

SERIES CA640  
NON-IMPACT RESISTANT, ALUMINUM CASEMENT WINDOW

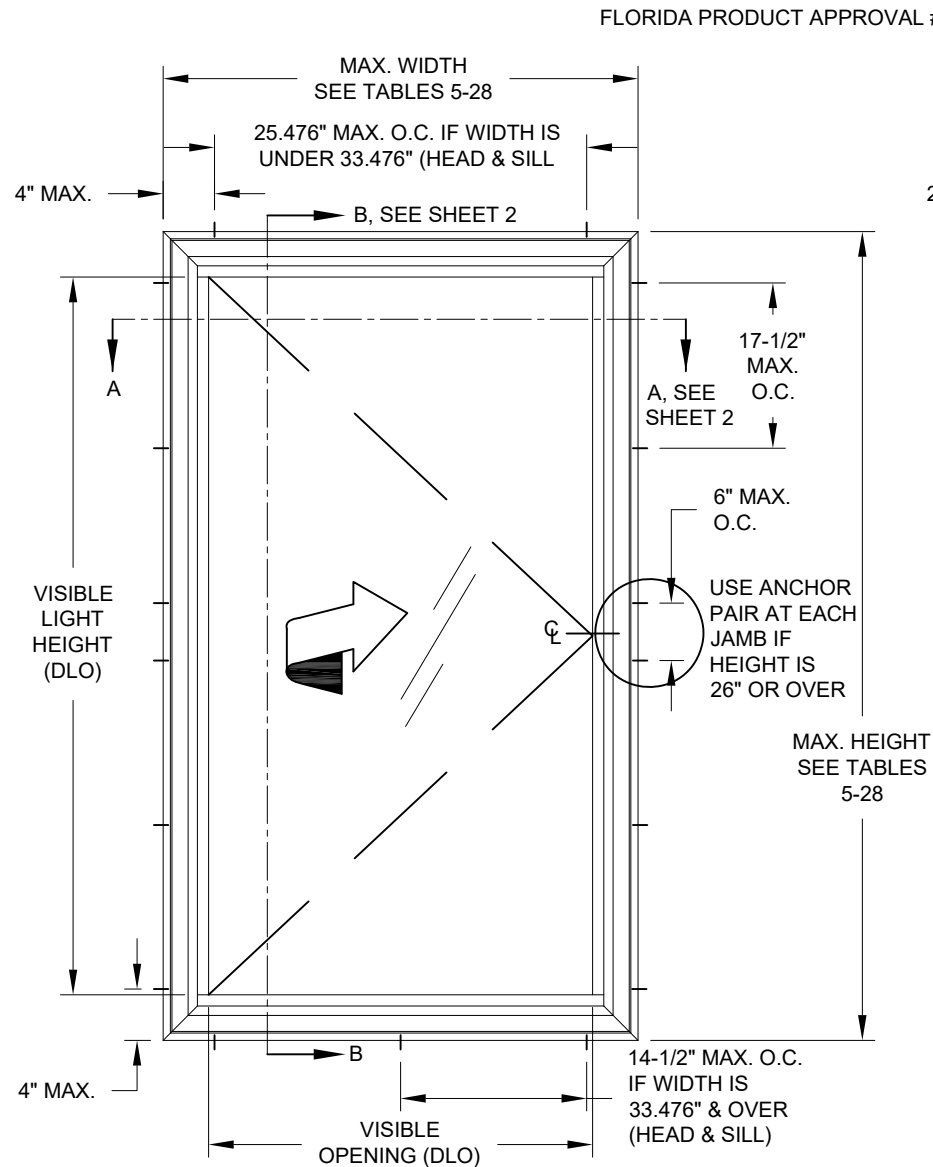
- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2) SHUTTERS ARE REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- 3) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 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 TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.  
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL 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.

VISIBLE LIGHT FORMULAS

WIDTH: BUCK WIDTH - 6  
HEIGHT: BUCK HEIGHT - 6

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.

|                                |      |
|--------------------------------|------|
| GENERAL NOTES.....             | 1    |
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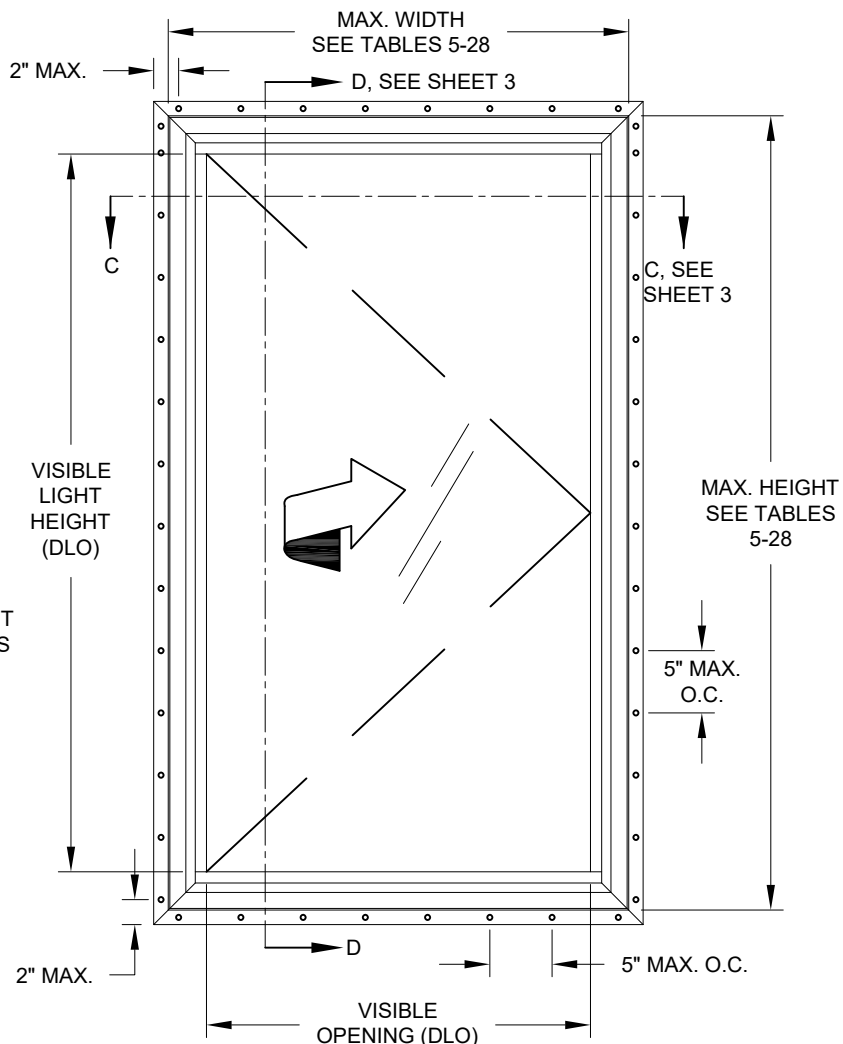


TYP. FLANGE FRAME ELEVATION

TABLE 1:

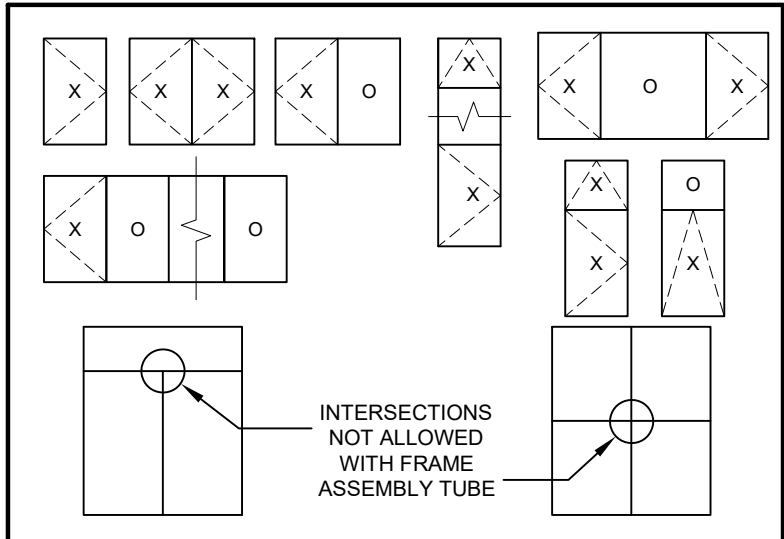
| Glass Types |                                           | Sheet # |
|-------------|-------------------------------------------|---------|
| 1           | 1/8" Annealed                             | 6       |
| 2           | 1/8" Tempered                             | 6       |
| 3           | 3/16" Annealed                            | 7       |
| 4           | 3/16" Tempered                            | 8 & 12  |
| 5           | 1/4" Annealed                             | 7       |
| 6           | 1/4" Tempered                             | 8 & 12  |
| 7           | 9/16" IG: (1/8" AN - 5/16" Air - 1/8" AN) | 9       |
| 8           | 9/16" IG: (1/8" TP - 5/16" Air - 1/8" TP) | 10      |
| 9           | 7/8" IG: (3/16" AN - 1/2" Air - 3/16" AN) | 11 & 12 |
| 10          | 7/8" IG: (3/16" TP - 1/2" Air - 3/16" TP) | 11 & 12 |

"AN" = ANNEALED  
"TP" = TEMPERED



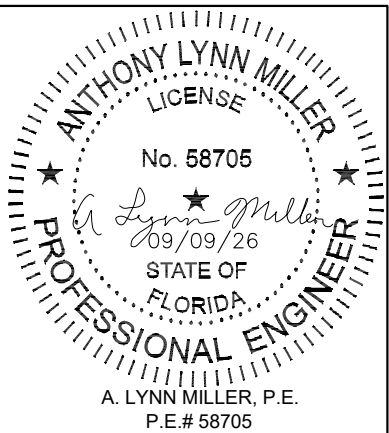
TYP. FIN FRAME ELEVATION

SAMPLE CONFIGURATIONS:



|                                    |
|------------------------------------|
| DESIGN PRESSURE RATING             |
| SEE SHEETS 6-12                    |
| WATER TEST PRESSURE                |
| 15% OF (+) DP                      |
| IMPACT RATING                      |
| NOT RATED FOR IMPACT<br>RESISTANCE |

|                                                                                                     |  |                     |  |                                                                                           |  |                                                                                             |  |
|-----------------------------------------------------------------------------------------------------|--|---------------------|--|-------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------|--|
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|                                                                                                     |  |                     |  |                                                                                           |  |                                                                                             |  |
| ALUM. CASEMENT WINDOW                                                                               |  | Date                |  | 09/09/26                                                                                  |  |                                                                                             |  |
| GENERAL NOTES & ELEVATION                                                                           |  | By                  |  | JENS ROSOWSKI                                                                             |  |                                                                                             |  |
| CA640                                                                                               |  | Sheet               |  | 1 OF 15                                                                                   |  | DWG No.                                                                                     |  |
| CA640                                                                                               |  | Sheet               |  | 1 OF 15                                                                                   |  | CA640-NI-HVHZ                                                                               |  |



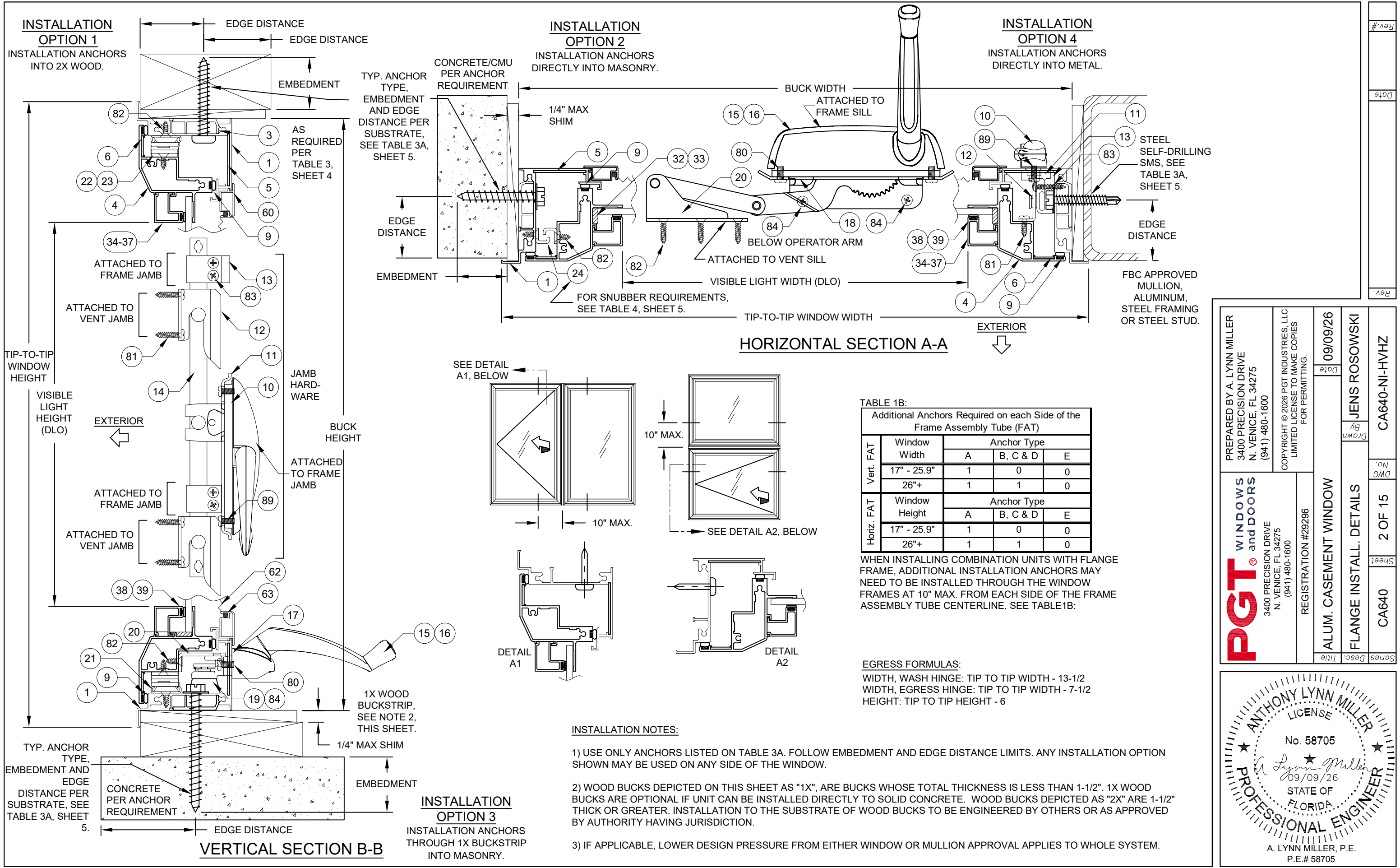


TABLE 1B:  
Additional Anchors Required on each Side of the Frame Assembly Tube (FAT)

|            |               | Anchor Type |          |   |
|------------|---------------|-------------|----------|---|
|            |               | A           | B, C & D | E |
| Vert. FAT  | Window Width  |             |          |   |
|            | 17" - 25.9"   | 1           | 0        | 0 |
|            | 26"+          | 1           | 1        | 0 |
| Horiz. FAT | Window Height |             |          |   |
|            | 17" - 25.9"   | 1           | 0        | 0 |
|            | 26"+          | 1           | 1        | 0 |

WHEN INSTALLING COMBINATION UNITS WITH FLANGE FRAME, ADDITIONAL INSTALLATION ANCHORS MAY NEED TO BE INSTALLED THROUGH THE WINDOW FRAMES AT 10" MAX. FROM EACH SIDE OF THE FRAME ASSEMBLY TUBE CENTERLINE. SEE TABLE 1B:

EGRESS FORMULAS:  
WIDTH, WASH HINGE: TIP TO TIP WIDTH - 13-1/2  
WIDTH, EGRESS HINGE: TIP TO TIP WIDTH - 7-1/2  
HEIGHT: TIP TO TIP HEIGHT - 6

- INSTALLATION NOTES:
- 1) USE ONLY ANCHORS LISTED ON TABLE 3A. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
  - 2) WOOD BUCKS DEPICTED ON THIS SHEET AS "1X", ARE BUCKS WHOSE TOTAL THICKNESS IS LESS THAN 1-1/2". 1X WOOD BUCKS ARE OPTIONAL IF UNIT CAN BE INSTALLED DIRECTLY TO SOLID CONCRETE. WOOD BUCKS DEPICTED AS "2X" ARE 1-1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY AUTHORITY HAVING JURISDICTION.
  - 3) IF APPLICABLE, LOWER DESIGN PRESSURE FROM EITHER WINDOW OR MULLION APPROVAL APPLIES TO WHOLE SYSTEM.

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(941) 480-1600

REGISTRATION #29296

09/09/26  
Date

By  
JENS ROSOWSKI

ALUM. CASEMENT WINDOW  
FLANGE INSTALL. DETAILS

2 OF 15  
Sheet

CA640

Rev. #

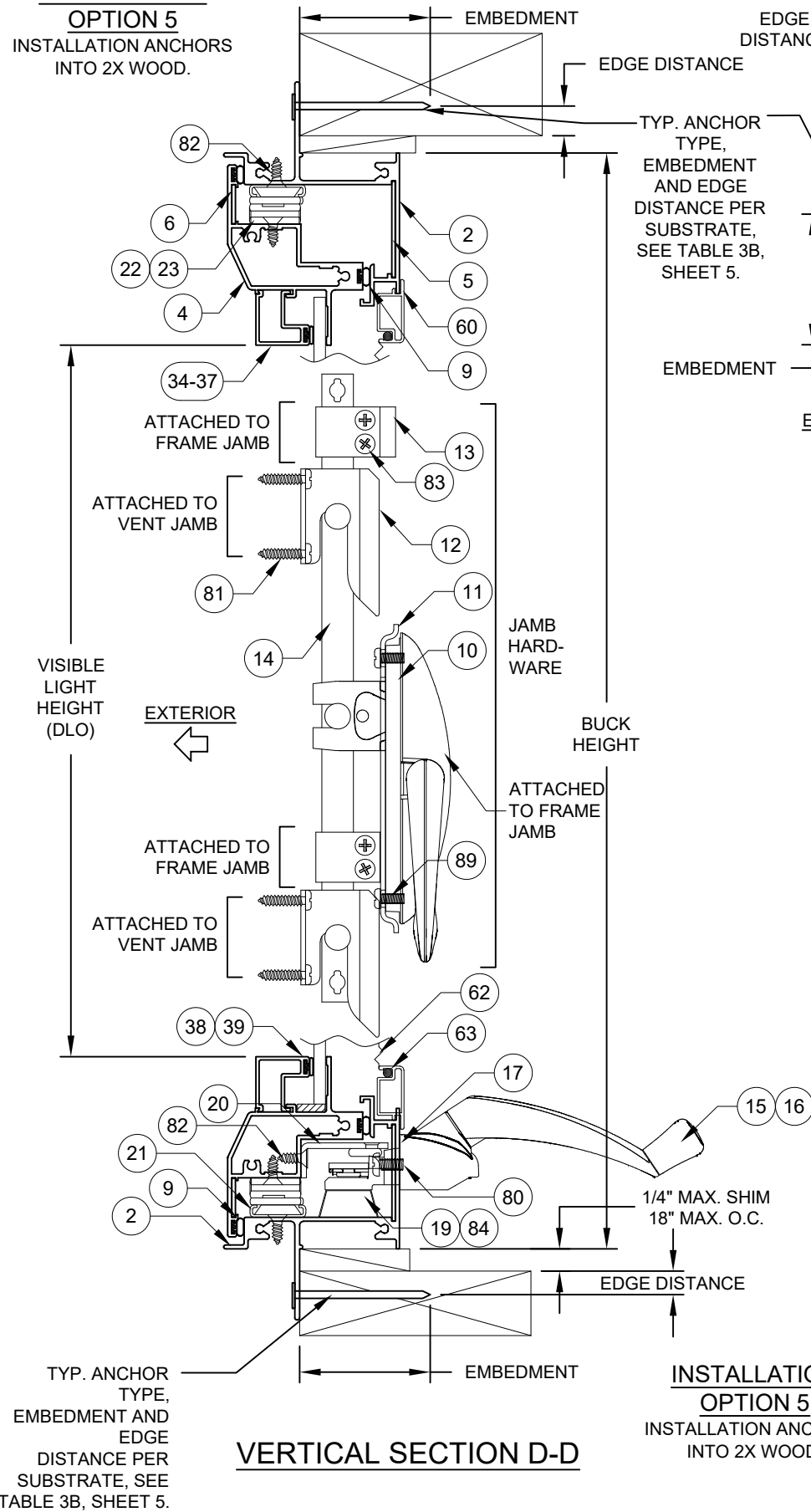
Date

Rev.

