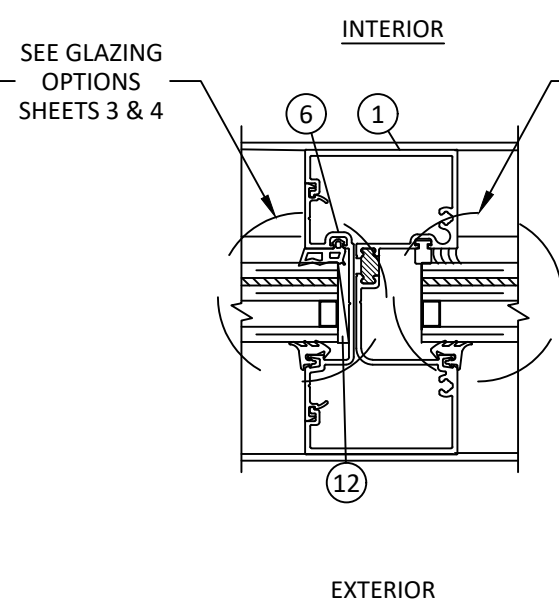
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**10A**

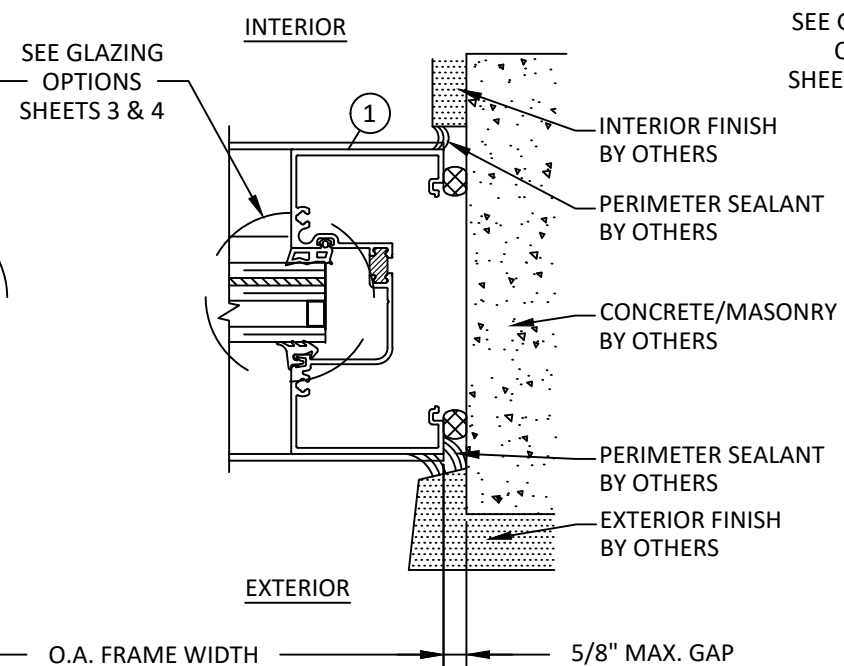
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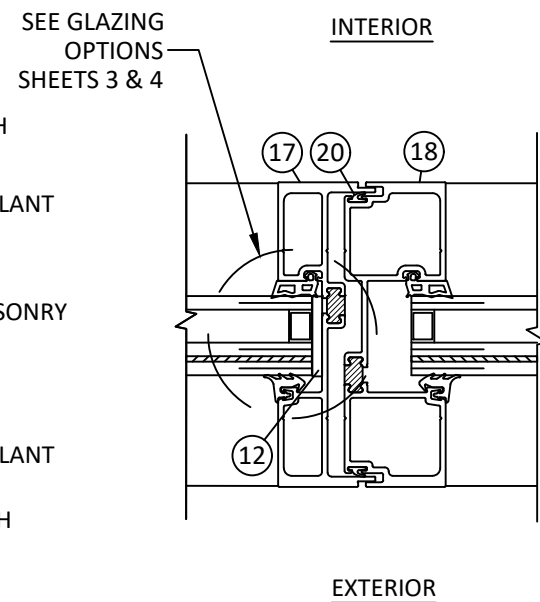
**F** **HORIZONTAL SECTION**  
**11** JAMB - CONCRETE/MASONRY W/ 1X BUCK  
STANDARD CONFIGURATION



