

**SERIES SH5400 NON-IMPACT RESISTANT, VINYL
SINGLE HUNG 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 TABLES 2&3. 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. ANCHORS AND FRAME CORNERS SHOULD BE SEALED. 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 FLANGES OR INTEGRAL FINS MAY BE TRIMMED IN-FIELD TO CREATE EQUAL-LEG FRAME.

TABLE 1:

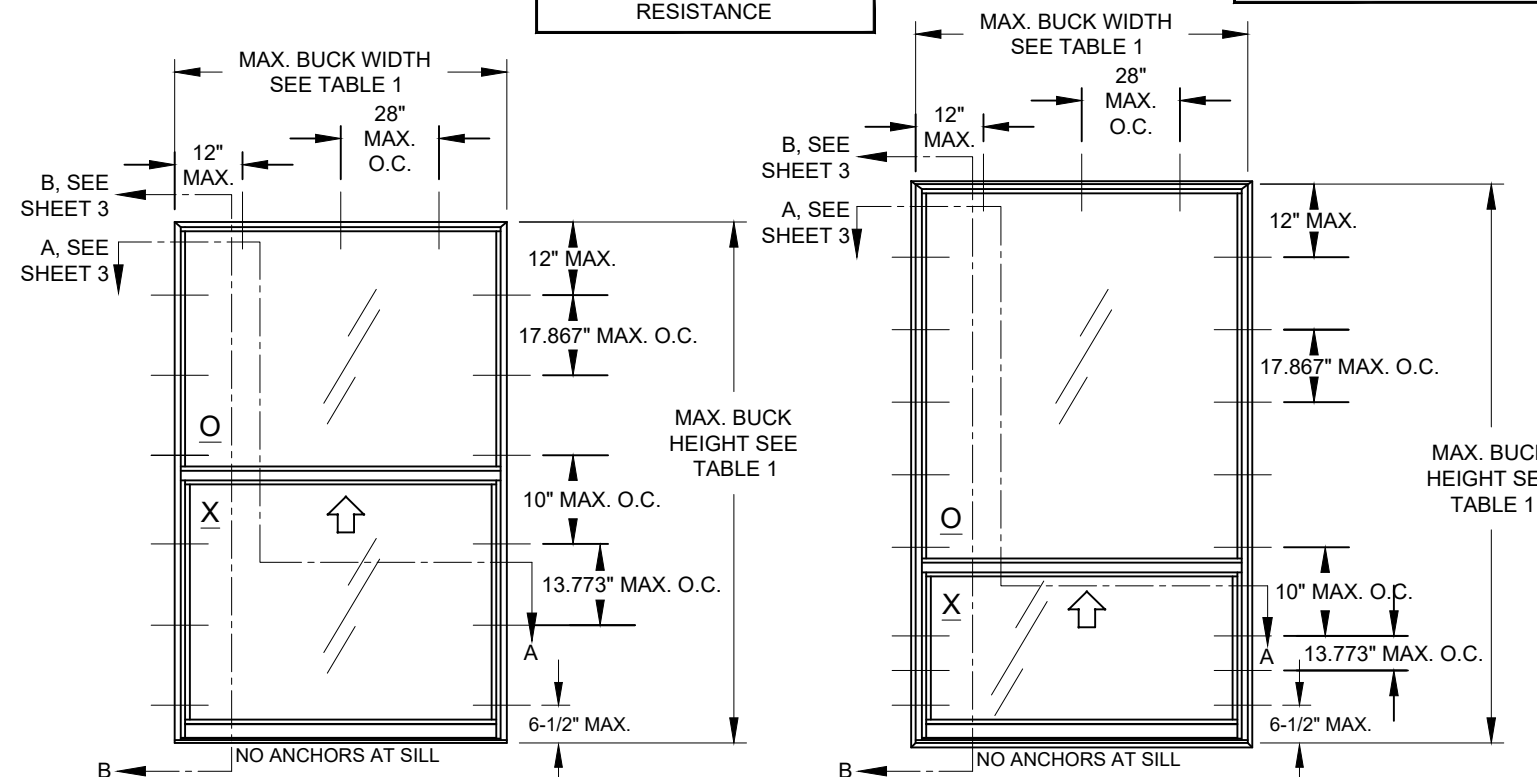
| Window Buck Size | | Configuration | Reinf. Level | Design Pressure | | Product Rating |
|------------------|-----------|---------------|--------------|-----------------|---------|----------------|
| Width | Height | | | (+) psf | (-) psf | |
| 40" | 63" | Equal-lite | R4 | 50.0 | 70.0 | R-PG50 |
| 36" | 62" | Std. ProView | R4 | 50.0 | 50.0 | LC-PG50 |
| 36" | 67-9/16" | Custom Sash | | | | |
| 52-1/8" | 84" | Equal-lite | R1 | 50.0 | 50.0 | LC-PG50 |
| 52-1/8" | 84" | Std. ProView | | | | |
| 52-1/8" | 91-13/16" | Custom Sash | | | | |
| 52-1/8" | 84" | Equal-lite | R2 | 65.0 | 70.0 | LC-PG65 |
| 52-1/8" | 84" | Std. ProView | | | | |
| 52-1/8" | 91-13/16" | Custom Sash | | | | |