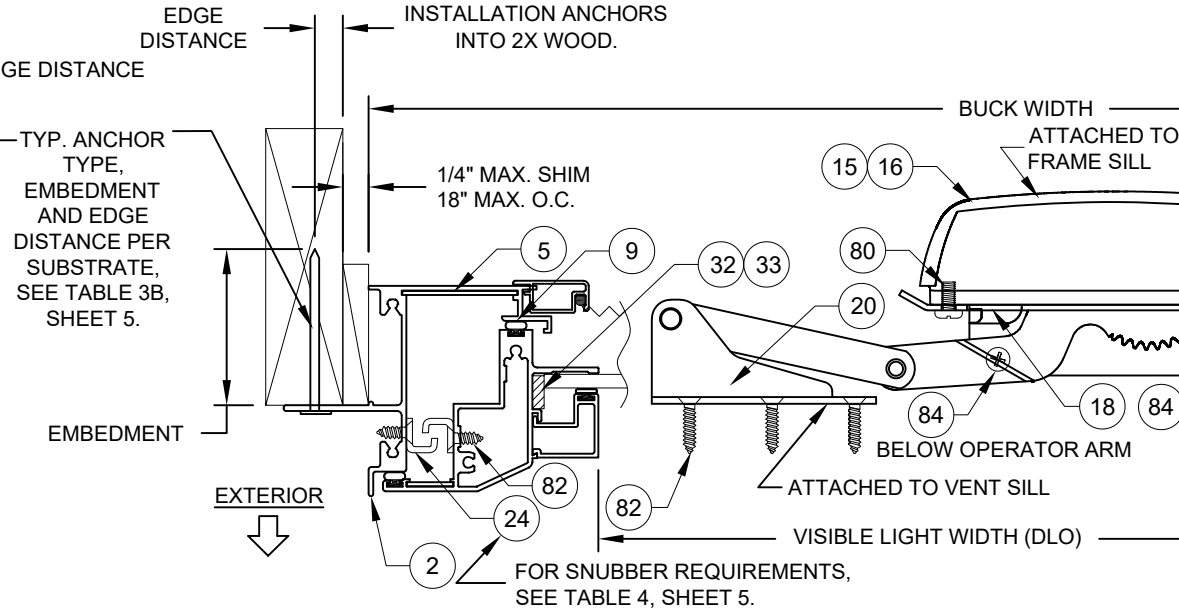
CA640-NI-HVHZ

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

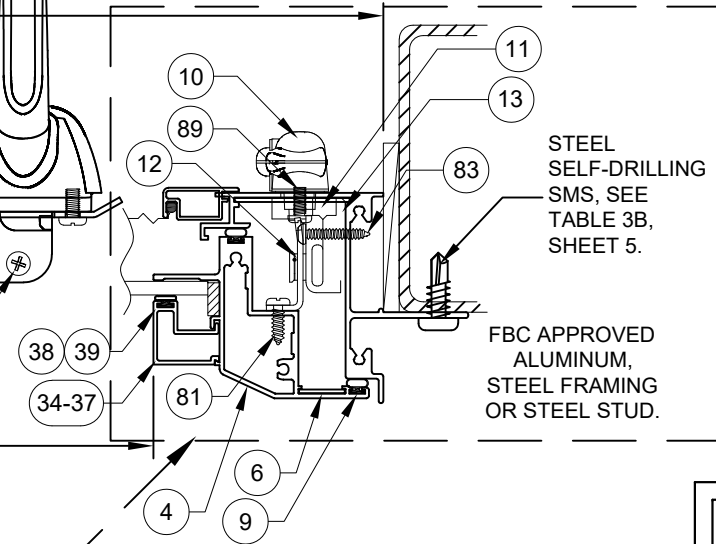
**INSTALLATION  
OPTION 5**  
INSTALLATION ANCHORS  
INTO 2X WOOD.



**INSTALLATION  
OPTION 5**  
INSTALLATION ANCHORS  
INTO 2X WOOD.

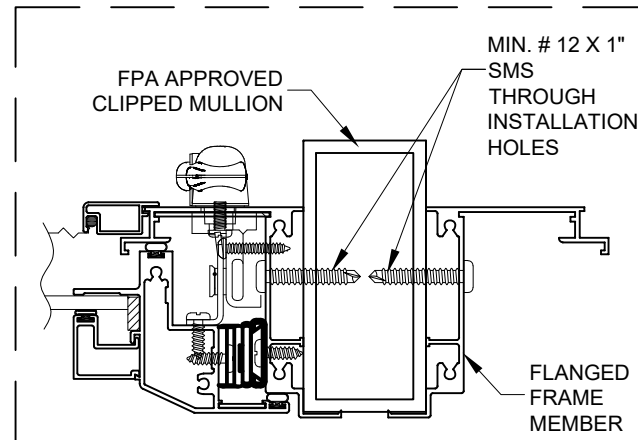


**INSTALLATION  
OPTION 6**  
INSTALLATION ANCHORS  
DIRECTLY INTO METAL.



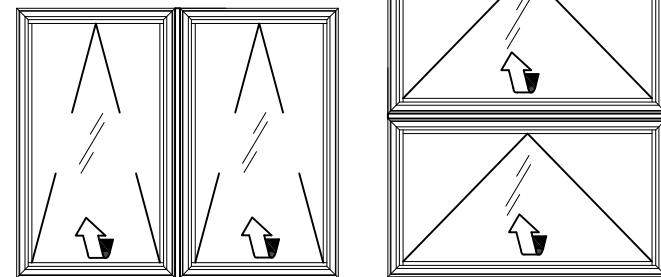
**HORIZONTAL SECTION C-C**

**CLIPPED  
TUBE  
MULLION  
DETAILS:**



CLIPPED TUBE MULLIONS MAY BE USED WITH FIN FRAME WINDOWS IF THE FRAME MEMBER THAT IS ATTACHED TO THE MULLION IS FLANGED. SEE MULLION APPROVAL FOR DP AND LENGTH LIMITATIONS. DETAIL APPLIES TO BOTH HORIZONTAL AND VERTICAL MULLION APPLICATIONS.

**FRAME  
ASSEMBLY  
TUBE (FAT)  
DETAILS:**

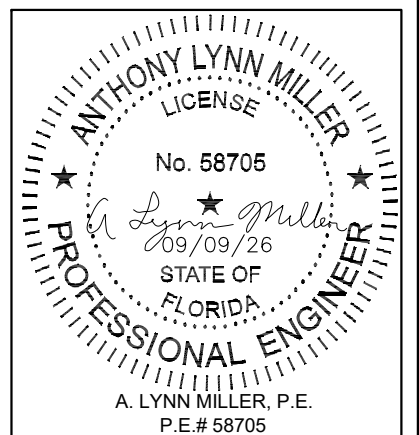


WHEN INSTALLING FIN FRAME COMBINATION UNITS, ADDITIONAL INSTALLATION ANCHORS THROUGH THE FIN ARE NOT REQUIRED. INSTALL EACH WINDOW AS PER SHEETS 1 & 4.

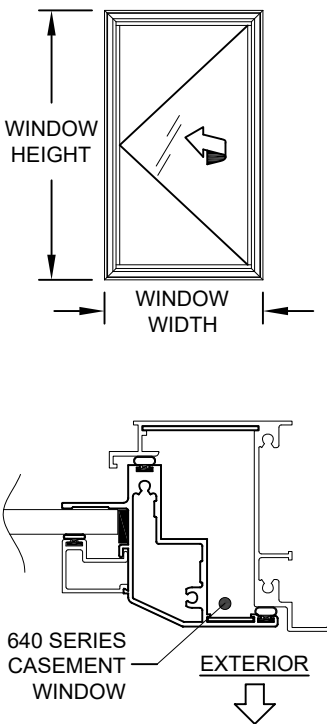
**INSTALLATION NOTES:**

- 1) USE ONLY ANCHORS LISTED ON TABLE 3B. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
- 2) WOOD BUCKS DEPICTED AS "2X" ARE 1-1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY AUTHORITY HAVING JURISDICTION.
- 3) IF APPLICABLE, LOWER DESIGN PRESSURE FROM EITHER WINDOW OR MULLION APPROVAL APPLIES TO WHOLE SYSTEM.

|                                                                                                     |  |                                                                                           |  |                       |                      |               |
|-----------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------|--|-----------------------|----------------------|---------------|
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| CA640                                                                                               |  | Sheet                                                                                     |  | DWG No.               |                      |               |



CASEMENT (X)

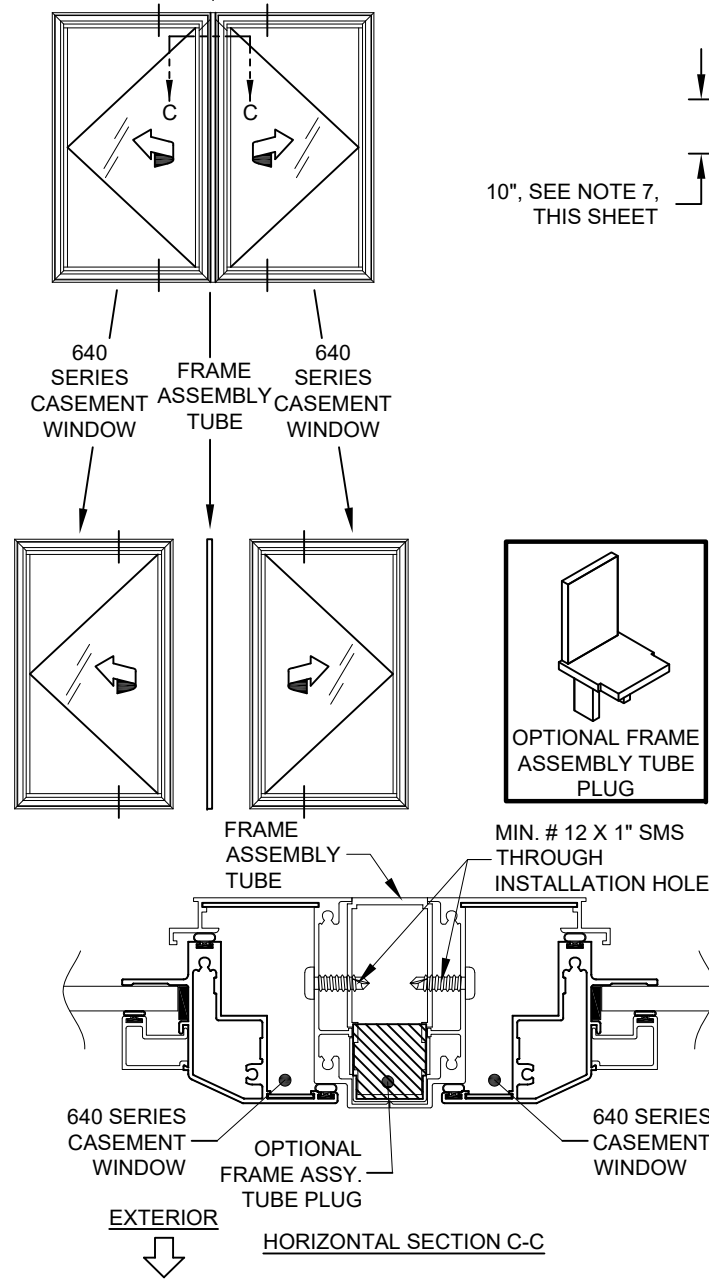


FOR SINGLE UNITS:

- 1) DETERMINE YOUR WINDOW SIZE AND GLASS.
- 2) KNOWING YOUR ANCHOR TYPE AND SUBSTRATE, DETERMINE YOUR ANCHOR GROUP FROM TABLE 3A OR 3B, SHEET 5.
- 3) FROM SHEETS 6-12, FIND THE SHEET FOR YOUR GLASS AND FRAME TYPE. FIND THE PRODUCT'S DESIGN PRESSURE FROM THE TABLE LABELED "DESIGN PRESSURE (PSF) FOR SINGLE WINDOWS, ALL ANCHOR GROUPS".
- 4) DIMENSIONS SHOWN ARE TIP-TO-TIP. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLES.
- 5) USING THE TABLE LABELED "WINDOW ANCHORS REQUIRED" (TABLE 2, SHEET 5), DETERMINE THE NUMBER OF ANCHORS NEEDED IN THE HEAD, SILL AND JAMBS OF YOUR WINDOW.
- 6) INSTALL AS PER THE INSTRUCTIONS ON SHEETS 2-4.

CASEMENT / CASEMENT (XX)

FIGURE 1: 10", SEE NOTE 7, THIS SHEET

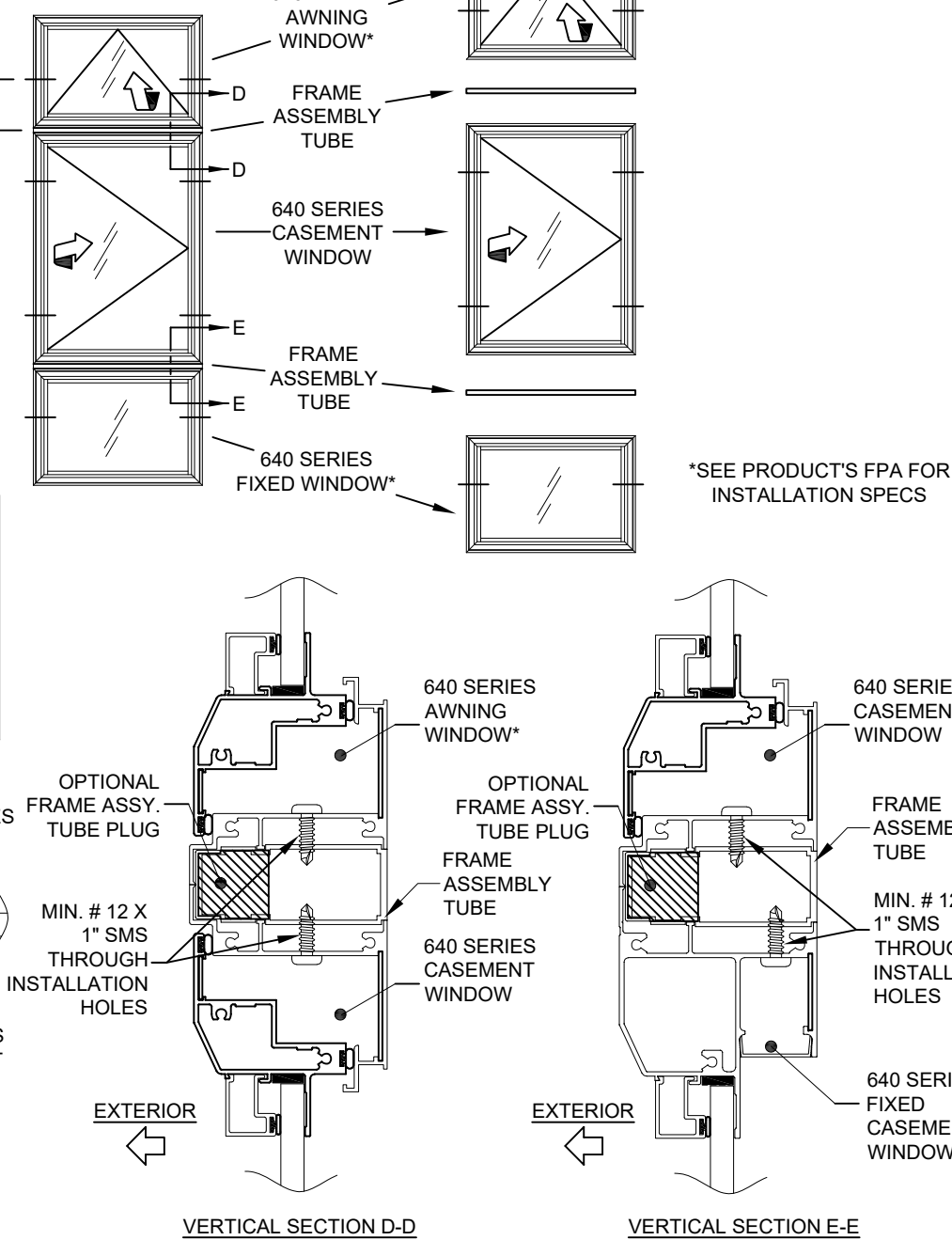


FOR EACH WINDOW IN A VERTICALLY OR HORIZONTALLY COMBINED ASSEMBLY:

- 1) DETERMINE EACH INDIVIDUAL WINDOW TYPE, SIZE AND GLASS MAKEUP, SEE FIGURES 1 & 2, THIS SHEET. DETERMINE YOUR ANCHOR GROUP FROM TABLE 3A OR 3B, SHEET 5.
- 2) FROM SHEETS 6-12, FIND THE SHEET FOR YOUR GLASS AND FRAME TYPE.
- 3) FIND THE DESIGN PRESSURE FROM THE TABLES LABELED "DESIGN PRESSURE (PSF) FOR WINDOWS ATTACHED TO A VERTICAL FRAME ASSEMBLY TUBE" OR "DESIGN PRESSURE (PSF) FOR WINDOWS ATTACHED TO A HORIZONTAL FRAME ASSEMBLY TUBE", DEPENDING ON WHICH WAY THE FRAME ASSEMBLY TUBE IS ORIENTATED. THIS MUST BE DONE FOR EACH WINDOW IN THE ASSEMBLY, AND THE LOWEST DESIGN PRESSURE APPLIES TO THE ENTIRE ASSEMBLY. DIMENSIONS SHOWN ARE TIP-TO-TIP. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLES.
- 4) USING THE TABLE LABELED "WINDOW ANCHORS REQUIRED" (TABLE 2, SHEET 5), DETERMINE THE NUMBER OF ANCHORS NEEDED IN THE HEAD, SILL AND JAMBS OF YOUR WINDOW.
- 5) INSTALL AS PER THE INSTRUCTIONS ON SHEETS 2-4. NOTE THAT ADDITIONAL ANCHORS THROUGH THE WINDOW FRAME INTO THE SUBSTRATE MAY BE REQUIRED (SEE TABLE TO THE RIGHT), AND THAT MIN. #12 X 1" ANCHORS ARE TO BE USED THROUGH THE FRAME INTO THE FRAME ASSEMBLY TUBE (SEE DETAILS ON THIS SHEET).

