



# Window/Door Replacement - Residential Permit Guidelines

(size for size)

**CGC, CBC, CRC, Specialty aluminum Structural, Specialty Carpentry, Specialty Finish Carpentry or Owner/Builder may apply for permit**

- Miscellaneous application.
- Two (2) copies of floor plan/site or elevation plan labeling egress and showing location of windows (locate windows by number) – See sample below.
- Two (2) copies of window/door specifications and current code Florida Product Approval for your specific installation (make, model and series; installation instructions – latest edition; description of proposed impact protection e.g. shutters; supplier's quote sheet/NFRC report showing energy performance and tested design pressures)
- If the value of the materials & labor for the replacement fenestrations exceeds 30% of the assessed value of the structure, the U-factor and Solar Heat Gain Co-efficient information must be included and must meet code minimums. If the project cost does not exceed 30% of the assessed value of the structure, the U-factor Heat Gain Co-efficient information is not required. This will be determined during the review process, not at the permitting counter.
- Two (2) copies of Window/Door/Shutter worksheet. See instructions accompanying Worksheet file for information regarding meeting minimum design pressures.
- Owner/Builder Affidavit (if homeowner).
- NOC if value is greater than \$2500.

### **Description:**

- Number of windows/doors being replaced

### **Route to: OFFICE USE ONLY**

Building (POD)

### **Processing: OFFICE USE ONLY**

- Type: Window/Door Replace
- Subtype: Residential

### **Inspections:**

- Notice of Commencement (NOC) 10
- Miscellaneous Final (070) 20

### **Fees:**

- Window/Door Replacement \$84.75
- Surcharge YES

### **Expiration:**

- Six (6) months

**NOTE: Replacement windows and new windows installed in sleeping rooms are required to comply with the Florida Building Code for Emergency Escape and Rescue Openings for size; minimum clear height, minimum clear width and minimum opening area. For replacement windows the Florida Building Code Existing allows a maximum of 5% reduction in the clear opening dimensions of replacement doors and windows.**

## **IMPACT-RESISTANT GLAZING OR OPENING PROTECTION REQUIREMENT**

All windows or doors replaced in Cape Coral require either impact-resistant glazing (glass) or opening protection as follows:

- 1) Impact-resistant glazing (glass) meeting the requirements of ANSI/DASMA 115 (for garage doors and rolling doors) or TAS 201, 202 and 203, AAMA 506, ASTM E1996 and ASTM E1886 referenced herein, or an approved impact-resistant standard as follows:
  - a) Glazed openings located within 30 feet (9144 mm) of grade shall meet the requirements of the large missile test of ASTM E1996.
  - b) Glazed openings located more than 30 feet (9144 mm) above grade shall meet the provisions of the small missile test of ASTM E1996.
  - c) Storage sheds that are not designed for human habitation and that have a floor area of 720 square feet (67 m<sup>2</sup>) or less are not required to comply with the mandatory wind-borne debris impact standards of this code.
  
- 2) Opening protection (such as shutters), meeting the requirements of FBC-Building 1609 Wind Loads; unless there is less than 25% of the glass area of a home being replaced within 12 months on a one or two-family home for which the home building permit was applied for before 3/1/2002.

Per Florida Building Code (FBC)-Existing Building 707.4:

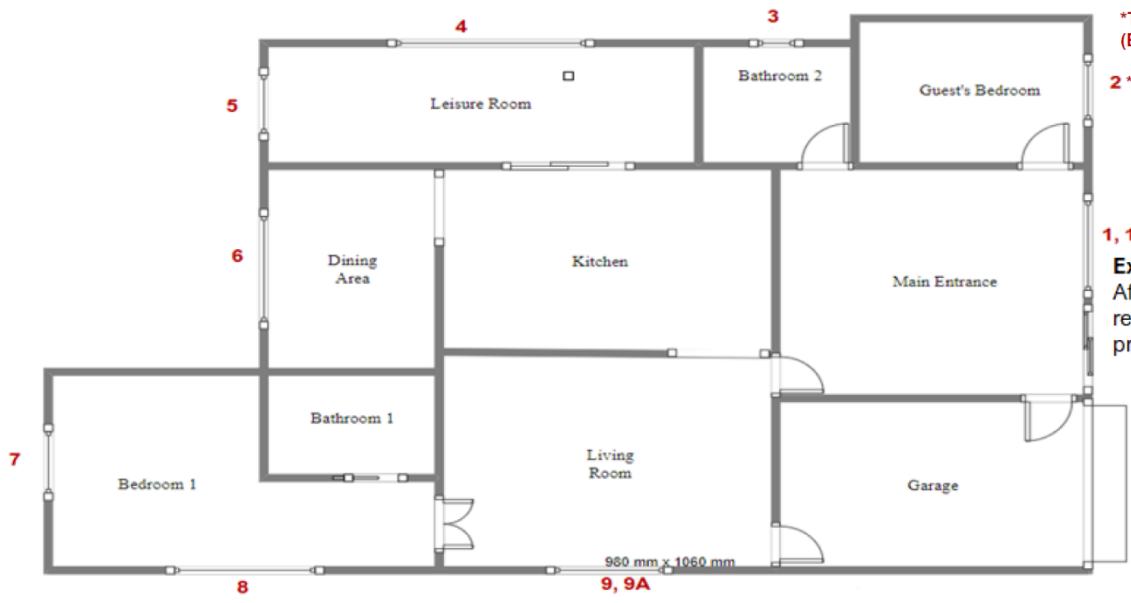
Opening protection exception: For one- and two family dwellings constructed under codes other than the Florida Building Code (where the original home building permit was applied for before March 1, 2002) and located in wind borne debris regions (such as Cape Coral), the replacement of garage doors and exterior doors with glazing, sliding glass doors, glass patio doors, skylights, and operable and inoperable windows within any 12-month period shall not be required to have opening protection but shall be designed for wind pressures for enclosed buildings, provided the aggregate area of the glazing in the replaced components does not exceed 25 percent of the aggregate area of the glazed openings in the dwelling or dwelling unit.

If more than 25% of the windows and/or doors in a pre-Florida Building Code home are being replaced and the windows/doors are NOT impact glass, the windows/doors are required to have opening protection (such as shutters).

To print out the product approvals for your windows and doors, visit the following website:

<http://www.floridabuilding.org>  
and click on "Product Approval."

### Floor Plan Layout Example- Windows/Shutters/Doors



\*The expected means of escape (Egress) must be indicated.

2 \*Egress

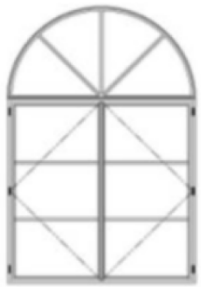
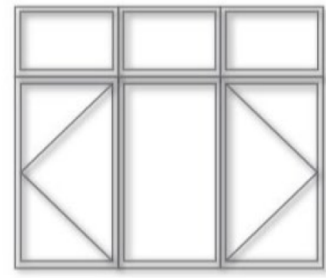
1, 1A, 1B

**Example of Floor Plan Labeling:**  
Affected Opening numbering, if replacing multiple different products on one opening.

**Example of Floor Plan Labeling:**  
Affected Opening numbering, if replacing multiple different products on one opening.

