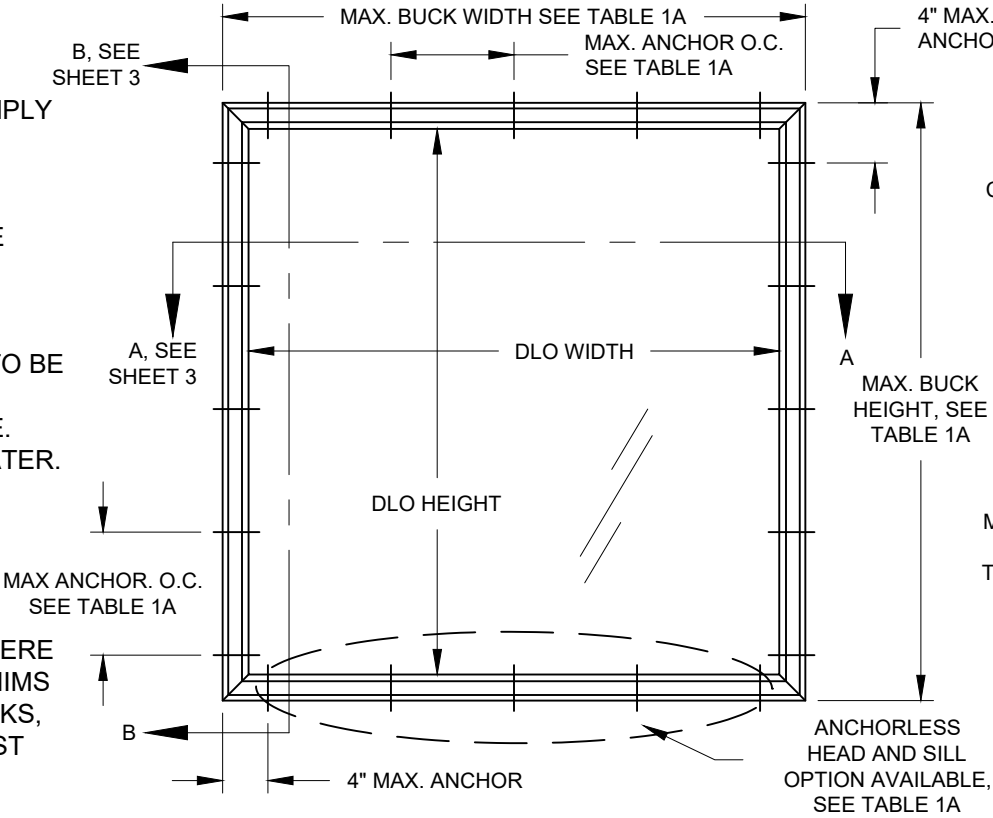
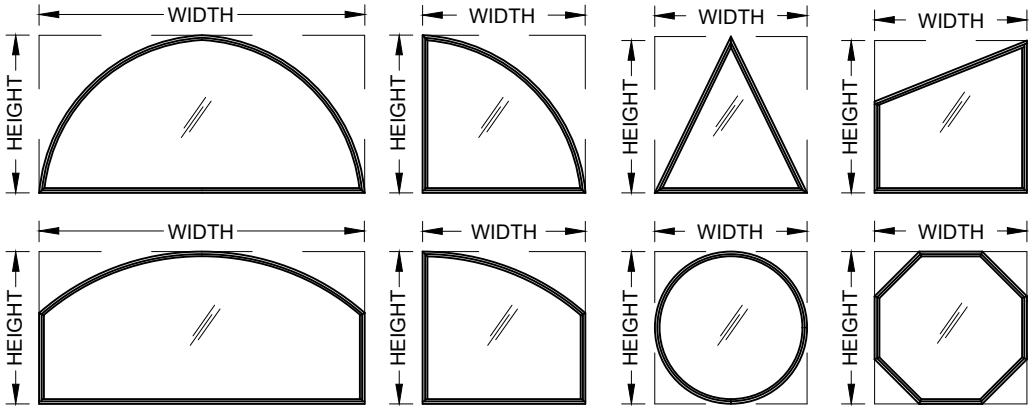


