

SERIES 5510  
IMPACT RESISTANT HORIZONTAL ROLLER

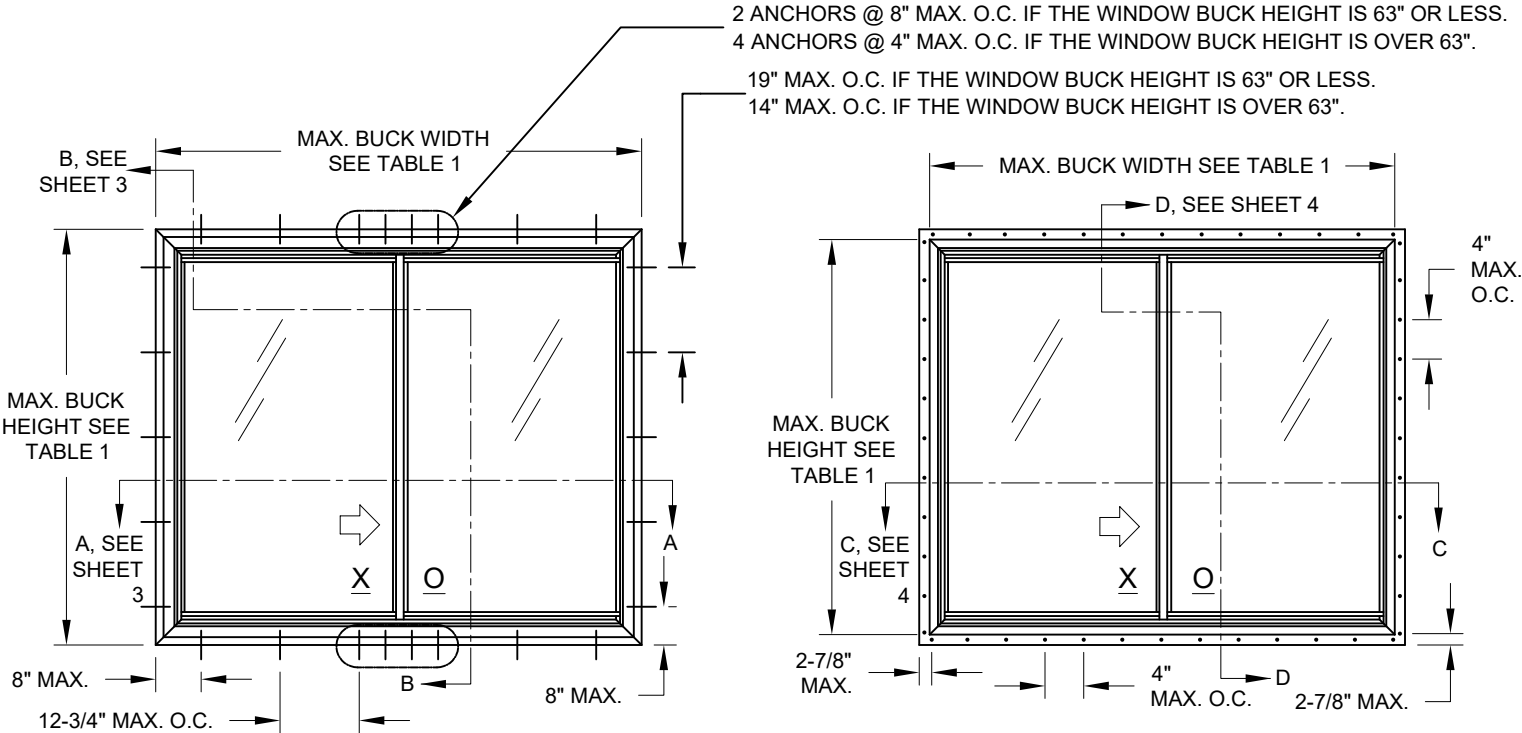
- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE.
- 2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- 3) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND SECURED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER, (EOR) OR ARCHITECT OF RECORD, (AOR).
- 4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE EMBEDMENT. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- 5) MAX. 1/4" SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. FOR INTEGRAL FIN FRAMES INSTALL SHIMS AT MAX. 18" O.C.
- 6) DESIGN PRESSURES:  
A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL/CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.  
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL/ CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.  
C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.
- 7) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS 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.
- 8) REFER TO CURRENT FLORIDA BUILDING CODE FOR EGRESS REQUIREMENTS.
- 9) FRAME FLANGES OR INTEGRAL FINS MAY BE TRIMMED IN-FIELD TO CREATE AN EQUAL-LEG FRAME.