MIN. SASH HEIGHT = WINDOW BUCK HEIGHT - 50.136 (APPLIES TO ANY HEIGHT 91.78" OR LESS).

FLORIDA PRODUCT APPROVAL #1435

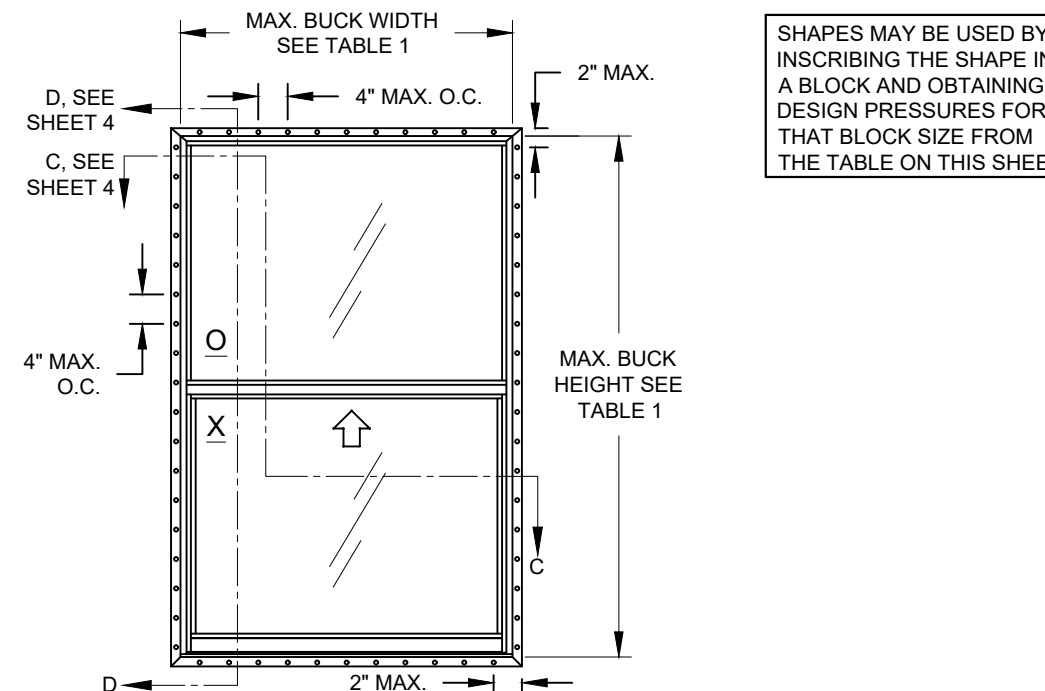
IMPACT RATING
NOT RATED FOR IMPACT RESISTANCE

DESIGN PRESSURE RATING
SEE TABLE 1



ELEVATION FOR TYP. EQUAL LEG FRAME,
EQUAL-LITE CONFIGURATION

ELEVATION FOR TYP. FLANGE FRAME,
PROVIEW/ORIEL CONFIGURATION
(COTTAGE SIMILAR)



ELEVATION FOR TYP. FIN OR J-CANNEL FRAME,
EQUAL-LITE CONFIGURATION
(SIMILAR ANCHOR DIMENSIONS FOR OTHER CONFIGURATIONS)

Revision: D) NO CHANGES ON THIS SHEET.