AWNING / CASEMENT / FIXED CASEMENT (XXO)

FIGURE 2:



\*SEE PRODUCT'S FPA FOR INSTALLATION SPECS

FRAME ASSEMBLY TUBE NOTES:

- 1) DIMENSIONS SHOWN ARE TIP-TO-TIP DIMENSIONS FOR EACH INDIVIDUAL WINDOW. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLES.
- 2) ANY 640-SERIES PRODUCT (CASEMENT, AWNING OR FIXED CASEMENT) MAY BE ATTACHED TO THE FRAME ASSEMBLY TUBE. FOR ALL WINDOWS, USE THE WINDOW'S FPA FOR ANCHORAGE, SIZE AND DESIGN PRESSURE LIMITATIONS.
- 3) ALL WINDOWS IN THE COMBINATION UNIT MUST BE ABLE TO INDIVIDUALLY COMPLY WITH THE REQUIREMENTS OF THEIR RESPECTIVE FPA.
- 4) FRAME ASSEMBLY TUBE TO BE FASTENED TO WINDOW, AS SHOWN IN DETAILS, WITH MIN. #12 X 1" SHEET METAL SCREWS. FOR FLANGE FRAME, USE THE SAME SPACING AND QUANTITY AS THE OPPOSITE FRAME MEMBER. FOR INTEGRAL FIN FRAME COMBINATION UNITS, FLANGE FRAME IS USED AT THE FRAME ASSEMBLY TUBE WITH ANCHOR GROUP D SPACING.
- 5) THE FRAME ASSEMBLY TUBE MAY NOT EXCEED 62" IN LENGTH (AS USED IN A 63" FLANGED WINDOW) OR BE USED IN TEE OR CROSS CONFIGURATIONS.
- 6) THE FRAME ASSEMBLY TUBE IS NOT REQUIRED TO BE CLIPPED TO THE SUBSTRATE. ALL EXTERIOR JOINTS TO BE SEALED BY INSTALLER.
- 7) FOR FLANGE FRAME COMBINATION UNITS, ADDITIONAL INSTALLATION ANCHORS MAY NEED TO BE INSTALLED THROUGH THE WINDOW FRAMES AT 10" MAX. FROM EACH SIDE OF THE FRAME ASSEMBLY TUBE CENTERLINE, SEE TABLE 1B. NO ADDITIONAL ANCHORS REQUIRED FOR FIN FRAME COMBINATION UNITS.

|                                                                                                     |  |                                                                                           |  |                       |  |                                |  |               |  |
|-----------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------|--|-----------------------|--|--------------------------------|--|---------------|--|
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| CA640                                                                                               |  | Sheet                                                                                     |  | DWG No.               |  | CA640                          |  | 4 OF 15       |  |

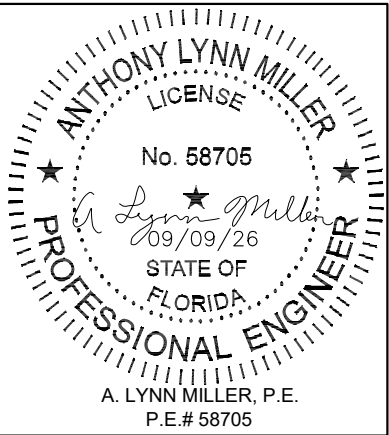


TABLE 2:

| Window Anchors Required |           |           |                   |   |   |   |              |    |   |   |              |    |   |   |              |    |   |   |              |    |   |   |              |    |   |   |
|-------------------------|-----------|-----------|-------------------|---|---|---|--------------|----|---|---|--------------|----|---|---|--------------|----|---|---|--------------|----|---|---|--------------|----|---|---|
|                         |           |           | Window Width (in) |   |   |   |              |    |   |   |              |    |   |   |              |    |   |   |              |    |   |   |              |    |   |   |
|                         |           |           | under 23"         |   |   |   | 25-15/16"    |    |   |   | 27-3/4"      |    |   |   | 30"          |    |   |   | 33-1/2"      |    |   |   | 35"          |    |   |   |
|                         |           |           | Anchor Group      |   |   |   | Anchor Group |    |   |   | Anchor Group |    |   |   | Anchor Group |    |   |   | Anchor Group |    |   |   | Anchor Group |    |   |   |
|                         |           |           | A                 | B | C | D | A            | B  | C | D | A            | B  | C | D | A            | B  | C | D | A            | B  | C | D | A            | B  | C | D |
| Window Height (in)      | under 23" | Jamb      | 2                 | 2 | 2 | 2 | 2            | 2  | 2 | 2 | 2            | 2  | 2 | 2 | 2            | 2  | 2 | 2 | 2            | 2  | 2 | 2 | 2            | 2  | 2 | 2 |
|                         |           | Head/Sill | 2                 | 2 | 2 | 2 | 3            | 2  | 2 | 2 | 3            | 2  | 2 | 2 | 4            | 2  | 2 | 2 | 4            | 3  | 3 | 3 | 5            | 3  | 3 | 3 |
|                         | 25-15/16" | Jamb      | 2                 | 2 | 2 | 2 | 2            | 2  | 2 | 2 | 2            | 2  | 2 | 2 | 2            | 2  | 2 | 2 | 2            | 2  | 2 | 2 | 2            | 2  | 2 | 2 |
|                         |           | Head/Sill | 2                 | 2 | 2 | 2 | 3            | 2  | 2 | 2 | 3            | 2  | 2 | 2 | 4            | 2  | 2 | 2 | 4            | 3  | 2 | 2 | 5            | 3  | 3 | 3 |
|                         | 38-3/8"   | Jamb      | 6                 | 4 | 4 | 4 | 6            | 4  | 4 | 4 | 6            | 4  | 4 | 4 | 6            | 4  | 4 | 4 | 6            | 4  | 4 | 4 | 6            | 4  | 4 | 4 |
|                         |           | Head/Sill | 2                 | 2 | 2 | 2 | 3            | 2  | 2 | 2 | 3            | 2  | 2 | 2 | 4            | 3  | 2 | 2 | 4            | 3  | 3 | 2 | 5            | 3  | 3 | 3 |
|                         | 48"       | Jamb      | 6                 | 4 | 4 | 4 | 8            | 6  | 4 | 4 | 8            | 6  | 4 | 4 | 8            | 6  | 4 | 4 | 8            | 6  | 4 | 4 | 8            | 6  | 6 | 4 |
|                         |           | Head/Sill | 2                 | 2 | 2 | 2 | 3            | 2  | 2 | 2 | 3            | 2  | 2 | 2 | 4            | 3  | 2 | 2 | 4            | 3  | 3 | 2 | 5            | 3  | 4 | 3 |
|                         | 50-5/8"   | Jamb      | 8                 | 6 | 4 | 4 | 8            | 6  | 4 | 4 | 8            | 6  | 4 | 4 | 8            | 6  | 4 | 4 | 10           | 6  | 6 | 4 | 10           | 6  | 6 | 4 |
|                         |           | Head/Sill | 2                 | 2 | 2 | 2 | 3            | 2  | 2 | 2 | 3            | 2  | 2 | 2 | 4            | 3  | 2 | 2 | 4            | 3  | 3 | 2 | 5            | 3  | 4 | 3 |
|                         | 60"       | Jamb      | 8                 | 6 | 6 | 4 | 10           | 6  | 6 | 4 | 10           | 6  | 6 | 4 | 10           | 8  | 6 | 4 | 12           | 8  | 6 | 4 | 12           | 8  | 6 | 4 |
|                         |           | Head/Sill | 2                 | 2 | 2 | 2 | 3            | 2  | 2 | 2 | 3            | 2  | 2 | 2 | 4            | 3  | 2 | 2 | 4            | 3  | 3 | 2 | 5            | 3  | 3 | 3 |
|                         | 63"       | Jamb      | 10                | 6 | 6 | 6 | 10           | 6  | 6 | 6 | 10           | 8  | 6 | 6 | 12           | 8  | 6 | 6 | 12           | 8  | 6 | 6 | 12           | 8  | 6 | 6 |
|                         |           | Head/Sill | 2                 | 2 | 2 | 2 | 3            | 2  | 2 | 2 | 3            | 2  | 2 | 2 | 4            | 3  | 2 | 2 | 4            | 3  | 3 | 2 | 5            | 3  | 3 | 3 |
|                         | 72"       | Jamb      | 10                | 8 | 6 | 6 | 12           | 8  | 6 | 6 | 12           | 8  | 8 | 6 | 14           | 8  | 8 | 6 | 14           | 8  | 8 | 6 | 14           | 8  | 8 | 6 |
|                         |           | Head/Sill | 2                 | 2 | 2 | 2 | 3            | 2  | 2 | 2 | 3            | 2  | 2 | 2 | 4            | 3  | 2 | 2 | 4            | 3  | 2 | 2 | 5            | 3  | 3 | 3 |
|                         | 76"       | Jamb      | 12                | 8 | 6 | 6 | 12           | 8  | 8 | 6 | 14           | 8  | 8 | 6 | 14           | 10 | 8 | 6 | 14           | 10 | 8 | 6 | 14           | 10 | 8 | 6 |
|                         |           | Head/Sill | 2                 | 2 | 2 | 2 | 3            | 2  | 2 | 2 | 3            | 2  | 2 | 2 | 4            | 3  | 2 | 2 | 4            | 3  | 2 | 2 | 4            | 3  | 3 | 3 |
|                         | 84"       | Jamb      | 12                | 8 | 8 | 6 | 14           | 10 | 8 | 6 | 14           | 10 | 8 | 6 | 16           | 10 | 8 | 6 | 16           | 10 | 8 | 6 |              |    |   |   |
|                         |           | Head/Sill | 2                 | 2 | 2 | 2 | 3            | 2  | 2 | 2 | 3            | 2  | 2 | 2 | 4            | 2  | 2 | 2 | 4            | 3  | 2 | 2 |              |    |   |   |

1) USE THIS TABLE FOR ALL FLANGE FRAME WINDOWS PER THE ELEVATIONS ON SHEET 1. DIMENSIONS SHOWN ARE WINDOW TIP-TO-TIP.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

TABLE 3A: THROUGH FRAME ANCHORS

| Group | Anchor                                           | Substrate                  | Min. Edge Distance | Min. O.C. Distance | Min. Embedment | Anchor Plate Required? |
|-------|--------------------------------------------------|----------------------------|--------------------|--------------------|----------------|------------------------|
| A     | #12 or #14 SMS Carbon Steel or 18-8, 316, 410 SS | Southern Pine (SG=0.55)    | 5/8"               | 1"                 | 1-3/8"         | No                     |
|       |                                                  | 6063-T5 Alum.              | 3/8"               | 5/8"               | .063"          | No                     |
|       |                                                  | A36 Steel                  | 3/8"               | 5/8"               | .050"          | No                     |
|       |                                                  | A653 Stud, Gr. 33          | 3/8"               | 5/8"               | .045", 20 Ga.  | No                     |
|       | 1/4" Steel Ultracon+                             | 3k Concrete                | 1"                 | 3"                 | 1-3/4"         | No                     |
|       |                                                  | UngROUTed CMU, (ASTM C-90) | 1"                 | 3"                 | 1-1/4"         | No                     |
| B     | 1/4" Steel Ultracon                              | Southern Pine (SG=0.55)    | 1"                 | 1"                 | 1-3/8"         | No                     |
|       |                                                  | 2.85k Concrete             | 2-1/2"             | 4"                 | 1-3/8"         | No                     |
|       |                                                  | UngROUTed CMU, (ASTM C-90) | 1"                 | 6"                 | 1-1/4"         | No                     |
| C     | 1/4" Steel Ultracon+                             | 3k Concrete                | 1"                 | 4"                 | 1-3/8"         | Yes                    |
|       |                                                  | UngROUTed CMU, (ASTM C-90) | 1"                 | 3"                 | 1-1/4"         | Yes                    |
|       | 1/4" 410 SS CreteFlex                            | 3.35k Concrete             | 1"                 | 5"                 | 1-3/4"         | No                     |
|       |                                                  | UngROUTed CMU, (ASTM C-90) | 2-1/2"             | 5"                 | 1-1/4"         | No                     |
|       | 1/4" 304 SS Aggre-Gator                          | UngROUTed CMU, (ASTM C-90) | 2"                 | 3"                 | 1-1/4"         | Yes                    |
|       |                                                  | UngROUTed CMU, (ASTM C-90) | 2-1/2"             | 5"                 | 1-1/4"         | No                     |
| D     | #12 or #14 SMS Carbon Steel or 18-8, 316, 410 SS | Southern Pine (SG=0.55)    | 5/8"               | 1"                 | 1-3/8"         | Yes                    |
|       |                                                  | 6063-T5 Alum.              | 3/8"               | 5/8"               | .0713"         | Yes                    |
|       |                                                  | A36 Steel                  | 3/8"               | 5/8"               | .050"          | Yes                    |
|       |                                                  | A653 Stud, Gr. 33          | 3/8"               | 5/8"               | .045", 18 Ga.  | Yes                    |
|       | 1/4" 410 SS CreteFlex                            | 3.35k Concrete             | 1"                 | 6"                 | 1-3/4"         | Yes                    |
|       |                                                  | 3.35k Concrete             | 2-1/2"             | 6"                 | 1"             | Yes                    |
|       |                                                  | UngROUTed CMU, (ASTM C-90) | 2-1/2"             | 6"                 | 1-1/4"         | Yes                    |
|       |                                                  | UngROUTed CMU, (ASTM C-90) | 2-1/2"             | 6"                 | 1-1/4"         | Yes                    |
|       | 5/16" Steel Ultracon                             | 3.5k Concrete              | 1-1/4"             | 5"                 | 1-3/4"         | No                     |
|       |                                                  | UngROUTed CMU, (ASTM C-90) | 3-1/8"             | 5"                 | 1-1/4"         | No                     |
|       |                                                  | Grouted CMU, (ASTM C-90)   | 2-1/2"             | 5"                 | 1-3/4"         | No                     |
|       |                                                  | Grouted CMU, (ASTM C-90)   | 2-1/2"             | 5"                 | 1-3/4"         | No                     |
|       | 1/4" Steel Ultracon+                             | 3k Concrete                | 1-5/16"            | 4"                 | 1-3/8"         | Yes                    |
|       |                                                  | UngROUTed CMU, (ASTM C-90) | 1-3/4"             | 3"                 | 1-1/4"         | Yes                    |
|       |                                                  | Southern Pine (SG=0.55)    | 1"                 | 1"                 | 1-3/8"         | Yes                    |
|       |                                                  | Southern Pine (SG=0.55)    | 1"                 | 1"                 | 1-3/8"         | Yes                    |
|       | 1/4" 304 SS Aggre-Gator                          | 2.22k Concrete             | 1-1/2"             | 3"                 | 1-3/8"         | Yes                    |
|       |                                                  | Grouted CMU, (ASTM C-90)   | 2"                 | 3"                 | 2"             | Yes                    |

- 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 3B: THROUGH-FIN ANCHORS

| Group | Anchor                                           | Substrate              | Min. Edge Distance | Max. O.C. Spacing | Min. Embedment  |
|-------|--------------------------------------------------|------------------------|--------------------|-------------------|-----------------|
| E     | 2-1/2" x .113" Box Nail                          | Southern Pine (SG=.55) | 5/16"              | 5"                | 2-7/16"         |
|       |                                                  | Southern Pine (SG=.55) | 3/8"               | 5"                | 2-7/16"         |
|       |                                                  | Southern Pine (SG=.55) | 3/8"               | 5"                | 2-7/16"         |
|       | #10 x 1" SMS Carbon Steel or 18-8, 316 or 410 SS | Southern Pine (SG=.55) | 1/2"               | 5"                | 1-3/8"          |
|       |                                                  | Aluminum, 6063-T5      | 5/16"              | 5"                | .093"           |
|       |                                                  | A36 Steel              | 5/16"              | 5"                | 0.0346" (20 Ga) |
|       |                                                  | A653 Stud, Gr. 33      | 5/16"              | 5"                | 0.0451" (18 Ga) |

- 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.

TABLE 4:

| Jamb Snubber Locations |              |                                       |
|------------------------|--------------|---------------------------------------|
|                        |              | For All Glass Types:                  |
| Window Height          | 63" and less | None Required                         |
|                        | over 63"     | 12" max. from each end & 30" max O.C. |

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REGISTRATION #29296

09/09/26

ALUM. CASEMENT WINDOW

ANCHOR TYPE & QUANTITY

CA640-NI-HVHZ

5 OF 15

CA640

Rev. #

Date

Rev.

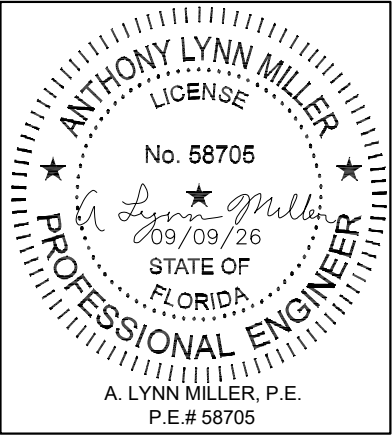
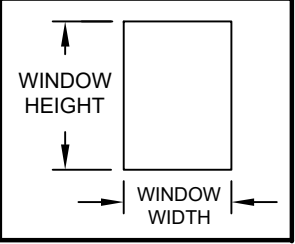


TABLE 5:

|               |           | Design Pressure (psf) for Single Windows, All Anchor Groups |           |          |          |          |          |          |
|---------------|-----------|-------------------------------------------------------------|-----------|----------|----------|----------|----------|----------|
|               |           | Window Width                                                |           |          |          |          |          |          |
|               |           | under 23"                                                   | 25-15/16" | 27-3/4"  | 30"      | 33-1/2"  | 35"      | 37"      |
| Window Height | under 23" | +/- 79.6                                                    | +/- 71.5  | +/- 67.9 | +/- 64.5 | +/- 60.6 | +/- 59.2 | +/- 57.7 |
|               | 25-15/16" | +/- 71.5                                                    | +/- 70.5  | +/- 66.2 | +/- 62.1 | +/- 57.6 | +/- 56   | +/- 54.3 |
|               | 38-3/8"   | +/- 56.8                                                    | +/- 53.3  | +/- 51.6 | +/- 50.1 | +/- 48.5 | +/- 48   | +/- 47.7 |
|               | 48"       | +/- 52.3                                                    | +/- 48.3  | +/- 46.4 | +/- 44.4 | +/- 42   | +/- 41.1 | +/- 40.2 |
|               | 50-5/8"   | +/- 51.5                                                    | +/- 46.9  | +/- 45.4 | +/- 43.3 | +/- 40.8 | +/- 39.9 | +/- 39   |
|               | 60"       | +/- 45.8                                                    | +/- 38    | +/- 36.3 | +/- 35.9 | +/- 36.2 | +/- 36   | +/- 35.6 |
|               | 63"       | +/- 44.5                                                    | +/- 36.2  | +/- 33.8 | +/- 33   | +/- 33.6 | +/- 33.6 | +/- 33.2 |
|               | 72"       | +/- 41.6                                                    | +/- 32    | +/- 28.8 | +/- 26.8 |          |          |          |
|               | 76"       | +/- 40.7                                                    | +/- 30.8  | +/- 27.4 | +/- 25.2 |          |          |          |
|               | 84"       | +/- 39.4                                                    | +/- 29.3  | +/- 25.5 |          |          |          |          |



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

FOR GLASS TYPES:  
1) 1/8" ANNEALED  
2) 1/8" TEMPERED  
FOR FRAME TYPES:  
FLANGE & INTEGRAL FIN

! POSITIVE PRESSURE LIMITED TO +70 PSF FOR INTEGRAL FIN FRAMES ONLY

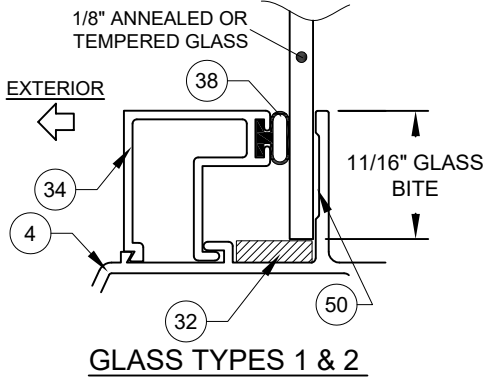
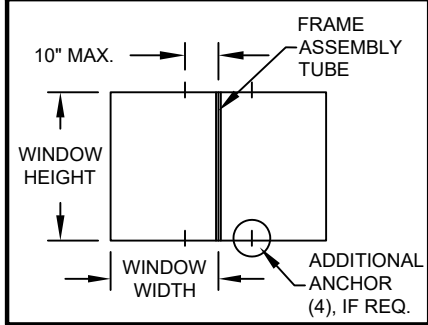


TABLE 6:

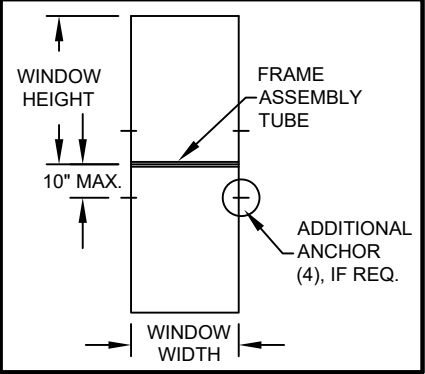
|               |           | Design Pressure (psf) for Windows Attached to a <u>Vertical</u> Frame Assembly Tube |              |              |              |              |              |              |
|---------------|-----------|-------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
|               |           | Window Width                                                                        |              |              |              |              |              |              |
|               |           | under 23"                                                                           | 25-15/16"    | 27-3/4"      | 30"          | 33-1/2"      | 35"          | 37"          |
|               |           | Anchor Group                                                                        | Anchor Group | Anchor Group | Anchor Group | Anchor Group | Anchor Group | Anchor Group |
| Window Height | under 23" | +70/-79.6                                                                           | +70/-71.5    | +/-67.9      | +/-64.5      | +/-60.6      | +/-59.2      | +/-57.7      |
|               | 25-15/16" | +70/-71.5                                                                           | +70/-70.5    | +/-66.2      | +/-62.1      | +/-57.6      | +/-56        | +/-54.3      |
|               | 38-3/8"   | +/-56.8                                                                             | +/-53.3      | +/-51.6      | +/-50.1      | +/-48.5      | +/-48        | +/-47.7      |
|               | 48"       | +/-52.3                                                                             | +/-48.3      | +/-46.4      | +/-44.4      | +/-42        | +/-41.1      | +/-40.2      |
|               | 50-5/8"   | +/-51.5                                                                             | +/-46.9      | +/-45.4      | +/-43.3      | +/-40.8      | +/-39.9      | +/-39        |
|               | 60"       | +/-45.8                                                                             | +/-38        | +/-36.3      | +/-35.9      | +/-36.2      | +/-36        | +/-35.6      |
|               | 63"       | +/-44.5                                                                             | +/-36.2      | +/-33.8      | +/-33        | +/-33.6      | +/-33.6      | +/-33.2      |
|               | 72"       |                                                                                     |              |              |              |              |              |              |
|               | 76"       |                                                                                     |              |              |              |              |              |              |
|               | 84"       |                                                                                     |              |              |              |              |              |              |



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.