TABLE 1:

| Window Buck Size |        | Configuration     | Reinf. Level | Design Pressure |         | Glass Types | Product Rating |
|------------------|--------|-------------------|--------------|-----------------|---------|-------------|----------------|
| Width            | Height |                   |              | (+) psf         | (-) psf |             |                |
| 75"              | 63"    | XO/OX             | R3           | 50.0            | 50.0    | 5-8         | LC-PG50        |
| 75"              | 63"    | XO/OX             | R4           | 60.0            | 60.0    | 5           | LC-PG60        |
| 75"              | 63"    | XO/OX             | R4           | 65.0            | 70.0    | 5-8         | LC-PG65        |
| 75"              | 72"    | XO/OX             | R4           | 50.0            | 50.0    | 5-8         | LC-PG50        |
| 120"             | 63"    | XOX (1/4-1/2-1/4) | R3           | 45.0            | 45.0    | 5           | LC-PG45        |
| 92"              | 63"    | XOX (1/3-1/3-1/3) |              |                 |         |             |                |
| 120"             | 63"    | XOX (1/4-1/2-1/4) | R3           | 50.0            | 50.0    | 5-8         | LC-PG50        |
| 92"              | 63"    | XOX (1/3-1/3-1/3) |              |                 |         |             |                |
| 120"             | 63"    | XOX (1/4-1/2-1/4) | R4           | 65.0            | 65.0    | 7           | LC-PG65        |
| 92"              | 63"    | XOX (1/3-1/3-1/3) |              |                 |         |             |                |
| 120"             | 63"    | XOX (1/4-1/2-1/4) | R4           | 65.0            | 70.0    | 7 & 8       | LC-PG65        |
| 92"              | 63"    | XOX (1/3-1/3-1/3) |              |                 |         |             |                |

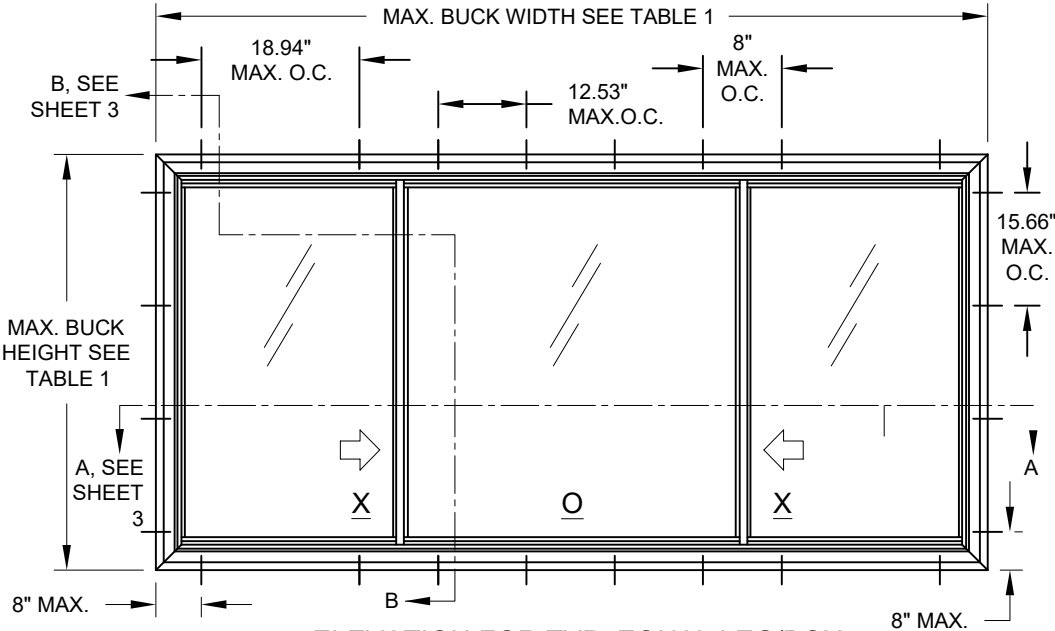
SEE SHEET 2 FOR GLASS TYPES

FLORIDA PRODUCT APPROVAL #1844



ELEVATION FOR TYP. EQUAL LEG/BOX  
& FLANGE FRAME,  
XO CONFIGURATION, OX SIMILAR

ELEVATION FOR TYP. FIN OR J-CHANNEL FRAME,  
XO CONFIGURATION, OX & XOX SIMILAR



ELEVATION FOR TYP. EQUAL LEG/BOX  
& FLANGE FRAME, XOX CONFIGURATION

MAX. SASH WIDTH = 30.36"  
MAX. FIXED LITE (BUCK WIDTH - [2 X SASH WIDTH]) = 59.28"

WHERE THE PRODUCT WILL BE INSTALLED WITHIN 3,000 FEET OF A SALTWATER COASTLINE, IT MUST COMPLY WITH SECTION 1711 OF THE FBC, BUILDING OR R332 OF THE FBC, RESIDENTIAL.

VISIBLE LIGHT FORMULAS  
(EQUAL-LITE, XO & OX)

