

SERIES CA5440 NON-IMPACT RESISTANT  
VINYL CASEMENT WINDOW

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 1. 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. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

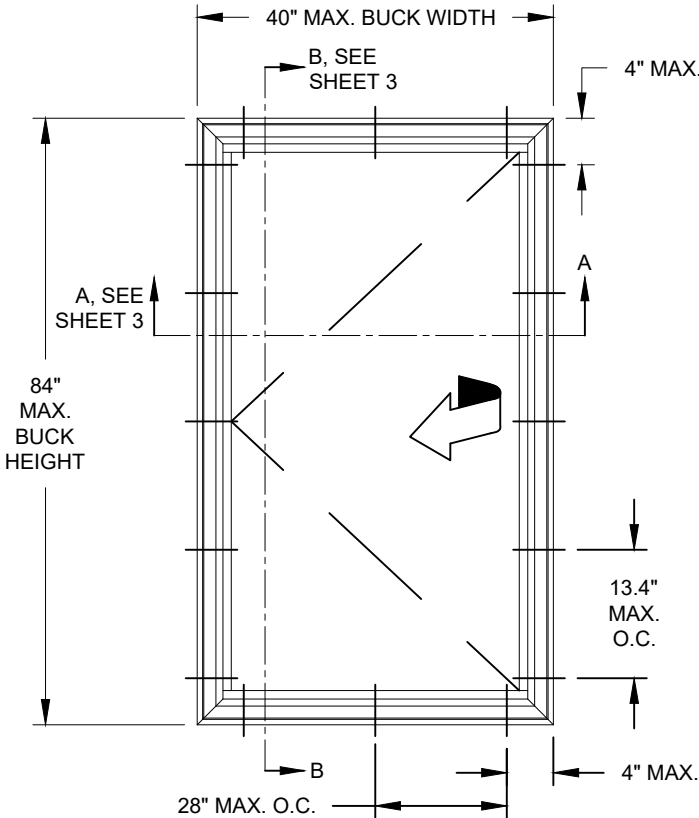
5) SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.

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.

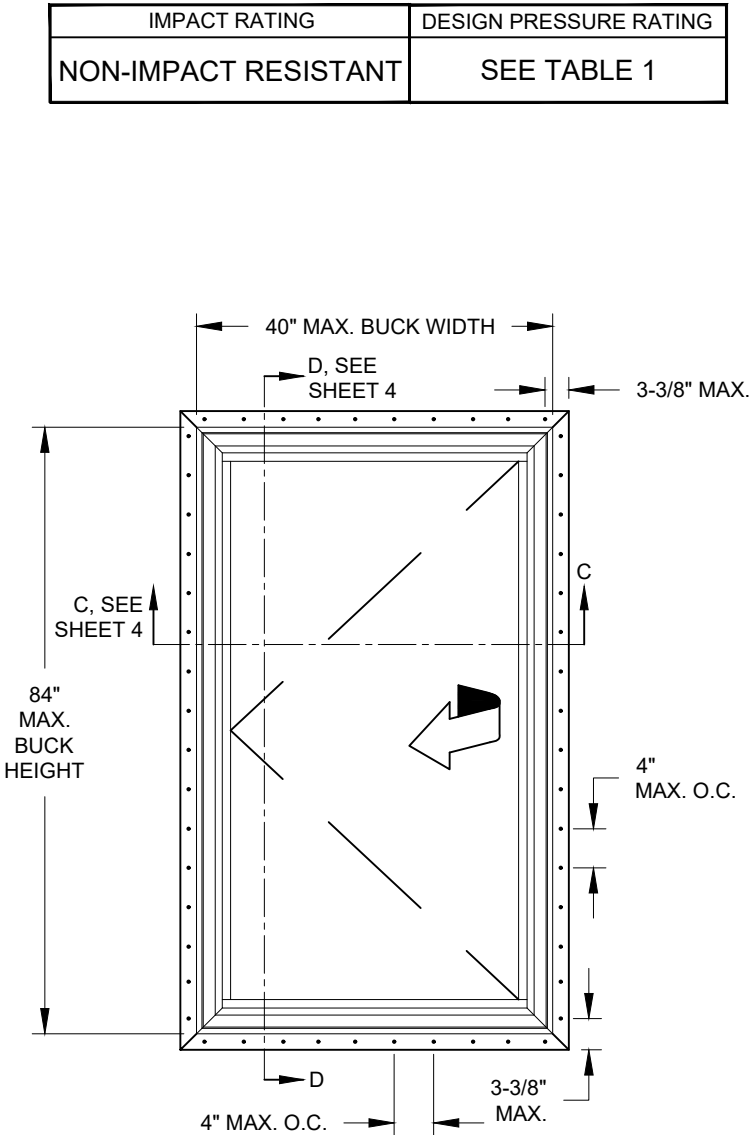
7) FRAME FLANGE OR INTEGRAL FINS MAY BE TRIMMED IN-FIELD TO CREATE AN EQUAL-LEG FRAME.

