

# YKK AP AMERICA INC.

## YOW 350 THERMAL ALUMINUM MULLION

### (WZ3)(IMPACT)

INSTALLATION NOTES:

1.

THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
2.

INSTALL INDIVIDUAL ANCHORS WITHIN A TOLERANCE OF +/-½ INCH OF THE DEPICTED LOCATION AS SPECIFIED. TOLERANCES ARE NOT CONSIDERED CUMULATIVE FROM ONE LOCATION TO THE NEXT.
3.

FOR MULLION CLIP: USE TWO (2) #14 WOOD SCREWS PER CLIP (FOUR PER MULLION END), OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1 1/2" INTO WOOD FRAMING. INSTALLATION SHALL MAINTAIN A MINIMUM EDGE DISTANCE OF 3/4" (SEE INSTALLATION DETAILS ON SHEET 2).
4.

FOR MULLION CLIP: USE ONE (1) 1/4" ITW TAPCON PER MULLION PER CLIP (TWO PER MULLION END) OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1 1/4" INTO CONCRETE OR MASONRY. INSTALLATION SHALL MAINTAIN A MINIMUM EDGE DISTANCE OF 2 1/2" (SEE INSTALLATION DETAILS ON SHEET 2).
5.

FOR MULLION CLIP: USE TWO (2) 1/4-20 MIN. GR. 5 SELF-DRILLING OR SELF-TAPPING SCREWS PER CLIP (FOUR PER MULLION END) OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 3 THREADS PENETRATION BEYOND METAL SUBSTRATE. (SEE INSTALLATION DETAILS ON SHEET 2).
3.

FOR ADJACENT WINDOWS: USE #14 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1 1/2" INTO WOOD FRAMING. INSTALLATION SHALL MAINTAIN A MINIMUM EDGE DISTANCE OF 3/4" (SEE INSTALLATION DETAILS ON SHEET 3).
4.

FOR ADJACENT WINDOWS: USE 1/4" ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1 1/4" INTO CONCRETE OR MASONRY. INSTALLATION SHALL MAINTAIN A MINIMUM EDGE DISTANCE OF 2 1/2" (SEE INSTALLATION DETAILS ON SHEET 3).
5.

FOR ADJACENT WINDOWS: USE 1/4-20 MIN. GR. 5 SELF-DRILLING OR SELF-TAPPING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 3 THREADS PENETRATION BEYOND METAL SUBSTRATE. (SEE INSTALLATION DETAILS ON SHEET 3).
6.

INSTALLATION ANCHORS THROUGH MULLION CLIPS AND THROUGH ADJACENT WINDOWS SHALL BE USED SIMULTANEOUSLY. SHOULD SEPARATE WINDOW APPROVAL REQUIRE MORE FASTENERS THAN SHOWN HEREIN AT EA. END OF MULL, SEPARATE WINDOW APPROVAL SHALL GOVERN QUANTITY.
7.

MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK, VENEER, AND SIDING.
9.

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

• FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).

• CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).

10.

INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.

B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

C. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. (0.0478") WALL THICKNESS.

D. ALUMINUM - ALLOY SHALL BE MIN. 6063-T5 MINIMUM (0.125") WALL THICKNESS.
- GENERAL NOTES:
1.

THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FBC, EXCLUDING HVHZ, AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:

• AAMA/WDMA/CSA 101/I.S.2/A440-22

• FBC SECTION 1709.8

2.

APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED ON THIS PRODUCT IN WIND BORNE DEBRIS REGIONS ZONE 3 OR LESS SUCH THAT ADJOINING WINDOWS ARE EQUALLY IMPACT RATED.

3.

APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGION ZONE 4.

4.

2X WOOD BUCKS AND METAL STUDS TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE AND IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.

5.

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 IN NON-HVHZ AREAS.

6.

THIS MULLION IS ONLY VALID WHEN USED IN CONJUNCTION WITH APPLICABLE YKK AP AMERICA PRODUCTS. QUALIFIED CONFIGURATIONS INCLUDE BUT NOT LIMITED TO, FIXED-FIXED, FIXED-OPERABLE, & OPERABLE-OPERABLE CONFIGURATIONS OF CASEMENT, PROJECT OUT, AND FIXED WINDOW PRODUCTS.

7.

ALL WINDOWS USED WITH THIS MULLION SHALL BE QUALIFIED UNDER SEPARATE APPROVAL. THE LESSER DESIGN PRESSURE RATING OF THE WINDOW OR THE MULLION OF INSTALLATION SHALL GOVERN THE OVERALL DESIGN PRESSURE OF THE ASSEMBLY.

8.

MULLION MATERIAL: 6063-T5 ALUMINUM.

9.

CLIP MATERIAL: 6063-T5 ALUMINUM.

10.

DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED IN ACCORDANCE WITH THE FBC.
- | TABLE OF CONTENTS |                                         |
|-------------------|-----------------------------------------|
| SHEET             | SHEET DESCRIPTION                       |
| 1                 | ELEVATION, INSTALLATION & GENERAL NOTES |
| 2                 | WINDOW DETAILS                          |
| 3                 | MULLION DETAILS                         |
| 4                 | DESIGN PRESSURE TABLES                  |
| 5                 | COMPONENTS                              |
| 6                 | BILL OF MATERIALS                       |
- | DESIGN PRESSURE TABLE |             |               |
|-----------------------|-------------|---------------|
| MAX. SIZE             | MAX. DP     | IMPACT RATING |
| SEE SHEET 4           | SEE SHEET 4 | LMI & SMI     |
- 
- YKK AP AMERICA  
101 MARIETTA STREET NW, SUITE 2100  
ATLANTA, GA 30303  
PH: (478)277-1955 FAX: (678)838-6001
- TITLE:  
YOW 350  
THERMAL ALUMINUM MULLION

ELEVATION  
INSTALLATION & GENERAL NOTES

PREPARED BY:  
BUILDING DROPS, INC.  
1900 NE MIAMI COURT, STE. 2-15  
MIAMI, FL 33132  
PH: (954)399-8478  
FAX: (954)744-4738  
WEB: www.buildingdrops.com
- | REMARKS         | BY | DATE     |
|-----------------|----|----------|
| 2026 FBC UPDATE | SH | 07.24.26 |
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- Digitally signed by Hermes F. Norero, P.E.  
Reason: I am approving this document  
Date: 2026.08.10 16:08:40 -04'00'
- 
- FL #:  
**FL19017**