WIDTH: BUCK WIDTH / 2 - 4-1/4"  
HEIGHT: BUCK HEIGHT - 7-1/4"

|                                                                               |
|-------------------------------------------------------------------------------|
| DESIGN PRESSURE RATING                                                        |
| SEE TABLE 1                                                                   |
| WATER TEST PRESSURE                                                           |
| 15% OF (+) DP                                                                 |
| IMPACT RATING                                                                 |
| RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE MISSILE LEVEL D, WINDZONE 4 |

|                                                                                                     |                                                                                        |                     |                                |          |               |           |
|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------|--------------------------------|----------|---------------|-----------|
| PREPARED BY A. LYNN MILLER<br>3400 PRECISION DRIVE<br>N. VENICE, FL 34275<br>(941) 480-1600         | COPYRIGHT © 2026 PGT INDUSTRIES, LLC<br>LIMITED LICENSE TO MAKE COPIES FOR PERMITTING. | REGISTRATION #29296 | VINYL HORIZONTAL ROLLER WINDOW | Date     | JENS ROSOWSKI | HR5510-LM |
|                                                                                                     |                                                                                        |                     |                                | 07/07/26 |               |           |
| PGT <sup>®</sup> WINDOWS and DOORS<br>3400 PRECISION DRIVE<br>N. VENICE, FL 34275<br>(941) 480-1600 |                                                                                        |                     | GENERAL NOTES & ELEVATION.     | Sheet    | 1 OF 4        | HR5510    |
|                                                                                                     |                                                                                        |                     |                                |          |               |           |

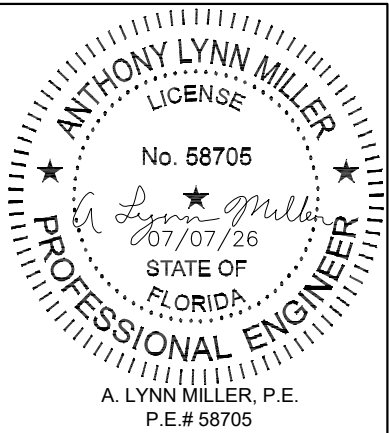


TABLE 2: ANCHORS INSTALLED THROUGH FRAME

| Group | Anchor                                                                   | Substrate                  | Min. Edge Distance | Min. Embedment*  |
|-------|--------------------------------------------------------------------------|----------------------------|--------------------|------------------|
| A     | #10 SMS<br>Carbon Steel or 18-8,<br>316, 410 SS                          | Southern Pine (SG=0.55)    | 7/16"              | 1-3/8"           |
|       |                                                                          | Steel, A36*                | 3/8"               | 0.050"           |
|       |                                                                          | Steel Stud, A653 Gr. 33*   | 3/8"               | 0.0451" (18 Ga.) |
|       |                                                                          | Aluminum, 6063-T5*         | 3/8"               | 0.050"           |
|       | 3/16" Steel Ultracon+                                                    | Southern Pine (SG=0.55)    | 7/16"              | 1-3/8"           |
|       |                                                                          | Concrete (min. 3 ksi)      | 1"                 | 1-3/8"           |
| B     | #12 SMS<br>Carbon Steel or 18-8,<br>316, 410 SS                          | UngROUTED CMU, (ASTM C-90) | 1"                 | 1-1/4"           |
|       |                                                                          | Southern Pine (SG=0.55)    | 9/16"              | 1-3/8"           |
|       |                                                                          | Steel, A36*                | 3/8"               | 0.050"           |
|       |                                                                          | Steel Stud, A653 Gr. 33*   | 3/8"               | 0.0451" (18 Ga.) |
|       | 1/4" Steel Ultracon+<br>1/4" 410 SS Creteflex<br>1/4" 304 SS Aggre-Gator | Aluminum, 6063-T5*         | 3/8"               | 0.063"           |
|       |                                                                          | Southern Pine (SG=0.55)    | 1"                 | 1-3/8"           |
|       |                                                                          | Southern Pine (SG=0.55)    | 1"                 | 1-3/8"           |
|       |                                                                          | Southern Pine (SG=0.55)    | 1"                 | 1-3/8"           |
| C     | 1/4" Steel Ultracon+<br>1/4" 410 SS Creteflex                            | Concrete (min. 3 ksi)      | 1-3/16"            | 1-3/4"           |
|       |                                                                          | UngROUTED CMU, (ASTM C-90) | 1"                 | 1-1/4"           |
|       |                                                                          | Concrete (min. 3.35 ksi)   | 1"                 | 1-3/4"           |
| D     | 1/4" Steel Ultracon+<br>1/4" 410 SS Creteflex                            | Concrete (min. 3 ksi)      | 2-1/2"             | 1-3/4"           |
|       |                                                                          | UngROUTED CMU, (ASTM C-90) | 2-1/2"             | 1-1/4"           |
|       | 1/4" 304 SS Aggre-Gator                                                  | Concrete (min. 3.35 ksi)   | 2-1/2"             | 1-3/4"           |
|       |                                                                          | UngROUTED CMU, (ASTM C-90) | 2-1/2"             | 1-1/4"           |
|       |                                                                          | Concrete (min. 3.275 ksi)  | 1-1/2"             | 1-3/8"           |
|       |                                                                          | GROUTED CMU, (ASTM C-90)   | 2"                 | 2"               |

- 1) \* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
- 2) ALL SCREWHEAD TYPES ARE APPLICABLE.
- 3) 18-8 FASTENERS SHALL BE MANUFACTURED FROM TYPE 304 OR 305 STAINLESS STEEL PER ASTM A240.
- 4) IF COMBINING ANCHOR TYPES FROM DIFFERENT ANCHOR GROUPS ON THE SAME UNIT, THE GREATER ANCHOR QUANTITY FROM EITHER GROUP SHALL BE USED FOR THE ENTIRE UNIT.
- 5) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