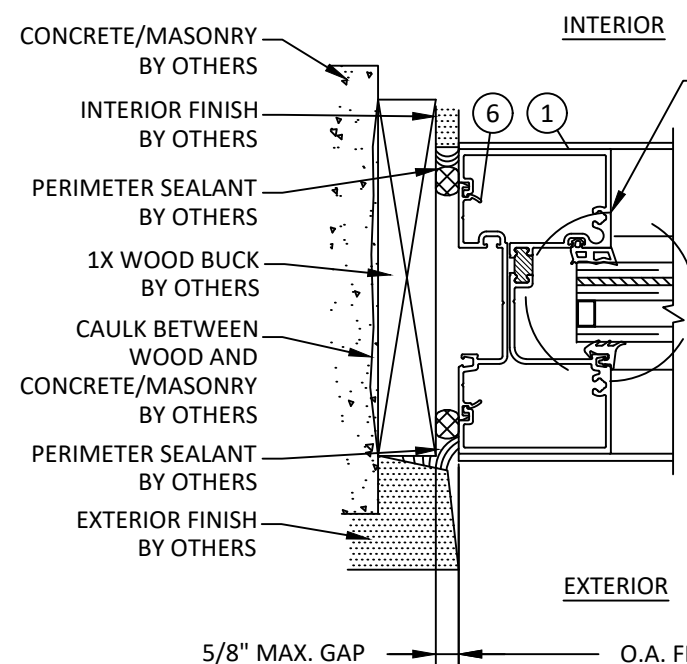
**G** **HORIZONTAL SECTION**  
**11** VERTICAL MULLION  
STANDARD CONFIGURATION



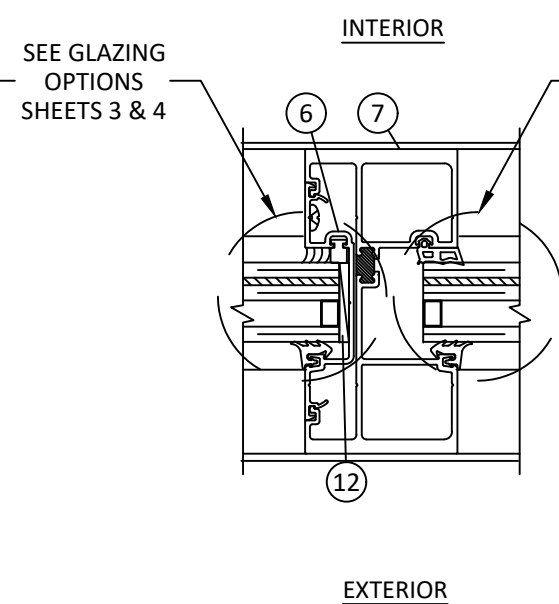
**H** **HORIZONTAL SECTION**  
**11** JAMB - DIRECT TO CONCRETE/MASONRY  
STANDARD CONFIGURATION