DATE:  
**08.10.17**

DWG. BY:  
**RV**

CHK. BY:  
**HFN**

SCALE:  
**NTS**

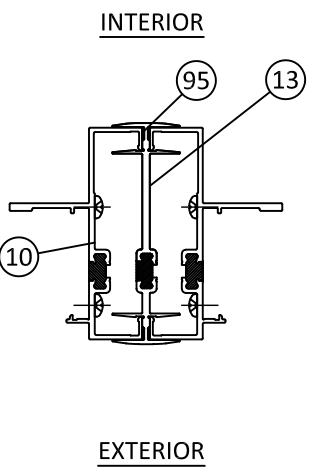
DWG. #:  
**YKK215**

SHEET:  
**1**

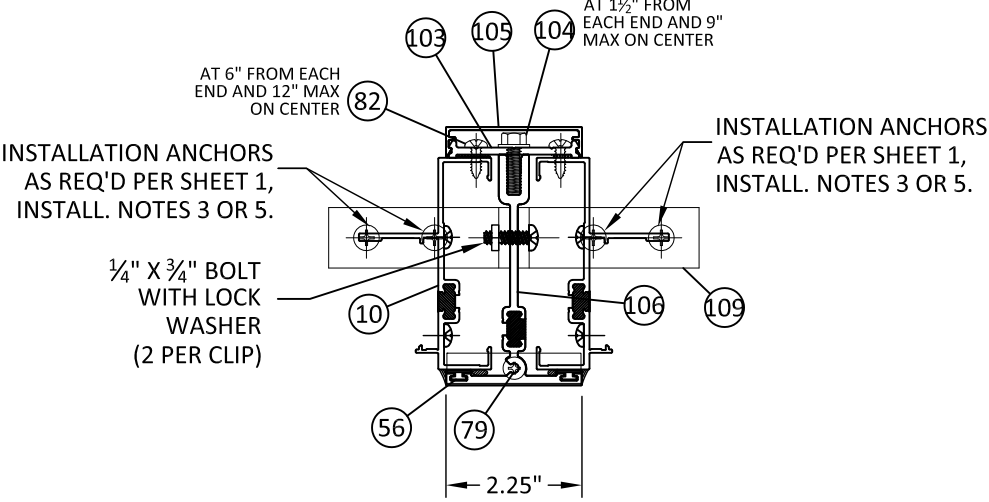
REV.  
**A**

OF 6

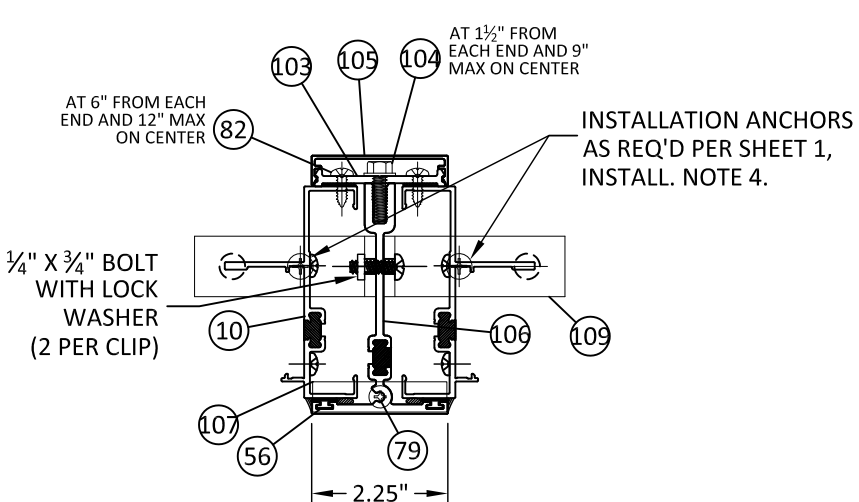
NOTE: ZERO MULL DOES NOT REQUIRE MULL CLIPS AT APPROVED SIZES AND PRESSURES.