| | | | |
|--|---|---------|--------------|
| PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 | REGISTRATION #29296 | Date | 06/12/11 |
| | | By | A. MORLESIN |
| PGI Custom Windows and Doors 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 | VINYL SINGLE HUNG WINDOW (NI) GENERAL NOTES & ELEVATION. | DWG No. | SH5400FPA-NI |
| | | Sheet | 1 OF 4 |
| Series | SH5400 | Rev. | D |

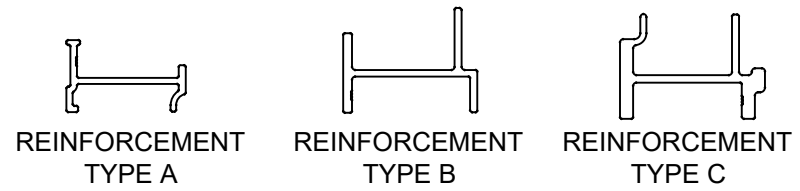
ANTHONY LYNN MILLER
 LICENSE
 No. 58705
Lynn Miller
 10/11/23
 STATE OF
 FLORIDA
PROFESSIONAL ENGINEER
 A. LYNN MILLER, P.E.
 P.E.# 58705

TABLE 2: ANCHORS INSTALLED THROUGH FRAME

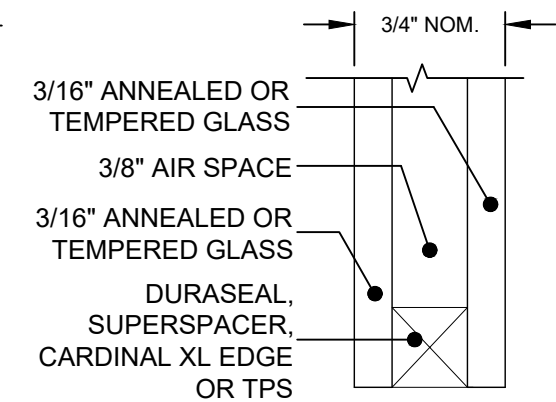
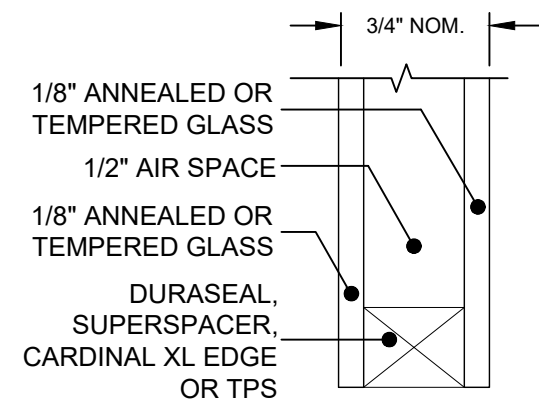
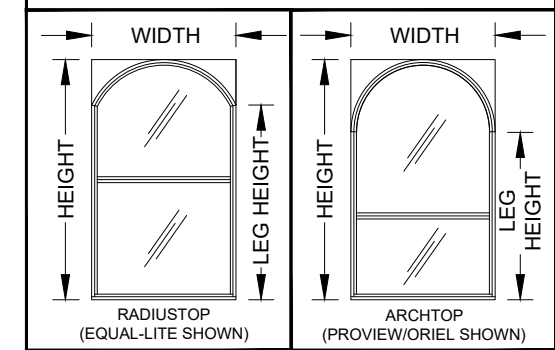
| Anchor | Substrate | Min. Edge Distance | Min. Embedment |
|---|------------------------------|--------------------|------------------|
| #10 SMS (steel, 18-8 S.S. or 410 S.S.) Max. DP of 50.0 psf | P.T. Southern Pine (SG=0.55) | 7/16" | 1-3/8" |
| | Steel, A36 | 3/8" | 0.050" |
| | Steel Stud, A653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

