

MP WINDOWS, INC.  
SERIES ALUMINUM T.B. PICTURE WINDOW  
LARGE MISSILE IMPACT

| REVISIONS |             |      |          |
|-----------|-------------|------|----------|
| REV       | DESCRIPTION | DATE | APPROVED |

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN EVALUATED TO COMPLY WITH THE CURRENT PROVISIONS OF THE FLORIDA BUILDING CODE (FBC) EXCLUDING THE HIGH VELOCITY HURRICANE ZONES (HVHZ) AND IS BASED ON TESTING CONDUCTED TO AAMA/WDMA/CSA 101/I.S.2/A440/NAFS-17, ASTM E1886-12/13a AND E1996-12a/14a DOCUMENTED IN TEST REPORT NO. NCTL-210-4209-2.
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE, MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X BUCK OVER MASONRY AND/OR CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF THE INSTALLATION METHODS DEViate FROM THESE APPROVED DETAILS THIS WOULD REQUIRE FURTHER INVESTIGATION BY A LICENSED OR REGISTERED DESIGN PROFESSIONAL.
5. ALL SETTING BLOCKS AND GASKET MATERIALS SHALL BE IN COMPLIANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE. SETTING BLOCKS SHALL BE NEOPRENE WITH A 70 TO 90 SHORE A DUROMETER.
6. IN AREAS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST, USE OF AN IMPACT PROTECTIVE SYSTEM COMPLYING WITH THE FBC REQUIREMENTS FOR WINDBORNE DEBRIS REGIONS SHALL NOT BE REQ'D. THIS PRODUCT MEETS WIND ZONE 3 REQUIREMENTS ONLY.
7. MATERIALS:  
FRAME: EXTRUDED ALUMINUM.
8. GLAZING:

8.1. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-12AE1.

8.2. SEE GLAZING DETAILS ON SHEET 3 OF 6.

8.3. GLASS SHALL MEET SAFETY GLAZING REQUIREMENTS PER CURRENT EDITION OF THE FLORIDA BUILDING CODE.
9. PANEL OPERABILITY DESIGNATIONS:

9.1. WINDOW IS A STATIONARY PANEL (O).

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| 1                 | GENERAL NOTES                                  |
| 2                 | ELEVATION AND ANCHOR LAYOUT                    |
| 3                 | VERTICAL, HORIZONTAL SECTIONS & GLAZING DETAIL |
| 4-5               | ANCHOR DETAILS                                 |
| 6                 | BILL OF MATERIALS AND COMPONENTS               |

ANCHOR NOTES:

1. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH A LOAD BEARING SHIM, SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
2. FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16" DIA. ADVANCED THREADFORM TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE THE FOLLOWING:

2.1. CONCRETE: 1-1/2" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1-1/8" MINIMUM EDGE DISTANCE.

2.2. CMU/MASONRY: 1" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE.
3. FOR ANCHORING INSTALLATION CLIP INTO WOOD FRAMING OR 2 BY BUCK USE #10 PAN HEAD WOOD SCREWS (ANSI B18.6.1) WITH MINIMUM GRADE 2 STRENGTH AND WITH SUFFICIENT LENGTH TO ACHIEVE 1-3/8" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 3/4" MINIMUM EDGE DISTANCE.
4. FOR ANCHORING THROUGH NAIL FIN INTO WOOD FRAMING OR 2 BY BUCK USE #10 PAN HEAD WOOD SCREWS (ANSI B18.6.1) WITH MINIMUM GRADE 2 STRENGTH AND WITH SUFFICIENT LENGTH TO ACHIEVE 1-3/8" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 3/4" MINIMUM EDGE DISTANCE.
5. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

5.1. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42 (NON-HVHZ).

5.2. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

5.3. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90 MEDIUM WEIGHT WITH COMPRESSIVE STRENGTH OF 1900 psi (DENSITY > 117 PCF).

MP WINDOWS, INC.  
407 RIVER HEIGHTS CIRCLE  
ANDERSON, SC 29621

SERIES PICTURE WINDOW  
ALUMINUM T.B. L.M. IMPACT  
GENERAL NOTES

DRAWN:  
JRM

DWG NO.  
NL-0141

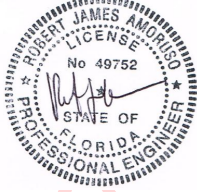
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SCALE SCALE

DATE 07/22/2021

SHEET 1\_OF\_6

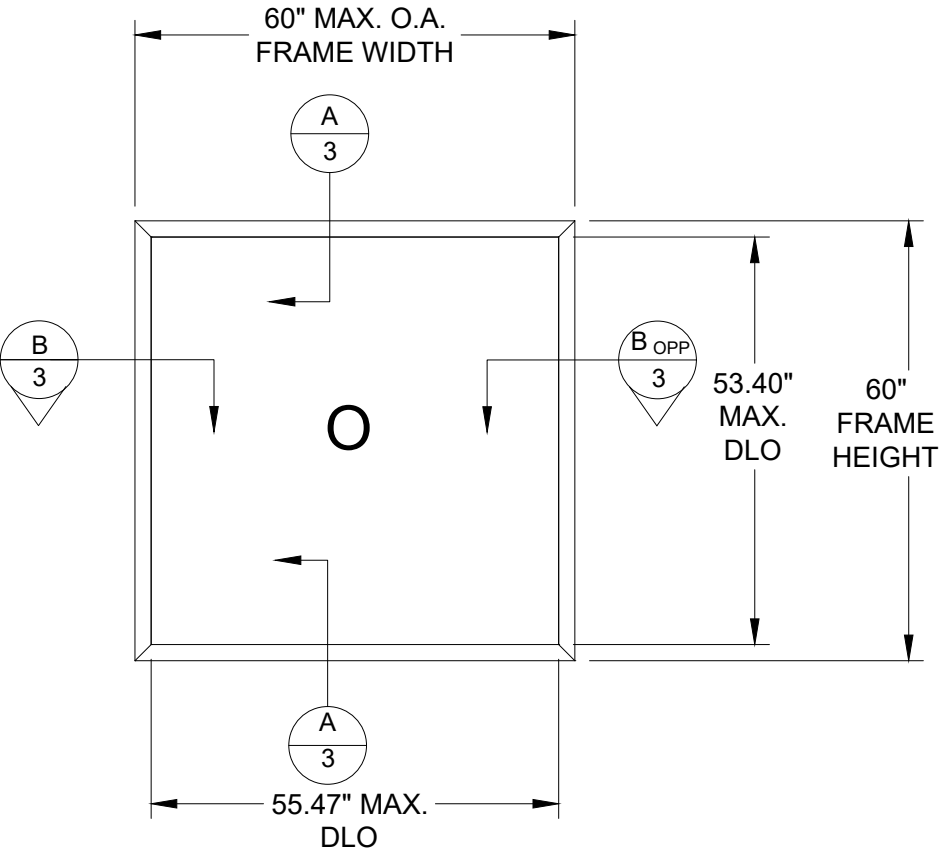
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FL. P.E. NO. 49752