SERIES 1650PW  
VINYL PICTURE WINDOW  
NON-IMPACT RESISTANT

FLORIDA PRODUCT APPROVAL #25907

- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE.
- 2) SHUTTERS ARE REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- 3) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 2. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER.
- 4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH.
- 5) SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.
- 6) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.
- 7) FRAME J-CHANNEL OR FINS MAY BE TRIMMED IN-FIELD TO CREATE AN EQUAL LEG FRAME.
- 8) UNITS MUST BE GLAZED PER ASTM E1300.

SHAPES AS SHOWN BELOW, OR SIMILAR, MAY BE USED BY INSCRIBING THE SHAPE IN A BLOCK SIZE GIVEN BY MAXIMUM WIDTH AND MAXIMUM HEIGHT FOR EACH GLASS TYPE SHOWN ON THIS PAGE.



TYP. EQUAL-LEG/BOX & FRAME  
(SHAPES SIMILAR)

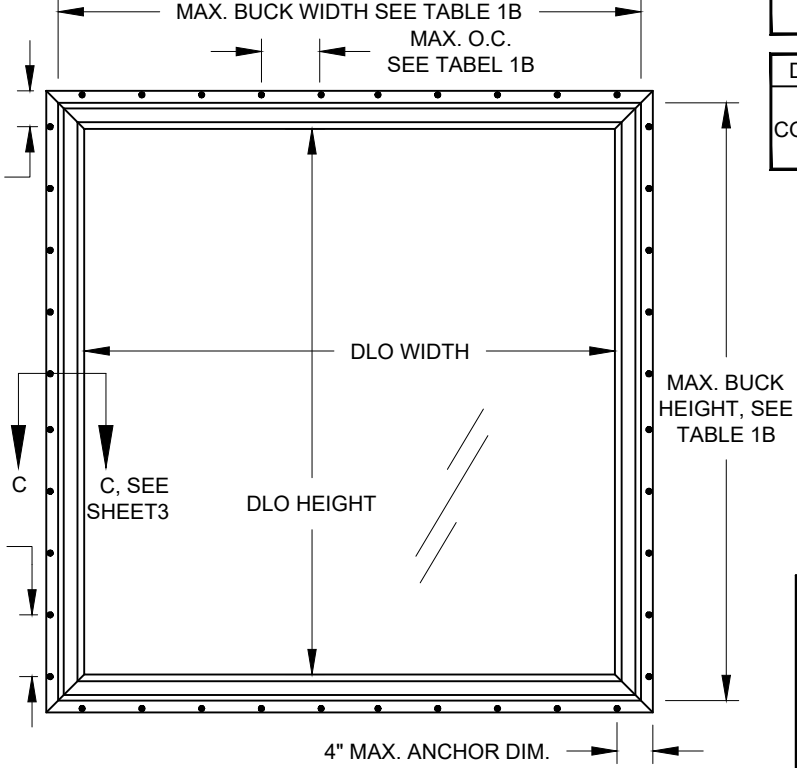
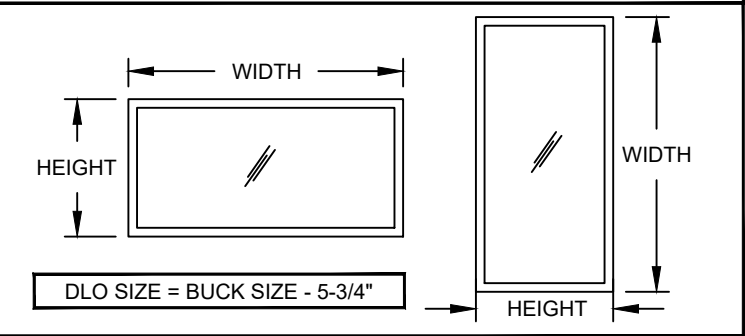
TABLE 1A:

| Window Buck Size |        | Design Pressure | Product Rating | CPD Number | Through Frame Anchorage Max. O.C. |
|------------------|--------|-----------------|----------------|------------|-----------------------------------|
| Width            | Height |                 |                |            |                                   |
| 72"              | 72"    | +/-55 PSF       | LC-PG50        | 21141      | 12" O.C. Jambs, Head & Sill       |
| 60"              | 60"    | +/-45 PSF       | LC-PG45        | 16534      | 18" O.C. Jambs Only               |
| 96"              | 60"    | +/-35 PSF       | LC-PG35        | 4373       | 18" O.C. Jambs Only               |

TABLE 1B:

| Window Buck Size |        | Design Pressure | Product Rating | CPD Number | Through Fin Anchorage Max. O.C. |
|------------------|--------|-----------------|----------------|------------|---------------------------------|
| Width            | Height |                 |                |            |                                 |
| 72"              | 72"    | +/-55 PSF       | LC-PG50        | 21141      | 8" O.C. Jambs, Head & Sill      |
| 96"              | 60"    | +/-50 PSF       | LC-PG50        | 4372       | 11" O.C. Jambs, Head & Sill     |
| 60"              | 60"    | +/-45 PSF       | LC-PG45        | 16534      | 8" O.C. Jambs, Head & Sill      |
| 65"              | 83"    | +/-35 PSF       | LC-PG35        | 16400      | 8" O.C. Jambs, Head & Sill      |
| 60"              | 84"    | +/-35 PSF       | LC-PG35        | 16691      | 8" O.C. Jambs, Head & Sill      |

WIDTH AND HEIGHT DIMENSIONS MAY BE TRANSPOSED



TYP. INTEGRAL FIN & J-CHANNEL  
FRAME (SHAPES SIMILAR)

|                                                                    |
|--------------------------------------------------------------------|
| IMPACT RATING                                                      |
| NON-IMPACT<br>RESISTANT                                            |
| DESIGN PRESSURE RATING                                             |
| VARIABLES PER<br>CONFIGURATION, SEE TABLE<br>1A and 1B, THIS SHEET |

|                                                           |         |                                                             |        |                     |         |                                                                                                |  |                                                                                              |  |
|-----------------------------------------------------------|---------|-------------------------------------------------------------|--------|---------------------|---------|------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------|--|
| <div><div>MI®</div><div>WINDOWS<br/>and DOORS</div></div> |         | 650 WEST MARKET STREET<br>GRATZ, PA 17030<br>(717) 365-3300 |        | REGISTRATION #29296 |         | COPYRIGHT © 2025 MI WINDOWS AND DOORS, INC.,<br>LIMITED LICENSE TO MAKE COPIES FOR PERMITTING. |  | PREPARED BY A. LYNN MILLER<br>1070 TECHNOLOGY DRIVE<br>N. VENICE, FL 34275<br>(941) 480-1600 |  |
|                                                           |         |                                                             |        |                     |         |                                                                                                |  |                                                                                              |  |
| Series                                                    | 1650 PW | Sheet                                                       | 1 OF 3 |                     | DWG No. | 1650 PW-FPA-LM                                                                                 |  | A MORLESIN                                                                                   |  |
| ELEVATION & GENERAL NOTES                                 |         | By                                                          |        | Date                |         | 02/11/26                                                                                       |  |                                                                                              |  |
| VINYL PICTURE WINDOW (NI)                                 |         |                                                             |        |                     |         |                                                                                                |  |                                                                                              |  |