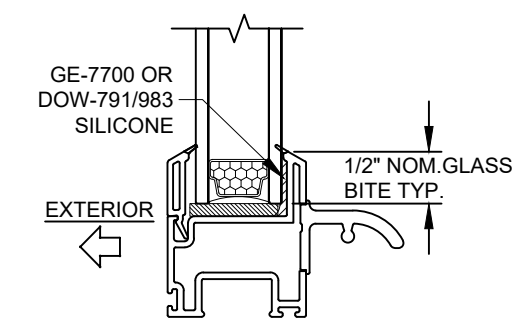
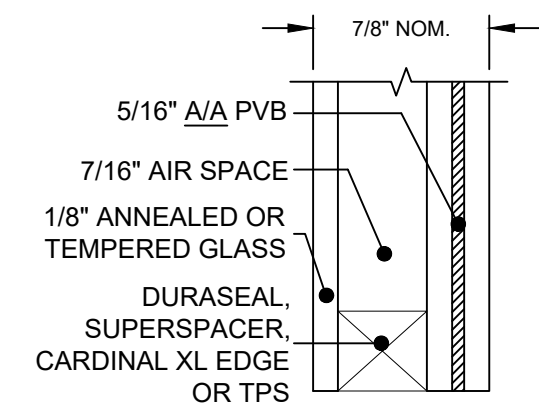
| Level | Reinforcement | | | |
|-------|---------------|------------|-------------|------------|
| | Upper Lite | Lower Lite | | |
| | Bottom Rail | Top Rail | Bottom Rail | Side Rails |
| R1 | B | A | A | A |
| R2 | C | A | A | A |
| R4 | B | A | A | N/A |



WINDOW SHAPES AS SHOWN BELOW OR SIMILAR, MAY BE USED BY INSCRIBING THE SHAPE IN A BLOCK AND OBTAINING DESIGN PRESSURES AND ANCHORAGE FOR THAT BLOCK SIZE FROM THE TABLE ON SHEET 1.



GLASS TYPES



TYP. GLAZING DETAIL
PVB INTERLAYER MANUFACTURED BY KURARAY AMERICA, INC.

TABLE 3: ANCHORS INSTALLED THROUGH INTEGRAL FIN

| Anchor | Substrate | Min. Edge Distance | Min. Embedment |
|---|-----------------------------|--------------------|------------------|
| 2-1/2" x .131" Common Nail 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 (steel, 18-8 S.S. 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" |

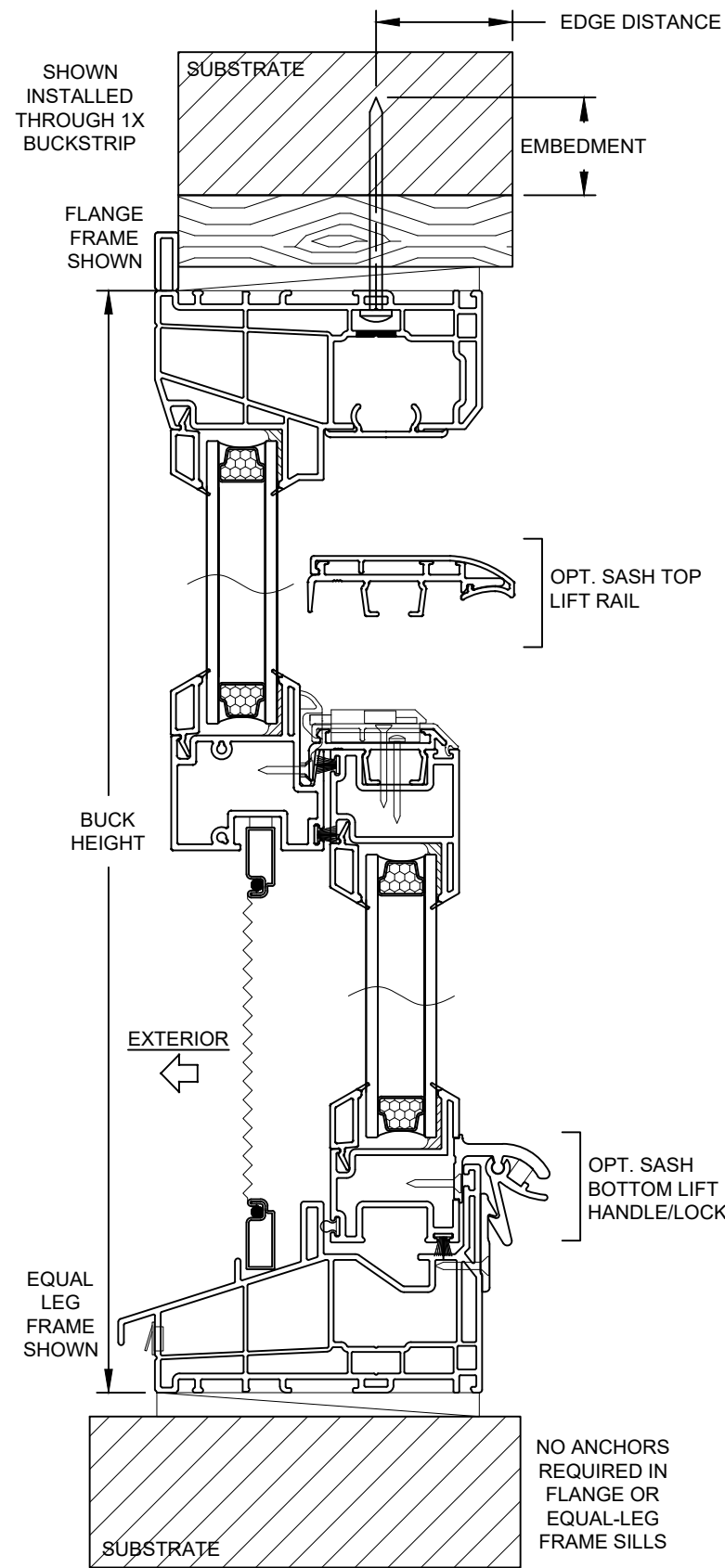
ANCHOR NOTES FOR TABLES 2 & 3:

- 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.

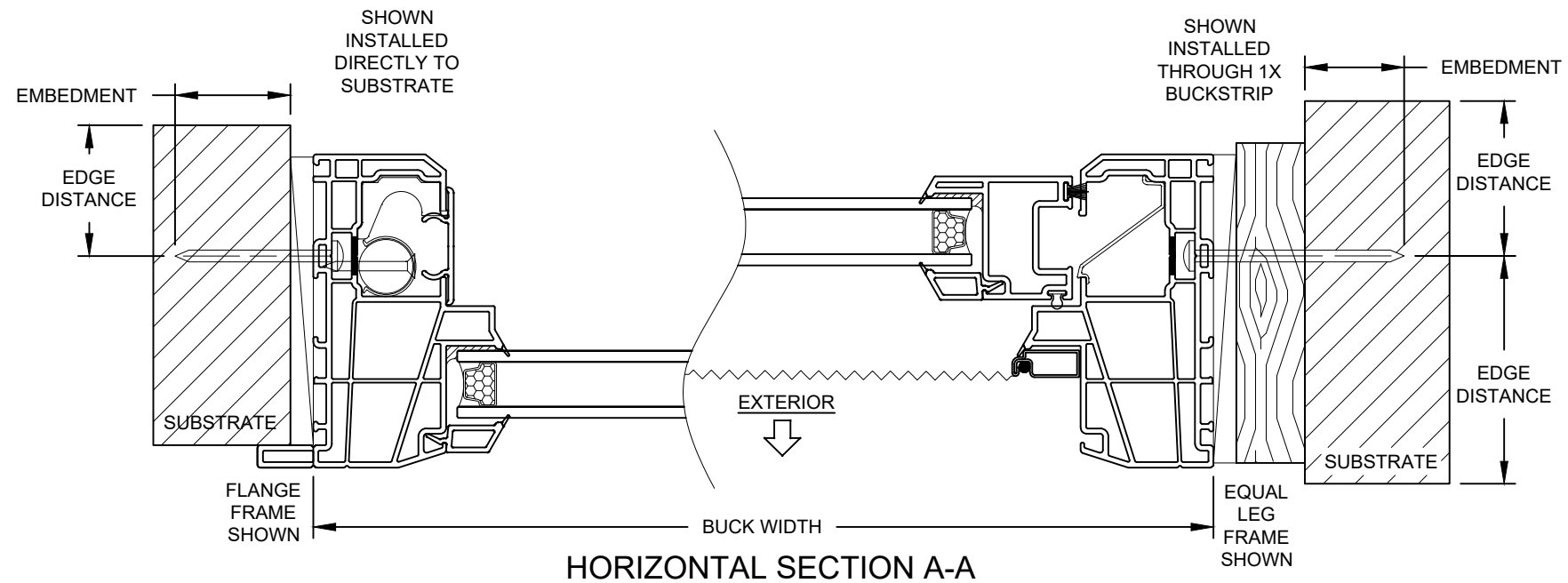
Revision: D) REMOVED ULTRACON 1/4" & 3/6" FROM ANCHOR TABLES.