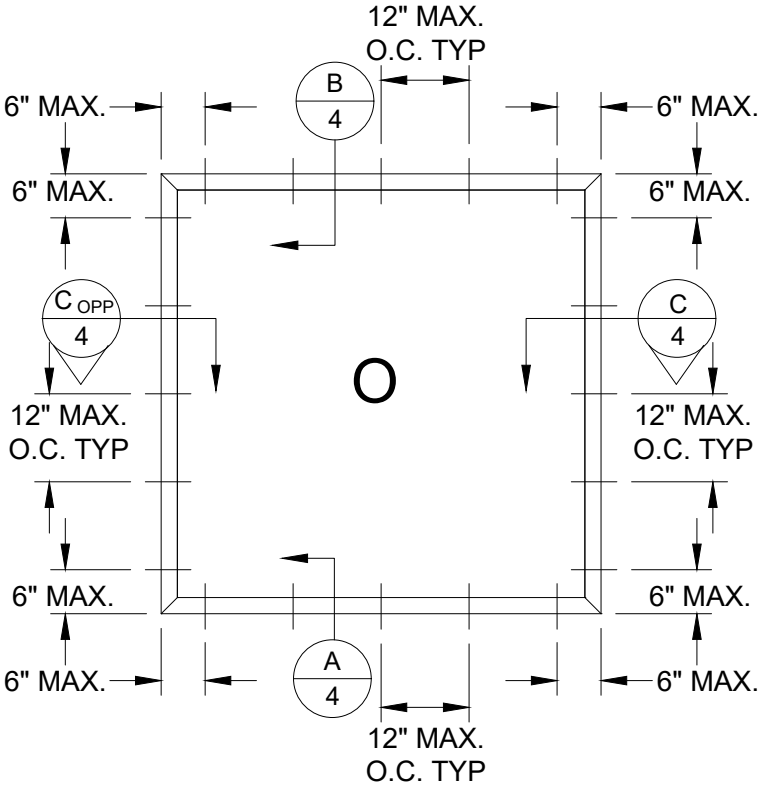
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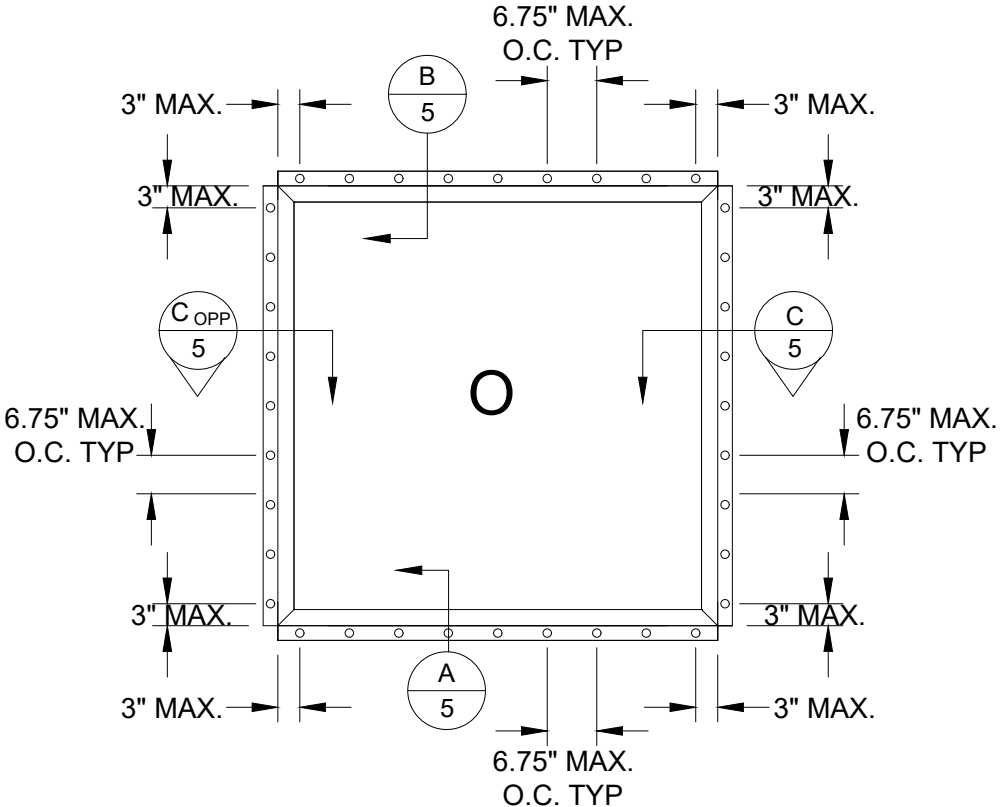
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ELEVATION LAYOUT  
PICTURE WINDOW