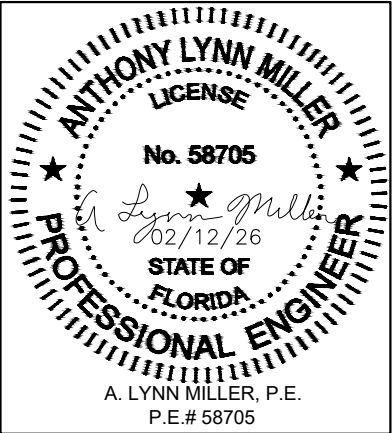


TABLE 2: THROUGH-FRAME ANCHORAGE OPTIONS

| Anchor                         | Substrate                  | Min. Edge Distance | Minimum Embedment |
|--------------------------------|----------------------------|--------------------|-------------------|
| #8 SMS<br>(steel or 410 S.S.)  | Southern Pine (SG=0.55)    | 7/16"              | 1-1/4"            |
|                                | Steel, A36                 | 1/4"               | 0.048" (18 Ga.)   |
|                                | Steel Stud, A653 Gr. 33    | 1/4"               | 0.048" (18 Ga.)   |
|                                | Aluminum, 6063-T5          | 1/4"               | 0.125"            |
| #10 SMS<br>(steel or 410 S.S.) | Southern Pine (SG=0.55)    | 1/2"               | 1-1/4"            |
|                                | Steel, A36                 | 5/16"              | 0.048" (18 Ga.)   |
|                                | Steel Stud, A653 Gr. 33    | 5/16"              | 0.048" (18 Ga.)   |
|                                | Aluminum, 6063-T5          | 5/16"              | 0.125"            |
| 3/16" Ultracon+<br>(steel)     | Southern Pine (SG=0.55)    | 1/2"               | 1-3/8"            |
|                                | Concrete (min. 3.00 ksi)   | 2"                 | 1-1/4"            |
|                                | UngROUTED CMU, (ASTM C-90) | 2"                 | 1-1/4"            |

1) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.  
2) ALL ANCHOR HEAD TYPES ARE ACCEPTABLE.  
3) ANCHOR LENGTH TO BE SO THAT A MIN. OF 3 THREADS EXTEND BEYOND THE METAL SUBSTRATE.

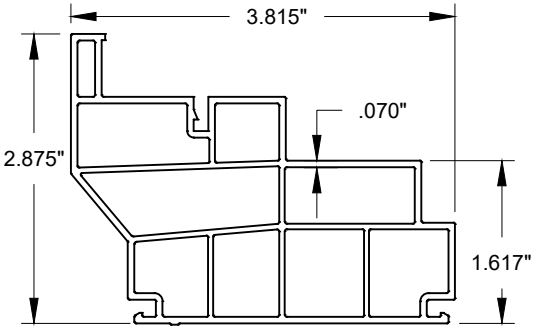
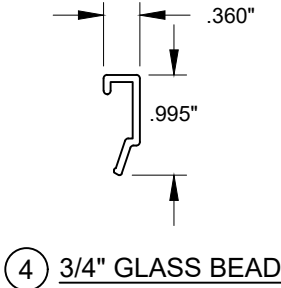
TABLE 3: INTEGRAL FIN AND J-CHANNEL ANCHORAGE OPTIONS

| Anchor                                                          | Substrate               | Min. Edge Distance | Minimum Embedment |
|-----------------------------------------------------------------|-------------------------|--------------------|-------------------|
| #6 SMS<br>(steel, 18-8 S.S. or 410 S.S.)<br>Panhead or Flathead | Southern Pine (SG=0.55) | 1/2"               | 1-1/8"            |
|                                                                 | Steel, A36              | 5/16"              | 0.048" (18 Ga.)   |
|                                                                 | Steel Stud, A653 Gr. 33 | 5/16"              | 0.048" (18 Ga.)   |
|                                                                 | Aluminum, 6063-T5       | 7/16"              | 0.125"            |