**A**  
**2** HORIZONTAL SECTION  
ZERO MULLION - TYP.  
FIXED - FIXED

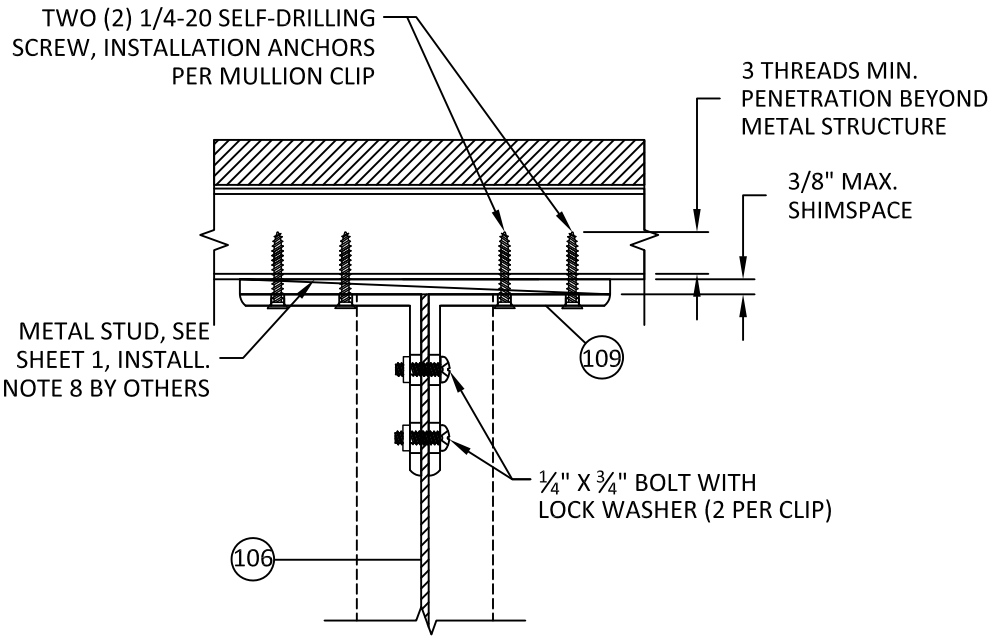


**B**  
**2** HORIZONTAL SECTION  
STACK MULLION - TYP.  
INSTALL TO WOOD/METAL FRAME

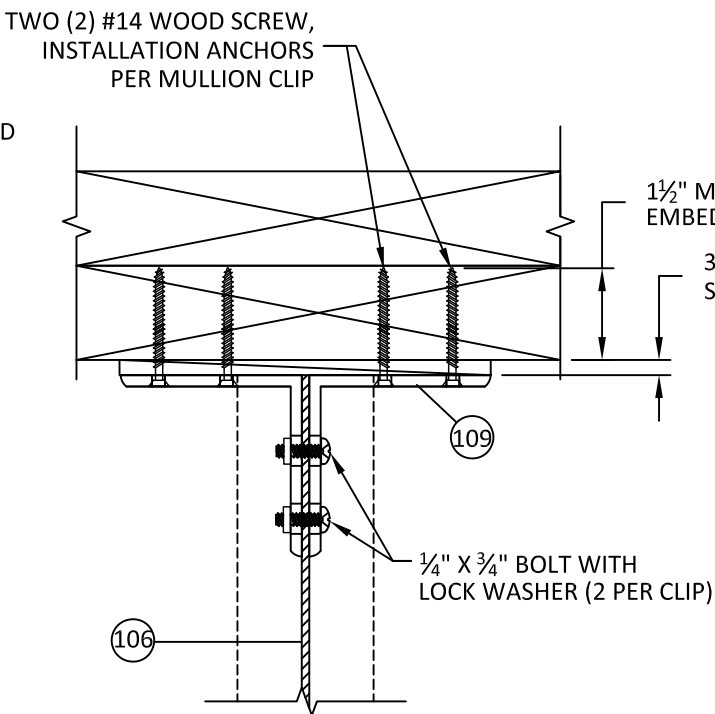


**C**  
**2** HORIZONTAL SECTION  
STACK MULLION - TYP.  
INSTALL TO CONCRETE/MASONRY

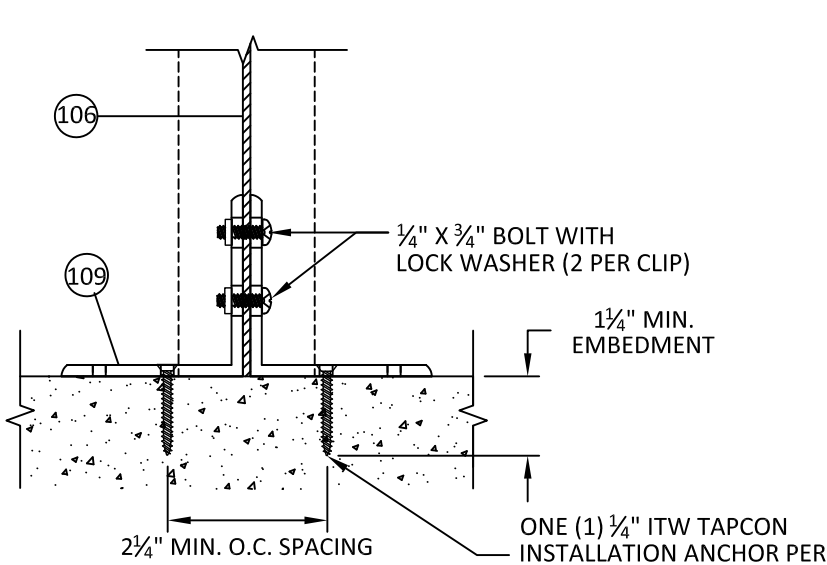
- NOTES:
- MULLIONS MAY BE INSTALLED SUCH THAT TUBE IS ORIENTED TO INTERIOR OR EXTERIOR.
  - MULLS TO BE USED WITH YKK WINDOW SYSTEMS WITH 3 1/2" DEPTH UNDER SEPARATE APPROVAL.
  - OUTSWING FRAME TYPE DETAILS SHOWN, MULLIONS MAY BE USED WITH INSWING FRAME TYPES WHERE IMPACT RESISTANCE IS NOT REQUIRED. SEE SEPARATE WINDOW APPROVALS FOR DETAILS.



**D**  
**2** FRONT VIEW  
HEAD - METAL STUD  
MULLION CLIP



**E**  
**2** FRONT VIEW  
HEAD - 2X WOOD  
MULLION CLIP



**F**  
**2** FRONT VIEW  
SILL - CONCRETE/MASONRY  
MULLION CLIP



YKK AP AMERICA  
101 MARIETTA STREET NW, SUITE 2100  
ATLANTA, GA 30303  
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YOW 350  
THERMAL ALUMINUM MULLION

MULLION DETAILS

PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15  
MIAMI, FL 33132  
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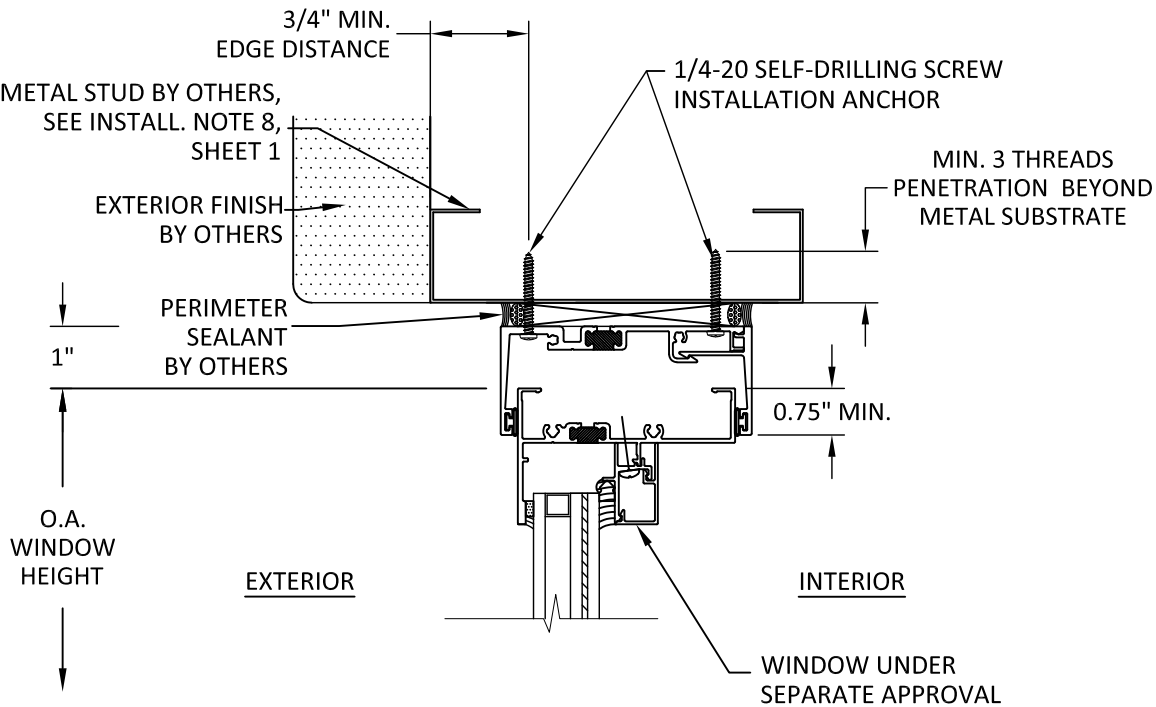
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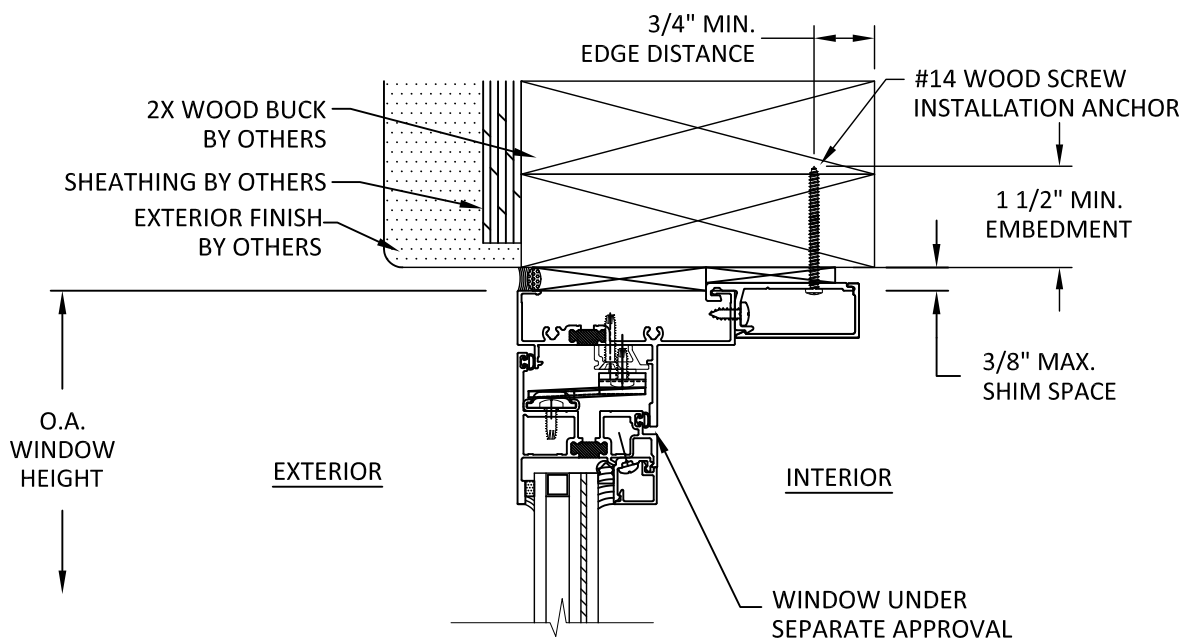
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| FL #:    | FL19017  |
| DATE:    | 08.10.17 |
| DWG. BY: | RV       |
| CHK. BY: | HFN      |
| SCALE:   | NTS      |
| DWG. #:  | YKK215   |
| SHEET:   | 2        |
| REV.     | A        |
| OF       | 6        |