ANCHOR LAYOUT  
ANCHOR CLIP  
INSTALLATION



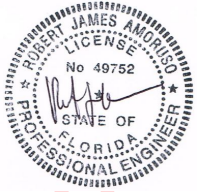
ANCHOR LAYOUT  
NAIL FIN  
INSTALLATION

| DESIGN PRESSURE RATING (PSF)        |                            |                         |                                      |
|-------------------------------------|----------------------------|-------------------------|--------------------------------------|
| MAX. OVERALL TESTED FRAME SIZE (IN) | MAX. DESIGN PRESSURE (PSF) | QUALIFIED CONFIGURATION | IMPACT RATING                        |
| 60" X 60"                           | +/- 55.0 PSF               | O                       | WIND ZONE 3<br>LARGE MISSILE LEVEL D |
| SEE GLAZING DETAIL ON SHT. 3        |                            |                         |                                      |

| MAXIMUM SIZES (IN) |               |
|--------------------|---------------|
| FRAME              | 60 X 60       |
| D.L.O              | 59.58 X 59.58 |

|                                                                                    |                    |                 |
|------------------------------------------------------------------------------------|--------------------|-----------------|
| MP WINDOWS, INC.<br>407 RIVER HEIGHTS<br>ANDERSON, SC 29621                        |                    |                 |
| SERIES PICTURE WINDOW<br>ALUMINUM T.B. L.M. IMPACT<br>ELEVATION AND ANCHOR LAYOUTS |                    |                 |
| DRAWN:<br>JRM                                                                      | DWG NO.<br>NL-0141 | REV<br>0        |
| SCALE<br>NTS                                                                       | DATE<br>07/22/2021 | SHEET<br>2_OF_6 |

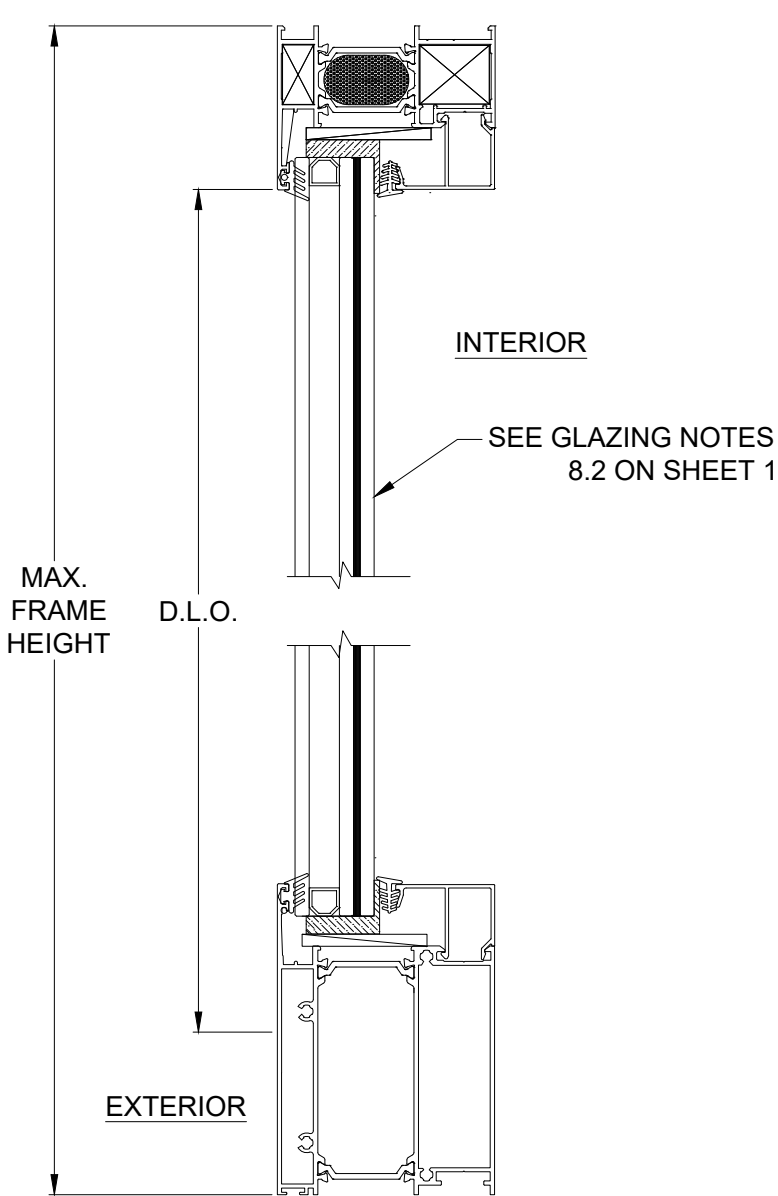
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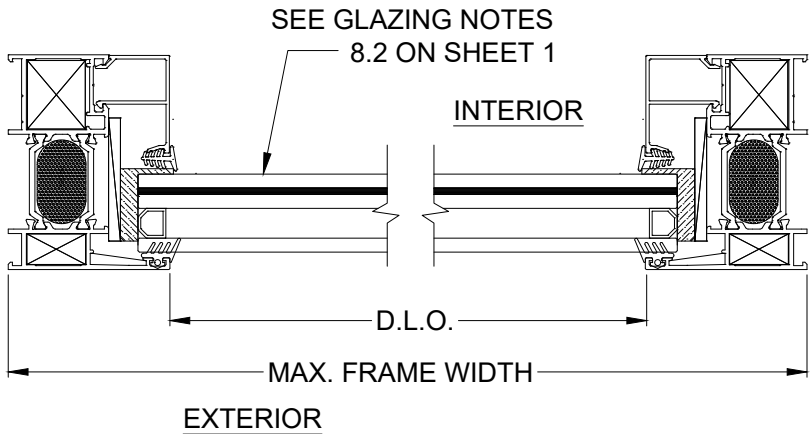
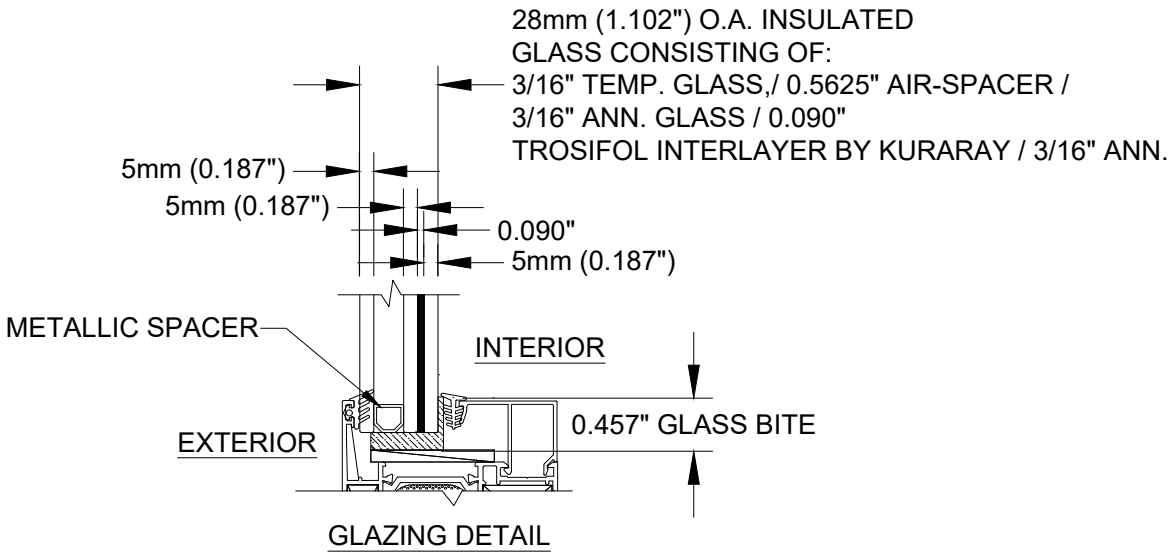
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**A**  
**3** VERTICAL SECTION