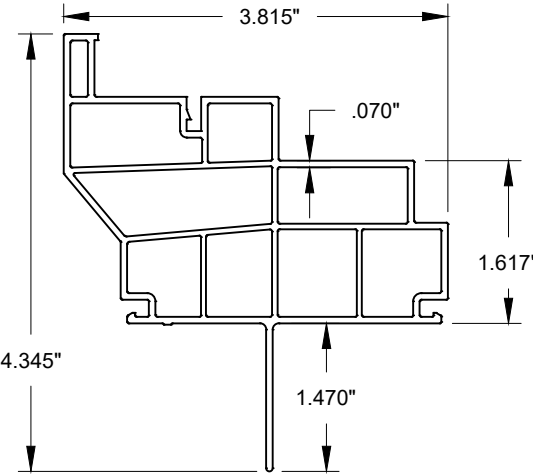
1) ANCHOR LENGTH TO BE SO THAT A MIN. OF 3 THREADS EXTEND BEYOND THE METAL SUBSTRATE.

TABLE 4: BILL OF MATERIALS

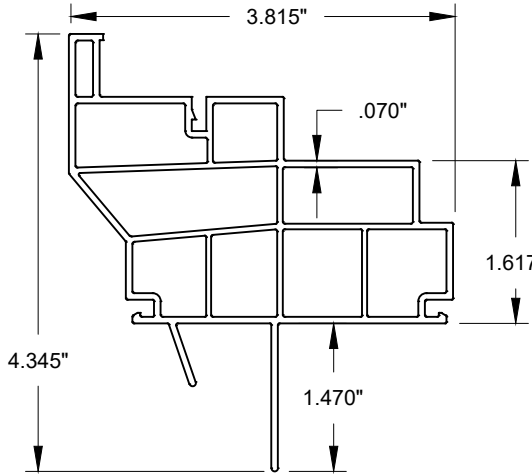
| #  | Part #                                | Description                | Material |
|----|---------------------------------------|----------------------------|----------|
| 1  | V921NF                                | Finless Frame              | PVC      |
| 2  | V921                                  | Integral Fin Frame         | PVC      |
| 3  | V920                                  | J-Channel Frame            | PVC      |
| 4  | V819                                  | 3/4" IG Plain Glazing Bead | PVC      |
| 10 | MS100050                              | Setting Block              | EPDM     |
| 11 | TPS, Metal or Composite Spacer System |                            | varies   |
| 12 | Pecora 896 Backbedding                |                            | Silicone |