| | | | | | |
|--|--|------------------------------------|-------------|---------|--------|
| PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 | REGISTRATION #29296 | Date | 06/12/11 | Rev. | D |
| | VINYL SINGLE HUNG WINDOW (NI) ANCHOR & GLAZING DETAILS. | By | A. MORLESIN | DWG No. | 2 OF 4 |
| PGI Custom Windows and Doors 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 | SHEET SH5400 | Series Desc. Title SH5400FPA-NI | | | |

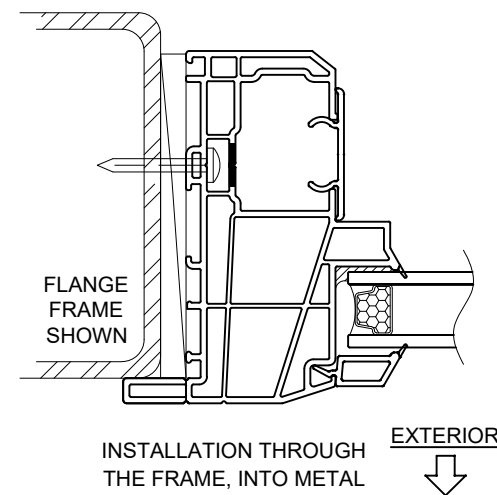
ANTHONY LYNN MILLER
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VERTICAL SECTION B-B



HORIZONTAL SECTION A-A

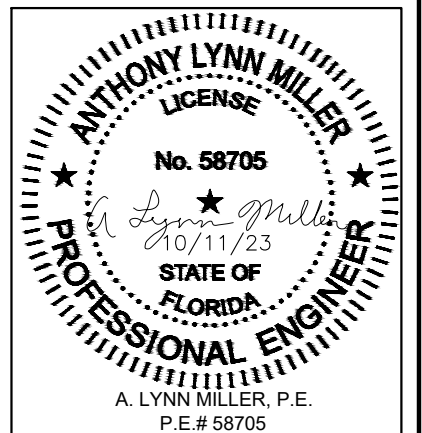


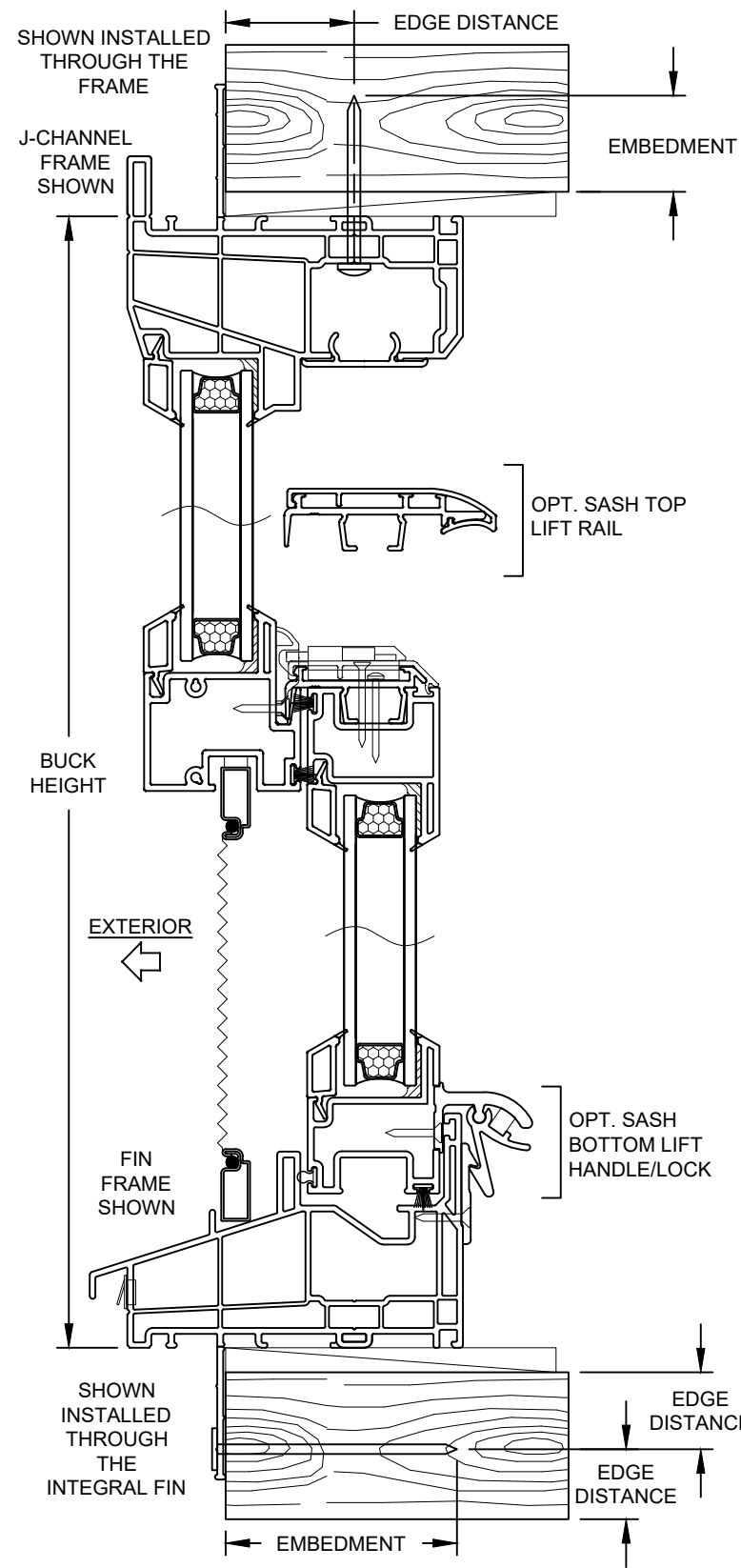
INSTALLATION NOTES:

- 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.

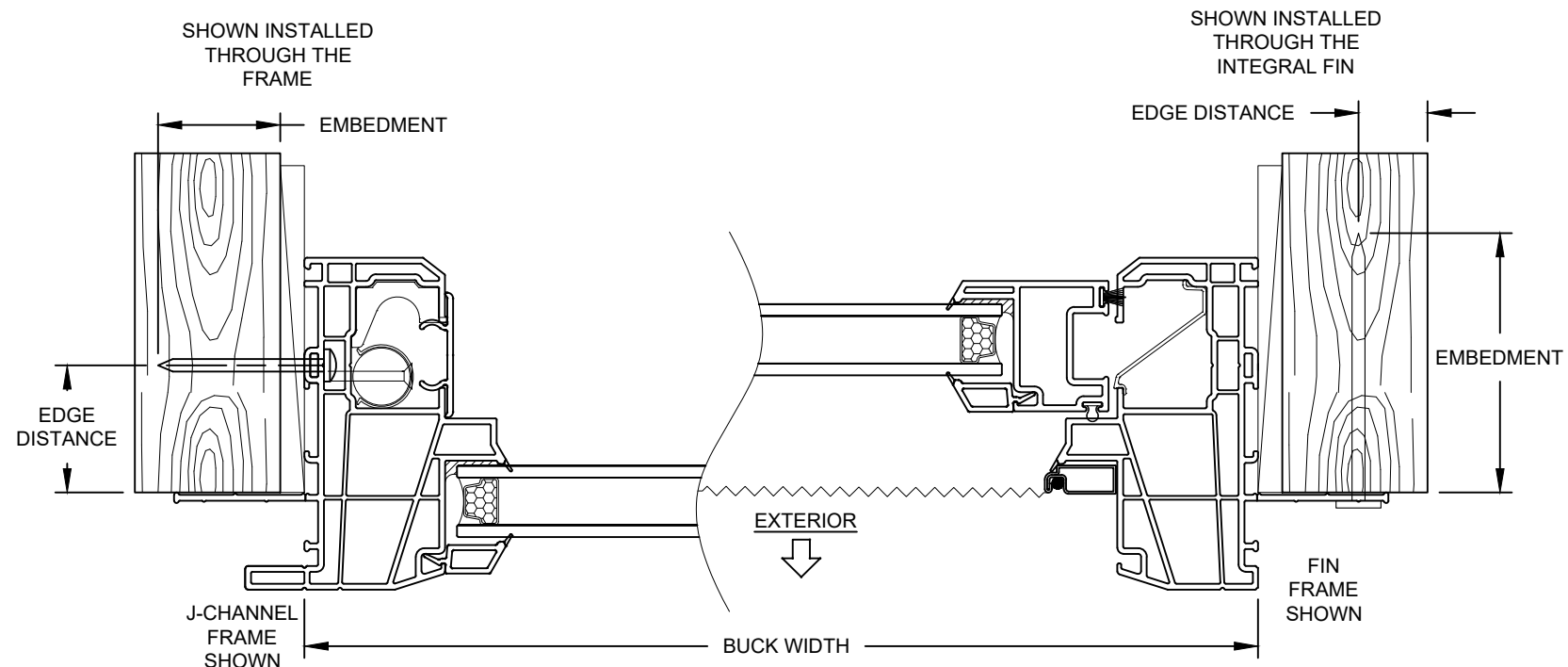
Revision: D) NO CHANGES IN THIS SHEET.