**B**  
**3** HORIZONTAL SECTION  
FRAME JAMB

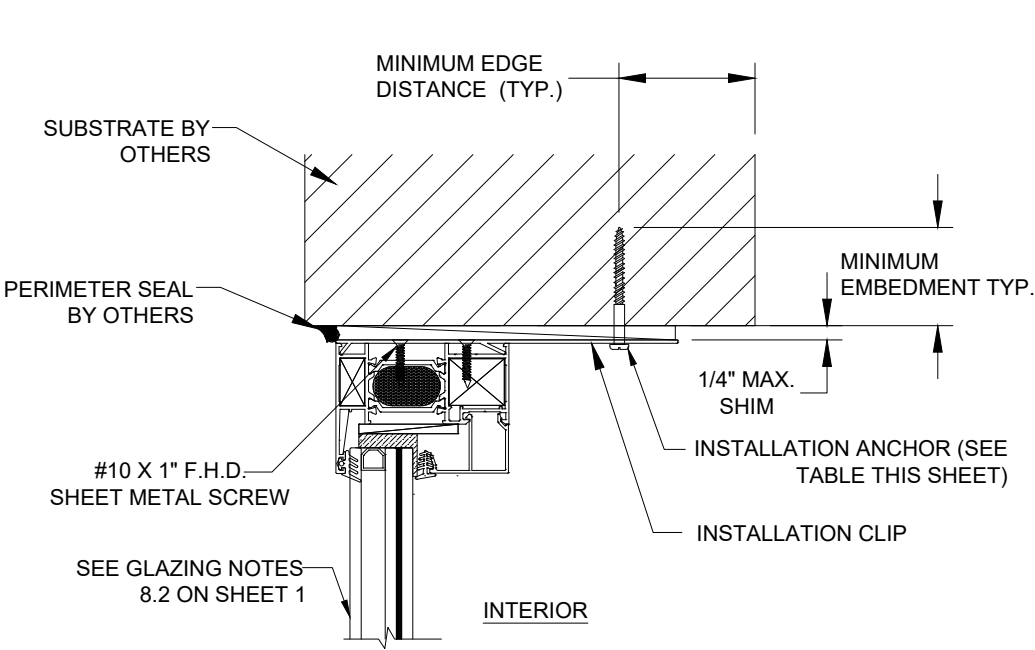
**BOPP**  
**3** HORIZONTAL SECTION  
FRAME JAMB

|                                                                                                          |                    |              |
|----------------------------------------------------------------------------------------------------------|--------------------|--------------|
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| SERIES PICTURE WINDOW<br>ALUMINUM T.B. L.M. IMPACT<br>VERTICAL HORIZONTAL SECTIONS<br>AND GLAZING DETAIL |                    |              |
| DRAWN:<br>JRM                                                                                            | DWG NO.<br>NL-0141 | REV<br>0     |
| SCALE NTS                                                                                                | DATE 07/22/2021    | SHEET 3_OF_6 |