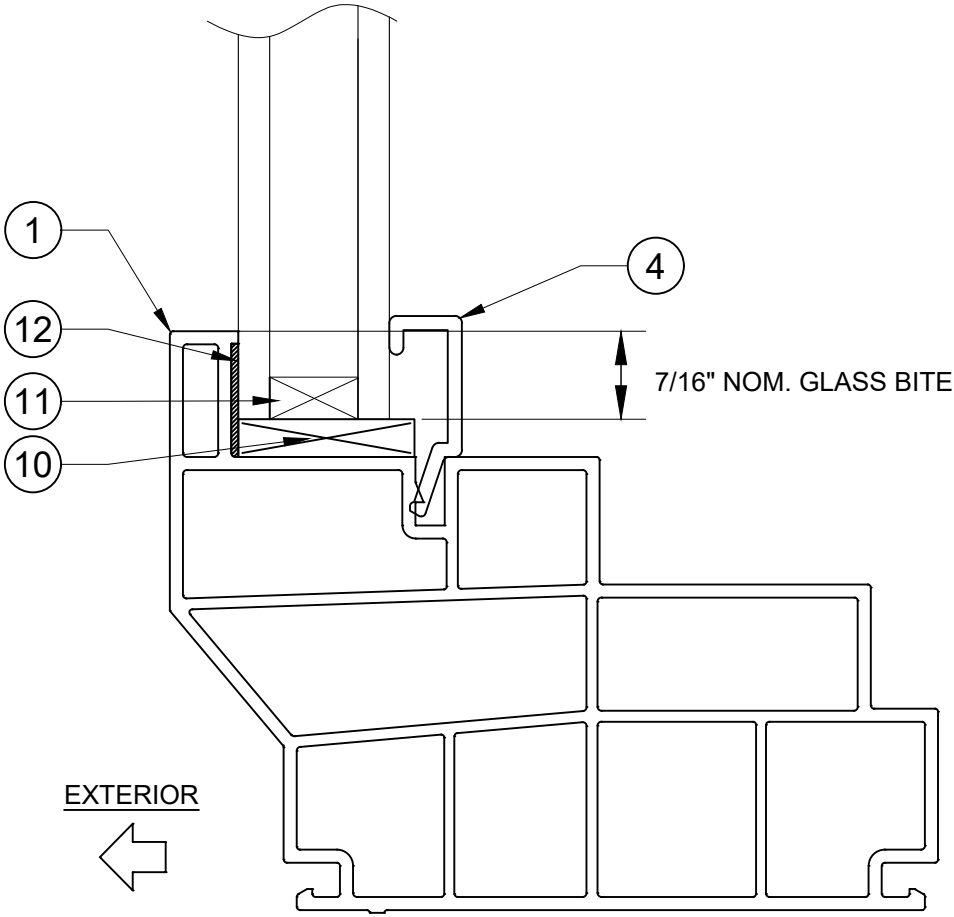
1 EQUAL-LEG FRAME



2 INTEGRAL FIN FRAME



3 J-CHANNEL FRAME



TYP. GLAZING DETAIL

PREPARED BY A. LYNN MILLER  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941) 480-1600

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GRATZ, PA 17030  
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02/11/26  
Date

VINYL PICTURE WINDOW (NI)  
Title

A MORLESIN  
By

ANCHORS/GLASS/BOM  
Desc.