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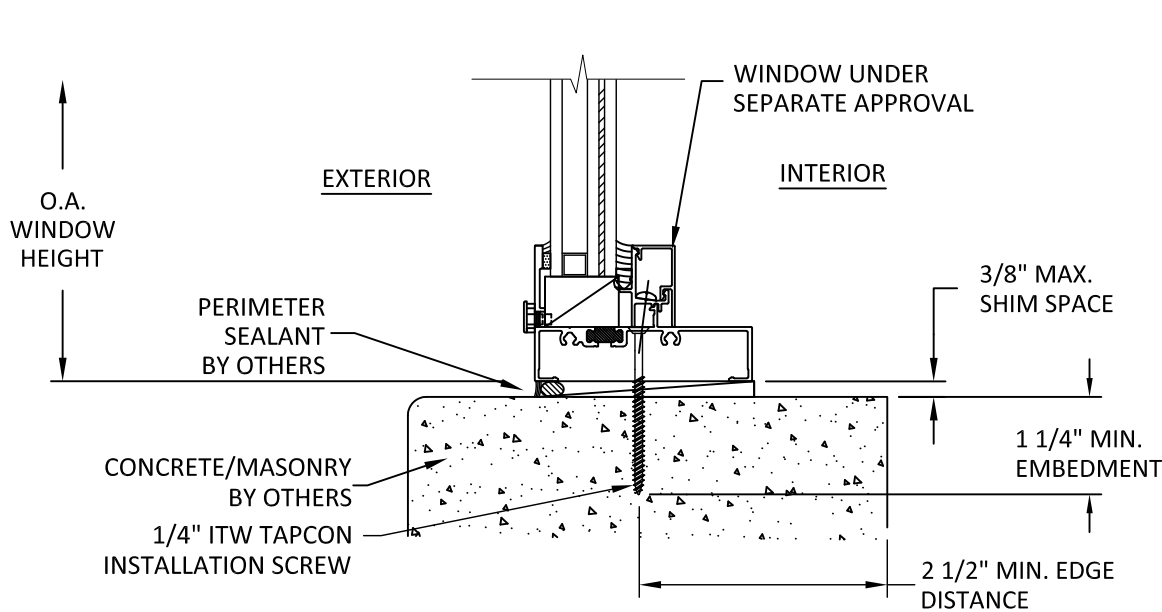


**G**  
**3** **VERTICAL SECTION**  
FIXED HEAD - STEEL STUD  
INT. SET RECEPTOR - TYP.

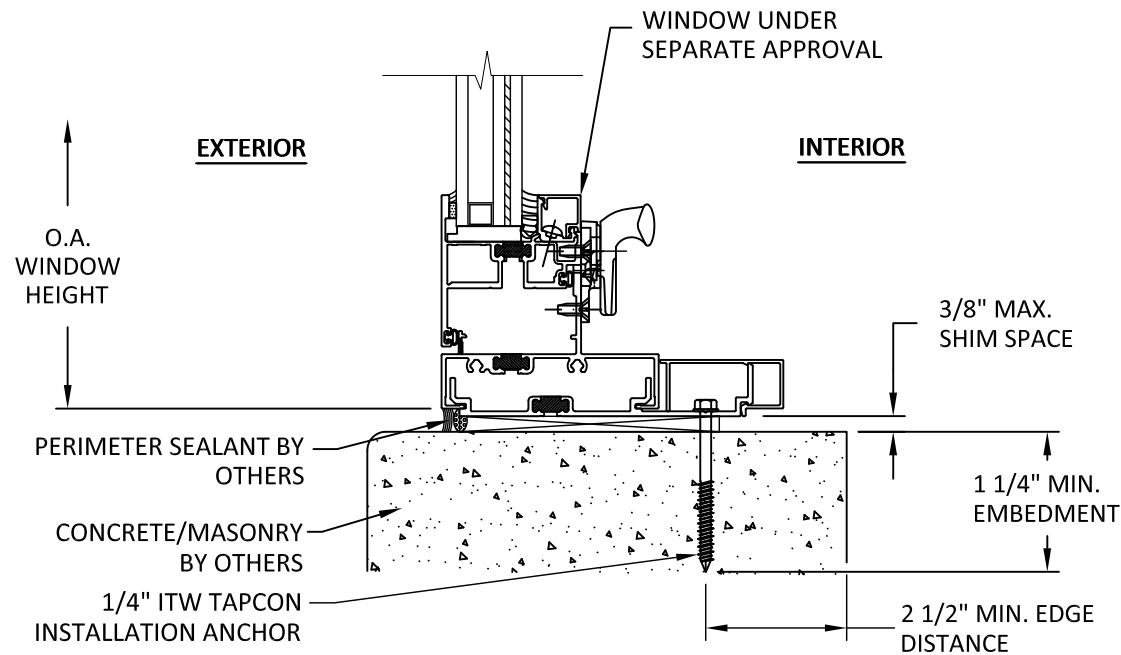
NOTE: SEE SEPARATE WINDOW  
APPROVALS FOR FULL DETAILS OF  
INSTALLATION REQUIREMENTS  
AND OPTIONS.



**H**  
**3** **VERTICAL SECTION**  
CASEMENT HEAD - 2X WOOD FRAME  
CLIP ANCHOR - TYP.



**I**  
**3** **VERTICAL SECTION**  
FIXED SILL - CONCRETE/MASONRY  
THROUGH FRAME - TYP.



**J**  
**3** **VERTICAL SECTION**  
PROJECT OUT SILL - CONCRETE/MASONRY  
STRAP ANCHOR - TYP.

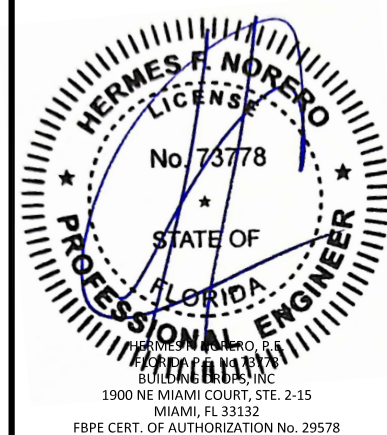


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TITLE: YOW 350  
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| DWG. BY: | RV       |
| CHK. BY: | HFN      |
| SCALE:   | NTS      |
| DWG. #:  | YKK215   |
| SHEET:   | 3        |
| REV.     | A        |
|          | OF 6     |