TABLE 1:

| Window Buck Size |        | Reinf. Level | Design Pressure |         | Product Rating |
|------------------|--------|--------------|-----------------|---------|----------------|
| Width            | Height |              | (+) psf         | (-) psf |                |
| 36"              | 75"    | Standard     | 50              | 50      | LC-PG50        |
| 40"              | 84"    | HD           | 65              | 70      | LC-PG65        |



ELEVATION FOR TYP.  
EQUAL LEG/BOX &  
FLANGE FRAME



ELEVATION FOR TYP.  
FIN & J-CHANNEL  
FRAME

| IMPACT RATING        | DESIGN PRESSURE RATING |
|----------------------|------------------------|
| NON-IMPACT RESISTANT | SEE TABLE 1            |

Revision:

B) NO CHANGES IN THIS SHEET.

|                                                                                                                                |                                                                                                            |                                |                            |  |             |            |              |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------|--|-------------|------------|--------------|--|--|--|
| <div>PGI</div> <div>Custom Windows and Doors</div> <div>1070 TECHNOLOGY DRIVE<br/>N. VENICE, FL 34275<br/>(941) 480-1600</div> | <div>PREPARED BY A. LYNN MILLER<br/>1070 TECHNOLOGY DRIVE<br/>N. VENICE, FL 34275<br/>(941) 480-1600</div> | <div>REGISTRATION #29296</div> | 06/12/11                   |  | A. MORLESIN | 5440FPA-NI | B            |  |  |  |
|                                                                                                                                |                                                                                                            |                                | Date                       |  |             |            |              |  |  |  |
|                                                                                                                                |                                                                                                            |                                | By                         |  |             |            |              |  |  |  |
|                                                                                                                                |                                                                                                            |                                | Dwg No.                    |  |             |            |              |  |  |  |
| VINYL CASEMENT WINDOW (NI)                                                                                                     |                                                                                                            |                                | GENERAL NOTES & ELEVATIONS |  | 1 OF 4      |            | CA5440       |  |  |  |
|                                                                                                                                |                                                                                                            |                                |                            |  |             |            |              |  |  |  |
|                                                                                                                                |                                                                                                            |                                |                            |  |             |            | Sheet        |  |  |  |
|                                                                                                                                |                                                                                                            |                                |                            |  |             |            |              |  |  |  |
|                                                                                                                                |                                                                                                            |                                |                            |  |             |            | Series Desc. |  |  |  |
|                                                                                                                                |                                                                                                            |                                |                            |  |             |            |              |  |  |  |

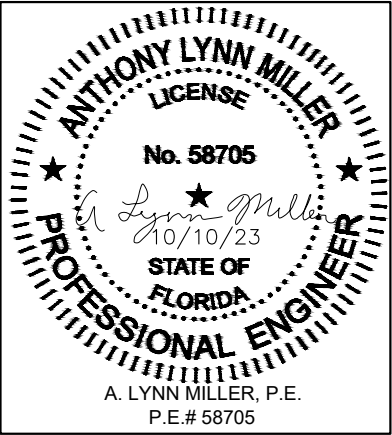


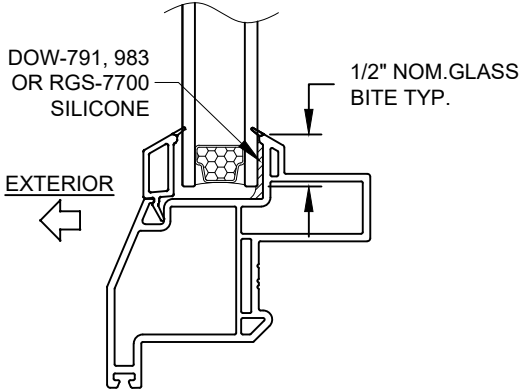
TABLE 2: ANCHORS INSTALLED THROUGH FRAME