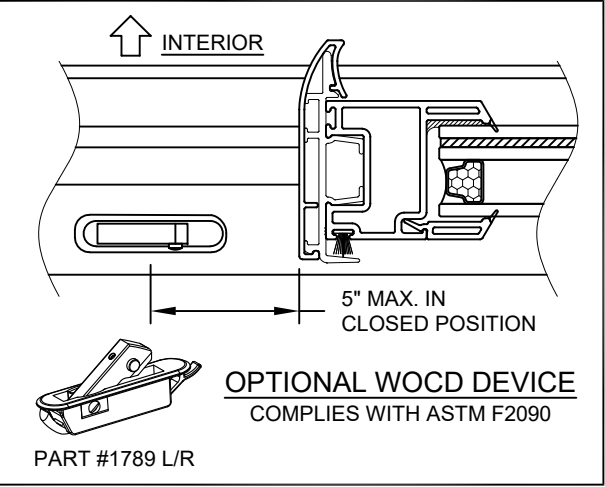
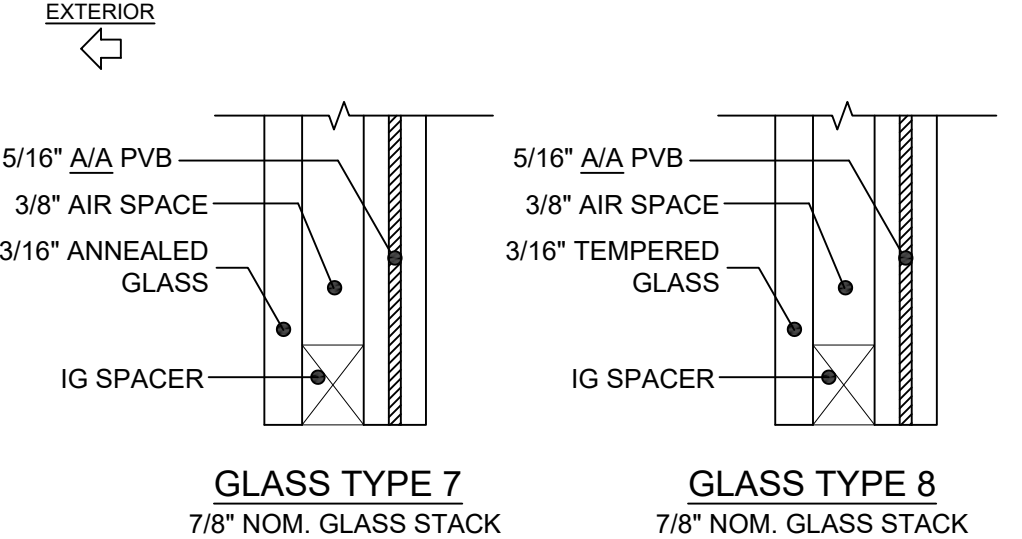
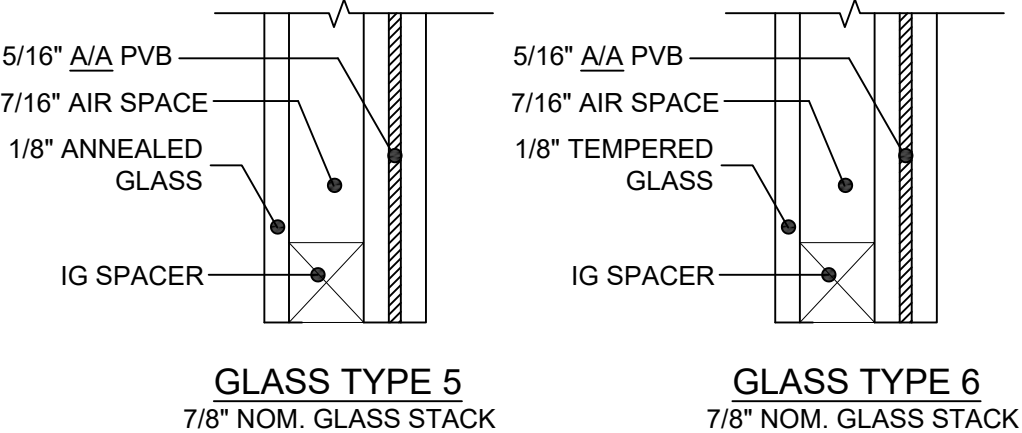