DESIGN PRESSURE TABLE - ZERO MULLION

| MULLION DESIGN LOAD CAPACITY - PSF |              |          |          | MULLION DESIGN LOAD CAPACITY - PSF |              |          |          |
|------------------------------------|--------------|----------|----------|------------------------------------|--------------|----------|----------|
| NOMINAL DIMS.                      |              | DP       |          | NOMINAL DIMS.                      |              | DP       |          |
| WIDTH (W)                          | FRAME HEIGHT | EXT. (+) | INT. (-) | WIDTH (W)                          | FRAME HEIGHT | EXT. (+) | INT. (-) |
| 24                                 | 60           | 65.0     | 75.0     | 24                                 | 80.375       | 65.0     | 75.0     |
| 30                                 |              | 65.0     | 75.0     | 30                                 |              | 65.0     | 75.0     |
| 36                                 |              | 65.0     | 75.0     | 36                                 |              | 65.0     | 75.0     |
| 42                                 |              | 65.0     | 75.0     | 42                                 |              | 65.0     | 75.0     |
| 48                                 |              | 65.0     | 75.0     | 48                                 |              | 65.0     | 75.0     |
| 54                                 |              | 65.0     | 75.0     | 51                                 |              | 65.0     | 75.0     |
| 60                                 |              | 65.0     | 75.0     | 24                                 | 84           | 65.0     | 75.0     |
| 66                                 |              | 65.0     | 75.0     | 30                                 |              | 65.0     | 75.0     |
| 68                                 |              | 65.0     | 75.0     | 36                                 |              | 65.0     | 75.0     |
| 24                                 | 66           | 65.0     | 75.0     | 42                                 |              | 65.0     | 75.0     |
| 30                                 |              | 65.0     | 75.0     | 48                                 |              | 60.5     | 69.8     |
| 36                                 |              | 65.0     | 75.0     | 24                                 | 90           | 65.0     | 75.0     |
| 42                                 |              | 65.0     | 75.0     | 30                                 |              | 65.0     | 75.0     |
| 48                                 |              | 65.0     | 75.0     | 36                                 |              | 65.0     | 75.0     |
| 54                                 |              | 65.0     | 75.0     | 42                                 |              | 56.2     | 64.9     |
| 60                                 |              | 65.0     | 75.0     | 45                                 |              | 52.5     | 60.5     |
| 62                                 |              | 65.0     | 75.0     | 24                                 | 96           | 65.0     | 75.0     |
| 24                                 | 72           | 65.0     | 75.0     | 30                                 |              | 64.9     | 74.8     |
| 30                                 |              | 65.0     | 75.0     | 36                                 |              | 54.0     | 62.4     |
| 36                                 |              | 65.0     | 75.0     | 42                                 |              | 46.3     | 53.4     |
| 42                                 |              | 65.0     | 75.0     | 24                                 | 102          | 65.0     | 75.0     |
| 48                                 |              | 65.0     | 75.0     | 30                                 |              | 54.1     | 62.4     |
| 54                                 |              | 65.0     | 75.0     | 36                                 |              | 45.1     | 52.0     |
| 56                                 |              | 65.0     | 75.0     | 40                                 |              | 40.5     | 46.8     |
| 24                                 | 78           | 65.0     | 75.0     | 24                                 | 108          | 56.9     | 65.7     |
| 30                                 |              | 65.0     | 75.0     | 30                                 |              | 45.5     | 52.6     |
| 36                                 |              | 65.0     | 75.0     | 37                                 |              | 36.9     | 42.6     |
| 42                                 |              | 65.0     | 75.0     | 24                                 | 114          | 48.4     | 55.9     |
| 48                                 |              | 65.0     | 75.0     | 30                                 |              | 38.7     | 44.7     |
| 48                                 |              | 65.0     | 75.0     | 35                                 |              | 33.2     | 38.3     |
| 52                                 |              | 65.0     | 75.0     | 24                                 | 120          | 41.5     | 47.9     |
|                                    |              |          |          | 30                                 |              | 33.2     | 38.3     |
|                                    |              |          |          | 34                                 |              | 29.3     | 33.8     |

NOTES:

1. THE DESIGN PRESSURES IN THIS CHART ARE FOR THE MULLIONS LISTED ABOVE WHEN USED WITH THE APPLICABLE MULLION CLIPS (NOT REQUIRED FOR ZERO MULL). WINDOWS JOINED THROUGH USE OF THE MULLION DESCRIBED HEREIN ARE UNDER SEPARATE APPROVAL.
2. DESIGN PRESSURES APPLY TO INSTALLATIONS IN WHICH STACK MULLIONS ARE CLIPPED AS SHOWN ON SHEET 2 AND ADJACENT WINDOWS ARE INSTALLED AS SHOWN IN TYPICAL INSTALLATION DETAILS ON SHEET 3 (SEE SHEET 1 FOR REQUIRED QUANTITIES). ZERO MULLION DOES NOT REQUIRE CLIPS, ADJACENT WINDOWS SHALL BE INSTALLED WITH ANCHOR CLUSTERS ON EACH SIDE OF MULLION AS SHOW IN ELEVATION, SHEET 1, AND IN TYPICAL INSTALLATION DETAILS ON SHEET 3.
3. INSTALLATION ANCHORS THROUGH MULLION CLIPS (STACK MULL ONLY) AND THROUGH ADJACENT WINDOWS SHALL BE USED SIMULTANEOUSLY. SHOULD SEPARATE WINDOW APPROVAL REQUIRE MORE FASTENERS THAN SHOWN HEREIN AT EA. END OF MULL, SEPARATE WINDOW APPROVAL SHALL GOVERN QUANTITY.
4. DESIGN PRESSURES HAVE BEEN DETERMINED IN ACCORDANCE WITH FBC SECTION 1709.8
5. READ WINDOW WIDTH AND MULL SPAN IN INCHES. DESIGN PRESSURE VALUES ON THIS CHART ARE POSITIVE AND NEGATIVE POUNDS PER SQUARE FOOT (PSF).
6. TRIBUTARY WIDTH IS DETERMINED BY THE FOLLOWING (REFER TO ELEVATION, SHEET 1):

6.1. TRIBUTARY WIDTH = (A+B)/2
7. DESIGN PRESSURE VALUES APPLY TO MULLION WHERE TWO OR MORE WINDOWS ARE LISTED IN A SINGLE OPENING. LESSER DESIGN PRESSURE OF INDIVIDUAL WINDOW OR MULLION OF INSTALLATION SHALL GOVERN. ALL WINDOWS ADJACENT TO MULLIONS SHALL UTILIZE CONTINUOUS FRAMES.

DESIGN PRESSURE TABLE - STACK MULLION

| MULLION DESIGN LOAD CAPACITY - PSF |              |          |          | MULLION DESIGN LOAD CAPACITY - PSF |              |          |          |
|------------------------------------|--------------|----------|----------|------------------------------------|--------------|----------|----------|
| NOMINAL DIMS.                      |              | DP       |          | NOMINAL DIMS.                      |              | DP       |          |
| WIDTH (W)                          | FRAME HEIGHT | EXT. (+) | INT. (-) | WIDTH (W)                          | FRAME HEIGHT | EXT. (+) | INT. (-) |
| 60                                 | 66           | 75.0     | 75.0     | 42                                 | 93.125       | 75.0     | 75.0     |
| 66                                 |              | 75.0     | 75.0     | 44                                 |              | 75.0     | 75.0     |
| 72                                 |              | 75.0     | 75.0     | 48                                 |              | 75.0     | 75.0     |
| 78                                 |              | 75.0     | 75.0     | 54                                 |              | 73.2     | 73.2     |
| 48                                 | 72           | 75.0     | 75.0     | 60                                 |              | 65.9     | 65.9     |
| 54                                 |              | 75.0     | 75.0     | 62                                 |              | 63.7     | 63.7     |
| 60                                 |              | 75.0     | 75.0     | 42                                 | 96           | 75.0     | 75.0     |
| 66                                 |              | 75.0     | 75.0     | 48                                 |              | 75.0     | 75.0     |
| 72                                 |              | 75.0     | 75.0     | 54                                 |              | 68.9     | 68.9     |
| 78                                 |              | 75.0     | 75.0     | 60                                 |              | 62.0     | 62.0     |
| 42                                 | 76           | 75.0     | 75.0     | 61                                 |              | 61.0     | 61.0     |
| 48                                 |              | 75.0     | 75.0     | 40                                 | 99           | 75.0     | 75.0     |
| 54                                 |              | 75.0     | 75.0     | 42                                 |              | 75.0     | 75.0     |
| 60                                 |              | 75.0     | 75.0     | 48                                 |              | 72.8     | 72.8     |
| 66                                 |              | 75.0     | 75.0     | 54                                 |              | 64.7     | 64.7     |
| 72                                 |              | 75.0     | 75.0     | 60                                 | 102          | 58.3     | 58.3     |
| 78                                 |              | 75.0     | 75.0     | 36                                 |              | 75.0     | 75.0     |
| 42                                 | 80.375       | 75.0     | 75.0     | 42                                 |              | 75.0     | 75.0     |
| 48                                 |              | 75.0     | 75.0     | 48                                 |              | 68.6     | 68.6     |
| 54                                 |              | 75.0     | 75.0     | 54                                 |              | 61.0     | 61.0     |
| 60                                 |              | 75.0     | 75.0     | 58                                 |              | 56.8     | 56.8     |
| 66                                 |              | 75.0     | 75.0     | 36                                 | 108          | 75.0     | 75.0     |
| 72                                 |              | 73.7     | 73.7     | 42                                 |              | 69.9     | 69.9     |
| 78                                 |              | 68.0     | 68.0     | 48                                 |              | 61.2     | 61.2     |
| 44                                 | 84           | 75.0     | 75.0     | 54                                 |              | 54.4     | 54.4     |
| 48                                 |              | 75.0     | 75.0     | 55                                 | 114          | 53.4     | 53.4     |
| 54                                 |              | 75.0     | 75.0     | 30                                 |              | 75.0     | 75.0     |
| 60                                 |              | 75.0     | 75.0     | 36                                 |              | 72.2     | 72.2     |
| 66                                 |              | 73.6     | 73.6     | 42                                 |              | 61.9     | 61.9     |
| 70                                 |              | 69.4     | 69.4     | 48                                 | 120          | 54.2     | 54.2     |
| 42                                 | 90           | 75.0     | 75.0     | 52                                 |              | 50.0     | 50.0     |
| 44                                 |              | 75.0     | 75.0     | 30                                 |              | 74.3     | 74.3     |
| 48                                 |              | 75.0     | 75.0     | 36                                 |              | 61.9     | 61.9     |
| 54                                 |              | 75.0     | 75.0     | 42                                 |              | 53.1     | 53.1     |
| 60                                 |              | 70.5     | 70.5     | 48                                 |              | 46.4     | 46.4     |
| 66                                 |              | 64.1     | 64.1     | 49.5                               |              | 45.0     | 45.0     |