**Examples of windows that may utilize multiple different window product numbers (FL# or NOA#).**

*Please refer to the labeling/numbering example above to ensure proper numbering of all Affected Openings.*



# Window/Door Replacement - Residential Permit Guidelines

## (window to door / door to window)

### CGC, CBC, CRC or Owner/Builder may apply for permit

- Miscellaneous application.
- Two (2) copies of floor plan/site or elevation plan labeling egress and showing location of windows (locate windows by number) – See attached below
- Two (2) copies of window/door specifications and current code Florida Product Approval for your specific installation (make, model and series; installation instructions – latest edition; description of proposed impact protection e.g. shutters; supplier's quote sheet/ NFRC report showing energy performance and tested design pressures)
- If the value of the materials & labor for the replacement fenestrations exceeds 30% of the assessed value of the structure, the U-factor and Solar Heat Gain Co-efficient information must be included and must meet code minimums. If the project cost does not exceed 30% the assessed value of the structure, the U-factor/Solar Heat Gain Co-efficient is not required. This will be determined during the review process not at the permitting counter.
- Two (2) copies of Window/Door/Shutter worksheet. See instructions accompanying Worksheet file for information regarding meeting minimum design pressures.
- Engineering ONLY IF the opening for the door is LARGER(wider) than the existing window size. NO Engineering is required if the door is the same size (in width) as the existing window being replaced and if all they are doing is opening the wall right underneath the existing window.
- Owner/Builder Affidavit (if homeowner).
- NOC if value is greater than \$2500.

### Description:

- Changing from window/door to door/window

### Route to: OFFICE USE ONLY

Building (POD)

### Processing: OFFICE USE ONLY

- Type: Window/Door Replace
- Subtype: Residential

### Inspections:

- |                                |    |
|--------------------------------|----|
| • Notice of Commencement (NOC) | 10 |
| • Frame Rough (007)            | 20 |
| • Miscellaneous Final (070)    | 30 |

### Fees:

- |                            |         |
|----------------------------|---------|
| • Window/Door Replacement  | \$84.75 |
| • Surcharge                | YES     |
| • Structural Miscellaneous | \$75.00 |

### Expiration:

- Six (6) months



## IMPACT-RESISTANT GLAZING OR OPENING PROTECTION REQUIREMENT

All windows or doors replaced in Cape Coral require either impact-resistant glazing (glass) or opening protection as follows:

- 1) Impact-resistant glazing (glass) meeting the requirements of ANSI/DASMA 115 (for garage doors and rolling doors) or TAS 201, 202, AAMA 506, ASTM E1996 and ASTM E1886 referenced herein, or an approved impact-resistant standard as follows:
  - 1) Glazed openings located within 30 feet (9144 mm) of grade shall meet the requirements of the large missile test of ASTM E1996.
  - 2) Glazed openings located more than 30 feet (9144 mm) above grade shall meet the provisions of the small missile test of ASTM E1996.
  - 3) Storage sheds that are not designed for human habitation and that have a floor area of 720 square feet (67m<sup>2</sup>) or less are not required to comply with the mandatory wind-borne debris impact standards of this code
- 2) Opening protection (such as shutters), meeting the requirements of FBC-Building 1609 Wind Loads; unless there is less than 25% of the glass area of a home being replaced within 12 months on a one or two-family home for which the home building permit was applied for before 3/1/2002

Per Florida Building Code (FBC)-Existing Building 707.4:

Opening protection exception: For one- and two family dwellings constructed under codes other than the Florida Building Code (where the original home building permit was applied for before March 1, 2002) and located in wind-borne debris regions (such as Cape Coral), the replacement of garage doors and exterior doors with glazing, sliding glass doors, glass patio doors, skylights, and operable and inoperable windows within any 12-month period shall not be required to have opening protection but shall be designed for wind pressures for enclosed buildings, provided the aggregate area of the glazing in the replaced components does not exceed 25 percent of the aggregate area of the glazed openings in the dwelling or dwelling unit.

If more than 25% of the windows and/or doors in a pre-Florida Building Code home are being replaced and the windows/doors are NOT impact glass, the windows/doors are required to have opening protection (such as shutters).

To print out the product approvals for your windows and doors, visit the following website: <http://www.floridabuilding.org> and click on "Product Approval."

### Floor Plan Layout Example- Windows/Shutters/Doors



\*The expected means of escape (Egress) must be indicated.

2 \*Egress

1, 1A, 1B

**Example of Floor Plan Labeling:**  
Affected Opening numbering, if replacing multiple different products on one opening.

**Example of Floor Plan Labeling:**  
Affected Opening numbering, if replacing multiple different products on one opening.

**Examples of windows that may utilize multiple different window product numbers (FL# or NOA#).**

*Please refer to the labeling/numbering example above to ensure proper numbering of all Affected Openings.*

The diagram shows two window styles. The first is a window with an arched top and a grid pattern. The second is a window with a rectangular frame divided into three vertical panes, with a diagonal brace in each of the two side panes.

- SAMPLE -



BCIS Home | Log In | User Registration | Hot Topics | Submit Surcharge | Stats & Facts | Publications | FBC Staff | BCIS Site Map | Links | Search |



**Product Approval**  
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > [Application Detail](#)



FL #	FL7630-R6										
Application Type	Revision										
Code Version	2014										
Application Status	Approved										
Comments											
Archived	<input type="checkbox"/>										
Product Manufacturer	Therma-Tru Corporation										
Address/Phone/Email	118 Industrial Drive Edgerton, OH 43517 (419) 298-1740 rickw@rwblgdgconsultants.com										
Authorized Signature	Rick Wright rickw@rwblgdgconsultants.com										
Technical Representative											
Address/Phone/Email											
Quality Assurance Representative											
Address/Phone/Email											
Category	Exterior Doors										
Subcategory	Swinging Exterior Door Assemblies										
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input checked="" type="checkbox"/> Evaluation Report - Hardcopy Received										
Florida Engineer or Architect Name who developed the Evaluation Report	Lyndon F. Schmidt, P.E.										
Florida License	PE-43409										
Quality Assurance Entity	National Accreditation and Management Institute										
Quality Assurance Contract Expiration Date	12/31/2018										
Validated By	Ryan J. King, P.E. <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received										
Certificate of Independence	<a href="#">FL7630_R6_COI_CERTIFICATE OF INDEPENDENCE.pdf</a>										
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><b>Standard</b></th> <th><b>Year</b></th> </tr> </thead> <tbody> <tr> <td>AAMA/WDMA/101/I.S.2/A440-05</td> <td>2005</td> </tr> <tr> <td>ASTM E1886</td> <td>2002</td> </tr> <tr> <td>ASTM E1996</td> <td>2002</td> </tr> <tr> <td>ASTM E330</td> <td>2002</td> </tr> </tbody> </table>	<b>Standard</b>	<b>Year</b>	AAMA/WDMA/101/I.S.2/A440-05	2005	ASTM E1886	2002	ASTM E1996	2002	ASTM E330	2002
<b>Standard</b>	<b>Year</b>										
AAMA/WDMA/101/I.S.2/A440-05	2005										
ASTM E1886	2002										
ASTM E1996	2002										
ASTM E330	2002										
Equivalence of Product Standards Certified By											
Sections from the Code											