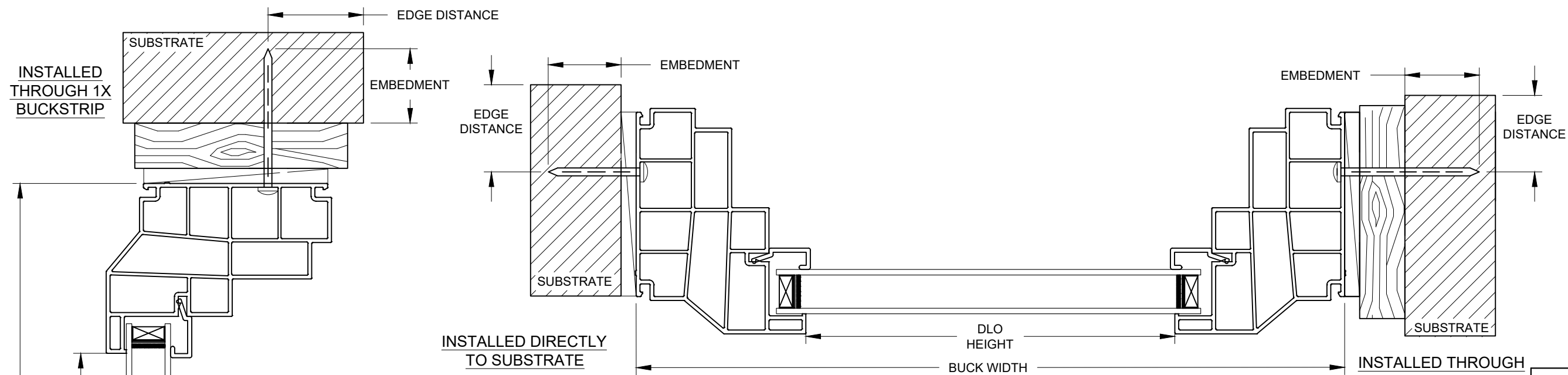
1650 PW  
Series

2 OF 3  
Sheet

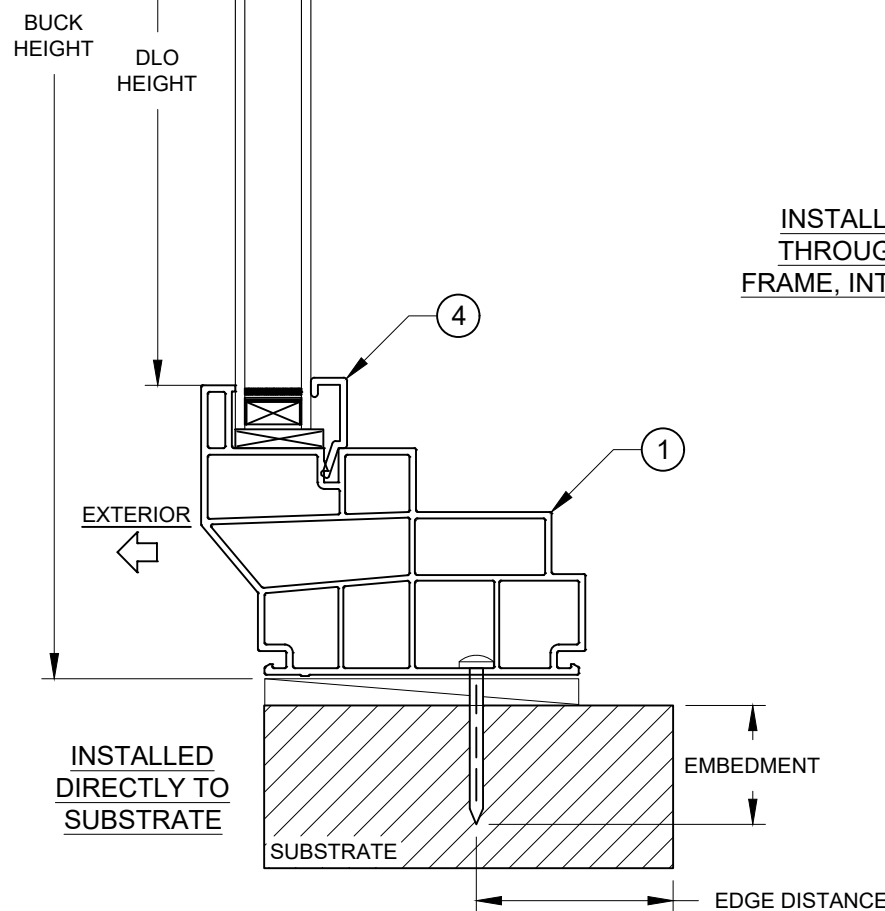
DWG  
No.

1650 PW-FPA-LM  
Title

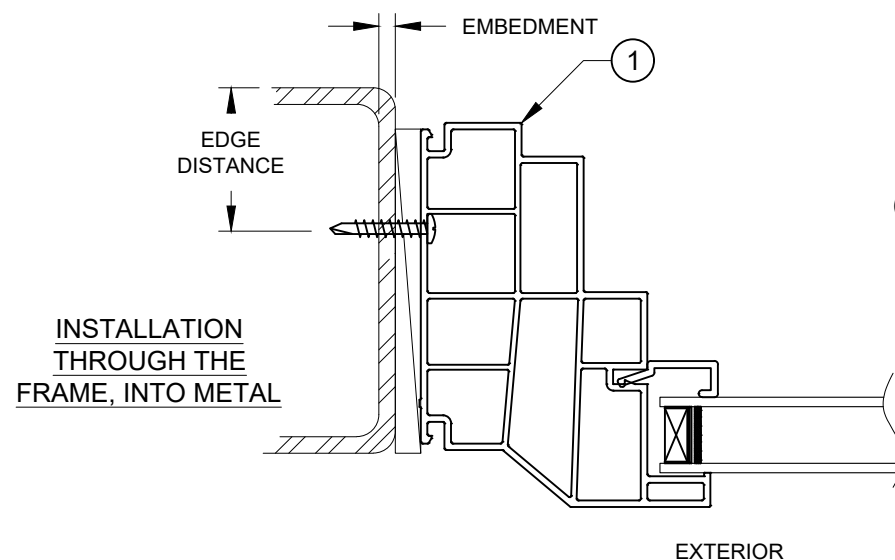
ANTHONY LYNN MILLER  
LICENSE  
No. 58705  
02/12/26  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER  
A. LYNN MILLER, P.E.  
P.E.# 58705