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ATLANTA, GA 30303  
PH: (478)277-1955 FAX: (678)838-6001

TITLE:

YOW 350

THERMAL ALUMINUM MULLION

DESIGN PRESSURE TABLES

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15  
MIAMI, FL 33132  
PH: (954)399-8478  
FAX: (954)744-4738  
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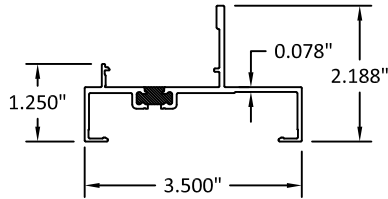
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| REMARKS                                                                                                                                                                                                                                                                         | BY       | DATE     |
| 2026 FBC UPDATE                                                                                                                                                                                                                                                                 | SH       | 07.24.26 |
|                                                                                                                                                                                                                                                                                 |          |          |
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| FL #:                                                                                                                                                                                                                                                                           |          |          |
| FL19017                                                                                                                                                                                                                                                                         |          |          |
| DATE: 08.10.17                                                                                                                                                                                                                                                                  |          |          |
| DWG. BY:                                                                                                                                                                                                                                                                        | CHK. BY: |          |
| RV                                                                                                                                                                                                                                                                              | HFN      |          |
| SCALE: NTS                                                                                                                                                                                                                                                                      |          |          |
| DWG. #: YKK215                                                                                                                                                                                                                                                                  |          |          |
| SHEET:                                                                                                                                                                                                                                                                          |          | REV.     |
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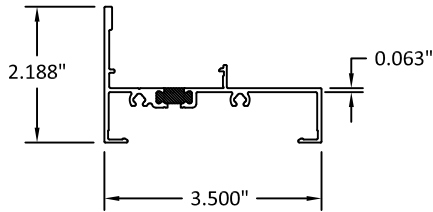
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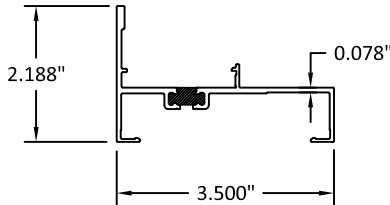
10 OUTSWING JAMB FRAME  
6063-T5



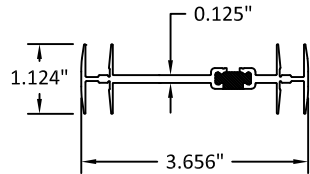
11 INSWING HEAD/SILL FRAME  
6063-T5



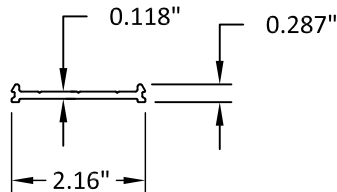
12 INSWING JAMB FRAME  
6063-T5



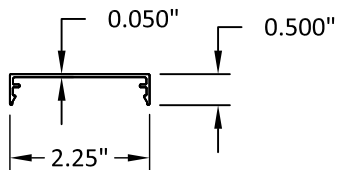
13 ZERO MULLION  
6063-T5



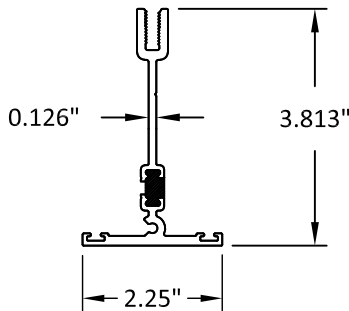
103 PRESSURE PLATE  
6063-T5



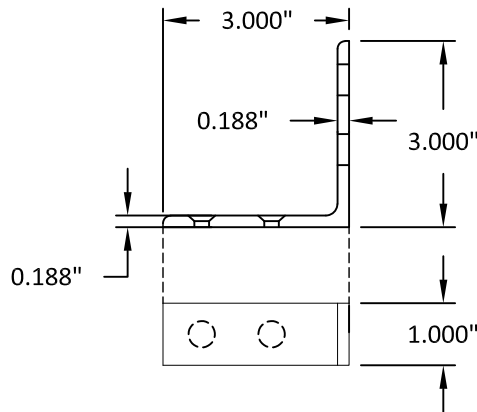
105 SNAP COVER  
6063-T5



106 STACK MULLION  
6063-T5



109 MULL CLIP  
6063-T5



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THERMAL ALUMINUM MULLION

COMPONENTS

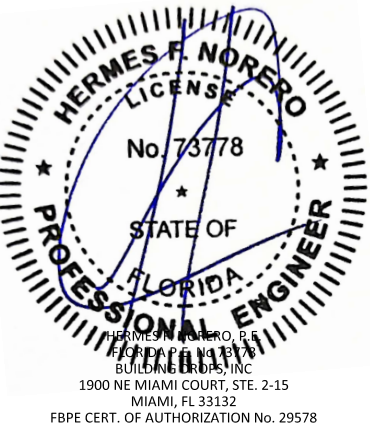
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| 2026 FBC UPDATE | SH | 07.24.26 |
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| DATE:    | 08.10.17 |
| DWG. BY: | CHK. BY: |
| RV       | HFN      |
| SCALE:   | NTS      |
| DWG. #:  | YKK215   |
| SHEET:   | REV.     |
| 5        | A        |
| OF 6     |          |