TYPICAL  
DOOR  
SUBMITTAL







# GLAZING OPTION & ENERGY PERFORMANCE

C

IDENTIFY THE GLAZING OPTION

NFRC Size Designation	Full Lite >1100 in2					3/4 Lite <=1100 in2		
Glass designs								
<b>Classic-Craft® Rustic Collection™</b>								
<b>6'8" Section</b>								
Glass Designation (in)	25x66					25x42	25x42A	25x42A
Daylight Opening (in2)	1599					991	965	965
1" IG 2A Low-E	.27 / .18 02381-00001					.24 / .14 02326-00001		
Low-E	X					X		
1" IG 2B Low-E	.27 / .16 02382-00001					.24 / .12 02327-00001		
Low-E	X					X		
1" IG Triple Pane	.27 / .30 02355-00001					.24 / .23 02300-00001		
Arborwatch™	X					X		
Homeward™	X					X		
Villager™	X					X		
Arcadia™	X					X		
Ashurst™	X					X		
Bella™	X					X		
Provincial™	X					X		
Longford™	X					X		
Cambridge™	X					X		
Lucerna™	X					X		
Zaha™	X					X		
Privacy	X					X		
1" IG with Internal Wrought Iron Dividers	.34 / .31 02353-00001					.29 / .23 02298-00001	.29 / .23 02298-00001	.29 / .23 02298-00001
Augustine®	X					X	X	X
Borrassa™	X					X	X	
3/4" IG 2A Low-E								
Low-E								
3/4" IG 2B Low-E								
Low-E								
3/4" IG Triple Pane								
Arborwatch™								
Homeward™								
Villager™								
Arcadia™								
Ashurst™								
Bella™								
Hammered								
Provincial™								
Longford™								
Cambridge™								
Lucerna™								
Zaha™								
Privacy								
Solid Panel (includes all flush paneling designs)								
Solid Panel (includes all embossed paneling designs)								
<b>8'0" Section</b>								
Glass Designation (in)		25x51	31x51A	25x51A	31x51A	21x51A		
Daylight Opening (in2)		1228	1495	1203	1495	1203		
1" IG 2A Low-E		.27 / .18 02381-00001	.27 / .18 02381-00001	.27 / .18 02381-00001	.27 / .18 02381-00001	.27 / .18 02381-00001		
Low-E		X	X	X	X	X		
1" IG 2B Low-E		.27 / .16 02382-00001	.27 / .16 02382-00001	.27 / .16 02382-00001	.27 / .16 02382-00001	.27 / .16 02382-00001		
Low-E		X	X	X	X	X		
1" IG Triple Pane		.27 / .30 02355-00001	.27 / .30 02355-00001	.27 / .30 02355-00001	.27 / .30 02355-00001	.27 / .30 02355-00001		
Arborwatch™		X						
Homeward™		X						
Villager™		X						
Arcadia™		X						
Ashurst™		X		X		X		
Bella™		X						
Provincial™		X						

ENERGY PERFORMANCE  
UFACTOR / SHGC

Classic-Craft® Rustic Collection™



# THERMA TRU®

## THERMA TRU DOORS

118 INDUSTRIAL DR., EDGERTON, OH 43517

### "SMOOTH STAR", "FIBER CLASSIC", "CLASSIC CRAFT" & "CLASSIC CRAFT RUSTIC" GLAZED FIBERGLASS SINGLE DOOR w/ SIDELITE IN SWING / OUT SWING "IMPACT"

**NOTES**

Product has been evaluated and is in compliance with the 5th Edition (2014) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).

Anchor bolts shall be as listed and spaced as shown on details. Anchor embedment to base shall be beyond wall dressing or stucco.

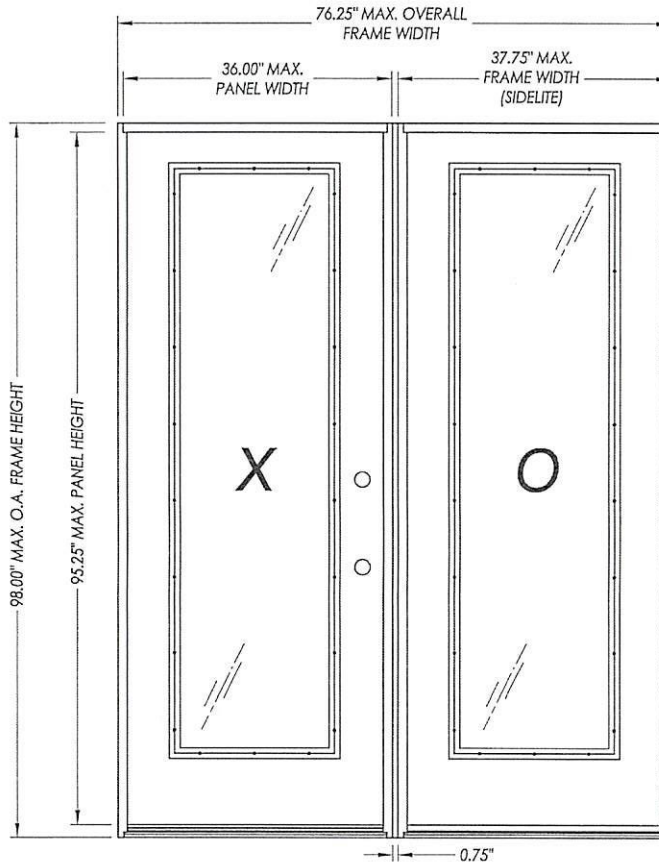
When used in areas requiring wind borne debris protection this product complies with Section 603 of the FBC and does not require an impact resistant covering. This product meets missile resistance and includes Wind Zone 4 as defined in ASTM E 1996 and Section 1609.1.2.2 of the FBC.

For masonry framing construction, anchoring of these units shall be the same as that shown for 2x masonry construction.

Conditions that deviate from the details of this drawing require further engineering analysis by a registered engineer or registered architect.

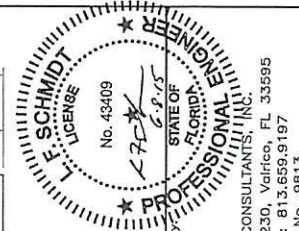
**TABLE OF CONTENTS**

#	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Smooth Star door/sidelite panel & glazing details
3	Fiber Classic door/sidelite panel & glazing details
4	Classic Craft/Classic Craft Rustic door/sidelite panel & glazing details
5	Horizontal cross sections
6	Vertical cross sections
7	Vertical cross sections
8	Buck & frame anchoring - 2X buck masonry construction
9	Frame anchoring - 1X buck masonry construction
10	Components
11	Bill of Materials



"SMOOTH STAR", "FIBER CLASSIC"  
"CLASSIC CRAFT" & "CLASSIC CRAFT RUSTIC"

SWING	OVERALL FRAME DIMENSION	OVERALL D.L.O. DOOR / SIDELITE DIMENSION	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
IN SWING	76.25" x 98.00"	21.00" x 78.75"	+50.0	-50.0
OUT SWING	76.25" x 96.75"	21.00" x 78.75"	+50.0	-50.0