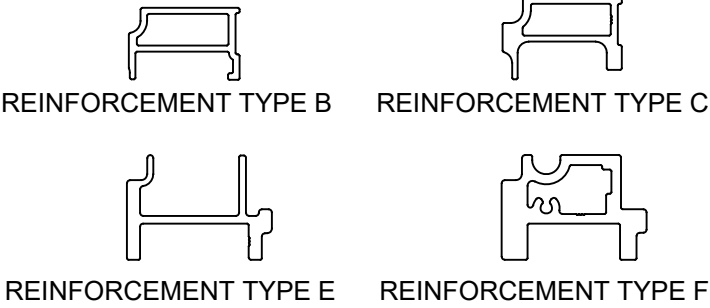
TABLE 3: ANCHORS INSTALLED THROUGH INTEGRAL FIN

| Group | Anchor                                            | Substrate               | Min. Edge Distance | Min. Embedment*  |
|-------|---------------------------------------------------|-------------------------|--------------------|------------------|
| E     | 2-1/2" x 0.131" Common Nail                       | Southern Pine (SG=0.55) | 3/8"               | 2-7/16"          |
| F     | 2-1/2" Ring-shank Roofing Nail                    | Southern Pine (SG=0.55) | 3/8"               | 2-7/16"          |
|       |                                                   | Southern Pine (SG=0.55) | 1/2"               | 1-3/8"           |
|       |                                                   | Aluminum, 6063-T5*      | 3/8"               | 0.050"           |
|       |                                                   | Steel Stud, Gr. 33*     | 3/8"               | 0.0451" (18 Ga.) |
|       | #10 SMS<br>Carbon Steel or 18-8, 316 or<br>410 SS | Steel, A36*             | 3/8"               | 0.050"           |
|       |                                                   | Southern Pine (SG=0.55) | 9/16"              | 1-3/8"           |
|       |                                                   | Aluminum, 6063-T5*      | 3/8"               | 0.063"           |
|       |                                                   | Steel Stud, Gr. 33*     | 3/8"               | 0.050"           |
|       | #12 SMS<br>Carbon Steel or 18-8, 316 or<br>410 SS | Steel, A36*             | 3/8"               | 0.050"           |
|       |                                                   |                         |                    |                  |
|       |                                                   |                         |                    |                  |
|       |                                                   |                         |                    |                  |

- 1) \* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
- 2) ALL SCREWHEAD TYPES ARE APPLICABLE.
- 3) 18-8 FASTENERS SHALL BE MANUFACTURED FROM TYPE 304 OR 305 STAINLESS STEEL PER ASTM A240.
- 4) IF COMBINING ANCHOR TYPES FROM DIFFERENT ANCHOR GROUPS ON THE SAME UNIT, THE GREATER ANCHOR QUANTITY FROM EITHER GROUP SHALL BE USED FOR THE ENTIRE UNIT.

TABLE 4: REINFORCEMENT

| Reinforcement |                |              |
|---------------|----------------|--------------|
| Level         | Vent (4 sides) | Meeting Rail |
| R3            | B              | E            |
| R4            | C              | F            |



PREPARED BY A. LYNN MILLER  
3400 PRECISION DRIVE  
N. VENICE, FL 34275  
(941) 480-1600

**PGT**® **windows and doors**  
3400 PRECISION DRIVE  
N. VENICE, FL 34275  
(941) 480-1600

REGISTRATION #29296

VINYL HORIZONTAL ROLLER WINDOW

ANCHOR & GLAZING DETAILS

07/07/26

JENS ROSOWSKI

HR5510-LM

By

No.