| Anchor                                                              | Substrate                    | Min. Edge Distance | Min. Embedment   |
|---------------------------------------------------------------------|------------------------------|--------------------|------------------|
| #10 SMS<br>(steel, 18-8 S.S.<br>or 410 S.S.)<br>Max. DP of 50.0 psf | P.T. Southern Pine (SG=0.55) | 7/16"              | 1-3/8"           |
|                                                                     | Steel, A36                   | 3/8"               | 0.050"           |
|                                                                     | Steel Stud, A653 Gr. 33      | 3/8"               | 0.0346" (20 Ga.) |
|                                                                     | Aluminum, 6063-T5            | 3/8"               | 0.0713" (14 Ga.) |
| #12 SMS<br>(steel, 18-8 S.S.<br>or 410 S.S.)                        | P.T. Southern Pine (SG=0.55) | 9/16"              | 1-3/8"           |
|                                                                     | Steel, A36                   | 3/8"               | 0.050"           |
|                                                                     | Steel Stud, A653 Gr. 33      | 3/8"               | 0.0346" (20 Ga.) |
|                                                                     | Aluminum, 6063-T5            | 3/8"               | 0.0713" (14 Ga.) |
| 1/4" Ultracon+ (steel)                                              | P.T. Southern Pine (SG=0.55) | 1"                 | 1-3/8"           |
|                                                                     | Concrete (min. 3.00 ksi)     | 1"                 | 1-3/4"           |
|                                                                     | UngROUTED CMU, (ASTM C-90)   | 2-1/2"             | 1-1/4"           |
| 1/4" Crete-Flex<br>(410 S.S.)                                       | P.T. Southern Pine (SG=0.55) | 1"                 | 1-3/8"           |
|                                                                     | Concrete (min. 3.35 ksi)     | 1"                 | 1-3/4"           |
|                                                                     | UngROUTED CMU, (ASTM C-90)   | 2-1/2"             | 1-1/4"           |
| 1/4" Aggre-Gator<br>(18-8 S.S.)                                     | Concrete (min. 3.275 ksi)    | 1-1/2"             | 1-3/8"           |
|                                                                     | P.T. Southern Pine (SG=0.55) | 1"                 | 1-3/8"           |
|                                                                     | UngROUTED CMU, (ASTM C-90)   | 2"                 | 1-1/4"           |

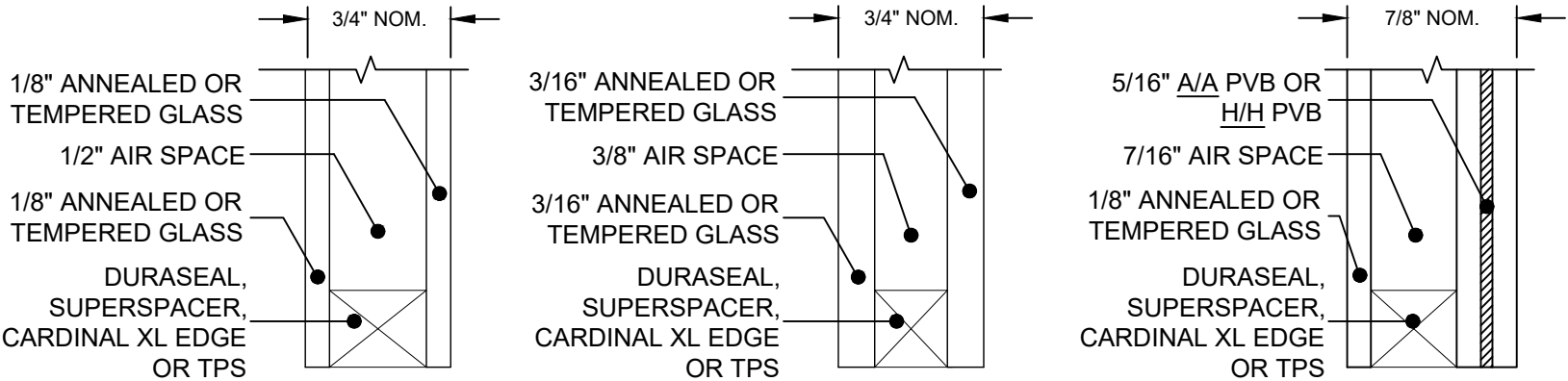
TABLE 3: ANCHORS INSTALLED THROUGH INTEGRAL FIN