Documents Prepared By:  
Lynden F. Schmidt  
P.E. No. 43409

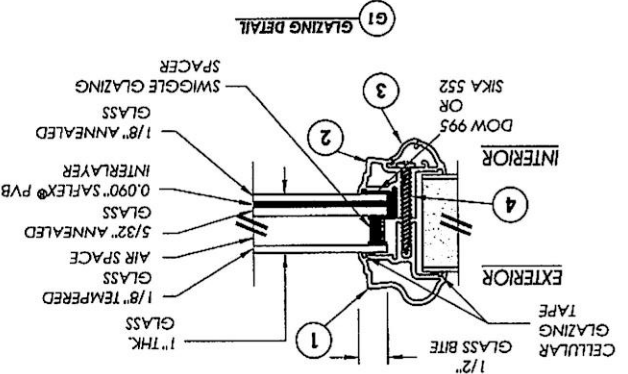
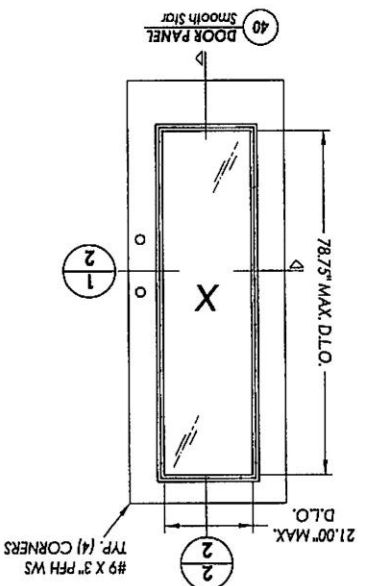
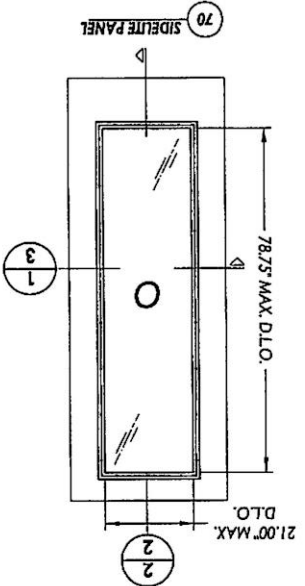
R.W. BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE C.A. No. 9813

PRODUCT: THERMA-TRU GLAZED FIBERGLASS DOOR  
PART OR ASSEMBLY:  
TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

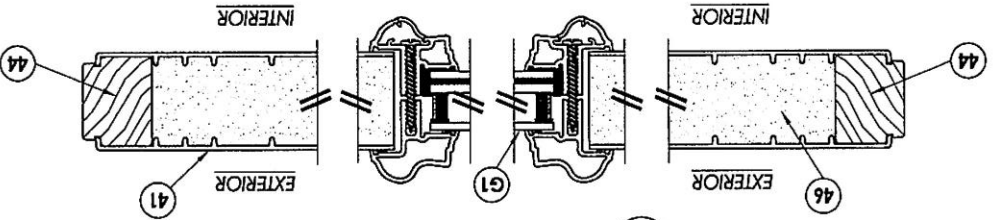
NO.	DATE	REVISIONS
3	6/4/15	CORRECT B.O.M.
2	1/29/15	UPDATE TO 5TH ED. (2014) FBC
1	6/11/12	UPDATE TO 2010 FBC

DATE: 5/20/08  
SCALE: N.T.S.  
DWG. BY: AL  
CHK. BY: LFS  
DRAWING NO.: FL-7630.2

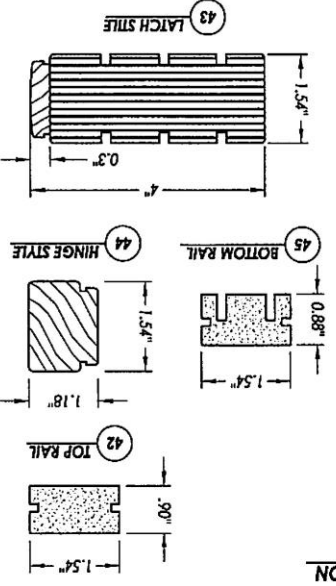
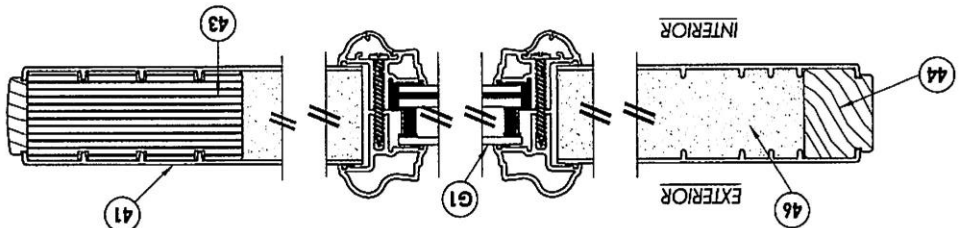
R.W. BUILDING CONSULTANTS, INC.