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| YOW350TU - BILL OF MATERIAL |              |                                              |                    |                       |
|-----------------------------|--------------|----------------------------------------------|--------------------|-----------------------|
| ITEM #                      | PART#        | DESCRIPTION                                  | MATERIAL           | MANUFACTURER          |
| 1                           | BE9-4510     | MULLION                                      | 6063-T5            | YKK AP                |
| 2                           | BE9-4512     | MULLION                                      | 6063-T5            | YKK AP                |
| 3                           | BE9-4534     | OUT SWING VENT                               | 6063-T5            | YKK AP                |
| 4                           | BE9-4535     | IN SWING VENT                                | 6063-T5            | YKK AP                |
| 5                           | BE9-4560     | VENT/FIX MULLION                             | 6063-T5            | YKK AP                |
| 6                           | BE9-4561     | VENT/VENT MULLION                            | 6063-T5            | YKK AP                |
| 7                           | BE9-4581     | 3 1/2" RECEPTOR                              | 6063-T5            | YKK AP                |
| 8                           | BE9-4927     | SILL FLASHING                                | 6063-T5            | YKK AP                |
| 9                           | BE9-5201     | OUT SWING HORIZONTAL FRAME                   | 6063-T5            | YKK AP                |
| 10                          | BE9-5202     | OUT SWING JAMB                               | 6063-T5            | YKK AP                |
| 11                          | BE9-5203     | IN SWING HORIZONTAL FRAME                    | 6063-T5            | YKK AP                |
| 12                          | BE9-5204     | IN SWING JAMB                                | 6063-T5            | YKK AP                |
| 13                          | BE9-5220     | ZERO MULLION                                 | 6063-T5            | YKK AP                |
| 14                          | E9-4031      | TRIM CLIP                                    | 6063-T5            | YKK AP                |
| 14A                         | E9-4031      | TRIM CLIP COVER                              | 6063-T5            | YKK AP                |
| 15                          | E9-4506      | GLASS STOP - WEDGE GASKET                    | 6063-T5            | YKK AP                |
| 16                          | E9-4507      | GLASS STOP - WEDGE GASKET                    | E2-0635            | YKK AP                |
| 17                          | E9-4508      | GLASS STOP - WEDGE GASKET                    | 6063-T5            | YKK AP                |
| 18                          | E9-4513      | FRAME ATTACHMENT                             | 6063-T5            | YKK AP                |
| 19                          | E9-4578      | RECEPTOR COVER                               | 6063-T5            | YKK AP                |
| 20                          | E9-4593      | BASE                                         | 6063-T5            | YKK AP                |
| 21                          | E9-5218      | GLASS STOP - PRESET GASKET                   | 6063-T5            | YKK AP                |
| 22                          | E9-5219      | GLASS STOP WITH PULL - PRESET GASKET         | 6063-T5            | YKK AP                |
| 23                          |              |                                              |                    |                       |
| 24A                         | 4K-14207     | 4 BAR HINGE - 12" - (CASEMENT & PROJECT OUT) | STAINLESS STEEL    | YKK AP                |
| 24B                         | 4K-14208     | 4 BAR HINGE - 16" - (CASEMENT)               | STAINLESS STEEL    | YKK AP                |
| 24C                         | 5K-15284     | 4 BAR HINGE - 16" - (PROJECT OUT)            | STAINLESS STEEL    | YKK AP                |
| 25                          | E1-1503      | CAM HANDLE (L) - INSWING                     | WHITE BRONZE       | BRONZECRAFT OR EQUAL  |
| 26                          | E1-1504      | CAM HANDLE(R)- INSWING                       | WHITE BRONZE       | BRONZECRAFT OR EQUAL  |
| 27                          | E1-1505      | MPL LOCK HANDLE                              | WHITE BRONZE       | BRONZECRAFT OR EQUAL  |
| 28                          | E1-1519      | KEEPER - OUTSWING                            | WHITE BRONZE       | BRONZECRAFT OR EQUAL  |
| 29                          | E1-1541      | CAM HANDLE (R)-OUTSWING                      | WHITE BRONZE       | BRONZECRAFT OR EQUAL  |
| 30                          | E1-1542      | CAM HANDLE (L)-OUTSWING                      | WHITE BRONZE       | BRONZECRAFT OR EQUAL  |
| 31                          | E1-1707      | KEEPER - INSWING                             | WHITE BRONZE       | BRONZECRAFT OR EQUAL  |
| 32                          | E1-1713      | GUIDE ROLLER BASE                            | 6063-T5            | YKK AP                |
| 33                          | E1-1714      | BUTT HINGE                                   | 6063-T5            | YKK AP                |
| 34                          | E1-1715      | BUTT HINGE                                   | 6063-T5            | YKK AP                |
| 35                          | E1-1721      | ARM BASE                                     | 6063-T5            | YKK AP                |
| 36                          | E1-1723      | BUTT HINGE ANGLE                             | 6063-T5            | YKK AP                |
| 37                          | E1-1780      | 4 BAR HINGE BASE                             | 6063-T5            | YKK AP                |
| 38                          | E1-1781      | 4 BAR HINGE BASE                             | 6063-T5            | YKK AP                |
| 39                          | E1-1786      | CORNER BLOCK                                 | 6063-T5            | YKK AP                |
| 40                          | E1-1787      | CORNER BLOCK                                 | 6063-T5            | YKK AP                |
| 41                          | E1-1799      | STRAP ANCHOR                                 | 6063-T5            | YKK AP                |
| 41A                         | E1-1799      | STRAP ANCHOR COVER                           | 6063-T5            | YKK AP                |
| 42                          | E1-1839      | 4 BAR HINGE BASE(R)                          | 6063-T5            | YKK AP                |
| 43                          | E1-1840      | 4 BAR HINGE BASE(L)                          | 6063-T5            | YKK AP                |
| 44                          | E1-1922      | ANCHOR CLIP                                  | 6063-T5            | YKK AP                |
| 44A                         | E1-1922      | ANCHOR CLIP COVER                            | 6063-T5            | YKK AP                |
| 45                          | E1-1952      | KEEPER                                       | CAST ALUMINUM      | AMC/CALDWELL OR EQUAL |
| 46                          | E1-1954-XXXX | LOCK BAR (BASE)                              | STAINLESS/ALUMINUM | AMC/CALDWELL OR EQUAL |
| 47                          | E1-1955-XXXX | LOCK BAR (EXT.)                              | STAINLESS/ALUMINUM | AMC/CALDWELL OR EQUAL |
| 48                          | E1-1957      | 4 BAR HINGE - 12" - (CASEMENT OUT EGRESS)    | STAINLESS STEEL    | AMC/CALDWELL OR EQUAL |
| 49                          | E1-1959      | SNUBBER BASE                                 | 6063-T5            | YKK AP                |

NOTE: COMPONENTS & PART NUMBERS LISTED IN B.O.M. AND SHOWN ON SHEET 6 ARE USED THROUGHOUT YKK YOW350TU & YOW350TUIH WINDOW SERIES OF FIXED, CASEMENT, AND PROJECT OUT/IN PRODUCTS, NOT ALL COMPONENTS LISTED ARE UTILIZED BY MULLION ASSEMBLIES APPROVED HEREIN.