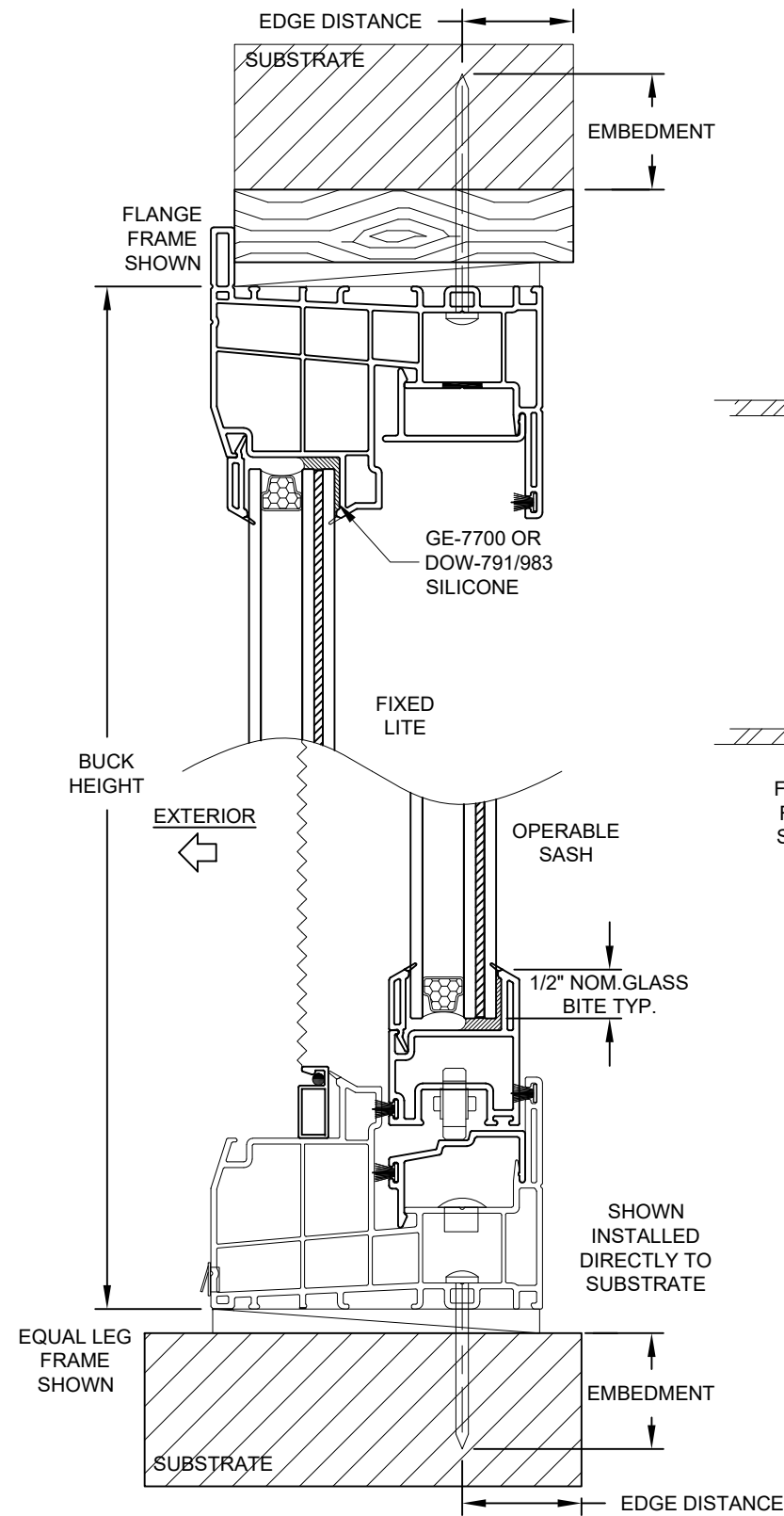
DWG

2 OF 4

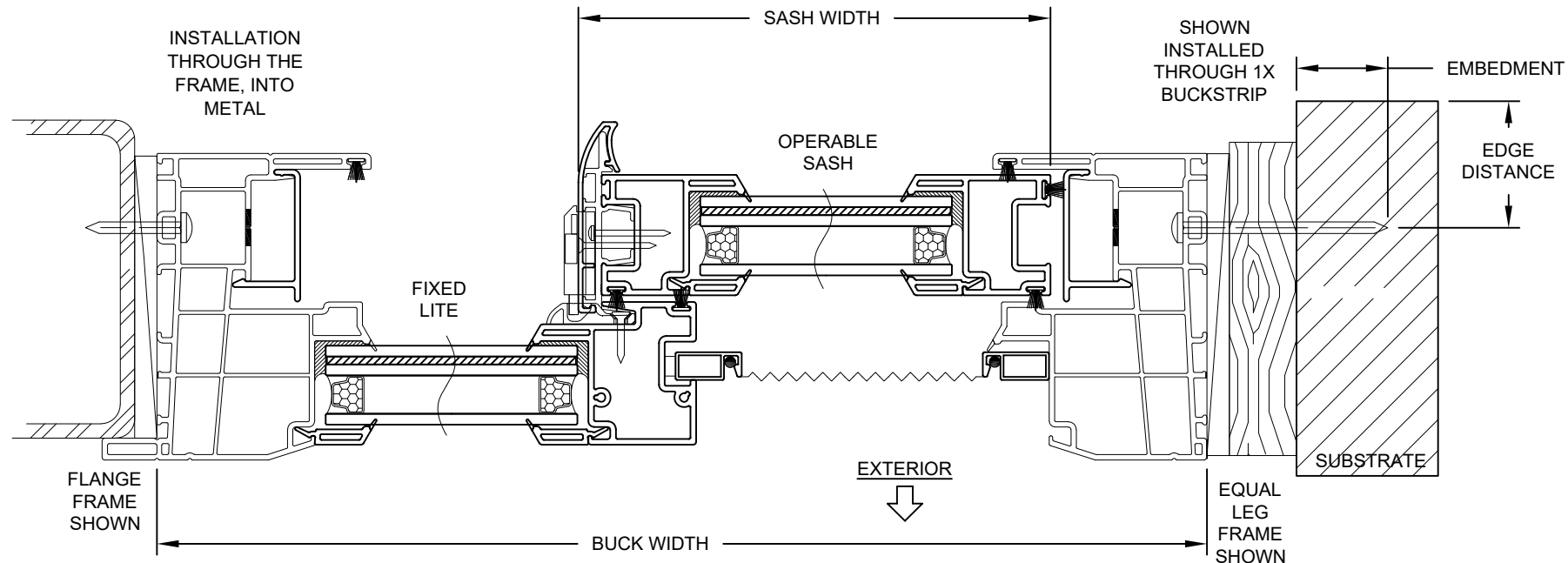
Sheet

HR5510

ANTHONY LYNN MILLER  
LICENSE  
No. 58705  
07/07/26  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
A. LYNN MILLER, P.E.  
P.E.# 58705