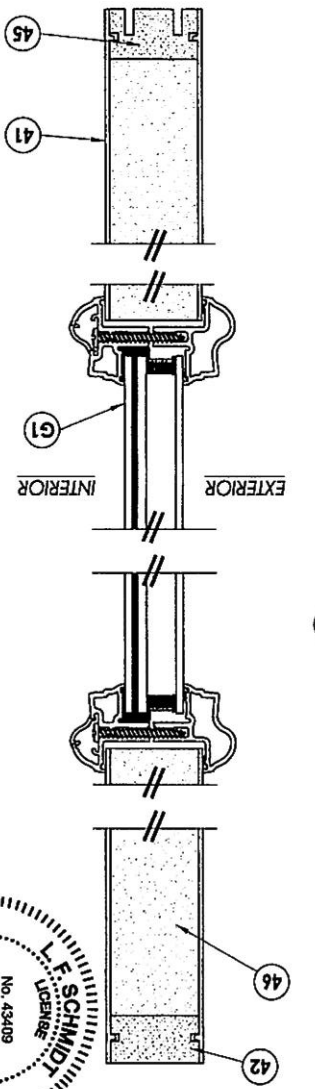
1 HORIZONTAL CROSS SECTION

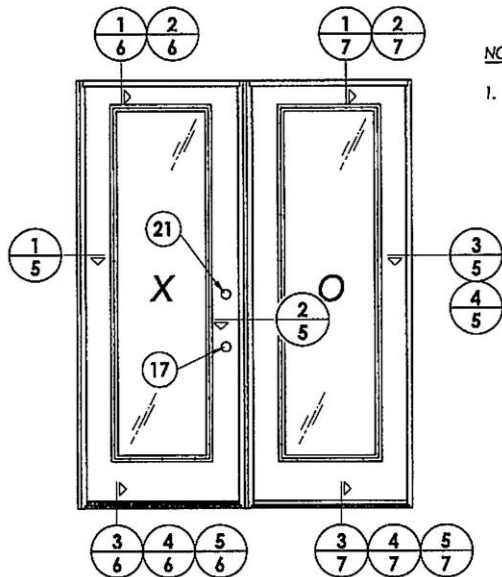


2 HORIZONTAL CROSS SECTION

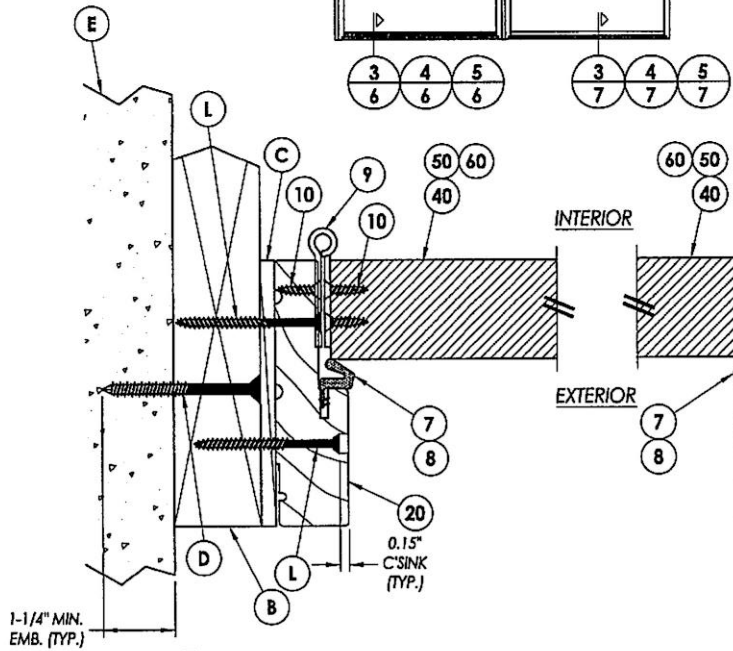


2 VERTICAL CROSS SECTION

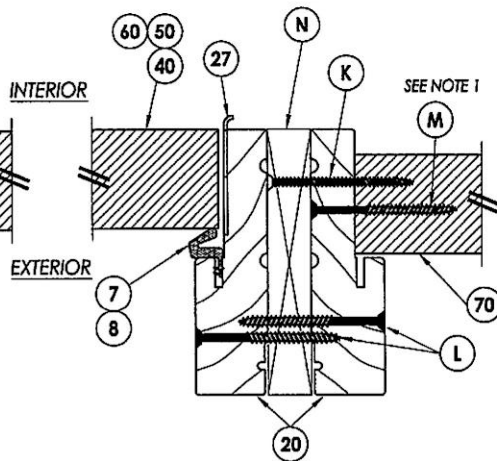




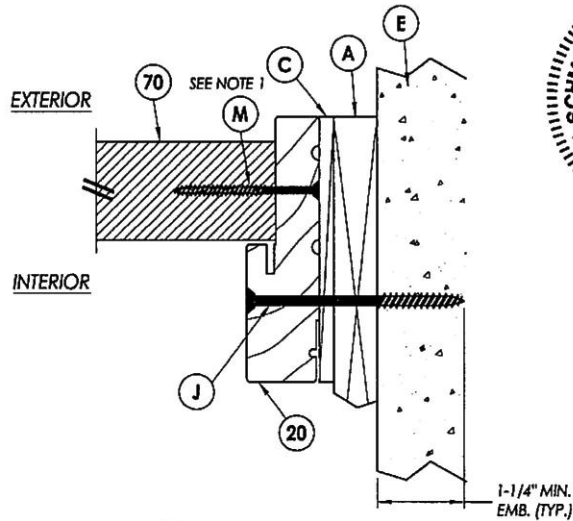
**NOTE:**  
 1. Sidelite assembly screws located at 6" from each end and 6 more screws equally spaced (8 screws total per jamb).



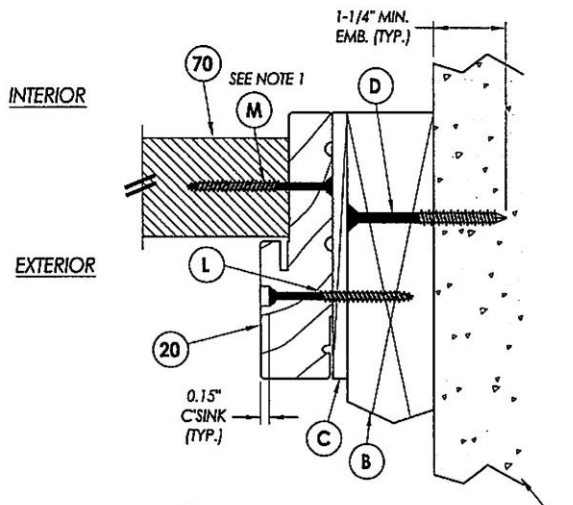
**1**  
**5** **HORIZONTAL CROSS SECTION**  
 Inswing shown - Outswing also approved



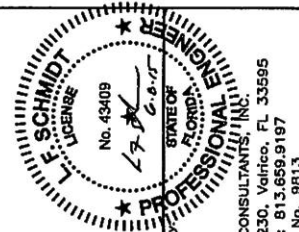
**2**  
**5** **HORIZONTAL CROSS SECTION**  
 Inswing shown - Outswing also approved



**4**  
**5** **HORIZONTAL CROSS SECTION**  
 Shown w/IX sub-buck



**3**  
**5** **HORIZONTAL CROSS SECTION**  
 Inswing shown - Outswing also approved



Documents Prepared by:  
 Lyndon F. Schmidt  
 P.E. No. 43409  
 R.W. BUILDING CONSULTANTS, INC.  
 P.O. Box 230, Valrico, FL 33595  
 Phone No.: 813-889-9197  
 FBPE C.A. No. 9813

PRODUCT: THERMA-TRU GLAZED FIBERGLASS DOOR  
 PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

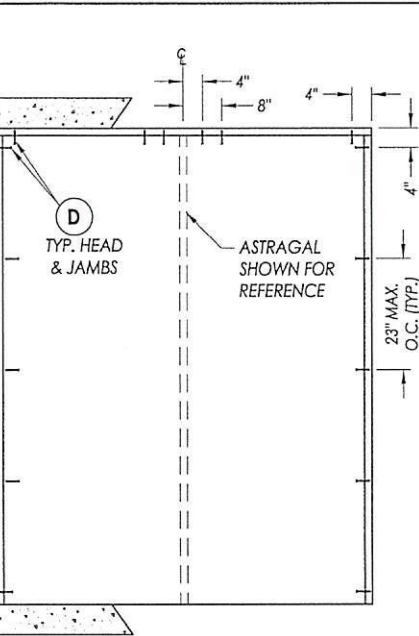
NO.	DATE	REVISIONS
3	6/4/15	CORRECT B.O.M.
2	1/29/15	UPDATE TO 5TH ED. (2014) FBC
1	6/11/12	UPDATE TO 2010 FBC

DATE: 5/20/08  
 SCALE: N.T.S.  
 DWG. BY: AL  
 CHK. BY: LFS  
 DRAWING NO.: FL-7630.2  
 SHEET 5 of 11

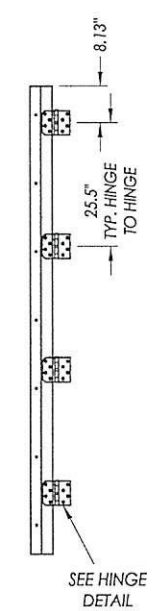




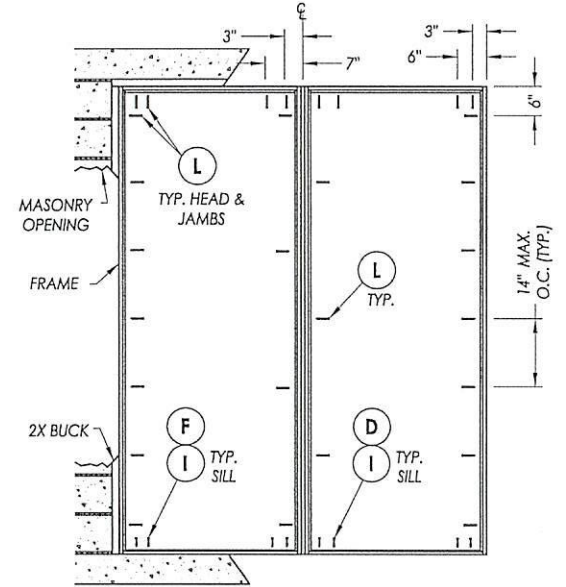




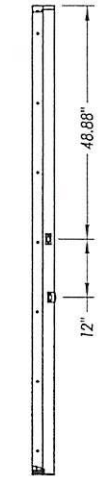
**BUCK ANCHORING**



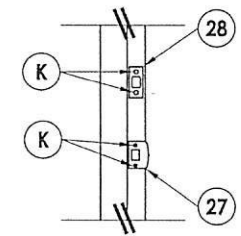
**HINGE JAMB**



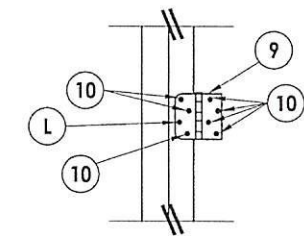
**FRAME ANCHORING**  
Masonry 2X buck construction