TABLE 7:

|               |           | Design Pressure (psf) for Windows Attached to a <u>Horizontal</u> Frame Assembly Tube |              |              |              |              |              |              |
|---------------|-----------|---------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
|               |           | Window Width                                                                          |              |              |              |              |              |              |
|               |           | under 23"                                                                             | 25-15/16"    | 27-3/4"      | 30"          | 33-1/2"      | 35"          | 37"          |
|               |           | Anchor Group                                                                          | Anchor Group | Anchor Group | Anchor Group | Anchor Group | Anchor Group | Anchor Group |
| Window Height | under 23" | +70/-79.6                                                                             | +70/-71.5    | +/-67.9      | +/-64.5      | +/-60.6      | +/-59.2      | +/-57.7      |
|               | 25-15/16" | +70/-71.5                                                                             | +70/-70.5    | +/-66.2      | +/-62.1      | +/-57.6      | +/-56        | +/-54.3      |
|               | 38-3/8"   | +/-56.8                                                                               | +/-53.3      | +/-51.6      | +/-50.1      | +/-48.5      | +/-48        | +/-47.7      |
|               | 48"       | +/-52.3                                                                               | +/-48.3      | +/-46.4      | +/-44.4      | +/-42        | +/-41.1      | +/-40.2      |
|               | 50-5/8"   | +/-51.5                                                                               | +/-46.9      | +/-45.4      | +/-43.3      | +/-40.8      | +/-39.9      | +/-39        |
|               | 60"       | +/-45.8                                                                               | +/-38        | +/-36.3      | +/-35.9      | +/-36.2      | +/-36        | +/-35.6      |
|               | 63"       | +/-44.5                                                                               | +/-36.2      | +/-33.8      | +/-33        | +/-33.6      | +/-33.6      | +/-33.2      |
|               | 72"       | +/-41.6                                                                               | +/-32        | +/-28.8      | +/-26.8      |              |              |              |
|               | 76"       | +/-40.7                                                                               | +/-30.8      | +/-27.4      | +/-25.2      |              |              |              |
|               | 84"       | +/-39.4                                                                               | +/-29.3      | +/-25.5      |              |              |              |              |



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.

NOTES:  
1) SEE SHEET 5 FOR ADDITIONAL SAMPLE CONFIGURATIONS.  
2) SEE SHEET 5 FOR SNUBBER REQUIREMENTS.  
3) TIP-TO-TIP DIMENSIONS SHOWN. FOR NAIL FIN WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

|                                                                                                     |  |                                                                                           |  |                       |  |                                       |  |               |  |
|-----------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------|--|-----------------------|--|---------------------------------------|--|---------------|--|
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| CA640                                                                                               |  | CA640                                                                                     |  | 6 OF 15               |  | CA640                                 |  | 6 OF 15       |  |

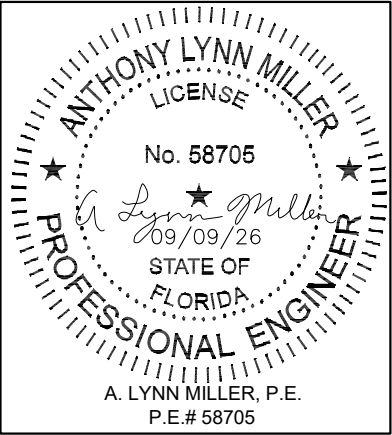
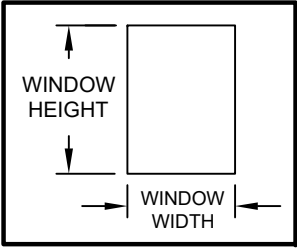


TABLE 8:

|               |           | Design Pressure (psf) for Single Windows, All Anchor Groups |            |           |           |          |          |          |
|---------------|-----------|-------------------------------------------------------------|------------|-----------|-----------|----------|----------|----------|
|               |           | Window Width                                                |            |           |           |          |          |          |
|               |           | under 23"                                                   | 25-15/16"  | 27-3/4"   | 30"       | 33-1/2"  | 35"      | 37"      |
| Window Height | under 23" | +90/-113.7                                                  | +90/-102.1 | +90/-97   | +90/-92.1 | +/- 86.6 | +/- 84.6 | +/- 82.5 |
|               | 25-15/16" | +90/-102.1                                                  | +90/-100.8 | +90/-94.6 | +/- 88.7  | +/- 82.2 | +/- 80   | +/- 77.6 |
|               | 38-3/8"   | +/- 81.1                                                    | +/- 76.1   | +/- 73.8  | +/- 71.5  | +/- 69.2 | +/- 68.6 | +/- 68.2 |
|               | 48"       | +/- 74.7                                                    | +/- 69     | +/- 66.2  | +/- 63.4  | +/- 59.9 | +/- 58.8 | +/- 57.5 |
|               | 50-5/8"   | +/- 73.5                                                    | +/- 67.7   | +/- 64.9  | +/- 61.9  | +/- 58.3 | +/- 57.1 | +/- 55.7 |
|               | 60"       | +/- 70.3                                                    | +/- 64.3   | +/- 61.3  | +/- 58.1  | +/- 54.1 | +/- 52.7 | +/- 51.1 |
|               | 63"       | +/- 69.5                                                    | +/- 63.4   | +/- 60.4  | +/- 57.2  | +/- 53   | +/- 51.4 | +/- 50   |
|               | 72"       | +/- 67.6                                                    | +/- 61.4   | +/- 58.3  | +/- 54.3  | +/- 43.6 | +/- 42.3 | +/- 40.7 |
|               | 76"       | +/- 67                                                      | +/- 60.7   | +/- 57.6  | +/- 52.3  | +/- 42.9 | +/- 41   | +/- 39.4 |
|               | 84"       | +/- 65.9                                                    | +/- 59.6   | +/- 56.4  | +/- 45.4  | +/- 40.1 |          |          |



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.



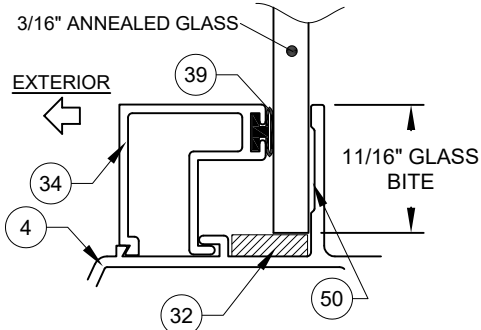
POSITIVE PRESSURE LIMITED TO +70 PSF FOR INTEGRAL FIN FRAMES ONLY

FOR GLASS TYPES:

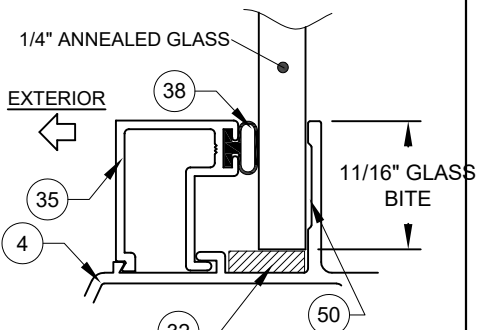
3) 3/16" ANNEALED  
5) 1/4" ANNEALED

FOR FRAME TYPES:

FLANGE & INTEGRAL FIN



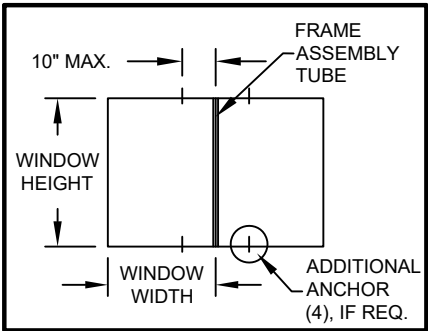
GLASS TYPE 3



GLASS TYPE 5

TABLE 9:

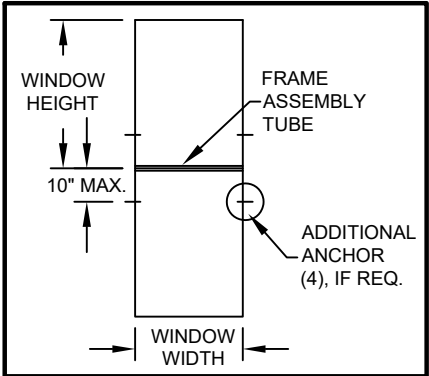
|               |           | Design Pressure (psf) for Windows Attached to a <u>Vertical</u> Frame Assembly Tube |           |           |           |              |             |              |             |              |             |              |             |              |             |              |             |
|---------------|-----------|-------------------------------------------------------------------------------------|-----------|-----------|-----------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
|               |           | Window Width                                                                        |           |           |           |              |             |              |             |              |             |              |             |              |             |              |             |
|               |           | under 23"                                                                           |           |           |           | 25-15/16"    |             | 27-3/4"      |             | 30"          |             | 33-1/2"      |             | 35"          |             | 37"          |             |
|               |           | Anchor Group                                                                        |           |           |           | Anchor Group |             | Anchor Group |             | Anchor Group |             | Anchor Group |             | Anchor Group |             | Anchor Group |             |
|               |           | A                                                                                   | B         | C         | D & E     | A            | B, C, D & E | A            | B, C, D & E | A            | B, C, D & E | A            | B, C, D & E | A            | B, C, D & E | A            | B, C, D & E |
| Window Height | under 23" | +70/-90                                                                             | +70/-90   | +70/-90   | +70/-90   | +70/-90      | +70/-90     | +70/-90      | +70/-90     | +70/-90      | +70/-90     | +70/-86.6    | +70/-86.6   | +70/-84.6    | +70/-84.6   | +70/-82.5    | +70/-82.5   |
|               | 25-15/16" | +70/-90                                                                             | +70/-90   | +70/-90   | +70/-90   | +70/-90      | +70/-90     | +70/-90      | +70/-90     | +70/-88.7    | +70/-88.7   | +70/-82.2    | +70/-82.2   | +70/-80      | +70/-80     | +70/-77.6    | +70/-77.6   |
|               | 38-3/8"   | +70/-81.1                                                                           | +70/-76.4 | +70/-81.1 | +70/-81.1 | +70/-76.1    | +70/-76.1   | +70/-73.8    | +70/-73.8   | +70/-71.5    | +70/-71.5   | +/-65.5      | +/-69.2     | +/-68.6      | +/-68.6     | +/-68.2      | +/-68.2     |
|               | 48"       | +70/-74.7                                                                           | +/-61.1   | +70/-73.1 | +70/-74.7 | +/-67.5      | +/-69       | +/-63.1      | +/-66.2     | +/-58.4      | +/-63.4     | +/-52.3      | +/-59.9     | +/-58.8      | +/-58.8     | +/-57.5      | +/-57.5     |
|               | 50-5/8"   | +70/-72.3                                                                           | +/-57.9   | +/-69.3   | +70/-73.5 | +/-64        | +/-67.7     | +/-59.9      | +/-64.9     | +/-55.4      | +/-61.9     | +/-49.6      | +/-58.3     | +/-57.1      | +/-57.1     | +/-55.7      | +/-55.7     |
|               | 60"       | +/-61                                                                               | +/-48.9   | +/-58.5   | +70/-70.3 | +/-54        | +/-64.3     | +/-50.5      | +/-61.3     | +/-46.7      | +/-58.1     | +/-41.9      | +/-54.1     | +/-50.1      | +/-52.7     | +/-47.4      | +/-51.1     |
|               | 63"       | +/-58.1                                                                             | +/-46.5   | +/-55.7   | +/-69.5   | +/-51.5      | +/-63.4     | +/-48.1      | +/-60.4     | +/-44.5      | +/-57.2     | +/-39.9      | +/-53       | +/-47.7      | +/-51.4     | +/-45.1      | +/-50       |



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.

TABLE 10:

|               |           | Design Pressure (psf) for Windows Attached to a <u>Horizontal</u> Frame Assembly Tube |              |              |              |              |              |           |           |              |           |           |
|---------------|-----------|---------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|-----------|-----------|--------------|-----------|-----------|
|               |           | Window Width                                                                          |              |              |              |              |              |           |           |              |           |           |
|               |           | under 23"                                                                             | 25-15/16"    | 27-3/4"      | 30"          | 33-1/2"      | 35"          |           |           | 37"          |           |           |
|               |           | Anchor Group                                                                          | Anchor Group | Anchor Group | Anchor Group | Anchor Group | Anchor Group |           |           | Anchor Group |           |           |
|               |           | All                                                                                   | All          | All          | All          | All          | A            | B         | C, D & E  | A            | B         | C, D & E  |
| Window Height | under 23" | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-86.6    | +70/-84.6    | +70/-83.8 | +70/-84.6 | +70/-82.5    | +70/-79.2 | +70/-82.5 |
|               | 25-15/16" | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-88.7    | +70/-82.2    | +70/-80      | +70/-80   | +70/-80   | +70/-77.6    | +70/-77.6 | +70/-77.6 |
|               | 38-3/8"   | +70/-81.1                                                                             | +70/-76.1    | +70/-73.8    | +70/-71.5    | +/-69.2      | +/-68.6      | +/-68.6   | +/-68.6   | +/-68.2      | +/-68.2   | +/-68.2   |
|               | 48"       | +70/-74.7                                                                             | +/-69        | +/-66.2      | +/-63.4      | +/-59.9      | +/-58.8      | +/-58.8   | +/-58.8   | +/-57.5      | +/-57.5   | +/-57.5   |
|               | 50-5/8"   | +70/-73.5                                                                             | +/-67.7      | +/-64.9      | +/-61.9      | +/-58.3      | +/-57.1      | +/-57.1   | +/-57.1   | +/-55.7      | +/-55.7   | +/-55.7   |
|               | 60"       | +70/-70.3                                                                             | +/-64.3      | +/-61.3      | +/-58.1      | +/-54.1      | +/-52.7      | +/-52.7   | +/-52.7   | +/-51.1      | +/-51.1   | +/-51.1   |
|               | 63"       | +/-69.5                                                                               | +/-63.4      | +/-60.4      | +/-57.2      | +/-53        | +/-51.4      | +/-51.4   | +/-51.4   | +/-50        | +/-50     | +/-50     |
|               | 72"       | +/-67.6                                                                               | +/-61.4      | +/-58.3      | +/-54.3      | +/-43.6      | +/-42.3      | +/-42.3   | +/-42.3   | +/-40.7      | +/-40.7   | +/-40.7   |
|               | 76"       | +/-67                                                                                 | +/-60.7      | +/-57.6      | +/-52.3      | +/-42.9      | +/-41        | +/-41     | +/-41     | +/-39.4      | +/-39.4   | +/-39.4   |
|               | 84"       | +/-65.9                                                                               | +/-59.6      | +/-56.4      | +/-45.4      | +/-40.1      |              |           |           |              |           |           |



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.

## NOTES:

- 1) SEE SHEET 5 FOR ADDITIONAL SAMPLE CONFIGURATIONS.
- 2) SEE SHEET 5 FOR SNUBBER REQUIREMENTS.
- 3) TIP-TO-TIP DIMENSIONS SHOWN. FOR NAIL FIN WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

Rev.#

Date

Rev.

PREPARED BY A LYNN MILLER  
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REGISTRATION #29296

ALUM. CASEMENT WINDOW

DESIGN PRESSURES PER  
GLAZING TYPES

CA640

09/09/26

JENS ROSOWSKI

Drawn By

DWG No.

7 OF 15

Sheet

CA640

Series

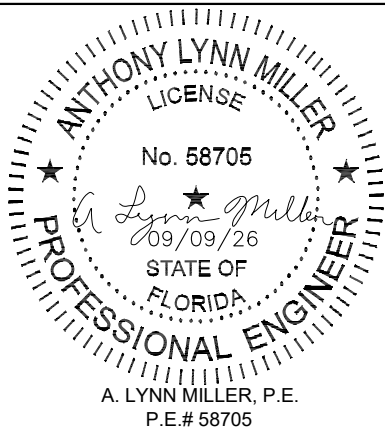
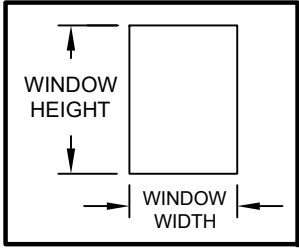


TABLE 11:

|               |           | Design Pressure (psf) for Single Windows, All Anchor Groups |          |          |            |            |            |            |  |
|---------------|-----------|-------------------------------------------------------------|----------|----------|------------|------------|------------|------------|--|
|               |           | Window Width                                                |          |          |            |            |            |            |  |
|               |           | under 23"                                                   | 23"      | 27-3/4"  | 30"        | 33-1/2"    | 35"        | 37"        |  |
| Window Height | under 23" | +90/-150                                                    | +90/-150 | +90/-150 | +90/-150   | +90/-150   | +90/-150   | +90/-150   |  |
|               | 25-15/16" | +90/-150                                                    | +90/-150 | +90/-150 | +90/-150   | +90/-150   | +90/-150   | +90/-150   |  |
|               | 38-3/8"   | +90/-150                                                    | +90/-150 | +90/-150 | +90/-150   | +90/-150   | +90/-150   | +90/-150   |  |
|               | 48"       | +90/-150                                                    | +90/-150 | +90/-150 | +90/-150   | +90/-150   | +90/-150   | +90/-150   |  |
|               | 50-5/8"   | +90/-150                                                    | +90/-150 | +90/-150 | +90/-150   | +90/-150   | +90/-150   | +90/-150   |  |
|               | 60"       | +90/-150                                                    | +90/-150 | +90/-150 | +90/-150   | +90/-150   | +90/-146.8 | +90/-142.2 |  |
|               | 63"       | +90/-150                                                    | +90/-150 | +90/-150 | +90/-150   | +90/-148   | +90/-144   | +90/-139.2 |  |
|               | 72"       | +90/-150                                                    | +90/-150 | +90/-150 | +90/-150   | +90/-141.6 | +90/-137.4 | +90/-132.4 |  |
|               | 76"       | +90/-150                                                    | +90/-150 | +90/-150 | +90/-150   | +90/-139.4 | +90/-135.1 | +90/-130   |  |
|               | 84"       | +90/-150                                                    | +90/-150 | +90/-150 | +90/-147.7 | +90/-135.8 |            |            |  |



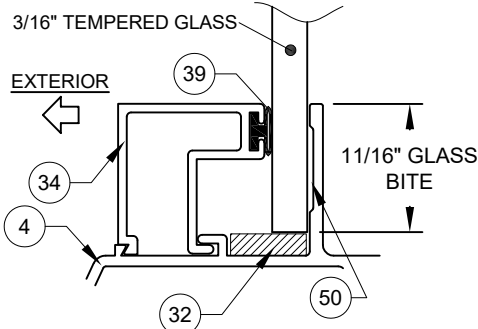
SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

FOR GLASS TYPES:

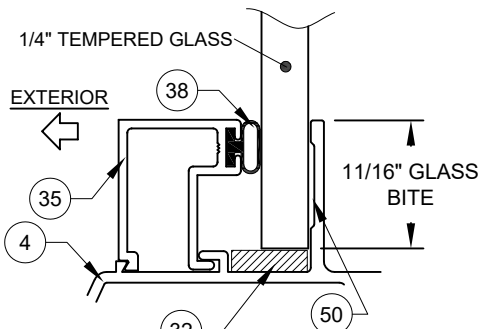
- 4) 3/16" TEMPERED  
6) 1/4" TEMPERED

FOR FRAME TYPES:

FLANGE ONLY



GLASS TYPE 4



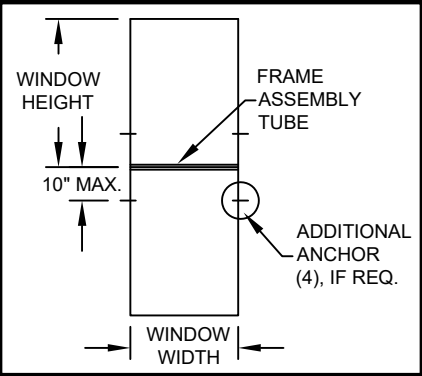
GLASS TYPE 6

TABLE 12:

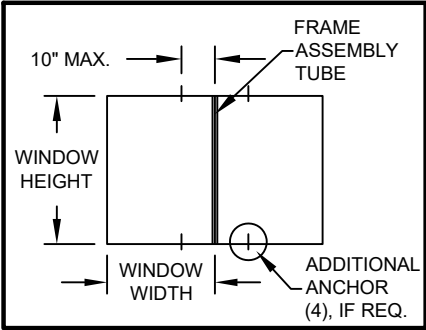
|               |           | Design Pressure (psf) for Windows Attached to a <u>Vertical</u> Frame Assembly Tube |           |           |           |              |           |         |              |           |         |              |           |           |         |              |           |         |              |           |         |              |           |           |         |         |  |
|---------------|-----------|-------------------------------------------------------------------------------------|-----------|-----------|-----------|--------------|-----------|---------|--------------|-----------|---------|--------------|-----------|-----------|---------|--------------|-----------|---------|--------------|-----------|---------|--------------|-----------|-----------|---------|---------|--|
|               |           | Window Width                                                                        |           |           |           |              |           |         |              |           |         |              |           |           |         |              |           |         |              |           |         |              |           |           |         |         |  |
|               |           | under 23"                                                                           |           |           |           | 25-15/16"    |           |         | 27-3/4"      |           |         | 30"          |           |           |         | 33-1/2"      |           |         | 35"          |           |         | 37"          |           |           |         |         |  |
|               |           | Anchor Group                                                                        |           |           |           | Anchor Group |           |         | Anchor Group |           |         | Anchor Group |           |           |         | Anchor Group |           |         | Anchor Group |           |         | Anchor Group |           |           |         |         |  |
| Window Height | under 23" | A                                                                                   | B         | C         | D         | A            | B         | C & D   | A            | B         | C & D   | A            | B         | C         | D       | A            | B         | C & D   | A            | B         | C & D   | A            | B         | C         | D       |         |  |
|               | 25-15/16" | +70/-90                                                                             | +70/-90   | +70/-90   | +70/-90   | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90   | +70/-90 | +70/-90 |  |
|               | 38-3/8"   | +70/-90                                                                             | +70/-76.4 | +70/-90   | +70/-90   | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90   | +70/-90 | +70/-90 |  |
|               | 48"       | +70/-76.2                                                                           | +/-61.1   | +70/-73.1 | +70/-90   | +70/-84.4    | +70/-90   | +70/-90 | +70/-78.9    | +70/-90   | +70/-90 | +70/-87.6    | +70/-90   | +70/-90   | +70/-90 | +70/-78.5    | +70/-90   | +70/-90 | +70/-87.6    | +70/-90   | +70/-90 | +70/-82.9    | +70/-90   | +70/-90   | +70/-90 | +70/-90 |  |
|               | 50-5/8"   | +70/-72.3                                                                           | +/-57.9   | +/-69.3   | +70/-90   | +70/-80.1    | +70/-90   | +70/-90 | +70/-74.8    | +70/-90   | +70/-90 | +70/-83.1    | +70/-90   | +70/-90   | +70/-90 | +70/-74.4    | +70/-90   | +70/-90 | +70/-83.1    | +70/-90   | +70/-90 | +70/-78.6    | +70/-90   | +70/-90   | +70/-90 | +70/-90 |  |
|               | 60"       | +/-61                                                                               | +/-48.9   | +/-58.5   | +70/-90   | +/-67.5      | +70/-86.6 | +70/-90 | +/-63.1      | +70/-81   | +70/-90 | +70/-70.1    | +70/-90   | +70/-89.6 | +70/-90 | +/-62.8      | +70/-83.9 | +70/-90 | +70/-70.1    | +70/-80.2 | +70/-90 | +/-66.3      | +70/-75.9 | +70/-90   | +70/-90 | +70/-90 |  |
|               | 63"       | +/-58.1                                                                             | +/-46.5   | +/-55.7   | +70/-88.7 | +/-64.3      | +70/-82.5 | +70/-90 | +/-60.1      | +70/-77.1 | +70/-90 | +/-66.7      | +70/-89.1 | +70/-85.3 | +70/-90 | +/-59.8      | +70/-79.9 | +70/-90 | +/-66.7      | +70/-76.4 | +70/-90 | +/-63.1      | +70/-72.3 | +70/-86.5 | +70/-90 | +70/-90 |  |

TABLE 13:

|               |           | Design Pressure (psf) for Windows Attached to a <u>Horizontal</u> Frame Assembly Tube |              |              |              |              |           |         |              |           |         |              |           |         |
|---------------|-----------|---------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|-----------|---------|--------------|-----------|---------|--------------|-----------|---------|
|               |           | Window Width                                                                          |              |              |              |              |           |         |              |           |         |              |           |         |
|               |           | under 23"                                                                             | 25-15/16"    | 27-3/4"      | 30"          | 33-1/2"      |           |         | 35"          |           |         | 37"          |           |         |
|               |           | Anchor Group                                                                          | Anchor Group | Anchor Group | Anchor Group | Anchor Group |           |         | Anchor Group |           |         | Anchor Group |           |         |
| Window Height | under 23" | All                                                                                   | All          | All          | All          | A            | B         | C & D   | A            | B         | C & D   | A            | B         | C & D   |
|               | 25-15/16" | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-87.6 | +70/-90 | +70/-90      | +70/-83.8 | +70/-90 | +70/-90      | +70/-79.2 | +70/-90 |
|               | 38-3/8"   | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 |
|               | 48"       | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 |
|               | 50-5/8"   | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 |
|               | 60"       | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 |
|               | 63"       | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 |
|               | 72"       | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 |
|               | 76"       | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 |
|               | 84"       | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 |              |           |         |              |           |         |



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.

NOTES:  
1) SEE SHEET 5 FOR ADDITIONAL SAMPLE CONFIGURATIONS.  
2) SEE SHEET 5 FOR SNUBBER REQUIREMENTS.

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REGISTRATION #29296

ALUM. CASEMENT WINDOW

DESIGN PRESSURES PER  
GLAZING TYPES

09/09/26

By JENS ROSOWSKI

DWG No. 8 OF 15

CA640-NI-HVHZ

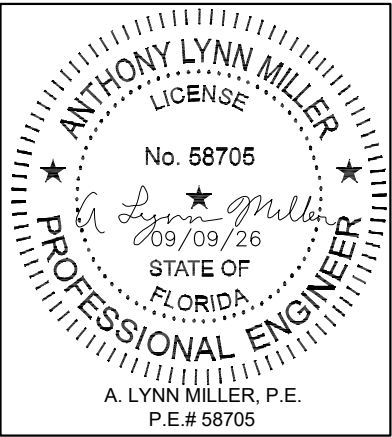
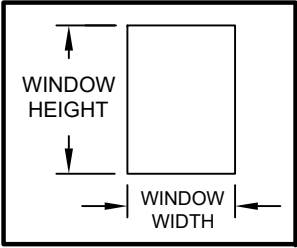


TABLE 14:

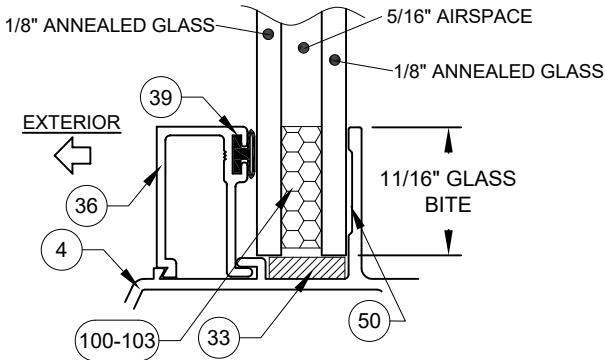
|               |           | Design Pressure (psf) for Single Windows, All Anchor Groups |            |            |            |            |            |           |  |
|---------------|-----------|-------------------------------------------------------------|------------|------------|------------|------------|------------|-----------|--|
|               |           | Window Width                                                |            |            |            |            |            |           |  |
|               |           | under 23"                                                   | 25-15/16"  | 27-3/4"    | 30"        | 33-1/2"    | 35"        | 37"       |  |
| Window Height | under 23" | +90/-136.4                                                  | +90/-122.5 | +90/-116.4 | +90/-110.6 | +90/-103.9 | +90/-101.6 | +90/-98.9 |  |
|               | 25-15/16" | +90/-122.5                                                  | +90/-120.9 | +90/-113.5 | +90/-106.5 | +90/-98.7  | +90/-96    | +90/-93.1 |  |
|               | 38-3/8"   | +90/-97.4                                                   | +90/-91.3  | +/- 88.5   | +/- 85.8   | +/- 83.1   | +/- 82.4   | +/- 81.8  |  |
|               | 48"       | +/- 89.7                                                    | +/- 82.8   | +/- 79.5   | +/- 76     | +/- 71.9   | +/- 70.5   | +/- 69    |  |
|               | 50-5/8"   | +/- 88.2                                                    | +/- 81.3   | +/- 77.8   | +/- 74.3   | +/- 70     | +/- 68.5   | +/- 66.8  |  |
|               | 60"       | +/- 82.4                                                    | +/- 68.4   | +/- 65.3   | +/- 64.7   | +/- 65     | +/- 63.3   | +/- 61.3  |  |
|               | 63"       | +/- 80.1                                                    | +/- 65.2   | +/- 60.8   | +/- 59.5   | +/- 60.5   | +/- 60.5   | +/- 59.7  |  |
|               | 72"       | +/- 74.9                                                    | +/- 57.7   | +/- 51.9   | +/- 48.3   | +/- 48.3   | +/- 47.5   | +/- 45.8  |  |
|               | 76"       | +/- 73.2                                                    | +/- 55.4   | +/- 49.3   | +/- 45.4   | +/- 44.5   | +/- 44.9   | +/- 45    |  |
|               | 84"       | +/- 71                                                      | +/- 52.7   | +/- 45.8   | +/- 40.8   | +/- 37.8   |            |           |  |



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

FOR GLASS TYPES:  
7) 9/16" IG: (1/8" A - 5/16" AIR - 1/8" A)  
FOR FRAME TYPES:  
FLANGE & INTEGRAL FIN

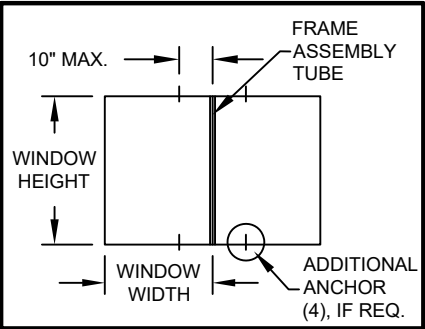
POSITIVE PRESSURE LIMITED TO +70 PSF FOR INTEGRAL FIN FRAMES ONLY



GLASS TYPE 7  
9/16" NOM. GLASS STACK

TABLE 15:

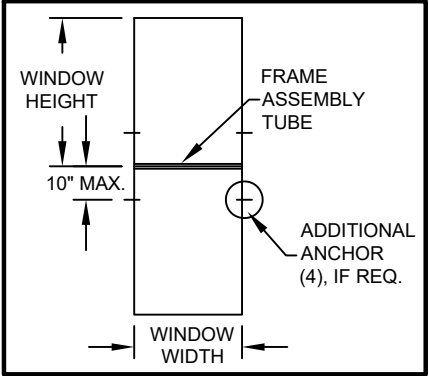
|               |           | Design Pressure (psf) for Windows Attached to a <u>Vertical</u> Frame Assembly Tube |           |           |           |              |             |              |              |              |              |              |              |              |              |              |              |
|---------------|-----------|-------------------------------------------------------------------------------------|-----------|-----------|-----------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|               |           | Window Width                                                                        |           |           |           |              |             |              |              |              |              |              |              |              |              |              |              |
|               |           | under 23"                                                                           |           |           |           | 25-15/16"    |             | 27-3/4"      |              | 30"          |              | 33-1/2"      |              | 35"          |              | 37"          |              |
|               |           | Anchor Group                                                                        |           |           |           | Anchor Group |             | Anchor Group |              | Anchor Group |              | Anchor Group |              | Anchor Group |              | Anchor Group |              |
|               |           | A                                                                                   | B         | C         | D & E     | A            | B, C, D & E | A            | B, C & D & E | A            | B, C & D & E | A            | B, C & D & E | A            | B, C & D & E | A            | B, C & D & E |
| Window Height | under 23" | +70/-90                                                                             | +70/-90   | +70/-90   | +70/-90   | +70/-90      | +70/-90     | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90      |
|               | 25-15/16" | +70/-90                                                                             | +70/-90   | +70/-90   | +70/-90   | +70/-90      | +70/-90     | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90      |
|               | 38-3/8"   | +70/-90                                                                             | +70/-76.4 | +70/-90   | +70/-90   | +70/-84.5    | +70/-90     | +70/-79      | +70/-88.5    | +70/-73      | +70/-85.8    | +70/-81.8    | +70/-83.1    | +70/-78.3    | +70/-82.4    | +70/-74      | +70/-81.8    |
|               | 48"       | +70/-76.2                                                                           | +/-61.1   | +70/-73.1 | +70/-89.7 | +/-67.5      | +70/-82.8   | +/-63.1      | +70/-79.5    | +/-58.4      | +70/-76      | +/-52.3      | +70/-71.9    | +/-62.6      | +70/-70.5    | +/-59.2      | +/-69        |
|               | 50-5/8"   | +70/-72.3                                                                           | +/-57.9   | +/-69.3   | +70/-88.2 | +/-64        | +70/-81.3   | +/-59.9      | +70/-77.8    | +/-55.4      | +70/-74.3    | +/-49.6      | +/-70        | +/-59.3      | +/-68.5      | +/-56.1      | +/-66.8      |
|               | 60"       | +/-61                                                                               | +/-48.9   | +/-58.5   | +70/-82.4 | +/-54        | +/-68.4     | +/-50.5      | +/-65.3      | +/-46.7      | +/-64.7      | +/-41.9      | +/-65        | +/-50.1      | +/-63.3      | +/-47.4      | +/-61.3      |
|               | 63"       | +/-58.1                                                                             | +/-46.5   | +/-55.7   | +70/-80.1 | +/-51.5      | +/-65.2     | +/-48.1      | +/-60.8      | +/-44.5      | +/-59.5      | +/-39.9      | +/-60.5      | +/-47.7      | +/-60.5      | +/-45.1      | +/-59.7      |



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.

TABLE 16:

|               |           | Design Pressure (psf) for Windows Attached to a <u>Horizontal</u> Frame Assembly Tube |              |              |              |              |           |           |              |           |           |              |           |           |
|---------------|-----------|---------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|-----------|-----------|--------------|-----------|-----------|--------------|-----------|-----------|
|               |           | Window Width                                                                          |              |              |              |              |           |           |              |           |           |              |           |           |
|               |           | under 23"                                                                             | 25-15/16"    | 27-3/4"      | 30"          | 33-1/2"      |           |           | 35"          |           |           | 37"          |           |           |
|               |           | Anchor Group                                                                          | Anchor Group | Anchor Group | Anchor Group | Anchor Group |           |           | Anchor Group |           |           | Anchor Group |           |           |
|               |           | All                                                                                   | All          | All          | All          | A            | B         | C, D & E  | A            | B         | C, D & E  | A            | B         | C, D & E  |
| Window Height | under 23" | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-87.6 | +70/-90   | +70/-90      | +70/-83.8 | +70/-90   | +70/-90      | +70/-79.2 | +70/-90   |
|               | 25-15/16" | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90   | +70/-90      | +70/-90   | +70/-90   | +70/-87.6    | +70/-90   | +70/-90   |
|               | 38-3/8"   | +70/-90                                                                               | +70/-90      | +70/-88.5    | +70/-85.8    | +70/-83.1    | +70/-83.1 | +70/-83.1 | +70/-82.4    | +70/-82.4 | +70/-82.4 | +70/-81.8    | +70/-81.8 | +70/-81.8 |
|               | 48"       | +70/-89.7                                                                             | +70/-82.8    | +70/-79.5    | +70/-76      | +70/-71.9    | +70/-71.9 | +70/-71.9 | +70/-70.5    | +70/-70.5 | +70/-70.5 | +/-69        | +/-69     | +/-69     |
|               | 50-5/8"   | +70/-88.2                                                                             | +70/-81.3    | +70/-77.8    | +70/-74.3    | +/-70        | +/-70     | +/-70     | +/-68.5      | +/-68.5   | +/-68.5   | +/-66.8      | +/-66.8   | +/-66.8   |
|               | 60"       | +70/-82.4                                                                             | +/-68.4      | +/-65.3      | +/-64.7      | +/-65        | +/-65     | +/-65     | +/-63.3      | +/-63.3   | +/-63.3   | +/-61.3      | +/-61.3   | +/-61.3   |
|               | 63"       | +70/-80.1                                                                             | +/-65.2      | +/-60.8      | +/-59.5      | +/-60.5      | +/-60.5   | +/-60.5   | +/-60.5      | +/-60.5   | +/-60.5   | +/-59.7      | +/-59.7   | +/-59.7   |
|               | 72"       | +70/-74.9                                                                             | +/-57.7      | +/-51.9      | +/-48.3      | +/-48.3      | +/-48.3   | +/-48.3   | +/-47.5      | +/-47.5   | +/-47.5   | +/-45.8      | +/-45.8   | +/-45.8   |
|               | 76"       | +70/-73.2                                                                             | +/-55.4      | +/-49.3      | +/-45.4      | +/-44.5      | +/-44.5   | +/-44.5   | +/-44.9      | +/-44.9   | +/-44.9   | +/-45        | +/-45     | +/-45     |
|               | 84"       | +70/-71                                                                               | +/-52.7      | +/-45.8      | +/-40.8      | +/-37.8      | +/-37.8   | +/-37.8   |              |           |           |              |           |           |



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.

NOTES:  
1) SEE SHEET 5 FOR ADDITIONAL SAMPLE CONFIGURATIONS.  
2) SEE SHEET 5 FOR SNUBBER REQUIREMENTS.  
3) TIP-TO-TIP DIMENSIONS SHOWN. FOR NAIL FIN WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

|                                                                                                     |  |                                                                                           |  |                       |  |                                       |  |               |  |
|-----------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------|--|-----------------------|--|---------------------------------------|--|---------------|--|
| 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<br>FOR PERMITTING. |  | 09/09/26              |  | JENS ROSOWSKI                         |  | CA640-NI-HVHZ |  |
| PGT <sup>®</sup> WINDOWS and DOORS<br>3400 PRECISION DRIVE<br>N. VENICE, FL 34275<br>(941) 480-1600 |  | REGISTRATION #29296                                                                       |  | ALUM. CASEMENT WINDOW |  | DESIGN PRESSURES PER<br>GLAZING TYPES |  | 9 OF 15       |  |
| Series                                                                                              |  | Desc.                                                                                     |  | Title                 |  | Sheet                                 |  | CA640         |  |

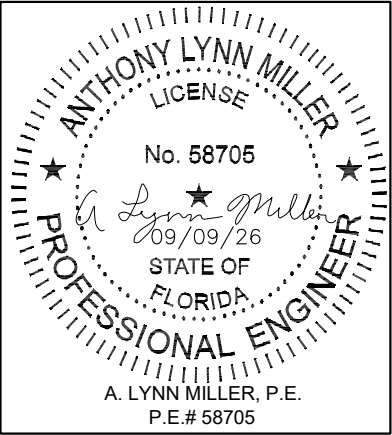
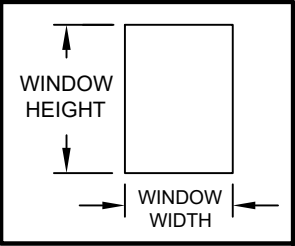


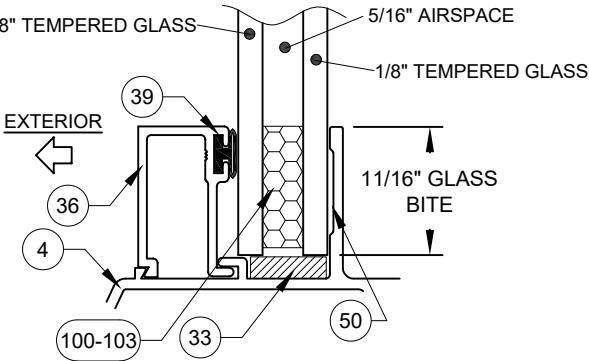
TABLE 17:

|               |           | Design Pressure (psf) for Single Windows, All Anchor Groups |           |            |            |            |            |            |  |
|---------------|-----------|-------------------------------------------------------------|-----------|------------|------------|------------|------------|------------|--|
|               |           | Window Width                                                |           |            |            |            |            |            |  |
|               |           | under 23"                                                   | 25-15/16" | 27-3/4"    | 30"        | 33-1/2"    | 35"        | 37"        |  |
| Window Height | under 23" | +90/-150                                                    | +90/-150  | +90/-150   | +90/-150   | +90/-150   | +90/-150   | +90/-150   |  |
|               | 25-15/16" | +90/-150                                                    | +90/-150  | +90/-150   | +90/-150   | +90/-150   | +90/-150   | +90/-150   |  |
|               | 38-3/8"   | +90/-150                                                    | +90/-150  | +90/-150   | +90/-150   | +90/-150   | +90/-150   | +90/-150   |  |
|               | 48"       | +90/-150                                                    | +90/-150  | +90/-150   | +90/-150   | +90/-150   | +90/-150   | +90/-149.4 |  |
|               | 50-5/8"   | +90/-150                                                    | +90/-150  | +90/-150   | +90/-150   | +90/-150   | +90/-148.4 | +90/-144.7 |  |
|               | 60"       | +90/-150                                                    | +90/-150  | +90/-150   | +90/-150   | +90/-140.8 | +90/-137   | +90/-132.8 |  |
|               | 63"       | +90/-150                                                    | +90/-150  | +90/-150   | +90/-148.6 | +90/-138.2 | +90/-134.4 | +90/-130   |  |
|               | 72"       | +90/-150                                                    | +90/-150  | +90/-150   | +90/-143.1 | +/- 48.3   | +/- 47.5   | +/- 45.8   |  |
|               | 76"       | +90/-150                                                    | +90/-150  | +90/-149.8 | +90/-141.1 | +/- 44.5   | +/- 44.9   | +/- 45     |  |
|               | 84"       | +90/-150                                                    | +90/-150  | +90/-146.7 | +/- 40.8   | +/- 37.8   |            |            |  |