HORIZONTAL SECTION A-A

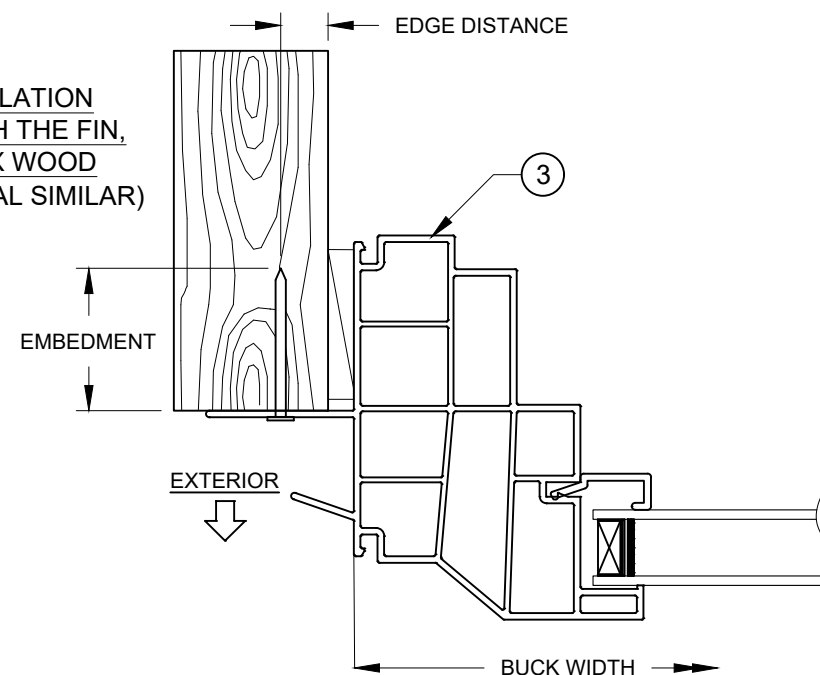


VERTICAL SECTION B-B



HORIZONTAL SECTION A-A

INSTALLATION  
THROUGH THE FIN,  
INTO 2X WOOD  
(INTO METAL SIMILAR)



HORIZONTAL SECTION C-C

J-CHANNEL FRAME SHOWN,  
INTEGRAL FIN FRAME SIMILAR, SEE  
NOTES BELOW.

INSTALLATION NOTES:

- 1) SEE SHEET 1 FOR ANCHOR SPACING REQUIREMENTS.
- 2) SEE TABLES 2 OR 3 ON SHEET 2 FOR ANCHORAGE AND SUBSTRATE REQUIREMENTS.
- 3) MAXIMUM SHIM THICKNESS TO BE 1/4".
- 4) MULTIPLE INSTALLATIONS SCENARIOS SHOWN, ANY OF WHICH MAY BE USED AT ANY FRAME MEMBER.
- 5) FOR INTEGRAL FIN & J-CHANNEL FRAMES ONLY: MAXIMUM SHIM SPACING OF 18" ON CENTER.
- 6) FIN OR FLANGE MAY BE REMOVED TO CREATE AN FINLESS FRAME.

|                                                                                                                                              |  |                                                                                                            |  |                                                                                                                                           |  |
|----------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------|--|
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| SECTION VIEWS                                                                                                                                |  | A MORLESIN                                                                                                 |  | Drawn By                                                                                                                                  |  |
| 1650 PW                                                                                                                                      |  | 3 OF 3                                                                                                     |  | Dwg No.                                                                                                                                   |  |
| Sheet                                                                                                                                        |  | 1650 PW-FPA-LM                                                                                             |  |                                                                                                                                           |  |