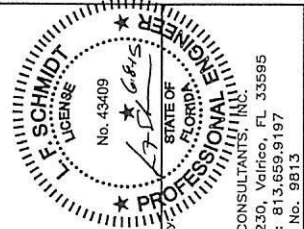
**STRIKE JAMB**



**LATCH & DEADBOLT DETAIL**



**HINGE DETAIL**



Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409

**PRODUCT:** THERMA-TRU GLAZED FIBERGLASS DOOR  
**PART OR ASSEMBLY:** BUCK & FRAME ANCHORING 2X BUCK MASONRY CONSTRUCTION

NO.	DATE	BY	REVISIONS
3	6/4/15	JK	CORRECT B.O.M.
2	1/29/15	LFS	UPDATE TO 5TH ED. (2014) FBC
1	6/11/12	JK	UPDATE TO 2010 FBC

DATE: 5/20/08  
SCALE: N.T.S.  
DWG. BY: AL  
CHK. BY: LFS  
DRAWING NO.:

**ANCHOR NOTES:**  
Anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.  
Anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain min. edge distance to mortar joints, additional concrete anchors may be added to ensure the "MAX. ON CENTER" dimension are not exceeded.  
Anchor table:

ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
1/4"	1-1/4"	2"	4"
1/4"	1-1/4"	1"	4"

**INSTALLATION NOTES:**  
Minimum 5/8" edge distance, 1" and distance, & 1" o.c. spacing of

ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
A	1X BRUC SG >= 0.55	WOOD	40	FIBERGLASS DOOR PANEL - SMOOTH STAR	SMC
B	2X BRUC SG >= 0.55	WOOD	41	FIBERGLASS SMC SKIN MIN 0.065" THICKNESS	SMC
C	MAX. 1/4" SHIM SPACE	WOOD	42	TOP RAIL	COMPOSITE
D	1/4" X 2-3/4" PPH ELCO OR ITW CONCRETE SCREW	STEEL	43	LATCH STILE	WOOD/LVL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	44	HINGE STILE	WOOD
F	1/4" X 1-3/4" PPH ITW CONCRETE SCREW	STEEL	45	BOTTOM RAIL	COMPOSITE
G	1/4" X 3-1/4" PPH ITW CONCRETE SCREW	STEEL	46	POLYURETHANE FOAM CORE - 1.9 LBS. DENSITY	FOAM
H	1/4" X 2-1/4" PPH ITW CONCRETE SCREW	STEEL	50	FIBERGLASS DOOR PANEL - FIBER CLASSIC	SMC
I	1/4" X 3-3/4" PPH ITW CONCRETE SCREW	STEEL	51	FIBERGLASS SMC SKIN MIN 0.065" THICKNESS	SMC
J	1/4" X 3-3/4" PPH ITW CONCRETE SCREW	STEEL	52	TOP RAIL	COMPOSITE
K	#8 X 2-1/2" PPH WOOD SCREW	STEEL	53	LATCH STILE	WOOD/LVL
L	#10 X 2-1/2" PPH WOOD SCREW	STEEL	54	HINGE STILE	WOOD
M	#9 X 2-1/2" PPH WOOD SCREW	STEEL	55	BOTTOM RAIL	COMPOSITE
N	1X MULTION REINFORCEMENT (SG >= 0.42)	WOOD	56	POLYURETHANE FOAM CORE - 1.9 LBS. DENSITY	FOAM
1	EXTERIOR LITE FRAME	ALUMINIUM	60	FIBERGLASS DOOR PANEL - CLASSIC CRAFT & CLASSIC CRAFT RUSTIC	SMC
2	INTERIOR LITE FRAME	ALUMINIUM	61	FIBERGLASS SMC SKIN MIN 0.090" THICKNESS	SMC
3	LITE FRAME TRIM	PVC	62	TOP RAIL	COMPOSITE
4	#10 X 1-1/2" PPH SCREW	STEEL	63	LATCH STILE	WOOD/LVL
7	MEDIUM REACH COMPRESSION WEATHERSTRIP	FOAM	64	HINGE STILE	WOOD
8	LONG REACH COMPRESSION WEATHERSTRIP	FOAM	65	BOTTOM RAIL	COMPOSITE
9	4" X 4" HINGE .097" THK.	STEEL	66	POLYURETHANE FOAM CORE - 1.9 LBS. DENSITY	FOAM
10	#10 X 3/4" PPH WOOD SCREW (HINGE TO FRAME)	STEEL	70	FIBERGLASS SIDE/LITE PANEL - SMOOTH STAR	WOOD
12	#10 X 2" PPH WOOD SCREW	STEEL	71	SIDE/LITE STILE	WOOD
17	PASSAGE LOCK - KWIKSET SIGNATURE SERIES	STEEL			
18	THRESHOLD OUTSWING	ALUM./WOOD			
19	HEADER JAMB (PINE) SG >= 0.42	WOOD			
20	SIDE JAMB (PINE) SG >= 0.42	WOOD			
21	DEADBOLT - KWIKSET SIGNATURE SERIES (780)	STEEL			
22	INSWING SIDE/LITE ADAPTERS	PVC			
23	OUTSWING SIDE/LITE SPACER	PVC			
24	SILICONE CAULK	SILICONE			
27	LATCH STRIKE PLATE	STEEL			
28	DEADBOLT PLATE	STEEL			
32	DOOR BOTTOM SWEEP	PVC			
33	INSWING THRESHOLD (THERMA-TRU)	ALUM./WOOD			
34	INSWING THRESHOLD CS ADJUSTABLE	ALUM./COMP.			
35	INSWING THRESHOLD ADJUSTABLE	ALUM./COMP.			
36	INSWING THRESHOLD ADJUSTABLE	ALUM./COMP.			
37	INSWING THRESHOLD SELF ADJUSTABLE	ALUM./COMP.			
38	INSWING THRESHOLD IMPERIAL	ALUM./COMP.			

NOTE: WOOD DOOR COMPONENTS: PINE OR OAK (SG >= 0.42)



NO.	DATE	REVISIONS	BY
3	6/4/15	CORRECT B.O.M.	JK
2	1/29/15	UPDATE TO 5TH ED. (2014) FBC	LFS
1	6/11/12	UPDATE TO 2010 FBC	JK

DATE	5/20/08
SCALE	N.T.S.
DWG. BY:	AL
CHK. BY:	LFS
DRAWING NO.:	FL-7630.2
SHEET	11 of 11

PRODUCT: THERMA-TRU GLAZED FIBERGLASS DOOR  
 PART OR ASSEMBLY: BILL OF MATERIALS

Documents Prepared By: Lyndon F. Schmidt  
 P.E. No. 43409  
 BUILDING CONSULTANTS, INC.  
 P.O. Box 230, Valrico, FL 33585  
 Phone No.: 813.659.9197  
 FBPE C.A. No. 9813

- SAMPLE -

FLORIDA DEPARTMENT OF  
**Business & Professional Regulation**

*myflorida.com*

[DBPR HOME](#) | [ABOUT DBPR](#) | [DBPR DIVISIONS](#) | [CONTACT DBPR](#)  
[BCIS Home](#) | [Log In](#) | [User Registration](#) | [Hot Topics](#) | [Submit Surcharge](#) | [Stats & Facts](#) | [Publications](#) | [FBC Staff](#) | [BCIS Site Map](#) | [Links](#) | [Search](#)



TYPICAL  
WINDOW  
SUBMITTAL

Product Approval Menu > Product or Application Search > Application List > Application Detail

OFFICE OF THE SECRETARY

FL #	FL1435-R19
Application Type	Revision
Code Version	2014
Application Status	Approved

\*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.