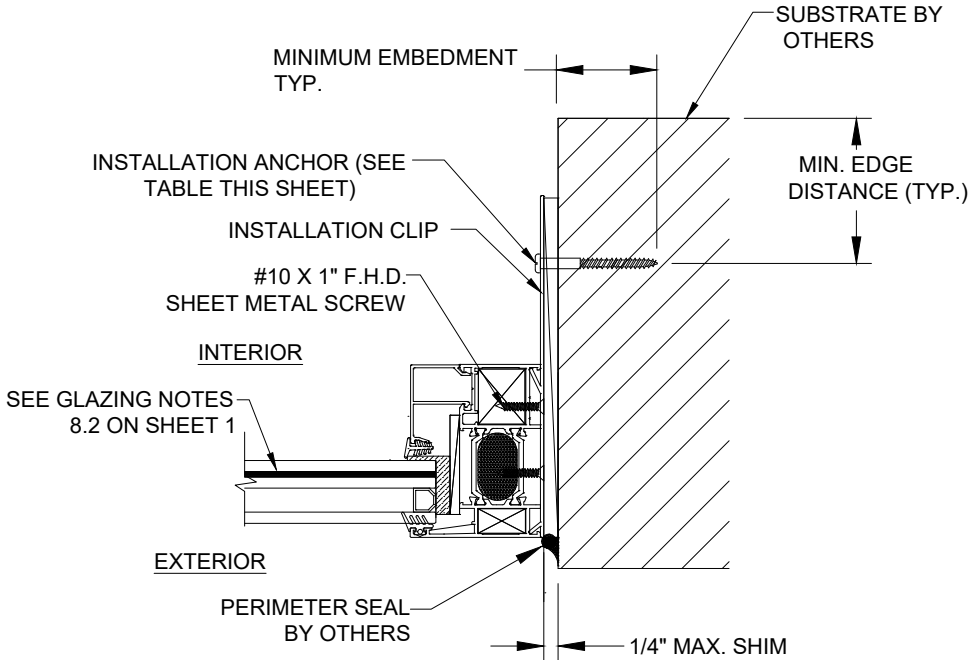
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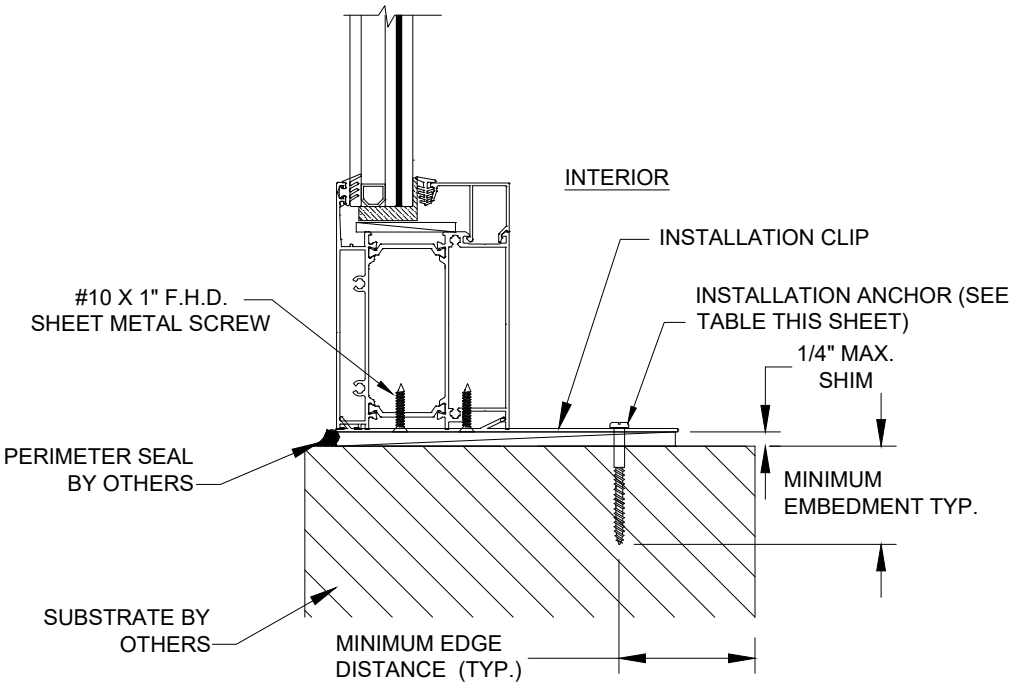
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**B**  
**4** **ANCHOR DETAIL**  
**INSTALLATION CLIP**  
**FRAME HEAD**



**C**  
**4** **ANCHOR DETAIL**  
**INSTALLATION CLIP**  
**FRAME JAMB**



**A**  
**4** **ANCHOR DETAIL**  
**INSTALLATION CLIP**  
**FRAME SILL**

| INSTALLATION ANCHOR REQUIREMENTS TABLE |           |                                                                                                                               |                 |                  |                         |
|----------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------|-------------------------|
| ANCHOR REQUIREMENTS                    |           |                                                                                                                               |                 |                  |                         |
| ANCHORING METHOD                       | SUBSTRATE |                                                                                                                               | ANCHOR SCHEDULE | MIN. EMBED. (IN) | MIN. EDGE DISTANCE (IN) |
| THROUGH ANCHOR STRAP                   | WOOD      | MIN. 0.42 S.G. (NON-HVHZ)                                                                                                     | #10 WOOD SCREW  | 1-3/8            | 3/4"                    |
|                                        | CONCRETE  | 2500 PSI MIN. CONCRETE                                                                                                        | 3/16 ITW TAPCON | 1-1/2            | 1-1/8                   |
|                                        | CMU       | ASTM C90 MED. WT. (DENSITY) > 117 PCF MASONRY (CMU) MIN.                                                                      | 3/16 ITW TAPCON | 1                | 2                       |
| NOTES:                                 | 1)        | CONCRETE AND MASONRY (BLOCK/CMU) SUBSTRATE ANCHORS TO BE 3/16" DIAMETER ITW ADVANCED THREADFORM TECHNOLOGIES CONCRETE SCREWS. |                 |                  |                         |
|                                        | 2)        | WOOD FRAME SUBSTRATE ANCHORS USE NO. 10 WOOD SCREW ANCHORS (ANSI B18.6.1) WITH MIN. GRADE 2 STRENGTH.                         |                 |                  |                         |