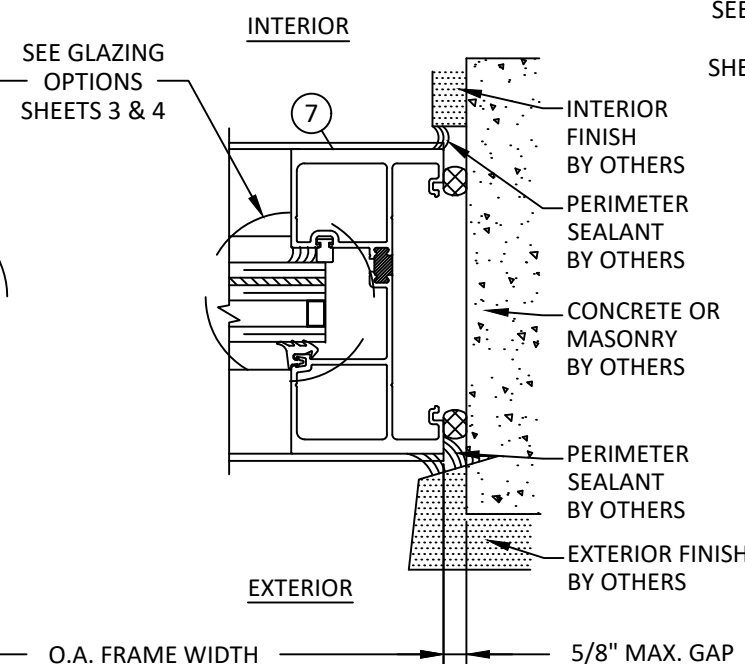
**I** **HORIZONTAL SECTION**  
**11** VERTICAL EXPANSION MULLION



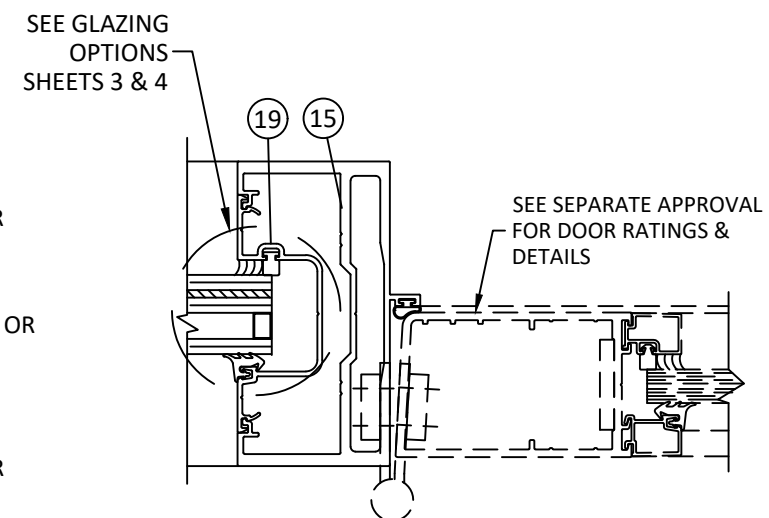
**J** **HORIZONTAL SECTION**  
**11** JAMB - CONCRETE/MASONRY W/ 1X BUCK  
HEAVY CONFIGURATION



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



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



**M** **HORIZONTAL SECTION**  
**11** DOOR JAMB MULLION



YKK AP AMERICA, INC.  
101 MARIETTA STREET NW, SUITE 2100  
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TITLE: YHS 50 TU ALUMINUM STOREFRONT  
SYSTEM - OUTSIDE GLAZED  
(WZ3) (IMPACT)

HORIZONTAL SECTIONS

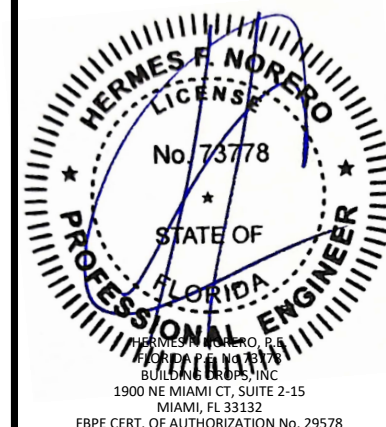
PREPARED BY: BUILDING DROPS, INC.

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FAX: (954) 744-4738  
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| REMARKS         | BY | DATE     |
|-----------------|----|----------|
| FBC CODE UPDATE | RV | 07.12.17 |
| MISC. UPDATES   | SH | 12.15.22 |
| PROFILE UPDATE  | SH | 07.03.24 |
| ANCHOR UPDATE   | SH | 02.11.26 |

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AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC  
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FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED  
ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC  
DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL #:

**FL14218**

DATE: **01.28.16**

DWG. BY:  
**SM**

CHK. BY:  
**HFN**

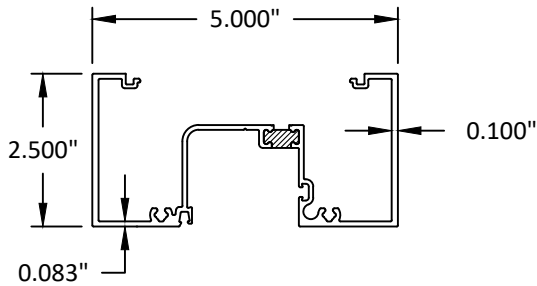
SCALE: **NTS**

DWG. #: **YKK166**

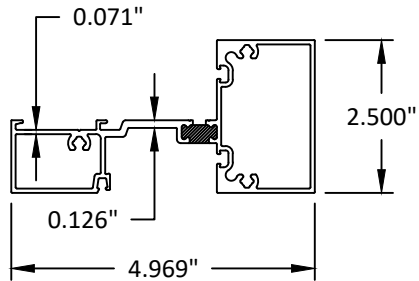
SHEET:

**11**

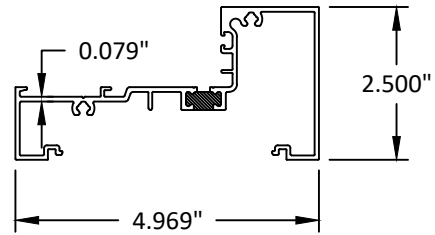
| ITEM | PART NO. | DESCRIPTION                             | MATERIAL          |
|------|----------|-----------------------------------------|-------------------|
| 1    | BE9-0681 | HEAD / JAMB / VERTICAL                  | 6063-T5           |
| 2    | BE9-0683 | HORIZONTAL                              | 6063-T5           |
| 3    | BE9-0682 | SILL                                    | 6063-T5           |
| 4    | E1-1060  | ANCHOR FILLER                           | 6063-T5           |
| 5    | BE9-0687 | SILL FLASHING                           | 6063-T5           |
| 6    | BE9-0655 | SHALLOW POCKET FILLER                   | 6063-T5           |
| 7    | BE9-0684 | HEAVY DUTY VERTICAL                     | 6063-T5           |
| 8    | E9-0658  | GLASS STOP                              | 6063-T5           |
| 9    | E2-0083  | EXTERIOR GLAZING GASKET                 | EPDM              |
| 10   | E2-0088  | INTERIOR GLAZING GASKET                 | EPDM              |
| 11   | E2-0095  | SETTING BLOCK                           | EPDM (85±5)       |
| 12   | E2-0096  | SIDE BLOCK                              | EPDM              |
| 13   | PC-1220  | #12 x 1-1/4" PHSMS Type AB              | ZINC PLATED STEEL |
| 14   | PC-1424  | #14 x 1-1/2" PHSMS Type AB              | ZINC PLATED STEEL |
| 15   | E9-0504  | DOOR JAMB O/P                           | 6063-T6           |
| 16   | E2-0084  | INTERIOR SILICONE SPACER                | SILICONE          |
| 17   | BE9-0634 | EXPANSION MULLION (MALE)                | 6063-T5           |
| 18   | BE9-0635 | EXPANSION MULLION (FEMALE)              | 6063-T5           |
| 19   | E9-0656  | DEEP POCKET FILLER                      | 6063-T5           |
| 20   | E2-0065  | WEATHERING GASKET                       | EPDM              |
| 21   | E1-1062  | STEEL CHANNEL (1-1/2" X 4-1/2" X 3/16") | A36 STEEL         |
| 22   | BY7-8506 | 5" HORIZONTAL                           | 6063-T5           |