Comments  
Archived

Product Manufacturer  
Address/Phone/Email

PGT Industries  
1070 Technology Drive  
North Venice, FL 34275  
(941) 486-0100 Ext 22318  
druark@pgtindustries.com

Authorized Signature

Jens Rosowski  
jrosowski@pgtindustries.com

Technical Representative  
Address/Phone/Email

Jens Rosowski  
1070 Technology Drive  
Nokomis, FL 34275  
(941) 486-0100 Ext 21140  
jrosowski@pgtindustries.com

Quality Assurance Representative  
Address/Phone/Email

Category  
Subcategory

Windows  
Single Hung

Compliance Method

Certification Mark or Listing

Certification Agency  
Validated By

Keystone Certifications, Inc.  
Steven M. Urich, PE  
 Validation Checklist - Hardcopy Received

Referenced Standard and Year (of Standard)	Standard	Year
	AAMA/WDMA/CSA 101/IS2/A440	2011
	AAMA/WDMA/CSA 101/IS2/A440	2005
	AAMA/WDMA/CSA 101/IS2/A440	2008
	ANSI/AAMA/WDMA 101/I.S.2/NAFS	2002
	ASTM E1886	2005
	ASTM E1996	2012
	ASTM E283	2004
	ASTM E330	2002

Equivalence of Product Standards  
Certified By

		<a href="#">FL1435 R19 AE SH-5400 Evaluation.pdf</a> Created by Independent Third Party: No
1435.6	SH-5500	WinGuard Vinyl Single Hung Window
<b>Limits of Use</b> Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the Installation Instructions for design pressure, size and anchorage information.		<b>Certification Agency Certificate</b> <a href="#">FL1435 R19 C CAC SH-5500 Certification.pdf</a> <b>Quality Assurance Contract Expiration Date</b> 10/01/2018 <b>Installation Instructions</b> <a href="#">FL1435 R19 II SH-5500.pdf</a> Verified By: A. Lynn Miller, P.E. 58705 Created by Independent Third Party: No <b>Evaluation Reports</b> <a href="#">FL1435 R19 AE SH-5500 Evaluation.pdf</a> Created by Independent Third Party: No

[Back](#) [Next](#)

Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

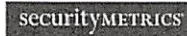
The State of Florida is an AA/EEO employer. Copyright 2007-2013 State of Florida. :: [Privacy Statement](#) :: [Accessibility Statement](#) :: [Refund Statement](#)

Under Florida law, email addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. \*Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. To determine if you are a licensee under Chapter 455, F.S., please click [here](#).

Product Approval Accepts:



Credit Card  
**Safe**





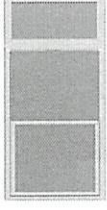


www.pgtindustries.com

**NFRC Report**

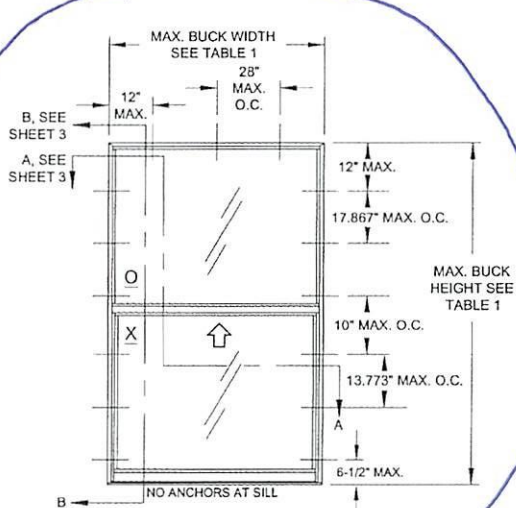
Will show ENERGY PERFORMANCE AND DESIGN PRESSURES

Sales Order # 1076463  
 PO Number: KNIGHT  
 Job Name: NONE  
 Job Address:

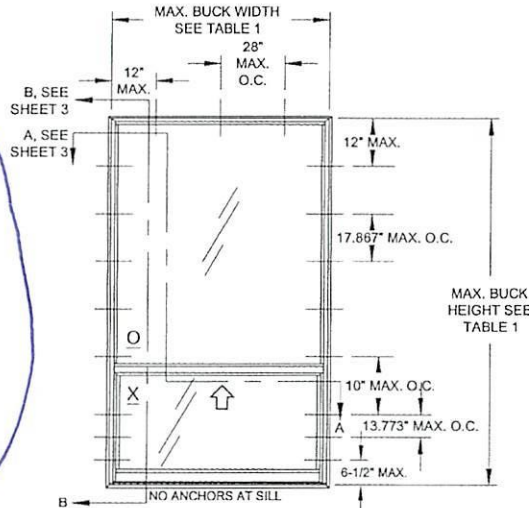
Line #	Item Description	Quantity	Location
0001 (1.00)	MULTI-PART MULTI-PART UNITS 36.X98.5X.,5500,SGLS,MTCH COL,W.,625FLANGE	Ordered: 2.00	FRONT DEN
	 <p>BEGIN MODEL SET 001: .....            Combination Configuration: SGLS            Unit 2: PW5520            Frame Type: .625FLANGE            Send Mull(s): Y            Size Slection: ACTUAL            Height: 98.5000            Frame Color: White            Boxing Options: N</p>	PO Number:	Series: 5500.0000 Unit 1 (Bottom Left Unit): SH5500 Continuous Shape Multi-Part: N Assembly Options: MTCHCOL Mull Part Selection: MULL/CVR/CLPS Width: 36.0000 Horizontal Mull: 1.25X3.25X.100 Glass Color: CL
0001 (2.00)	SH5500 VINYL SINGLE HUNG 5500 MULL EXT/INT COVERS & CLIP SET,..36.X74.75X.,STD,5/8" FL,W,EQUAL,7/8 LIG,CL,ARG,SB 70XL,NO GRID,DBL,SWEEP,1816K,CMFRT LFT HNDL,LFT RL,.x.	Ordered: 2.00	FRONT DEN
	<p>Certification Type: AAMAA440            Vent Configuration: EQUAL            Size Selection: CUSTOM            Height: 74 3/4            Rough Masonry: 37 3/4 X 75 3/4            Egress: 31 3/4 X 28 15/16 (6.387 SQFT)            Does unit need to meet Turtle Code: NO            Glass: 7/8" LIG (1/8 AN - 7/16 ARG -5/16 AN/AN            Argon Gas: ARGON            Low E: ENERGY SHIELD MAX            Grid Type: NO Grid            Screen Frame Type: EXTRUDED            Vent Latch: N            Lift Rail: Y            Lock Type: Sweep Latch            Acc Glass Breakage: N            Vent Ht: 37.0180            PositiveDesignPressure: 50.0000            PANumber: FL 1435            CondensationResistance: 59.0000            SolarHeatGainCoeff: 0.2100            VTCOG: 0.6300</p>	<p>Frame Type: .625FLANGE            Window Style: STD            Size Ref: ACTUAL            Actual Size: 36 X 74 3/4            Wood Frame: 36 1/4 X 75            Frame Color: White            Glass Family: Laminated Insulating            Interlayer Type: PVB090            Glass Color: CLEAR            Privacy Glass: NONE            Screen Type: 1816 Charcoal            Boxing Options: None            Comfort Lift: Y            WOCD: N            Reinf. Upgrade: None            Upgrade Hardware Finish: N            CAR#: 190-285/1028            NegativeDesignPressure: 50.0000            EnergyStar: 123.0000            UF: 0.2900            VT: 0.4800</p>	
0001 (3.00)	PW5520 PW5520 VINYL PICTURE WINDOW MULL EXT/INT COVERS & CLIP SET,..36.X22.5,5/8" FL,W,7/8 LIG,CL,ARG,SB 70XL,OUTSIDE GLZ,NO GRID,.x.	Ordered: 2.00	FRONT DEN