VERTICAL SECTION B-B

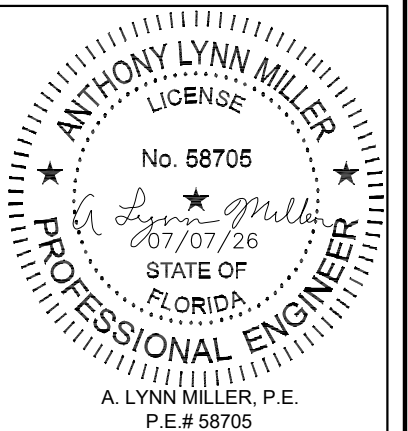


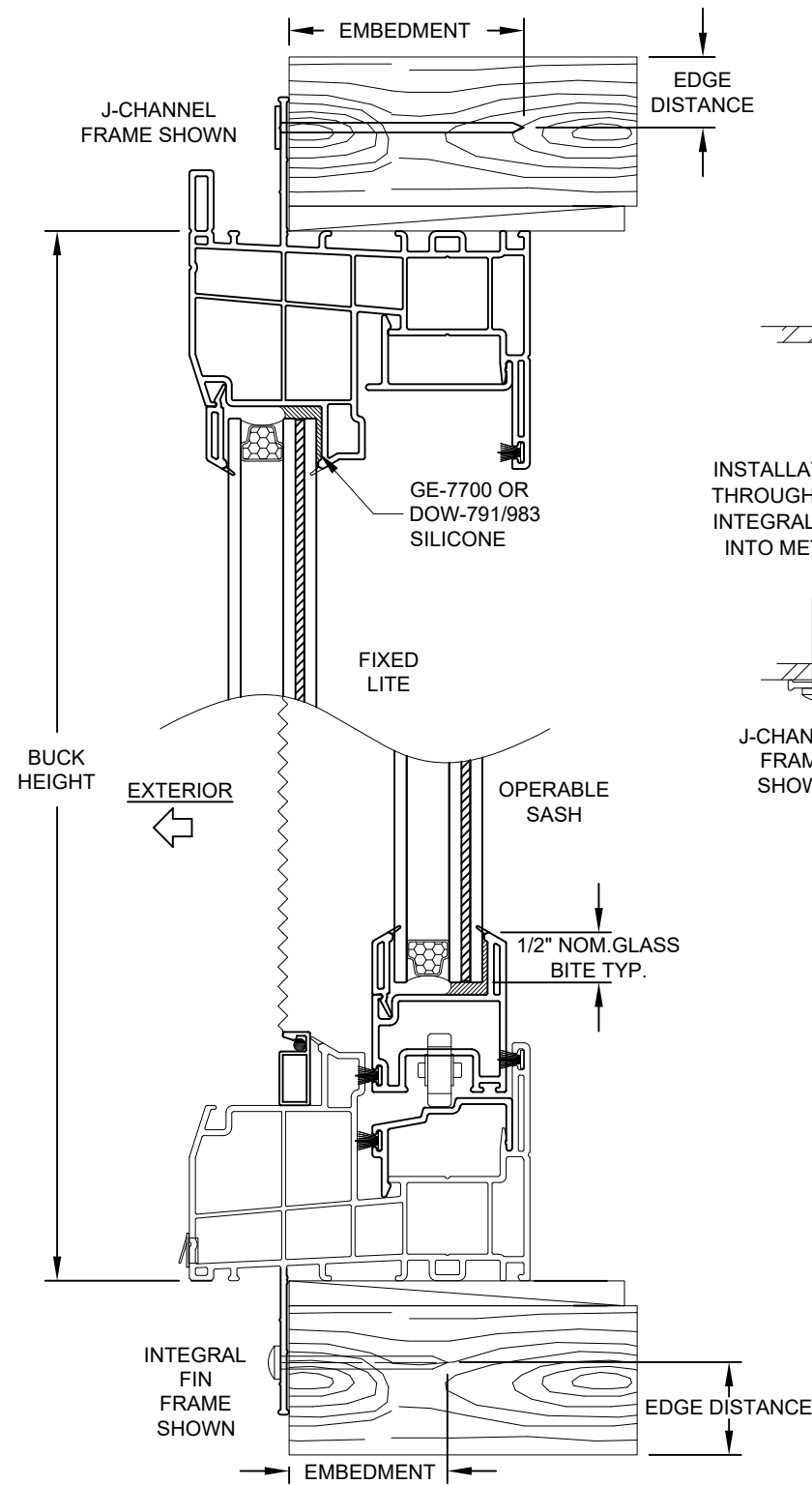
HORIZONTAL SECTION A-A (XO)  
(OX & XOX SIMILAR)

INSTALLATION NOTES:

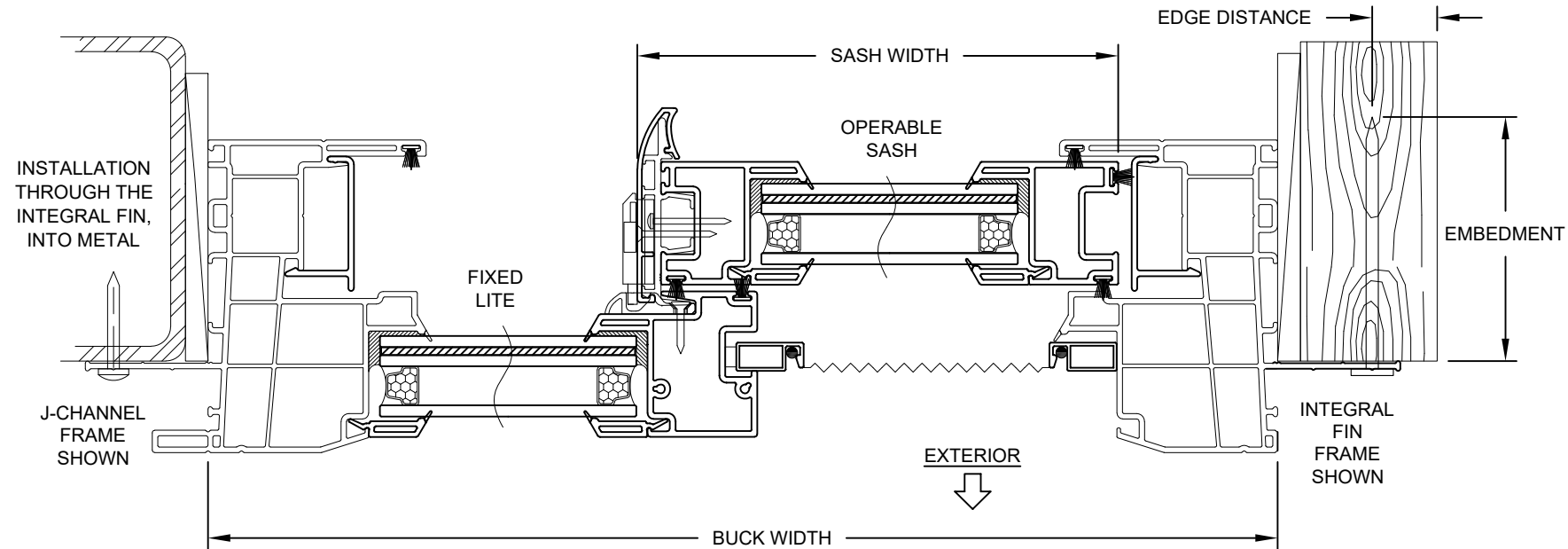
- 1) SEE SHEET 1 FOR SPACING REQUIREMENTS.
- 2) SEE TABLE(S) ON SHEET 2 FOR ANCHORAGE AND SUBSTRATE REQUIREMENTS.
- 3) MAX. SHIM THICKNESS TO BE 1/4".
- 4) GLASS SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER TO MEET DESIGN REQUIREMENTS.
- 5) FIN AND/OR FLANGE MAY BE REMOVED TO CREATE OTHER FRAME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

|                                                                                                     |  |                                                                                           |  |                                |  |                  |  |           |  |
|-----------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------|--|--------------------------------|--|------------------|--|-----------|--|
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| PGT <sup>®</sup> WINDOWS and DOORS<br>3400 PRECISION DRIVE<br>N. VENICE, FL 34275<br>(941) 480-1600 |  | REGISTRATION #29296                                                                       |  | VINYL HORIZONTAL ROLLER WINDOW |  | DWC No.          |  | 3 OF 4    |  |
| FLANGE INSTALLATIONS                                                                                |  | Sheet                                                                                     |  | Title                          |  | Series           |  | HR5510    |  |

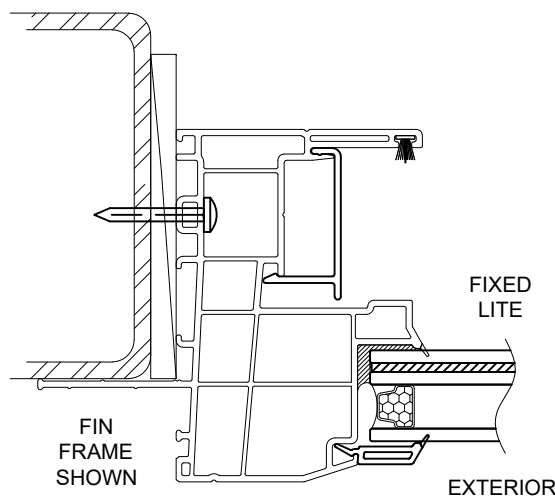




VERTICAL SECTION D-D



HORIZONTAL SECTION C-C (XO)  
(OX & XOX SIMILAR)



INSTALLATION THROUGH  
THE FRAME, INTO METAL  
(JAMB SHOWN, HEAD &  
SILL SIMILAR)

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.

|                                                                                                     |  |                                                                                           |  |                                |  |                   |  |           |  |
|-----------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------|--|--------------------------------|--|-------------------|--|-----------|--|
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| PGT <sup>®</sup> WINDOWS and DOORS<br>3400 PRECISION DRIVE<br>N. VENICE, FL 34275<br>(941) 480-1600 |  | REGISTRATION #29296                                                                       |  | VINYL HORIZONTAL ROLLER WINDOW |  | FIN INSTALLATIONS |  | 4 OF 4    |  |
| Date                                                                                                |  | By                                                                                        |  | No.                            |  | DWG               |  | Sheet     |  |
| Title                                                                                               |  | Series                                                                                    |  | Desc.                          |  | Title             |  | Series    |  |