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

FOR GLASS TYPES:  
8) 9/16" IG: (1/8" T - 5/16" AIR - 1/8" T)  
FOR FRAME TYPES:  
FLANGE ONLY



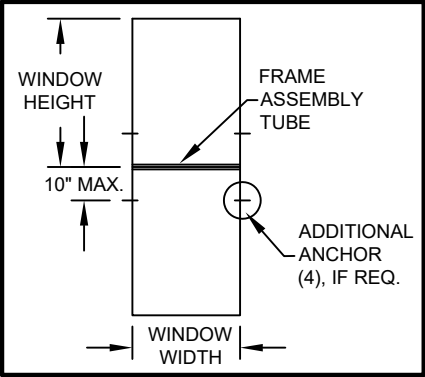
GLASS TYPE 8  
9/16" NOM. GLASS STACK

TABLE 18:

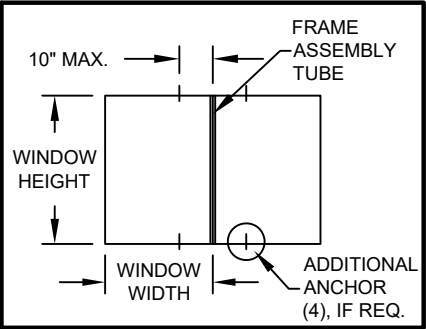
| <div><div></div><div></div></div> |           | Design Pressure (psf) for Windows Attached to a <u>Vertical</u> Frame Assembly Tube |           |           |           |              |           |         |              |           |         |              |           |           |         |              |           |           |         |              |           |         |              |           |           |         |  |
|-----------------------------------|-----------|-------------------------------------------------------------------------------------|-----------|-----------|-----------|--------------|-----------|---------|--------------|-----------|---------|--------------|-----------|-----------|---------|--------------|-----------|-----------|---------|--------------|-----------|---------|--------------|-----------|-----------|---------|--|
|                                   |           | Window Width                                                                        |           |           |           |              |           |         |              |           |         |              |           |           |         |              |           |           |         |              |           |         |              |           |           |         |  |
|                                   |           | under 23"                                                                           |           |           |           | 25-15/16"    |           |         | 27-3/4"      |           |         | 30"          |           |           |         | 33-1/2"      |           |           |         | 35"          |           |         | 37"          |           |           |         |  |
|                                   |           | Anchor Group                                                                        |           |           |           | Anchor Group |           |         | Anchor Group |           |         | Anchor Group |           |           |         | Anchor Group |           |           |         | Anchor Group |           |         | Anchor Group |           |           |         |  |
|                                   |           | A                                                                                   | B         | C         | D         | A            | B         | C & D   | A            | B         | C & D   | A            | B         | C         | D       | A            | B         | C         | D       | A            | B         | C & D   | A            | B         | C         | D       |  |
| Window Height                     | under 23" | +70/-90                                                                             | +70/-90   | +70/-90   | +70/-90   | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90   | +70/-90 |  |
|                                   | 25-15/16" | +70/-90                                                                             | +70/-90   | +70/-90   | +70/-90   | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90   | +70/-90 |  |
|                                   | 38-3/8"   | +70/-90                                                                             | +70/-76.4 | +70/-90   | +70/-90   | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90   | +70/-90 |  |
|                                   | 48"       | +70/-76.2                                                                           | +/-61.1   | +70/-73.1 | +70/-90   | +70/-84.4    | +70/-90   | +70/-90 | +70/-78.9    | +70/-90   | +70/-90 | +70/-87.6    | +70/-90   | +70/-90   | +70/-90 | +70/-78.5    | +70/-90   | +70/-90   | +70/-90 | +70/-87.6    | +70/-90   | +70/-90 | +70/-82.9    | +70/-90   | +70/-90   | +70/-90 |  |
|                                   | 50-5/8"   | +70/-72.3                                                                           | +/-57.9   | +/-69.3   | +70/-90   | +70/-80.1    | +70/-90   | +70/-90 | +70/-74.8    | +70/-90   | +70/-90 | +70/-83.1    | +70/-90   | +70/-90   | +70/-90 | +70/-74.4    | +70/-90   | +70/-90   | +70/-90 | +70/-83.1    | +70/-90   | +70/-90 | +70/-78.6    | +70/-89.9 | +70/-90   | +70/-90 |  |
|                                   | 60"       | +/-61                                                                               | +/-48.9   | +/-58.5   | +70/-90   | +/-67.5      | +70/-86.6 | +70/-90 | +/-63.1      | +70/-81   | +70/-90 | +70/-70.1    | +70/-90   | +70/-89.6 | +70/-90 | +/-62.8      | +70/-83.9 | +70/-80.3 | +70/-90 | +/-60.1      | +70/-80.2 | +70/-90 | +/-66.3      | +70/-75.9 | +70/-90   | +70/-90 |  |
|                                   | 63"       | +/-58.1                                                                             | +/-46.5   | +/-55.7   | +70/-88.7 | +/-64.3      | +70/-82.5 | +70/-90 | +/-60.1      | +70/-77.1 | +70/-90 | +/-66.7      | +70/-71.3 | +70/-85.3 | +70/-90 | +/-59.8      | +70/-79.9 | +70/-76.5 | +70/-90 | +/-57.2      | +70/-76.4 | +70/-90 | +/-63.1      | +70/-72.3 | +70/-86.5 | +70/-90 |  |

TABLE 19:

|               |           | Design Pressure (psf) for Windows Attached to a <u>Horizontal</u> Frame Assembly Tube |              |              |              |              |           |         |              |           |         |              |           |         |
|---------------|-----------|---------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|-----------|---------|--------------|-----------|---------|--------------|-----------|---------|
|               |           | Window Width                                                                          |              |              |              |              |           |         |              |           |         |              |           |         |
|               |           | under 23"                                                                             | 25-15/16"    | 27-3/4"      | 30"          | 33-1/2"      |           |         | 35"          |           |         | 37"          |           |         |
|               |           | Anchor Group                                                                          | Anchor Group | Anchor Group | Anchor Group | Anchor Group |           |         | Anchor Group |           |         | Anchor Group |           |         |
|               |           | All                                                                                   | All          | All          | All          | A            | B         | C & D   | A            | B         | C & D   | A            | B         | C & D   |
| Window Height | under 23" | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-87.6 | +70/-90 | +70/-90      | +70/-83.8 | +70/-90 | +70/-90      | +70/-79.2 | +70/-90 |
|               | 25-15/16" | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-87.6    | +70/-90   | +70/-90 |
|               | 38-3/8"   | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 |
|               | 48"       | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 |
|               | 50-5/8"   | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 |
|               | 60"       | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 |
|               | 63"       | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 |
|               | 72"       | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 |
|               | 76"       | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 |
|               | 84"       | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90 |              |           |         |              |           |         |



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.

- NOTES:  
1) SEE SHEET 5 FOR ADDITIONAL SAMPLE CONFIGURATIONS.  
2) SEE SHEET 5 FOR SNUBBER REQUIREMENTS.  
3) TIP-TO-TIP DIMENSIONS SHOWN. FOR NAIL FIN WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

PREPARED BY A LYNN MILLER  
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(941) 480-1600

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REGISTRATION #29296

ALUM. CASEMENT WINDOW

DESIGN PRESSURES PER  
GLAZING TYPES

09/09/26

JENS ROSOWSKI

CA640-NI-HVHZ

CA640

10 OF 15

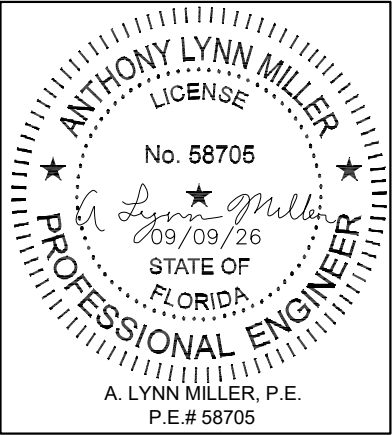
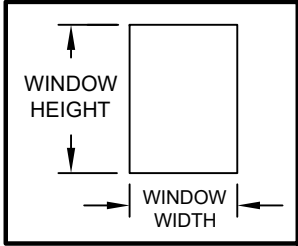


TABLE 20:

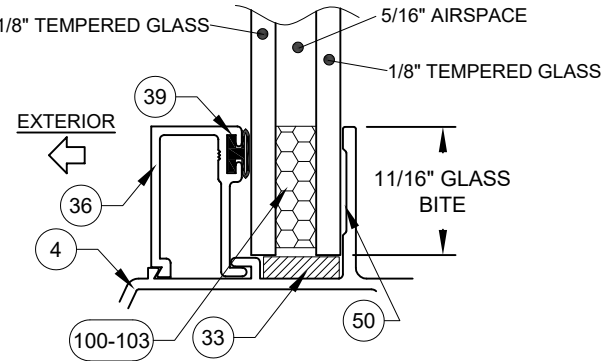
|               |           | Design Pressure (psf) for Single Windows, All Anchor Groups |           |           |          |          |          |          |
|---------------|-----------|-------------------------------------------------------------|-----------|-----------|----------|----------|----------|----------|
|               |           | Window Width                                                |           |           |          |          |          |          |
|               |           | under 23"                                                   | 25-15/16" | 27-3/4"   | 30"      | 33-1/2"  | 35"      | 37"      |
| Window Height | under 23" | +90/-109.6                                                  | +90/-98.4 | +90/-93.5 | +/- 88.8 | +/- 83.4 | +/- 81.6 | +/- 79.5 |
|               | 25-15/16" | +90/-98.4                                                   | +90/-97.1 | +90/-91.2 | +/- 85.5 | +/- 79.3 | +/- 77.2 | +/- 74.8 |
|               | 38-3/8"   | +/- 78.2                                                    | +/- 73.4  | +/- 71.1  | +/- 68.9 | +/- 66.7 | +/- 66.2 | +/- 65.7 |
|               | 48"       | +/- 72                                                      | +/- 66.5  | +/- 63.9  | +/- 61.1 | +/- 57.8 | +/- 56.6 | +/- 55.4 |
|               | 50-5/8"   | +/- 70.9                                                    | +/- 65.3  | +/- 62.5  | +/- 59.7 | +/- 56.2 | +/- 55   | +/- 53.7 |
|               | 60"       | +/- 67.8                                                    | +/- 62    | +/- 59.1  | +/- 56   | +/- 52.2 | +/- 50.8 | +/- 49.2 |
|               | 63"       | +/- 67                                                      | +/- 61.2  | +/- 58.2  | +/- 55.1 | +/- 51.2 | +/- 49.8 | +/- 48.2 |
|               | 72"       | +/- 65.2                                                    | +/- 57.7  | +/- 51.9  | +/- 48.3 | +/- 48.3 | +/- 47.5 | +/- 45.8 |
|               | 76"       | +/- 64.6                                                    | +/- 55.4  | +/- 49.3  | +/- 45.4 | +/- 44.5 | +/- 44.9 | +/- 45   |
|               | 84"       | +/- 63.5                                                    | +/- 52.7  | +/- 45.8  | +/- 40.8 | +/- 37.8 |          |          |



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

FOR GLASS TYPES:  
8) 9/16" IG: (1/8" T - 5/16" AIR - 1/8" T)  
FOR FRAME TYPES:  
INTEGRAL FIN ONLY

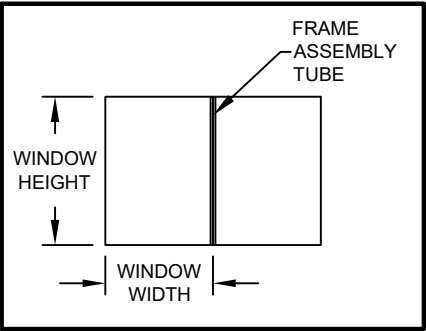
! POSITIVE PRESSURE LIMITED TO +70 PSF FOR INTEGRAL FIN FRAMES ONLY



GLASS TYPE 8  
9/16" NOM. GLASS STACK

TABLE 21:

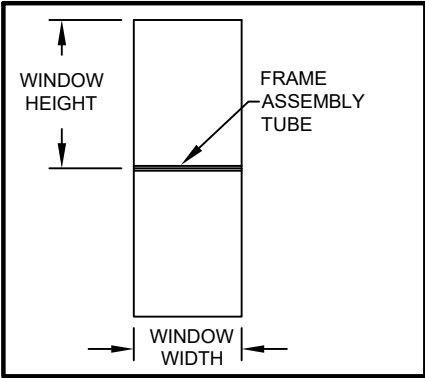
|               |           | Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly Tube |           |           |           |           |           |           |
|---------------|-----------|------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|               |           | Window Width                                                                 |           |           |           |           |           |           |
|               |           | under 23"                                                                    | 25-15/16" | 27-3/4"   | 30"       | 33-1/2"   | 35"       | 37"       |
| Window Height | under 23" | +70/-90                                                                      | +70/-90   | +70/-90   | +70/-88.8 | +70/-83.4 | +70/-81.6 | +70/-79.5 |
|               | 25-15/16" | +70/-90                                                                      | +70/-90   | +70/-90   | +70/-85.5 | +70/-79.3 | +70/-77.2 | +70/-74.8 |
|               | 38-3/8"   | +70/-78.2                                                                    | +70/-73.4 | +70/-71.1 | +/-68.9   | +/-66.7   | +/-66.2   | +/-65.7   |
|               | 48"       | +70/-72                                                                      | +/-66.5   | +/-63.9   | +/-61.1   | +/-57.8   | +/-56.6   | +/-55.4   |
|               | 50-5/8"   | +70/-70.9                                                                    | +/-65.3   | +/-62.5   | +/-59.7   | +/-56.2   | +/-55     | +/-53.7   |
|               | 60"       | +/-67.2                                                                      | +/-62     | +/-59.1   | +/-56     | +/-52.2   | +/-50.8   | +/-49.2   |
|               | 63"       | +/-64                                                                        | +/-61.2   | +/-58.2   | +/-55.1   | +/-51.2   | +/-49.8   | +/-48.2   |
|               |           |                                                                              |           |           |           |           |           |           |
|               |           |                                                                              |           |           |           |           |           |           |



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. NO ADDITIONAL ANCHORS REQUIRED WITH INTEGRAL FIN FRAME.

TABLE 22:

|               |           | Design Pressure (psf) for Windows Attached to a Vertical Frame Assembly Tube |           |           |           |           |           |           |
|---------------|-----------|------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|               |           | Window Width                                                                 |           |           |           |           |           |           |
|               |           | under 23"                                                                    | 25-15/16" | 27-3/4"   | 30"       | 33-1/2"   | 35"       | 37"       |
| Window Height | under 23" | +70/-90                                                                      | +70/-90   | +70/-90   | +70/-88.8 | +70/-83.4 | +70/-81.6 | +70/-79.5 |
|               | 25-15/16" | +70/-90                                                                      | +70/-90   | +70/-90   | +70/-85.5 | +70/-79.3 | +70/-77.2 | +70/-74.8 |
|               | 38-3/8"   | +70/-78.2                                                                    | +70/-73.4 | +70/-71.1 | +/-68.9   | +/-66.7   | +/-66.2   | +/-65.7   |
|               | 48"       | +70/-72                                                                      | +/-66.5   | +/-63.9   | +/-61.1   | +/-57.8   | +/-56.6   | +/-55.4   |
|               | 50-5/8"   | +70/-70.9                                                                    | +/-65.3   | +/-62.5   | +/-59.7   | +/-56.2   | +/-55     | +/-53.7   |
|               | 60"       | +/-67.8                                                                      | +/-62     | +/-59.1   | +/-56     | +/-52.2   | +/-50.8   | +/-49.2   |
|               | 63"       | +/-67                                                                        | +/-61.2   | +/-58.2   | +/-55.1   | +/-51.2   | +/-49.8   | +/-48.2   |
|               | 72"       | +/-65.2                                                                      | +/-57.7   | +/-51.9   | +/-48.3   | +/-48.3   | +/-47.5   | +/-45.8   |
|               | 76"       | +/-64.6                                                                      | +/-55.4   | +/-49.3   | +/-45.4   | +/-44.5   | +/-44.9   | +/-45     |
|               | 84"       | +/-63.5                                                                      | +/-52.7   | +/-45.8   | +/-40.8   | +/-37.8   |           |           |



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. NO ADDITIONAL ANCHORS REQUIRED WITH INTEGRAL FIN FRAME.

- NOTES:  
1) SEE SHEET 5 FOR ADDITIONAL SAMPLE CONFIGURATIONS.  
2) SEE SHEET 5 FOR SNUBBER REQUIREMENTS.  
3) TIP-TO-TIP DIMENSIONS SHOWN. FOR NAIL FIN WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

|                                                                                                     |  |                                                                                           |  |                       |  |                                       |  |               |  |
|-----------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------|--|-----------------------|--|---------------------------------------|--|---------------|--|
| 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<br>FOR PERMITTING. |  | 09/09/26<br>Date      |  | JENS ROSOWSKI<br>By                   |  | CA640-NI-HVHZ |  |
| PGT <sup>®</sup> WINDOWS and DOORS<br>3400 PRECISION DRIVE<br>N. VENICE, FL 34275<br>(941) 480-1600 |  | REGISTRATION #29296                                                                       |  | ALUM. CASEMENT WINDOW |  | DESIGN PRESSURES PER<br>GLAZING TYPES |  | 11 OF 15      |  |
|                                                                                                     |  |                                                                                           |  |                       |  |                                       |  | CA640         |  |

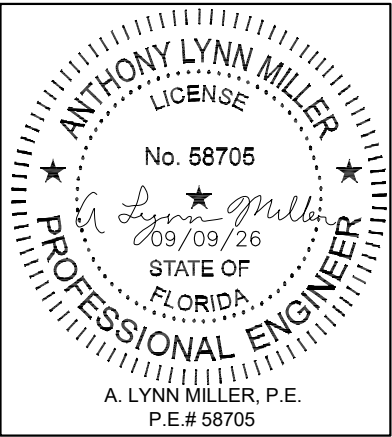
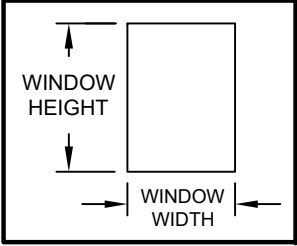


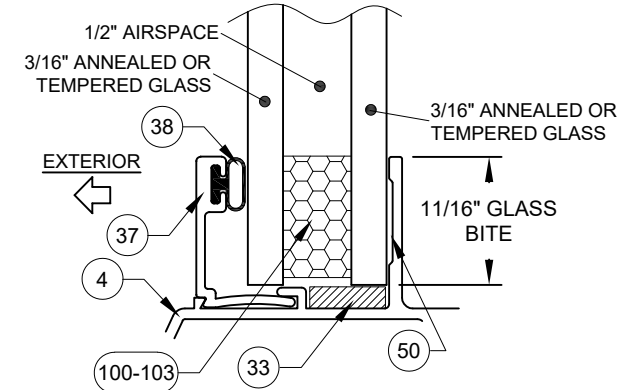
TABLE 23:

|               |           | Design Pressure (psf) for Single Windows, All Anchor Groups |            |            |            |            |            |            |
|---------------|-----------|-------------------------------------------------------------|------------|------------|------------|------------|------------|------------|
|               |           | Window Width                                                |            |            |            |            |            |            |
|               |           | under 23"                                                   | 25-15/16"  | 27-3/4"    | 30"        | 33-1/2"    | 35"        | 37"        |
| Window Height | under 23" | +90/-150                                                    | +90/-150   | +90/-145.5 | +90/-138.2 | +90/-129.8 | +90/-126.9 | +90/-123.6 |
|               | 25-15/16" | +90/-150                                                    | +90/-150   | +90/-141.8 | +90/-133.1 | +90/-123.3 | +90/-120   | +90/-116.3 |
|               | 38-3/8"   | +90/-121.7                                                  | +90/-114.1 | +90/-110.6 | +90/-107.2 | +90/-103.8 | +90/-102.9 | +90/-102.3 |
|               | 48"       | +90/-112.1                                                  | +90/-103.5 | +90/-99.3  | +90/-95    | +/- 89.9   | +/- 88.1   | +/- 86.2   |
|               | 50-5/8"   | +90/-110.3                                                  | +90/-101.6 | +90/-97.3  | +90/-92.8  | +/- 87.4   | +/- 85.6   | +/- 83.5   |
|               | 60"       | +90/-105.4                                                  | +90/-96.4  | +90/-91.9  | +/- 87.1   | +/- 81.2   | +/- 79     | +/- 76.6   |
|               | 63"       | +90/-104.3                                                  | +90/-95.1  | +90/-90.6  | +/- 85.7   | +/- 79.7   | +/- 77.5   | +/- 75     |
|               | 72"       | +90/-101.4                                                  | +90/-92.1  | +/- 87.5   | +/- 82.5   | +/- 76.3   | +/- 74     | +/- 71.3   |
|               | 76"       | +90/-100.4                                                  | +90/-91.1  | +/- 86.4   | +/- 81.4   | +/- 75.1   | +/- 72.7   | +/- 70     |
|               | 84"       | +90/-98.7                                                   | +/- 89.3   | +/- 84.6   | +/- 79.5   | +/- 72.2   |            |            |