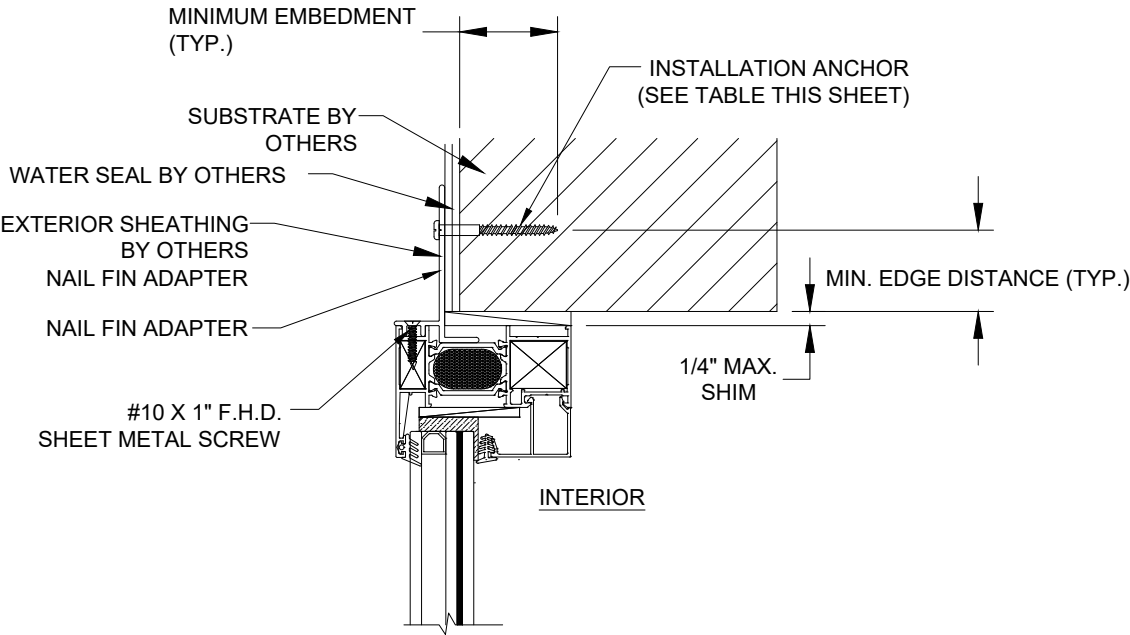
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| SERIES PICTURE WINDOW<br>ALUMINUM T.B. L.M. IMPACT<br>ANCHOR DETAILS: INSTALLATION CLIP |                    |                 |
| DRAWN:<br>JRM                                                                           | DWG NO.<br>NL-0141 | REV<br>0        |
| SCALE<br>SCALE                                                                          | DATE<br>07/22/2021 | SHEET<br>4_OF_6 |

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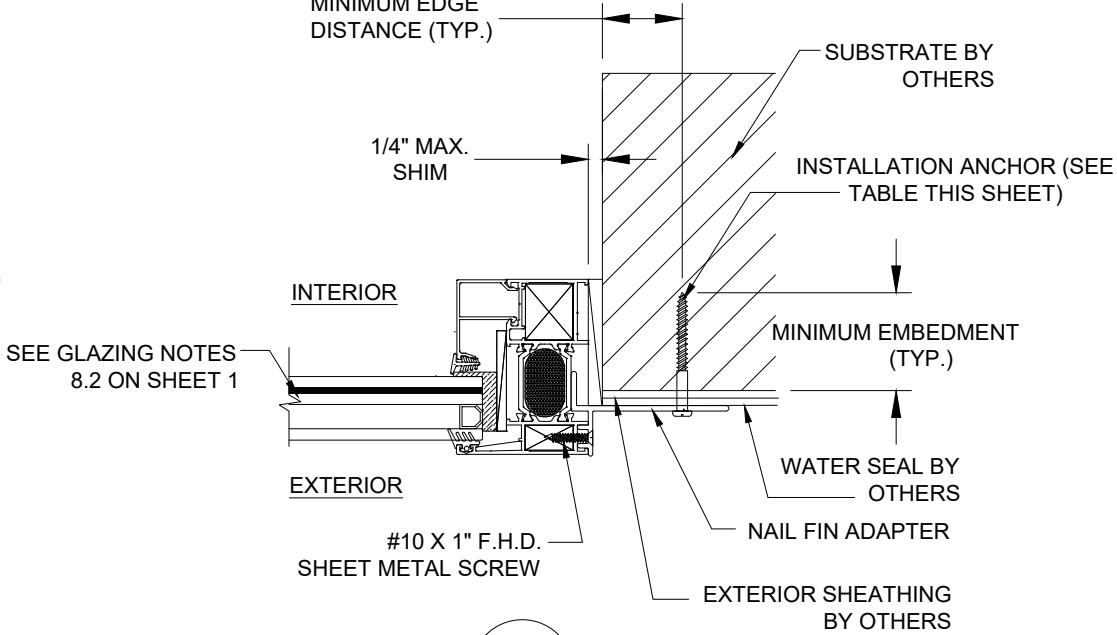
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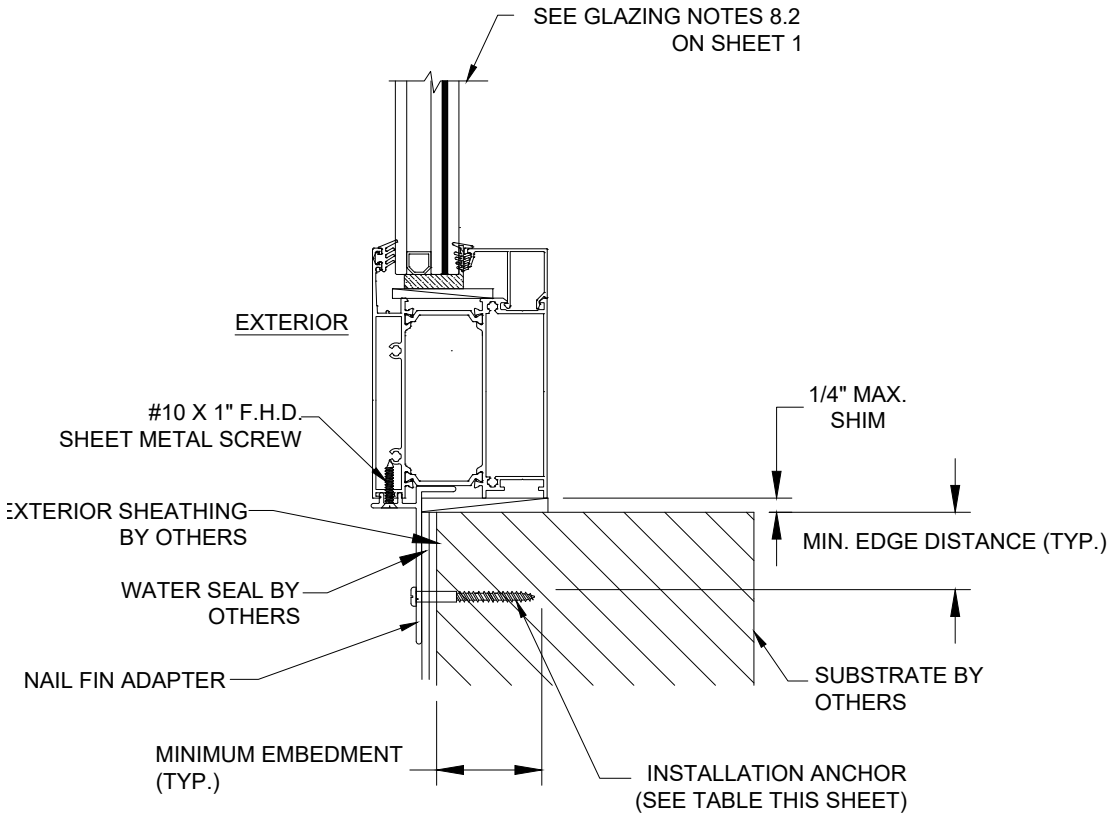
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**B**  
**5** **ANCHOR DETAIL**  
**NAILING FIN**  
**FRAME HEAD**