| Anchor                                        | Substrate                   | Min. Edge Distance | Min. Embedment   |
|-----------------------------------------------|-----------------------------|--------------------|------------------|
| 2-1/2" x .131" Common Nail<br>Max. DP of 50.0 | P.T. Southern Pine (SG=.55) | 9/16"              | 2-7/16"          |
| 2-1/2" x .131" Ring-shank Nail                | P.T. Southern Pine (SG=.55) | 9/16"              | 2-7/16"          |
| 2-1/2" x .145" Roofing Nail                   | P.T. Southern Pine (SG=.55) | 9/16"              | 2-7/16"          |
| #10 SMS<br>(steel, 18-8 S.S.<br>or 410 S.S.)  | P.T. Southern Pine (SG=.55) | 3/4"               | 1-3/8"           |
|                                               | Aluminum, 6063-T5           | 3/8"               | 0.0713" (14 Ga.) |
|                                               | Steel Stud, Gr. 33          | 3/8"               | 0.0346" (20 Ga.) |
|                                               | Steel, A36                  | 3/8"               | 0.050"           |

- ANCHOR NOTES:
- 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.



TYP. GLAZING DETAIL



GLASS TYPES

PVB = KURARAY TROSIFOL PVB INTERLAYER BY KURARAY AMERICA, INC.  
A = ANNEALED  
H = HEAT STRENGTHENED

Revision: B) REMOVED 1/4" & 3/16" ULTRACON FROM ANCHOR TABLES.

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

REGISTRATION #29296

1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941) 480-1600

VINYL CASEMENT WINDOW (NI)