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

| FOR GLASS TYPES:                                                                          |
|-------------------------------------------------------------------------------------------|
| 9) 7/8" IG: (3/16" A - 1/2" AIR - 3/16" A)<br>10) 7/8" IG: (3/16" T - 1/2" AIR - 3/16" T) |
| FOR FRAME TYPES:                                                                          |
| FLANGE ONLY                                                                               |



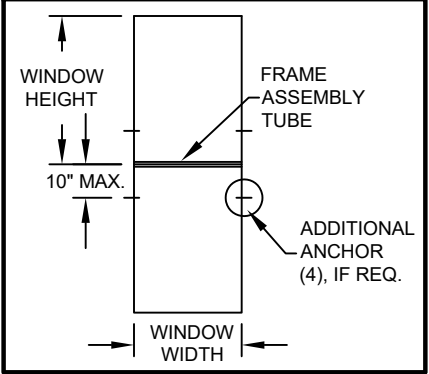
GLASS TYPES 9 & 10  
7/8" NOM. GLASS STACK

TABLE 24:

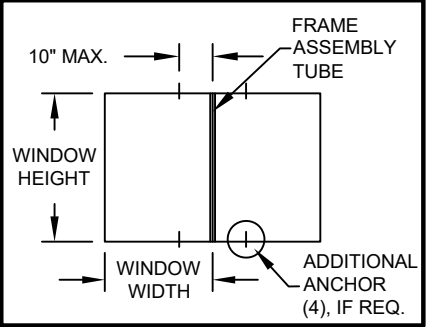
|               |           | Design Pressure (psf) for Windows Attached to a <u>Vertical</u> Frame Assembly Tube |           |           |           |              |           |         |              |           |         |              |           |           |           |              |           |           |           |              |           |           |              |           |           |
|---------------|-----------|-------------------------------------------------------------------------------------|-----------|-----------|-----------|--------------|-----------|---------|--------------|-----------|---------|--------------|-----------|-----------|-----------|--------------|-----------|-----------|-----------|--------------|-----------|-----------|--------------|-----------|-----------|
|               |           | Window Width                                                                        |           |           |           |              |           |         |              |           |         |              |           |           |           |              |           |           |           |              |           |           |              |           |           |
|               |           | under 23"                                                                           |           |           |           | 25-15/16"    |           |         | 27-3/4"      |           |         | 30"          |           |           |           | 33-1/2"      |           |           |           | 35"          |           |           | 37"          |           |           |
|               |           | Anchor Group                                                                        |           |           |           | Anchor Group |           |         | Anchor Group |           |         | Anchor Group |           |           |           | Anchor Group |           |           |           | Anchor Group |           |           | Anchor Group |           |           |
|               |           | A                                                                                   | B         | C         | D         | A            | B         | C & D   | A            | B         | C & D   | A            | B         | C         | D         | A            | B         | C         | D         | A            | B         | C & D     | A            | B         | C & D     |
| Window Height | under 23" | +70/-90                                                                             | +70/-90   | +70/-90   | +70/-90   | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90   | +70/-90   | +70/-90      | +70/-90   | +70/-90   | +70/-90   | +70/-90      | +70/-90   | +70/-90   | +70/-90      | +70/-90   | +70/-90   |
|               | 25-15/16" | +70/-90                                                                             | +70/-90   | +70/-90   | +70/-90   | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90   | +70/-90   | +70/-90      | +70/-90   | +70/-90   | +70/-90   | +70/-90      | +70/-90   | +70/-90   | +70/-90      | +70/-90   | +70/-90   |
|               | 38-3/8"   | +70/-90                                                                             | +70/-76.4 | +70/-90   | +70/-90   | +70/-84.5    | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90 | +70/-90      | +70/-90   | +70/-90   | +70/-90   | +70/-81.8    | +70/-90   | +70/-90   | +70/-90   | +70/-90      | +70/-78.3 | +70/-90   | +70/-90      | +70/-88.8 | +70/-90   |
|               | 48"       | +70/-76.2                                                                           | +/-61.1   | +70/-73.1 | +70/-90   | +/-67.5      | +70/-90   | +70/-90 | +/-63.1      | +70/-90   | +70/-90 | +70/-73      | +70/-90   | +70/-90   | +70/-90   | +/-65.4      | +70/-83.9 | +70/-89.9 | +70/-89.9 | +/-62.6      | +70/-88.1 | +70/-88.1 | +/-59.2      | +70/-86.2 | +70/-86.2 |
|               | 50-5/8"   | +70/-72.3                                                                           | +/-57.9   | +/-69.3   | +70/-90   | +/-64        | +70/-90   | +70/-90 | +/-59.9      | +70/-90   | +70/-90 | +/-55.4      | +70/-88.7 | +70/-90   | +70/-90   | +/-62        | +70/-79.5 | +70/-87.4 | +70/-87.4 | +/-59.3      | +70/-85.6 | +70/-85.6 | +/-56.1      | +70/-83.5 | +70/-83.5 |
|               | 60"       | +/-61                                                                               | +/-48.9   | +/-58.5   | +70/-90   | +/-54        | +70/-86.6 | +70/-90 | +/-50.5      | +70/-81   | +70/-90 | +/-46.7      | +70/-74.9 | +70/-87.1 | +70/-87.1 | +/-52.3      | +/-67.1   | +70/-80.3 | +70/-81.2 | +/-50.1      | +70/-79   | +70/-79   | +/-47.4      | +70/-75.9 | +70/-76.6 |
|               | 63"       | +/-58.1                                                                             | +/-46.5   | +/-55.7   | +70/-88.7 | +/-51.5      | +70/-82.5 | +70/-90 | +/-48.1      | +70/-77.1 | +70/-90 | +/-44.5      | +70/-71.3 | +70/-85.3 | +70/-85.7 | +/-49.8      | +/-63.9   | +70/-76.5 | +70/-79.7 | +/-47.7      | +70/-76.4 | +70/-77.5 | +/-45.1      | +70/-72.3 | +70/-75   |

TABLE 25:

|               |           | Design Pressure (psf) for Windows Attached to a <u>Horizontal</u> Frame Assembly Tube |              |              |              |              |           |           |              |           |           |              |           |           |
|---------------|-----------|---------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|-----------|-----------|--------------|-----------|-----------|--------------|-----------|-----------|
|               |           | Window Width                                                                          |              |              |              |              |           |           |              |           |           |              |           |           |
|               |           | under 23"                                                                             | 25-15/16"    | 27-3/4"      | 30"          | 33-1/2"      |           |           | 35"          |           |           | 37"          |           |           |
|               |           | Anchor Group                                                                          | Anchor Group | Anchor Group | Anchor Group | Anchor Group |           |           | Anchor Group |           |           | Anchor Group |           |           |
|               |           | All                                                                                   | All          | All          | All          | A            | B         | C & D     | A            | B         | C & D     | A            | B         | C & D     |
| Window Height | under 23" | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-87.6 | +70/-90   | +70/-90      | +70/-83.8 | +70/-90   | +70/-90      | +70/-79.2 | +70/-90   |
|               | 25-15/16" | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90   | +70/-90      | +70/-90   | +70/-90   | +70/-87.6    | +70/-90   | +70/-90   |
|               | 38-3/8"   | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-90      | +70/-90   | +70/-90   | +70/-90      | +70/-90   | +70/-90   | +70/-88.8    | +70/-90   | +70/-90   |
|               | 48"       | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-89.9    | +70/-89.9 | +70/-89.9 | +70/-88.1    | +70/-88.1 | +70/-88.1 | +70/-86.2    | +70/-86.2 | +70/-86.2 |
|               | 50-5/8"   | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-90      | +70/-87.4    | +70/-87.4 | +70/-87.4 | +70/-85.6    | +70/-85.6 | +70/-85.6 | +70/-83.5    | +70/-83.5 | +70/-83.5 |
|               | 60"       | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-87.1    | +70/-81.2    | +70/-81.2 | +70/-81.2 | +70/-79      | +70/-79   | +70/-79   | +70/-75.8    | +70/-76.6 | +70/-76.6 |
|               | 63"       | +70/-90                                                                               | +70/-90      | +70/-90      | +70/-85.7    | +70/-79.7    | +70/-79.7 | +70/-79.7 | +70/-76.3    | +70/-77.5 | +70/-77.5 | +70/-72.2    | +70/-75   | +70/-75   |
|               | 72"       | +70/-90                                                                               | +70/-90      | +70/-87.5    | +70/-82.5    | +70/-76.3    | +70/-76.3 | +70/-76.3 | +70/-74      | +70/-74   | +70/-74   | +70/-71.3    | +70/-71.3 | +70/-71.3 |
|               | 76"       | +70/-90                                                                               | +70/-90      | +70/-86.4    | +70/-81.4    | +70/-75.1    | +70/-75.1 | +70/-75.1 | +70/-72.7    | +70/-72.7 | +70/-72.7 | +/-70        | +/-70     | +/-70     |
|               | 84"       | +70/-90                                                                               | +70/-89.3    | +70/-84.6    | +70/-79.5    | +70/-72.2    | +70/-72.2 | +70/-72.2 |              |           |           |              |           |           |



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. SEE SHEET 4 FOR ANY ADDITIONAL ANCHORS REQUIRED FOR THE FRAME ASSEMBLY TUBE WHEN USING FLANGE FRAMES.

NOTES:  
1) SEE SHEET 5 FOR ADDITIONAL SAMPLE CONFIGURATIONS.  
2) SEE SHEET 5 FOR SNUBBER REQUIREMENTS.

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

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REGISTRATION #29296

ALUM. CASEMENT WINDOW

DESIGN PRESSURES PER  
GLAZING TYPES

CA640

09/09/26

By JENS ROSOWSKI

No. 12 OF 15

DWG

CA640-NI-HVHZ

Sheet

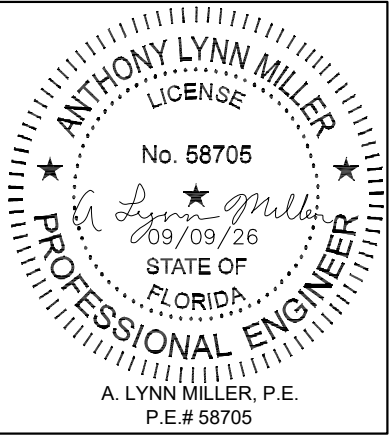
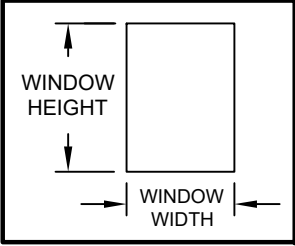


TABLE 26:

|               |           | Design Pressure (psf) for Single Windows, All Anchor Groups |            |            |             |             |             |             |
|---------------|-----------|-------------------------------------------------------------|------------|------------|-------------|-------------|-------------|-------------|
|               |           | Window Width                                                |            |            |             |             |             |             |
|               |           | under 23"                                                   | 25-15/16"  | 27-3/4"    | 30"         | 33-1/2"     | 35"         | 37"         |
| Window Height | under 23" | +70/-150                                                    | +70/-150   | +70/-145.5 | +70/-138.2  | +70/-129.8  | +70/-126.9  | +70/-123.6  |
|               | 25-15/16" | +70/-150                                                    | +70/-150   | +70/-141.8 | +70/-133.1  | +70/-123.3  | +70/-120    | +70/-116.3  |
|               | 38-3/8"   | +70/-121.7                                                  | +70/-114.1 | +70/-110.6 | +70/-107.2  | +70/-103.8  | +70/-102.9  | +70/-102.3  |
|               | 48"       | +70/-112.1                                                  | +70/-103.5 | +70/-99.3  | +70/-95     | +70/-89.9   | +70/-88.1   | +70/-86.2   |
|               | 50-5/8"   | +70/-110.3                                                  | +70/-101.6 | +70/-97.3  | +70/-92.8   | +70/-87.4   | +70/-85.6   | +70/-83.5   |
|               | 60"       | +70/-105.4                                                  | +70/-96.4  | +70/-91.9  | +70/-87.1   | +69.6/-81.2 | +67.7/-79   | +65.6/-76.6 |
|               | 63"       | +70/-104.3                                                  | +70/-95.1  | +70/-90.6  | +70/-85.7   | +68.3/-79.7 | +66.4/-77.5 | +64.3/-75   |
|               | 72"       | +70/-101.4                                                  | +70/-92.1  | +70/-87.5  | +70/-82.5   | +60/-76.3   | +60/-74     | +60/-71.3   |
|               | 76"       | +70/-100.4                                                  | +70/-91.1  | +70/-86.4  | +69.8/-81.4 | +60/-75.1   | +60/-72.7   | +60/-70     |
|               | 84"       | +70/-98.7                                                   | +70/-89.3  | +70/-84.6  | +60/-79.5   | +60/-72.2   |             |             |



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES.

FOR GLASS TYPES:

- 4) 3/16" TEMPERED  
6) 1/4" TEMPERED  
9) 7/8" IG: (3/16" A - 1/2" AIR - 3/16" A)  
10) 7/8" IG: (3/16" T - 1/2" AIR - 3/16" T)

FOR FRAME TYPES:

INTEGRAL FIN ONLY



POSITIVE PRESSURE LIMITED TO +70 PSF FOR INTEGRAL FIN FRAMES ONLY

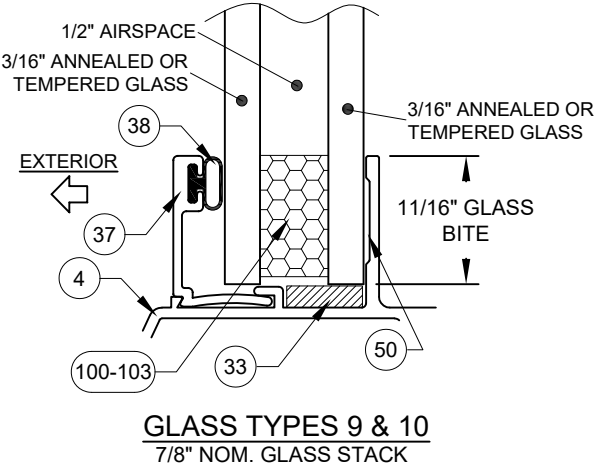
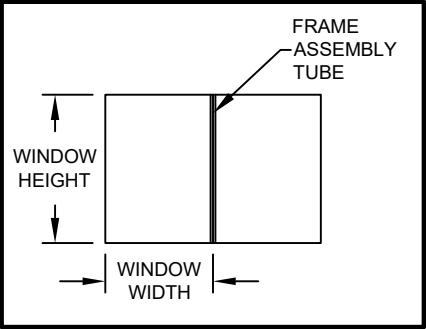


TABLE 27:

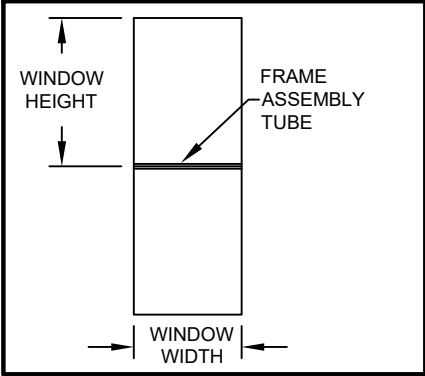
|               |           | Design Pressure (psf) for Windows Attached to a <u>Vertical</u> Frame Assembly Tube |           |         |           |             |             |             |
|---------------|-----------|-------------------------------------------------------------------------------------|-----------|---------|-----------|-------------|-------------|-------------|
|               |           | Window Width                                                                        |           |         |           |             |             |             |
|               |           | under 23"                                                                           | 25-15/16" | 27-3/4" | 30"       | 33-1/2"     | 35"         | 37"         |
| Window Height | under 23" | +70/-90                                                                             | +70/-90   | +70/-90 | +70/-90   | +70/-90     | +70/-90     | +70/-90     |
|               | 25-15/16" | +70/-90                                                                             | +70/-90   | +70/-90 | +70/-90   | +70/-90     | +70/-90     | +70/-90     |
|               | 38-3/8"   | +70/-90                                                                             | +70/-90   | +70/-90 | +70/-90   | +70/-90     | +70/-90     | +70/-90     |
|               | 48"       | +70/-84.1                                                                           | +70/-90   | +70/-90 | +70/-90   | +70/-89.9   | +70/-88.1   | +70/-86.2   |
|               | 50-5/8"   | +70/-79.7                                                                           | +70/-90   | +70/-90 | +70/-90   | +70/-87.4   | +70/-85.6   | +70/-83.5   |
|               | 60"       | +/-67.2                                                                             | +70/-90   | +70/-90 | +70/-87.1 | +69.6/-81.2 | +67.7/-79   | +65.6/-76.6 |
|               | 63"       | +/-64                                                                               | +70/-90   | +70/-90 | +70/-85.7 | +68.3/-79.7 | +66.4/-77.5 | +64.3/-75   |
|               | 72"       |                                                                                     |           |         |           |             |             |             |
|               | 76"       |                                                                                     |           |         |           |             |             |             |
|               | 84"       |                                                                                     |           |         |           |             |             |             |



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. NO ADDITIONAL ANCHORS REQUIRED WITH INTEGRAL FIN FRAME.

TABLE 28:

|               |           | Design Pressure (psf) for Windows Attached to a <u>Vertical</u> Frame Assembly Tube |           |           |             |             |             |             |
|---------------|-----------|-------------------------------------------------------------------------------------|-----------|-----------|-------------|-------------|-------------|-------------|
|               |           | Window Width                                                                        |           |           |             |             |             |             |
|               |           | under 23"                                                                           | 25-15/16" | 27-3/4"   | 30"         | 33-1/2"     | 35"         | 37"         |
| Window Height | under 23" | +70/-90                                                                             | +70/-90   | +70/-90   | +70/-90     | +70/-90     | +70/-90     | +70/-90     |
|               | 25-15/16" | +70/-90                                                                             | +70/-90   | +70/-90   | +70/-90     | +70/-90     | +70/-90     | +70/-90     |
|               | 38-3/8"   | +70/-90                                                                             | +70/-90   | +70/-90   | +70/-90     | +70/-90     | +70/-90     | +70/-90     |
|               | 48"       | +70/-90                                                                             | +70/-90   | +70/-90   | +70/-90     | +70/-89.9   | +70/-88.1   | +70/-86.2   |
|               | 50-5/8"   | +70/-90                                                                             | +70/-90   | +70/-90   | +70/-90     | +70/-87.4   | +70/-85.6   | +70/-83.5   |
|               | 60"       | +70/-90                                                                             | +70/-90   | +70/-90   | +70/-87.1   | +69.6/-81.2 | +67.7/-79   | +65.6/-76.6 |
|               | 63"       | +70/-90                                                                             | +70/-90   | +70/-90   | +70/-85.7   | +68.3/-79.7 | +66.4/-77.5 | +64.3/-75   |
|               | 72"       | +70/-90                                                                             | +70/-90   | +70/-87.5 | +70/-82.5   | +65.4/-76.3 | +63.4/-74   | +61.1/-71.3 |
|               | 76"       | +70/-90                                                                             | +70/-90   | +70/-86.4 | +69.8/-81.4 | +64.3/-75.1 | +62.3/-72.7 | +60/-70     |
|               | 84"       | +70/-90                                                                             | +70/-89.3 | +70/-84.6 | +68.2/-79.5 | +62.7/-72.2 |             |             |
|               | 96"       |                                                                                     |           |           |             |             |             |             |



SEE SHEETS 1 & 5 FOR WINDOW ANCHOR LOCATIONS AND QUANTITIES. NO ADDITIONAL ANCHORS REQUIRED WITH INTEGRAL FIN FRAME.