| YOW350TU - BILL OF MATERIAL |               |                                 |                     |                                             |
|-----------------------------|---------------|---------------------------------|---------------------|---------------------------------------------|
| ITEM #                      | PART#         | DESCRIPTION                     | MATERIAL            | MANUFACTURER                                |
| 50                          | E1-1971       | TWIST ANCHOR - 3 1/2" FRAMING   | GALVINIZED STEEL    | WILD BORE FABRICATORS OR EQUAL              |
| 51                          | E1-1976       | FRICTION ADJUSTER               | STAINLESS STEEL     | TRUTH HARDWARE OR EQUAL                     |
| 52                          | K-10639       | GUIDE ROLLER                    | STAINLESS/NYLON     | YKK AP                                      |
| 53                          |               |                                 |                     |                                             |
| 54                          |               |                                 |                     |                                             |
| 55                          | E2-0050       | PRESET GASKET                   | EPDM                | TREMCO OR EQUAL                             |
| 56                          | E2-0051       | AT GASKET                       | EPDM                | TREMCO OR EQUAL                             |
| 57                          | E2-0133PC     | SIDE BLOCK x 4" LONG            | EPDM PC             | TREMCO OR EQUAL                             |
| 58                          | E2-0619       | GASKET - FOR INSWING CAM HANDLE | NEOPRENE            | BRONZECRAFT OR EQUAL                        |
| 59                          | E2-0625       | AT GASKET                       | TPE                 | TREMCO OR EQUAL                             |
| 60                          | E2-0626PC     | SETTING BLOCK x 4" LONG         | EPDM PC             | TREMCO OR EQUAL                             |
| 61                          | E2-0646PC     | SETTING BLOCK x 4" LONG         | EPDM PC             | TREMCO OR EQUAL                             |
| 62                          | E2-0647PC     | SETTING BLOCK x 4" LONG         | EPDM                | TREMCO OR EQUAL                             |
| 63                          | E2-0651PC     | SETTING BLOCK x 4" LONG         | EPDM PC             | TREMCO OR EQUAL                             |
| 64                          | E2-0670       | BACKER TAPE                     | POLYURETHANE FOAM   | TREMCO OR EQUAL                             |
| 65                          | E2-0672       | WEDGE GASKET                    | EPDM                | TREMCO OR EQUAL                             |
| 66                          | E2-0682       | GASKET - FOR MPL HANDLE         | BUTYL RUBBER        | BRONZECRAFT OR EQUAL                        |
| 67                          | E2-0359       | SPACER                          | EPDM                | TREMCO OR EQUAL                             |
| 68                          |               |                                 |                     |                                             |
| 69                          |               |                                 |                     |                                             |
| 70                          | E3-1103       | SNUBBER                         | NYLON 6             | INTERNATIONAL PRODUCTS OR EQUAL             |
| 71                          | E3-1132       | WEEP HOLE COVER                 | NYLON               | INTERNATIONAL PRODUCTS OR EQUAL             |
| 72                          |               |                                 |                     |                                             |
| 73                          | FA1014-SS     | #10 X7/8" SMS T/A               | 300 STAINLESS STEEL | FOR LOCK BAR - EXT. BAR & LOCK BAR BASE     |
| 74                          | FF0808-SS     | #8-32 x 1/2" T/F                | 300 STAINLESS STEEL | FOR SNUBBER - FRAME                         |
| 75                          | FF0816-SS     | #8-32 x 1" T/F                  | 300 STAINLESS STEEL | FOR SNUBBER / SNUBBER CHAIR - VENT          |
| 76                          | FF1008-SS     | #10-24 x 1/2" T/F               | 300 STAINLESS STEEL | FOR CAM HANDLE & KEEPER                     |
| 77                          | FF1012-SS     | #10-24 x 3/4" T/F               | 300 STAINLESS STEEL | FOR 4 BAR HINGE (BASE) & GUIDE ROLLER BASE  |
| 78                          | FF1016-SS     | #10-24 x 1" T/F                 | 300 STAINLESS STEEL | FOR ARM BASE                                |
| 79                          | FM1006-SS     | #10-24 x 3/8" T/F               | 300 STAINLESS STEEL | FOR MPL LOCK HANDLE                         |
| 80                          | FS1010-SS     | #10-24 x 5/8" (TEK)             | 300 STAINLESS STEEL | FOR KEEPER LOCK DOWN                        |
| 81                          | PC0808-SS     | #8 x 1/2" SMS T/AB              | 300 STAINLESS STEEL | FOR GUIDE ROLLER                            |
| 82                          | PC1008-SS     | #10 x 1/2" SMS T/AB             | 300 STAINLESS STEEL | FOR ANCHORING TRIM CLIP E94031              |
| 83                          | PC1016-SS     | #10 x 1" SMS T/AB               | 300 STAINLESS STEEL | FOR FRAME ASSEMBLY                          |
| 84                          | PC1020-SS     | #10 x 1 1/4" SMS T/AB           | 300 STAINLESS STEEL | FOR FRAME TO MULLION ASSEMBLY               |
| 85                          | PC1040-SS     | #10X 2 1/2" SMS T/AB            | 300 STAINLESS STEEL | RECEPTOR ANCHOR                             |
| 86                          | PF1006-SS     | #10-24 x 3/8" T/F               | 300 STAINLESS STEEL | FOR 4 BAR HINGE (FRAME) & FRICTION ADJUSTER |
| 87                          | PF1008-SS     | #10-24 x 1/2" T/F               | 300 STAINLESS STEEL | FOR BUTT HINGE (VENT) & FOR LIMIT STOP      |
| 88                          | PM1007-SS     | #10-24 x 7/16" MS               | 300 STAINLESS STEEL | FOR BUTT HINGE (FRAME & VENT)               |
| 89                          | UF0810-SS     | #8-32 x 5/8" UNDERCUT T/F       | 300 STAINLESS STEEL | FOR RAIL CHANNEL                            |
| 90                          | UF1006-SS     | #10-24 x 3/8" UNDERCUT T/F      | 300 STAINLESS STEEL | FOR 4 BAR HINGE (VENT)                      |
| 91                          | WN1001-SS     | #10 x 1/16" FLAT WASHER         | 300 STAINLESS STEEL | FOR KEEPER (INSWING)                        |
| 92                          |               | 1/4" X 2 3/4" HHXD TAPCON       | COATED CARBON STEEL | FRAME ANCHOR                                |
| 93                          |               |                                 |                     |                                             |
| 94                          |               |                                 |                     |                                             |
| 95                          | TREMSIL 600   | SILICONE                        |                     | TREMCO OR EQUAL                             |
| 96                          | BE9-4509      | MULLION                         | 6063-T5             | YKK                                         |
|                             |               |                                 |                     |                                             |
| 103                         | AS-4428       | PRESSURE PLATE                  | 6063-T5             | YKK                                         |
| 104                         | HM-2516-W3-SS | 1/4" - 20 X 1" HWHMS            | 300 STAINLESS STEEL | FOR PRESSURE PLATE                          |
| 105                         | E9-5111       | SNAP COVER                      | 6063-T5             | YKK                                         |
| 106                         | BE9-4925      | STACK MULLION                   | 6063-T5             | YKK                                         |
| 107                         | E1-1536       | END CAP                         | 6063-T5             | YKK                                         |
| 108                         | PC-1208-SS    | #12 X 1/2" PH SMS SS AB         | 300 STAINLESS STEEL | FOR MULL CLIP                               |
| 109                         | E1-1537       | MULL CLIP                       | 6063-T5             | YKK                                         |



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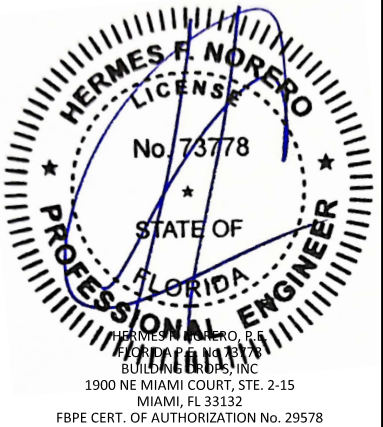
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THERMAL ALUMINUM MULLION

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SCALE: NTS

DWG. #: YKK215

SHEET: 6REV. A

OF 6