**C**  
**5** **ANCHOR DETAIL**  
**NAILING FIN**  
**FRAME JAMB**



**A**  
**5** **ANCHOR DETAIL**  
**NAILING FIN**  
**FRAME SILL**

| INSTALLATION ANCHOR REQUIREMENTS TABLE |           |                                                                                                       |                 |                  |                         |
|----------------------------------------|-----------|-------------------------------------------------------------------------------------------------------|-----------------|------------------|-------------------------|
| ANCHOR REQUIREMENTS                    |           |                                                                                                       |                 |                  |                         |
| ANCHORING METHOD                       | SUBSTRATE |                                                                                                       | ANCHOR SCHEDULE | MIN. EMBED. (IN) | MIN. EDGE DISTANCE (IN) |
| THROUGH NAIL FIN                       | WOOD      | MIN. 0.42 S.G. (NON-HVHZ)                                                                             | #10 WOOD SCREW  | 1-3/8            | 3/4"                    |
| NOTES:                                 | 1)        | WOOD FRAME SUBSTRATE ANCHORS USE NO. 10 WOOD SCREW ANCHORS (ANSI B18.6.1) WITH MIN. GRADE 2 STRENGTH. |                 |                  |                         |

MP WINDOWS, INC.  
407 RIVER HEIGHTS  
ANDERSON, SC 29621

SERIES PICTURE WINDOW  
ALUMINUM T.B. L.M. IMPACT  
ANCHOR DETAILS: NAILING FIN

DRAWN: JRM DWG NO. NL-0141 REV 0

SCALE NTS DATE 07/22/2021 SHEET 5\_OF\_6

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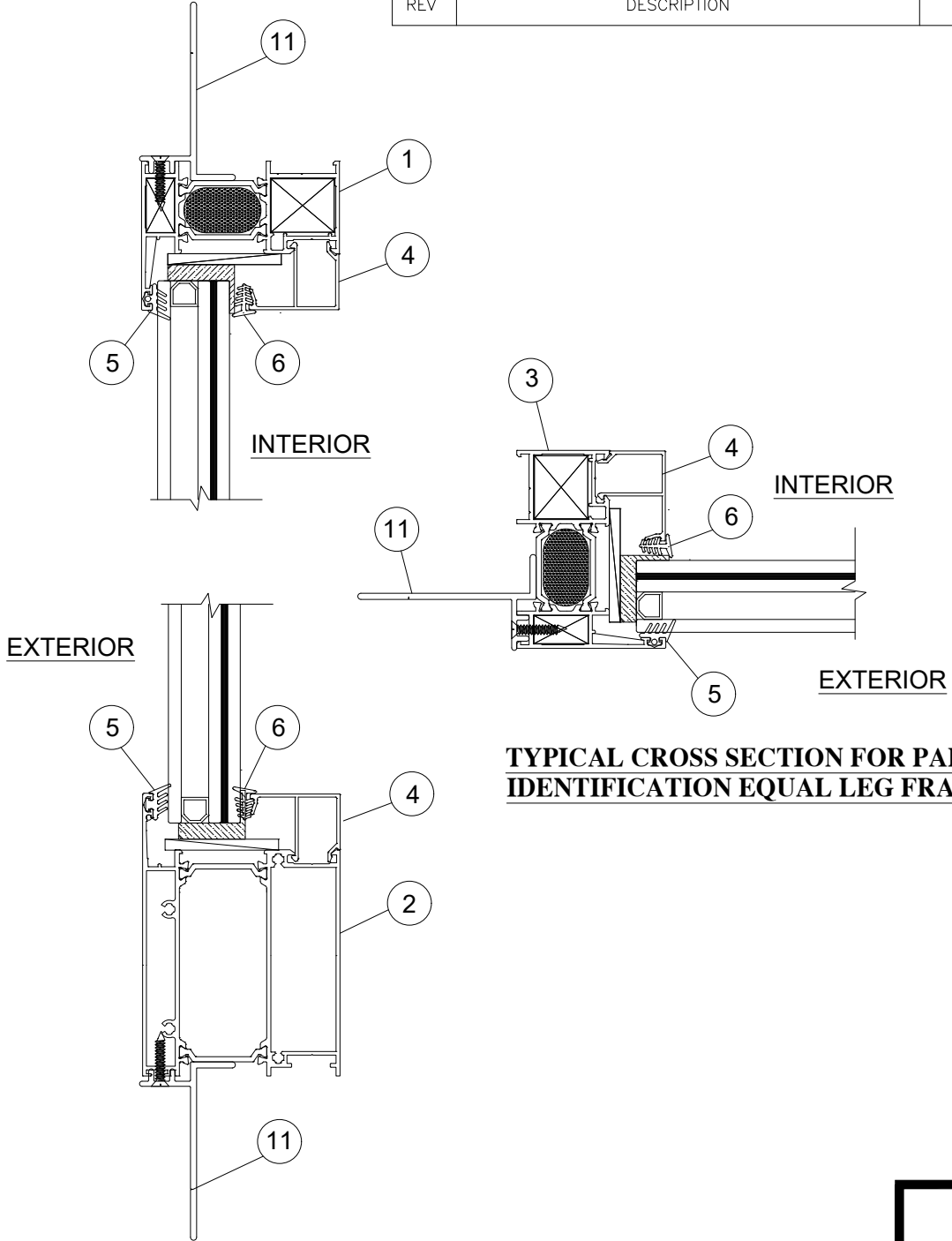