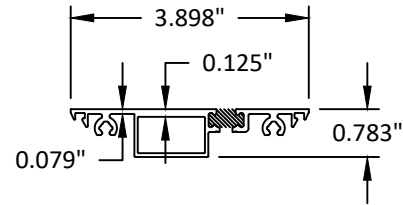
1 HEAD/JAMB/VERTICAL



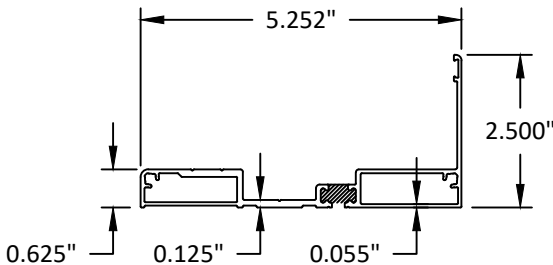
2 HORIZONTAL



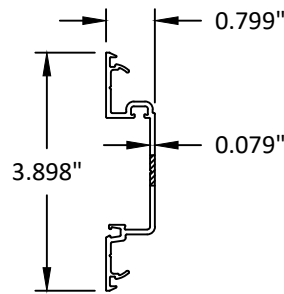
3 SILL



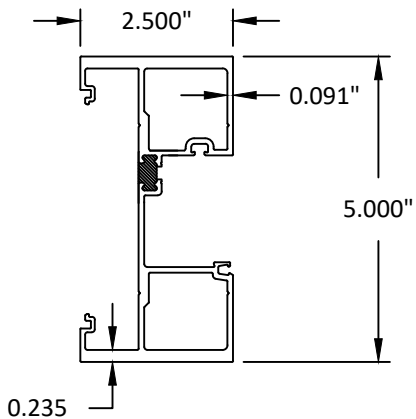
4 ANCHOR FILLER



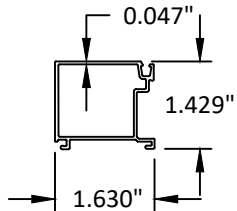
5 SILL FLASHING



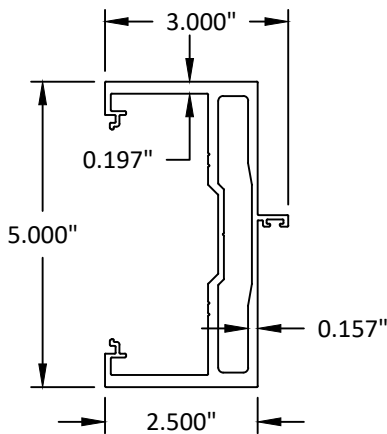
6 SHALLOW POCKET FILLER



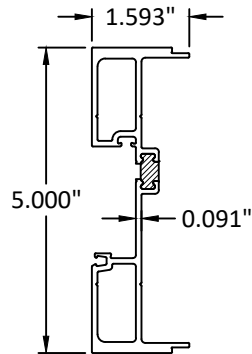
7 HEAVY DUTY VERTICAL



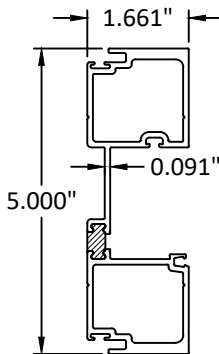
8 GLAZING STOP



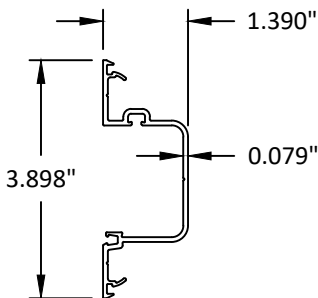
15 DOOR MULLION O/P



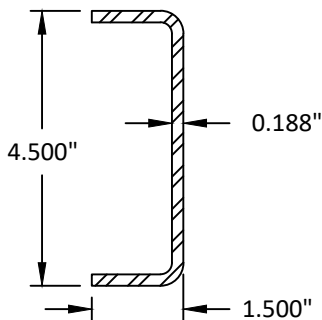
17 EXPANSION MULLION (MALE)



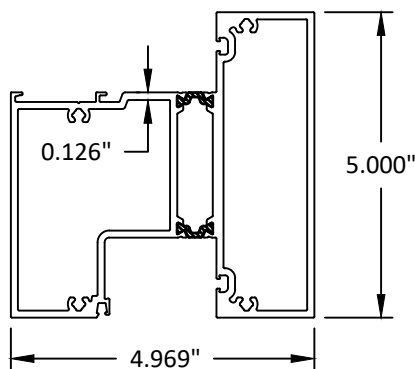
18 EXPANSION MULLION (FEMALE)



19 DEEP POCKET FILLER



21 DOOR MULLION REINFORCEMENT



22 5" HORIZONTAL



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

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

COMPONENTS & BILL OF MATERIALS

PREPARED BY:

BUILDING DROPS, INC.

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

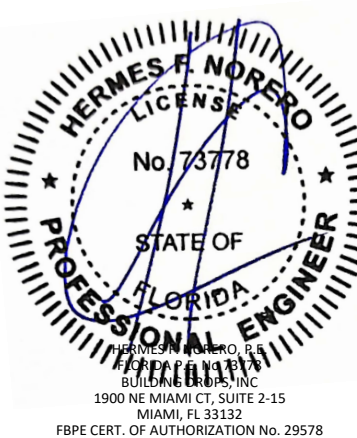
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|          |          |
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| FL #:    | FL14218  |
| DATE:    | 01.28.16 |
| DWG. BY: | CHK. BY: |
| SM       | HFN      |
| SCALE:   | NTS      |
| DWG. #:  | YKK166   |
| SHEET:   |          |

12