GLASS/ANCHORS OPTIONS

CA5440

06/12/11

A. MORLESIN

5440FPA-NI

2 OF 4

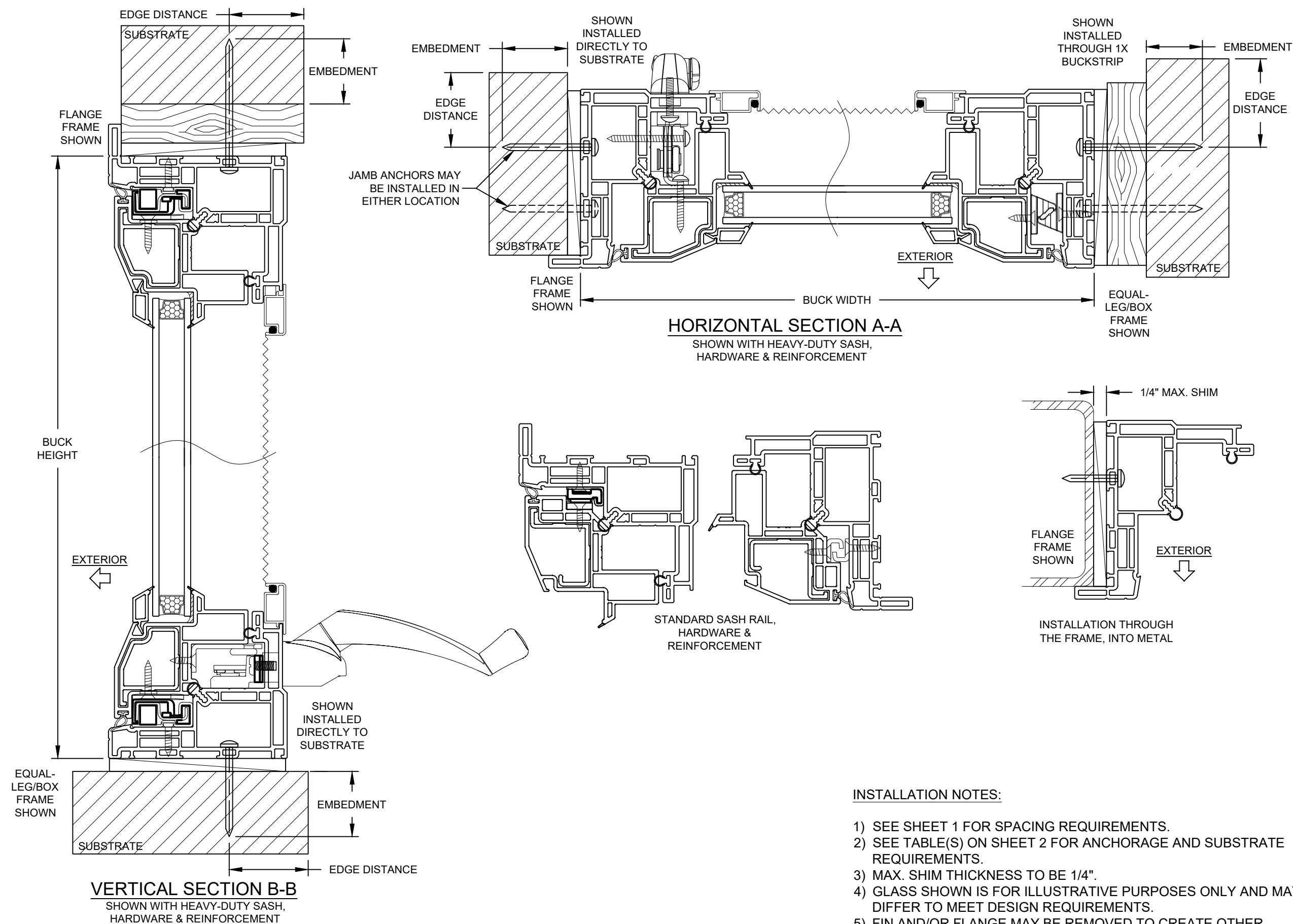
CA5440

Rev.

DWG

Sheet

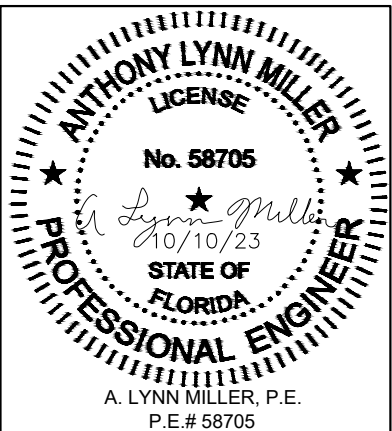
ANTHONY LYNN MILLER  
LICENSE  
No. 58705  
10/10/23  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
A. LYNN MILLER, P.E.  
P.E.# 58705

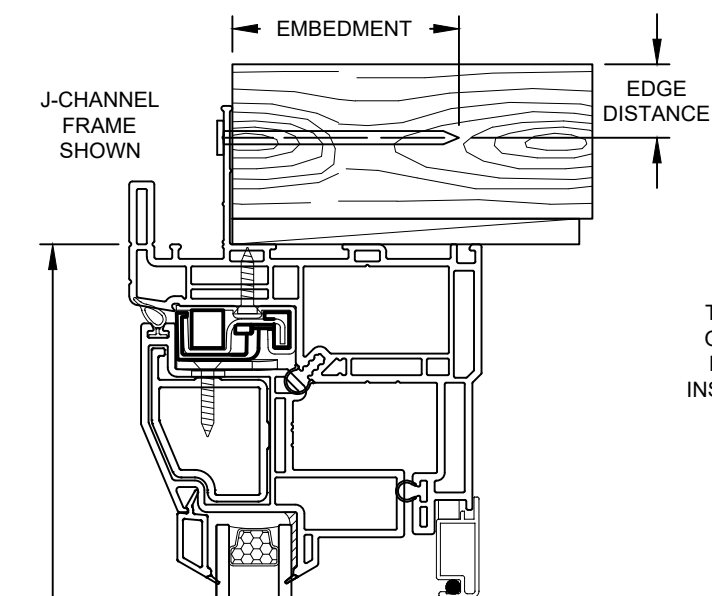


Revision:

**B) NO CHANGES IN THIS SHEET.**

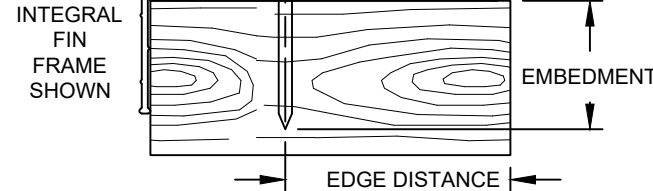
|                                                                                     |                                                                                              |             |                                                                |         |                     |      |                  |   |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------|---------|---------------------|------|------------------|---|
|  | <b>Custom Windows and Doors</b>                                                              |             | 1070 TECHNOLOGY DRIVE<br>N. VENICE, FL 34275<br>(941) 480-1600 |         | REGISTRATION #29296 |      | 06/12/11<br>Date |   |
|                                                                                     | PREPARED BY A. LYNN MILLER<br>1070 TECHNOLOGY DRIVE<br>N. VENICE, FL 34275<br>(941) 480-1600 |             |                                                                |         |                     |      |                  |   |
| Series                                                                              | CA5440                                                                                       | Sheet       | 3 OF 4                                                         | DWG No. | 5440FPA-NI          |      | Rev.             | B |
| VINYL CASEMENT WINDOW (NI)                                                          |                                                                                              |             |                                                                |         |                     |      |                  |   |
| FLANGE/EQUAL-LEG INSTALL.                                                           |                                                                                              |             |                                                                |         |                     |      |                  |   |
| Desc.                                                                               |                                                                                              | A. MORLESIN |                                                                | By      |                     | Date |                  |   |