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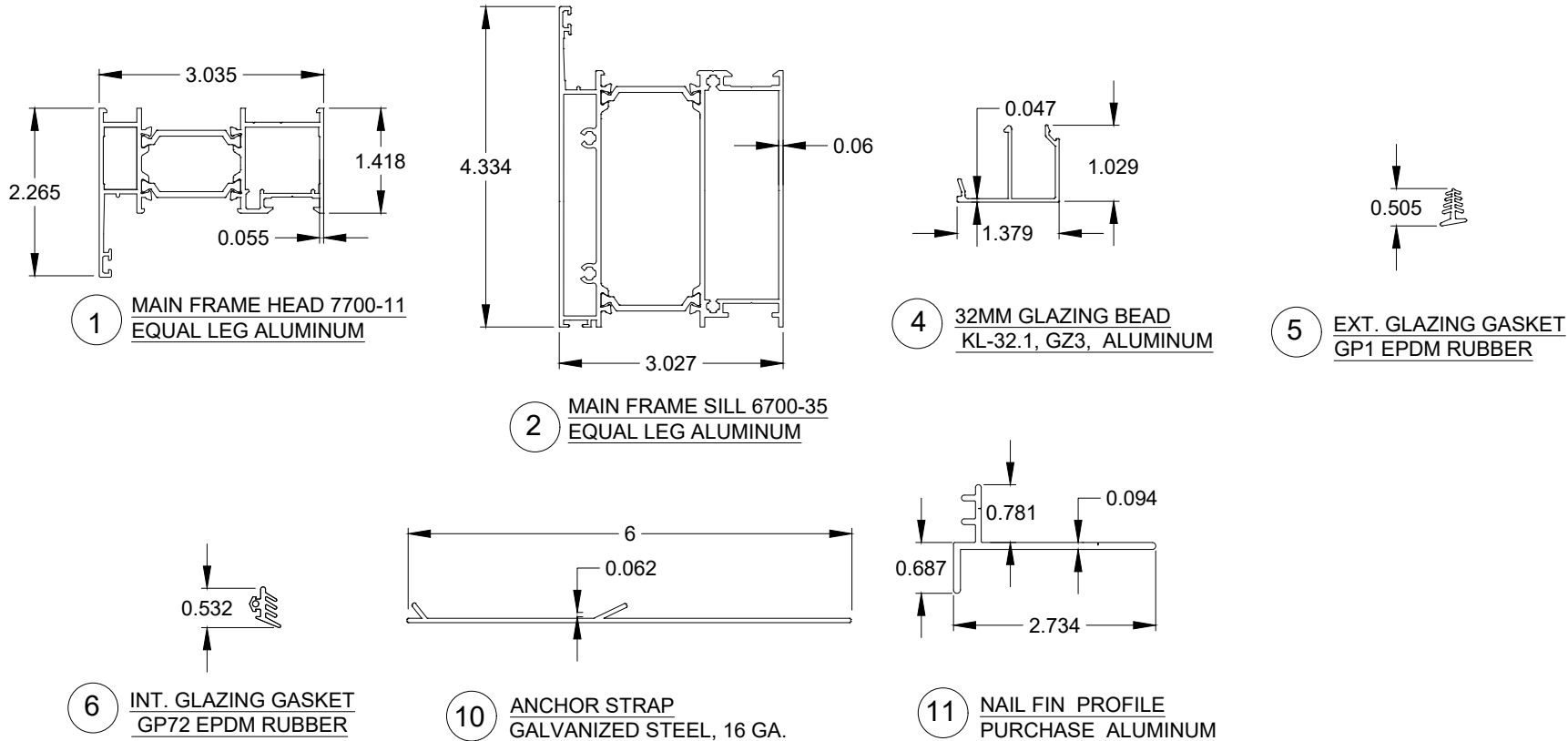
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| QTY. | PART NO.   | DESCRIPTION                           | MANUFACTURER     |
|------|------------|---------------------------------------|------------------|
| 1    | 7700-11    | MAIN FRAME HEAD, ALUMINUM             | KASA UST PROFILI |
| 2    | 6700 35    | MAIN FRAME SILL, ALUMINUM             | KASA UST PROFILI |
| 3    | 7700-11    | MAIN FRAME JAMB, ALUMINUM             | KASA UST PROFILI |
| 4    | KL-32, GZ3 | 32 MM GLAZING BEAD, ALUMINUM          | KASA UST PROFILI |
| 5    | GP1        | EXTERIOR GLAZING GASKET, EPDM RUBBER  | DIS CAM FIT      |
| 6    | GP72       | INTERIOR GLAZING GASKET, EPDM RUBBER  | DIS CAM FIT      |
| 7    | -----      | #10 PH S.M.S.                         | PURCHASE         |
| 8    | -----      | #10 PH WOOD SCREW                     | PURCHASE         |
| 9    | -----      | 3/16" DIAM. I.T.W. MASONRY ANCHOR     | PURCHASE         |
| 10   | -----      | ANCHOR STRAP, 16 GA. GALVANIZED STEEL | PURCHASE         |
| 11   | -----      | NAILING FIN ADD-ON, ALUMINUM          | PURCHASE         |
|      |            |                                       |                  |



**TYPICAL CROSS SECTION FOR PARTS IDENTIFICATION EQUAL LEG FRAME**



**TYPICAL CROSS SECTION FOR PARTS IDENTIFICATION EQUAL LEG FRAME**

|                                                                                      |                    |              |
|--------------------------------------------------------------------------------------|--------------------|--------------|
| MP WINDOWS, INC.<br>407 RIVER HEIGHTS<br>ANDERSON, SC 29621                          |                    |              |
| SERIES PICTURE WINDOW<br>ALUMINUM T.B. L.M. IMPACT<br>BILL OF MATERIALS & COMPONENTS |                    |              |
| DRAWN:<br>JRM                                                                        | DWG NO.<br>NL-0141 | REV<br>0     |
| SCALE NTS                                                                            | DATE 07/22/2021    | SHEET 6_OF_6 |

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