- NOTES:  
1) SEE SHEET 5 FOR ADDITIONAL SAMPLE CONFIGURATIONS.  
2) SEE SHEET 5 FOR SNUBBER REQUIREMENTS.  
3) TIP-TO-TIP DIMENSIONS SHOWN. FOR NAIL FIN WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

|                                                                                                     |  |                                                                                           |  |                       |  |                                       |  |               |  |
|-----------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------|--|-----------------------|--|---------------------------------------|--|---------------|--|
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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                                                                       |  | ALUM. CASEMENT WINDOW |  | DESIGN PRESSURES PER<br>GLAZING TYPES |  | 13 OF 15      |  |
|                                                                                                     |  |                                                                                           |  |                       |  |                                       |  | CA640         |  |

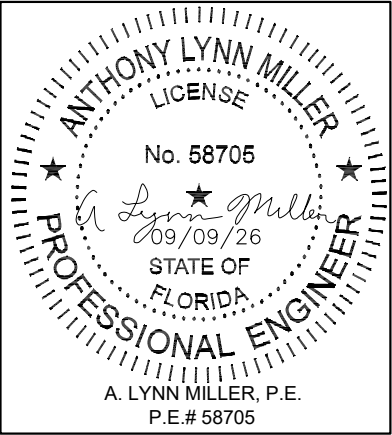
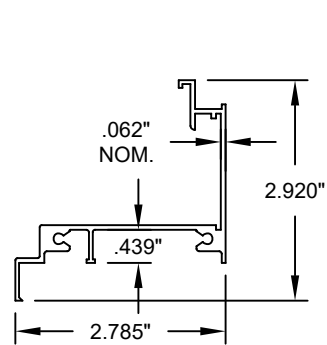
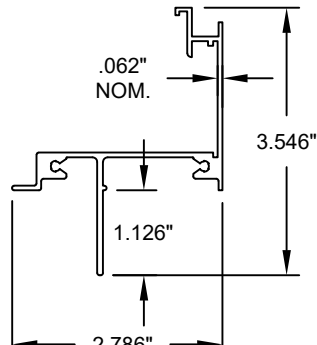


TABLE 29:

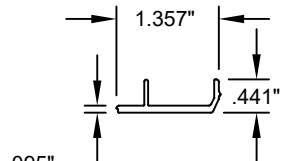
| Item | Dwg. # | Description                                 | Material        |
|------|--------|---------------------------------------------|-----------------|
| 1    | 7002   | Main Frame Head, Sill & Jamb, Flange        | 6063-T6 Alum.   |
| 2    | 7075   | Main Frame Head, Sill & Jamb, Fin           | 6063-T6 Alum.   |
| 3    | 7071   | Anchor Plate                                | 6063-T6 Alum.   |
| 4    | 7003   | Sash Top, Bottom & Side Rail                | 6063-T6 Alum.   |
| 5    | 7008   | Frame Corner Key                            | Steel           |
| 6    | 7009   | Sash Corner Key                             | Steel           |
| 7    | 7078   | Frame Gasket                                | Vinyl Foam      |
| 8    | 7072   | Sash Corner Gasket                          | Vinyl Foam      |
| 9    | 7070   | Bulb Weatherstrip .187" x .275"             | Flex PVC 70     |
| 10   | 7024   | Maxim Multi-Point Lock                      | Steel           |
| 11   | 7026   | Lock Support Plate                          | Steel           |
| 12   | 7014   | Multi-Lock Keeper                           | Steel           |
| 13   | 7013   | Tie Bar Guide                               | Nylon           |
| 14   | 7015   | Tie Bar Assembly                            | Steel or SS     |
| 15   | 7028   | Maxim Dyad Operator, WW<=24"                | Steel           |
| 16   | 7027   | Maxim Dual Arm Operator, WW>24"             | Steel           |
| 17   | 7030   | Operator Gasket                             | Vinyl Foam      |
| 18   | 7031   | Operator Backing Plate                      | Steel           |
| 19   | 7085   | Operator Spacer Block                       | Nylon           |
| 20   | 7032   | Stud Bracket                                | Steel           |
| 21   | 7033   | Operator Track & Slider (Dual Arm)          | Steel           |
| 22   | 7023   | Egress Hinge (Heavy Duty), Manuf. by Truth  | Steel           |
| 23   | 7050   | Egress Hinge/Washable (HD), Manuf. by Truth | Steel           |
| 31   |        | Dura Seal Spacer                            | Steel           |
| 32   | 1713   | Setting Block 5/32" x 3/16" x 1-1/4"        | EPDM            |
| 33   | 1714   | Setting Block 5/32" x 7/16" x 1-1/4"        | EPDM            |
| 34   | 7037   | Bead A                                      | 6063-T6 Alum.   |
| 35   | 7036   | Bead B                                      | 6063-T6 Alum.   |
| 36   | 7042   | Bead C                                      | 6063-T6 Alum.   |
| 37   | 7081   | Bead D                                      | 6063-T6 Alum.   |
| 38   | 1224   | Vinyl Bulb Wstp (Thick)                     | Flex PVC 70     |
| 39   | 1225   | Vinyl Bulb Wstp (Thin)                      | Flex PVC 70     |
| 50   |        | Dow 791, 899 or 983 Backbedding             | Silicone        |
| 60   | 7006   | Screen Frame                                | 3105-H14 Alum.  |
| 61   | 7040   | Screen Corner Key                           | Polypropolene   |
| 62   |        | Screen Cloth                                | Fiberglass      |
| 63   | 1635   | Screen Spline                               | EM. PVC         |
| 64   | 320    | Screen Spring                               | Stainless Steel |
| 71   | 7004   | Frame Assy Tube                             | 6063-T6 Alum.   |
| 80   |        | #8-32 x 1/2" Ph. Pn. Mach. Scr TYPE B       | Stainless Steel |
| 81   | 1157   | #8 x 1/2" Ph. Pn. SMS                       | Stainless Steel |
| 82   |        | #8 x 5/8" Fl. Ph. SMS                       | Stainless Steel |
| 83   |        | #8 x 7/8" Fl. Ph. SMS                       | Stainless Steel |
| 84   |        | #8 x 1" Fl. Ph. TEK                         | Stainless Steel |
| 85   |        | #8 x 1" Quad Pn SMS                         | Stainless Steel |
| 86   |        | #8 X 1-1/2" Quad Pn SMS                     | Stainless Steel |
| 87   |        | #10 x 1/2" Ph. Pn./ TEK                     | Stainless Steel |
| 89   |        | #10-24 x 9/16" Ph. Pn. TYPE F               | Stainless Steel |
| 90   |        | #12 x 1" Ph. Pn. TEK                        | Stainless Steel |
| 100  |        | IG Spacer                                   | Varies          |



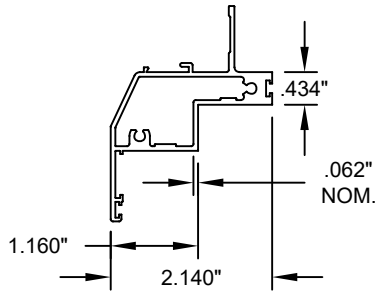
1 FRAME HEAD,  
SILL & JAMB,  
FLANGE  
#7002, 6063-T6



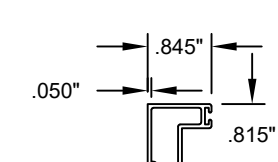
2 FRAME HEAD,  
SILL & JAMB,  
FIN  
#7075, 6063-T6



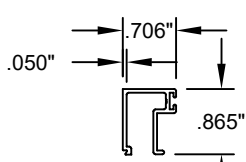
3 ANCHOR PLATE  
#7071, 6063-T6



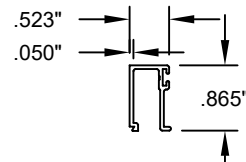
4 SASH TOP,  
BOTTOM & SIDE  
#7003, 6063-T6



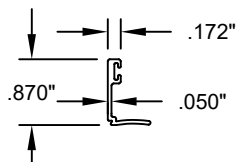
34 BEAD A  
#7037, 6063-T6



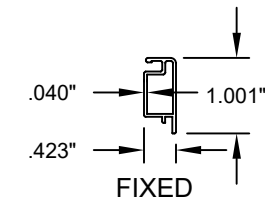
35 BEAD B  
#7036, 6063-T6



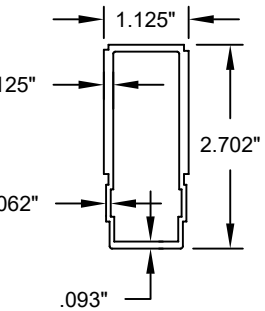
36 BEAD C  
#7042, 6063-T6



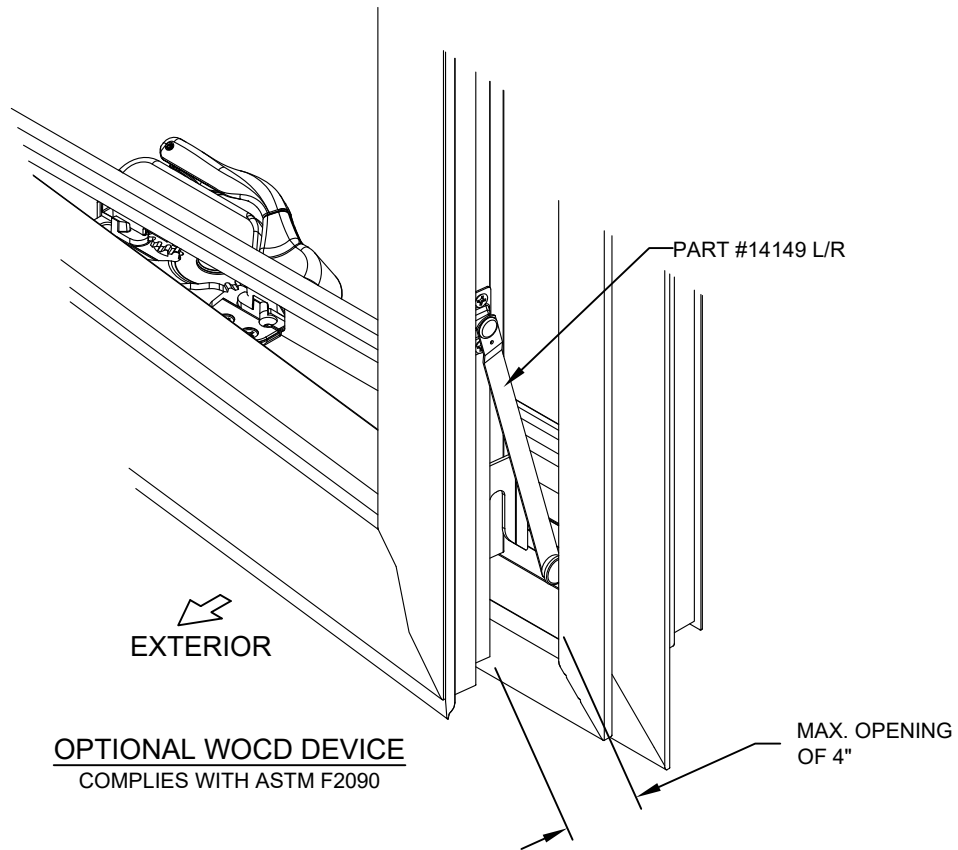
37 BEAD D  
#7081, 6063-T6



60 FIXED  
SCREEN FRAME  
#7006, 3105-H14

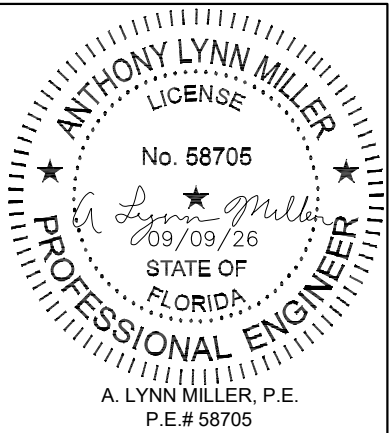


71 FRAME  
ASSEMBLY TUBE  
#7004, 6063-T6



OPTIONAL WOOD DEVICE  
COMPLIES WITH ASTM F2090

|                                                                                                     |                                                                                           |                       |          |                  |               |          |               |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------|----------|------------------|---------------|----------|---------------|
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|                                                                                                     |                                                                                           | ALUM. CASEMENT WINDOW |          | BOM & EXTRUSIONS |               | 14 OF 15 |               |
| PGT <sup>®</sup> WINDOWS and DOORS<br>3400 PRECISION DRIVE<br>N. VENICE, FL 34275<br>(941) 480-1600 | REGISTRATION #29296                                                                       | Sheet                 | CA640    | Series           | Desc.         | Title    |               |



EXAMPLE 1: FOR WINDOW COMBINATION SHOWN BELOW; FLANGE FRAME, 3/16" TEMPERED GLASS, 1/4" MASONRY ANCHORS INTO CONCRETE, +/- 65 PSF DP REQUIRED

CASEMENT ANCHORS:

A) FROM TABLE 12, ANCHORS C & D ALLOW A DP OF +70/-90.

B) FOR THE JAMB, FROM TABLE 3A, ANCHOR TYPE C HAS THE ANCHOR AND SUBSTRATE DESIRED AND DOES NOT REQUIRE THE ANCHOR PLATE IF USING THE CRETEFLEX ANCHOR.

C) FROM TABLE 2, 6 ANCHORS ARE REQUIRED IN EACH JAMB.

C) SIMILARLY, 2 ANCHORS ARE REQUIRED IN THE HEAD & SILL.

D) DISTRIBUTE ANCHORS FOLLOWING GUIDELINES FROM ELEVATION ON SHEET 1.

E) PER RULES ON SHEETS 2 & 4, INSTALL 1 ADDITIONAL ANCHOR ON THE FRAME ASSEMBLY TUBE SIDE OF THE CASEMENT (HEAD & SILL).

FIXED CASEMENT ANCHORS:

A) FROM TABLE 12, A 34" X 61" FIXED CASEMENT WINDOW HAS A DESIGN PRESSURE OF +70/-90 USING ANY ANCHOR FROM GROUPS A, B, C OR D.

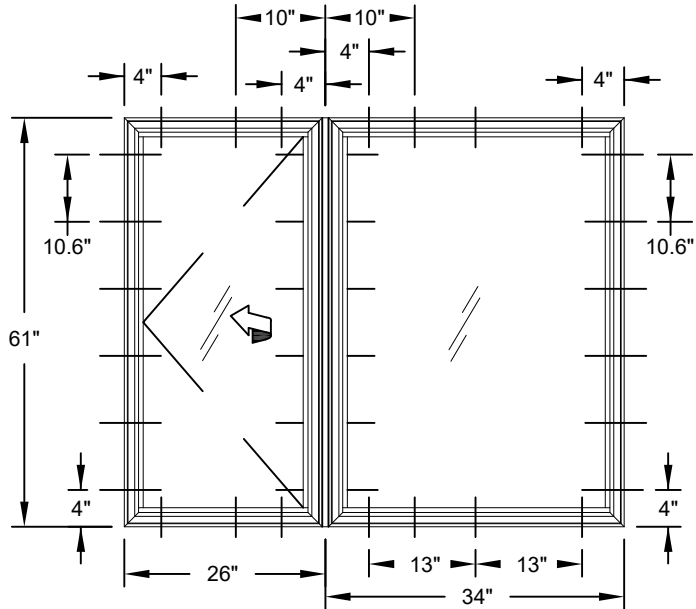
B) FOR THE JAMB, FROM TABLE 3, ANCHOR TYPE C HAS THE ANCHOR AND SUBSTRATE DESIRED AND DOES NOT REQUIRE THE ANCHOR PLATE IF USING THE CRETEFLEX ANCHOR.

C) FROM TABLE 2A, 6 ANCHORS ARE REQUIRED IN EACH JAMB.

D) SIMILARLY, 3 ANCHORS ARE REQUIRED IN THE HEAD & SILL.

E) DISTRIBUTE ANCHORS FOLLOWING GUIDELINES FROM ELEVATION ON SHEET 1.

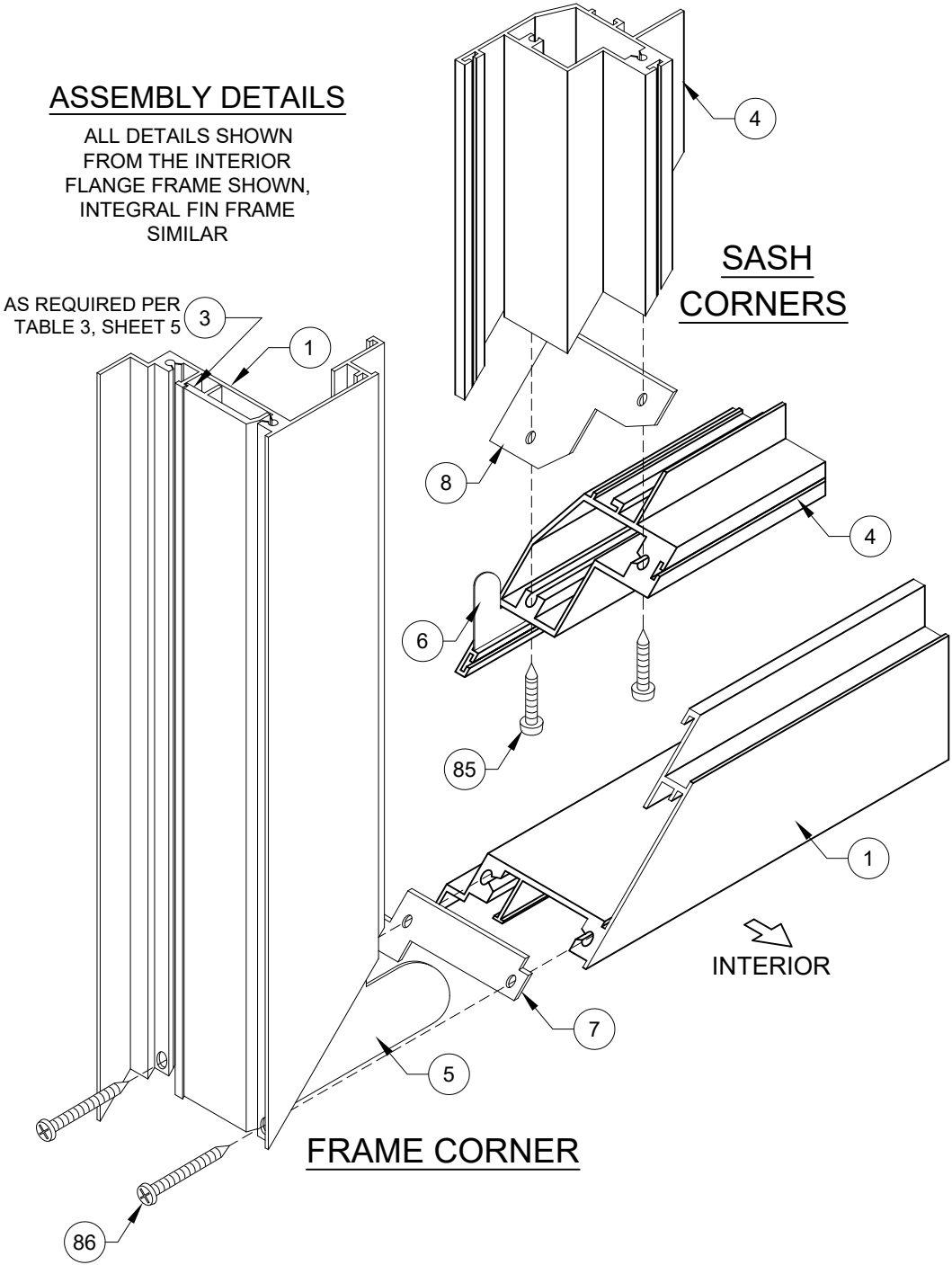
F) PER RULES ON SHEETS 2 & 4, INSTALL 1 ADDITIONAL ANCHOR ON THE FRAME ASSEMBLY TUBE SIDE OF THE FIXED CASEMENT (HEAD & SILL).



ASSEMBLY DETAILS

ALL DETAILS SHOWN FROM THE INTERIOR  
FLANGE FRAME SHOWN,  
INTEGRAL FIN FRAME  
SIMILAR

AS REQUIRED PER  
TABLE 3, SHEET 5



|                                                                                                     |  |                                                                                           |  |                       |  |                       |  |               |  |
|-----------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------|--|-----------------------|--|-----------------------|--|---------------|--|
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| DWG No.                                                                                             |  | Sheet                                                                                     |  | Title                 |  | Desc.                 |  | Series        |  |
| CA640                                                                                               |  | CA640                                                                                     |  | CA640                 |  | CA640                 |  | CA640         |  |