| | | | | | |
|--|--|-------|-------------|---------|--------------|
| PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 | REGISTRATION #29296 | Date | 06/12/11 | Rev. | D |
| | VINYL SINGLE HUNG WINDOW (NI) FLANGE INSTALLATIONS. | By | A. MORLESIN | DWG No. | SH5400FPA-NI |
| PGI Custom Windows and Doors 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 | SH5400 | Sheet | 3 OF 4 | No. | SH5400FPA-NI |

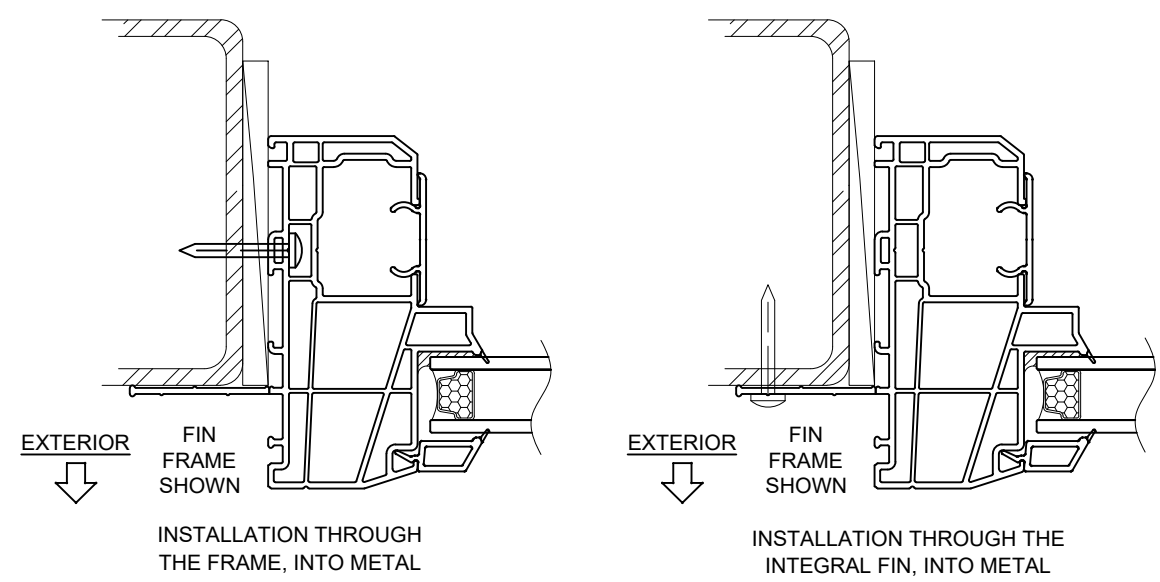




VERTICAL SECTION D-D



HORIZONTAL SECTION C-C



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: D) ADD NOTE INSTALL OP. 4

| | | | | | |
|--|--|---|--------------------|-------------|---------|
| PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 | REGISTRATION #29296 | Date | 06/12/11 | Rev. | D |
| | Custom Windows and Doors 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 | VINYL SINGLE HUNG WINDOW (NI) FIN INSTALLATIONS. | By | A. MORLESIN | DWG No. |
| PGT Custom Windows and Doors 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 | SH5400 4 OF 4 SHEET | Series Desc. | FIN INSTALLATIONS. | Sheet | 4 OF 4 |