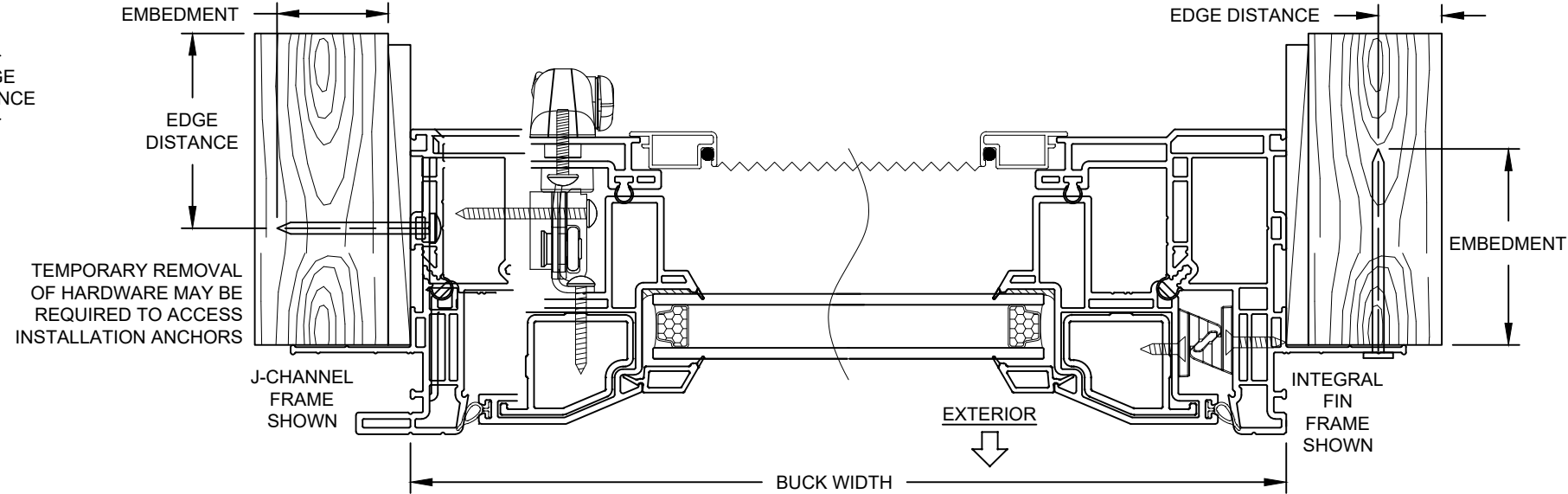


BUCK HEIGHT

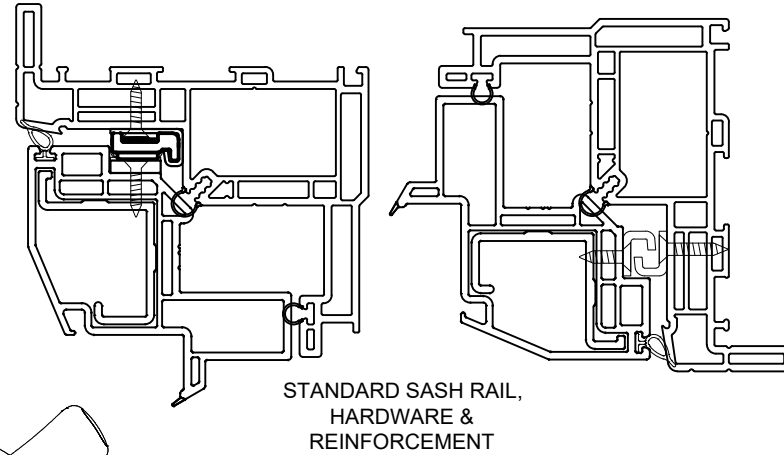
EXTERIOR



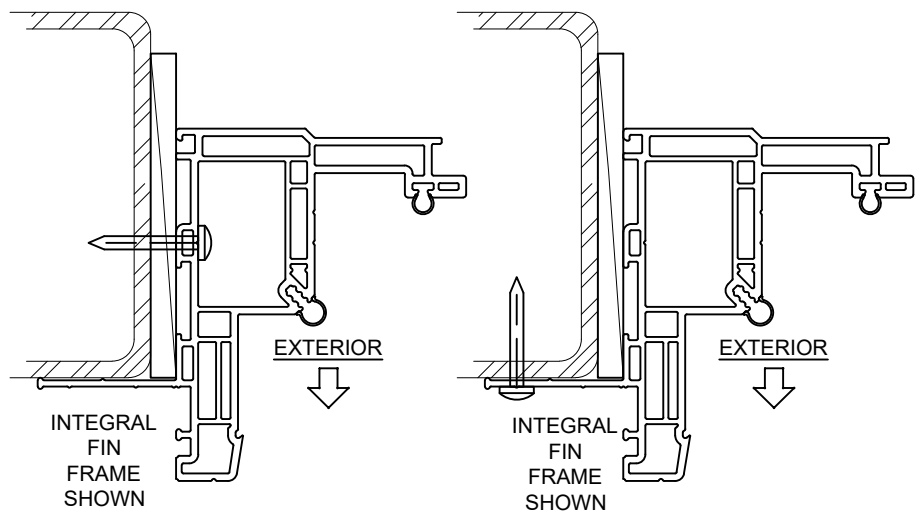
**VERTICAL SECTION D-D**  
SHOWN WITH HEAVY-DUTY SASH,  
HARDWARE & REINFORCEMENT



**HORIZONTAL SECTION C-C**  
SHOWN WITH HEAVY-DUTY SASH,  
HARDWARE & REINFORCEMENT



STANDARD SASH RAIL,  
HARDWARE &  
REINFORCEMENT



INSTALLATION THROUGH  
THE FRAME, INTO METAL

INSTALLATION THROUGH THE  
INTEGRAL FIN, INTO METAL

**INSTALLATION NOTES:**

- 1) SEE SHEET 1 FOR SPACING REQUIREMENTS.
- 2) SEE TABLE(S) ON SHEET 2 FOR ANCHORAGE AND SUBSTRATE REQUIREMENTS.
- 3) MAX. SHIM THICKNESS TO BE 1/4".
- 4) GLASS SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER TO MEET DESIGN REQUIREMENTS.
- 5) FIN AND/OR FLANGE MAY BE REMOVED TO CREATE OTHER FRAME TYPES.

Revision: B) NO CHANGES IN THIS SHEET.

|                                                                                                                                |  |                                                                                                            |  |                                          |  |                                     |  |
|--------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------|--|------------------------------------------|--|-------------------------------------|--|
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| <div>VINYL CASEMENT WINDOW (NI)</div>                                                                                          |  | <div>A. MORLESIN</div> <div>By</div>                                                                       |  | <div>5440FPA-NI</div> <div>DWG No.</div> |  | <div>Rev. B</div>                   |  |
| <div>INTEGRAL FIN INSTALLATION</div>                                                                                           |  | <div>4 OF 4</div> <div>Sheet</div>                                                                         |  | <div>5440FPA-NI</div> <div>DWG No.</div> |  | <div>Rev. B</div>                   |  |
| <div>CA5440</div> <div>Series</div>                                                                                            |  | <div>4 OF 4</div> <div>Sheet</div>                                                                         |  | <div>5440FPA-NI</div> <div>DWG No.</div> |  | <div>Rev. B</div>                   |  |
| <div>CA5440</div> <div>Series</div>                                                                                            |  | <div>4 OF 4</div> <div>Sheet</div>                                                                         |  | <div>5440FPA-NI</div> <div>DWG No.</div> |  | <div>Rev. B</div>                   |  |