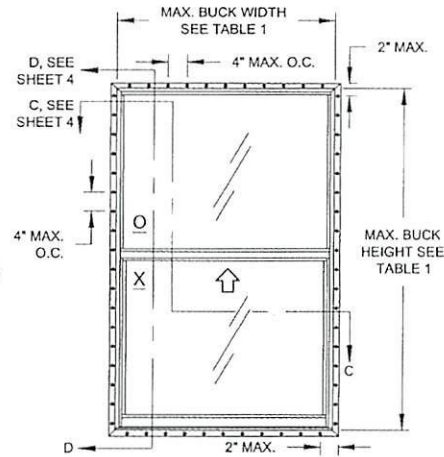
IDENTIFY THE APPLICATION FOR THIS PERMIT



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



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



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


GENERAL NOTES: SERIES 5500 IMPACT RESISTANT, VINYL SINGLE HUNG WINDOW

- THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE.
- ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER, (EOR) OR ARCHITECT OF RECORD, (AOR).
- ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT EMBEDMENT. INSTALLATION ANCHORS SHOULD BE SEALED. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- 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. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.
- 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.

TABLE 1:

Window Buck Size		Configuration	Reinf. Level	Design Pressure		Certification (CAR) Number
Width	Height			(+) psf	(-) psf	
52-1/8"	84"	Equal-lite	R1	50.0	50.0	190-285, 1028
52-1/8"	84"	Std. ProView				
52-1/8"	91-13/16"	Custom Sash	R2	65.0	70.0	190-286, 1029
52-1/8"	84"	Equal-lite				
52-1/8"	84"	Std. ProView				
52-1/8"	91-13/16"	Custom Sash				

SHAPES MAY BE USED BY INSCRIBING THE SHAPE IN A BLOCK AND OBTAINING DESIGN PRESSURES FOR THAT BLOCK SIZE FROM THE TABLE ON THIS SHEET.

 CERT. OF AUTH. #29296 1070 TECHNOLOGY DRIVE	Title: VINYL SH WINDOW FPA (IMP.-RESIST.) Date: 12/13/14
	Rev 1 Date: _____ Rev 2 Date: _____
GENERAL NOTES & ELEVATIONS	Drawn By: J ROSOWSKI
Rev 1 Date: _____ Rev 2 Date: _____	Date: _____

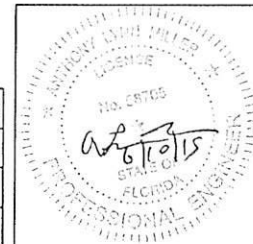


TABLE 2: ANCHORS INSTALLED THROUGH FRAME

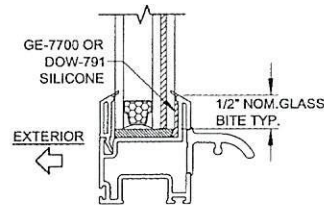
Anchor	Substrate	Min. Edge Distance	Min. Embedment
#10 SMS (steel, 18-8 S.S. or 410 S.S.) Max. DP of 50.0	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
	Steel, A36	3/8"	0.050"
	Steel Stud, A653 Gr. 33	3/8"	0.0346" (20 Ga.)
	Aluminum, 6063-T5	3/8"	0.0713" (14 Ga.)
#12 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
	Steel, A36	3/8"	0.050"
	Steel Stud, A653 Gr. 33	3/8"	0.0346" (20 Ga.)
	Aluminum, 6063-T5	3/8"	0.0713" (14 Ga.)
3/16" Ultracon (steel) Max. DP of 50.0	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
	Concrete (min. 2.85 ksi)	1"	1-3/8"
	UngROUTed CMU, (ASTM C-90)	2-1/2"	1-1/4"
1/4" Ultracon (steel)	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
	Concrete (min. 2.85 ksi)	1"	1-3/4"
	UngROUTed CMU, (ASTM C-90)	2-1/2"	1-1/4"
	Concrete (min. 2.85 ksi)	2-1/2"	1-3/4"
1/4" Crete-Flex (410 S.S.)	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
	Concrete (min. 3.35 ksi)	1"	1-3/4"
	UngROUTed CMU, (ASTM C-90)	2-1/2"	1-1/4"
	Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
1/4" Aggre-Gator (18-8 S.S.)	Concrete (min. 3.275 ksi)	1-1/2"	1-3/8"
	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
	UngROUTed CMU, (ASTM C-90)	2"	1-1/4"

TABLE 3: ANCHORS INSTALLED THROUGH INTEGRAL FIN

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

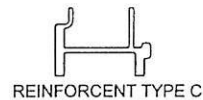
ANCHOR NOTES:

- 1) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
- 2) PANHEAD, FLATHEAD OR HEXHEAD ARE ACCEPTABLE.
- 3) ANCHOR LENGTH TO BE SO THAT A MIN. OF 3 THREADS EXTEND BEYOND THE METAL SUBSTRATE.

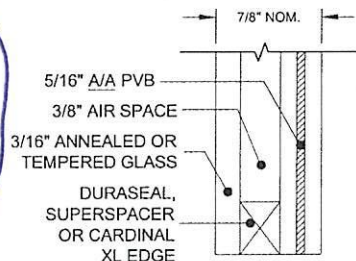
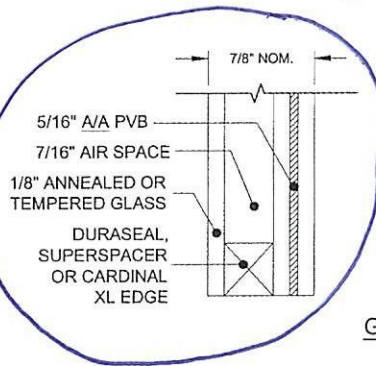
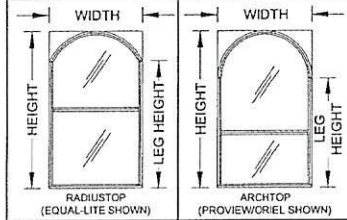


TYP. GLAZING DETAIL

I.D. GLAZING TYPE



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



GLAZING TYPES

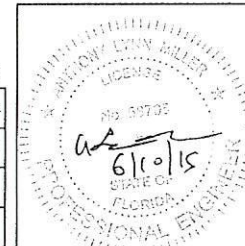
TABLE 4: REINFORCEMENT TYPES

Level	Reinforcement			
	Upper Lite Bottom Rail	Lower Lite Top Rail	Lower Lite Bottom Rail	Side Rails
R1	B	A	A	A
R2	C	A	A	A

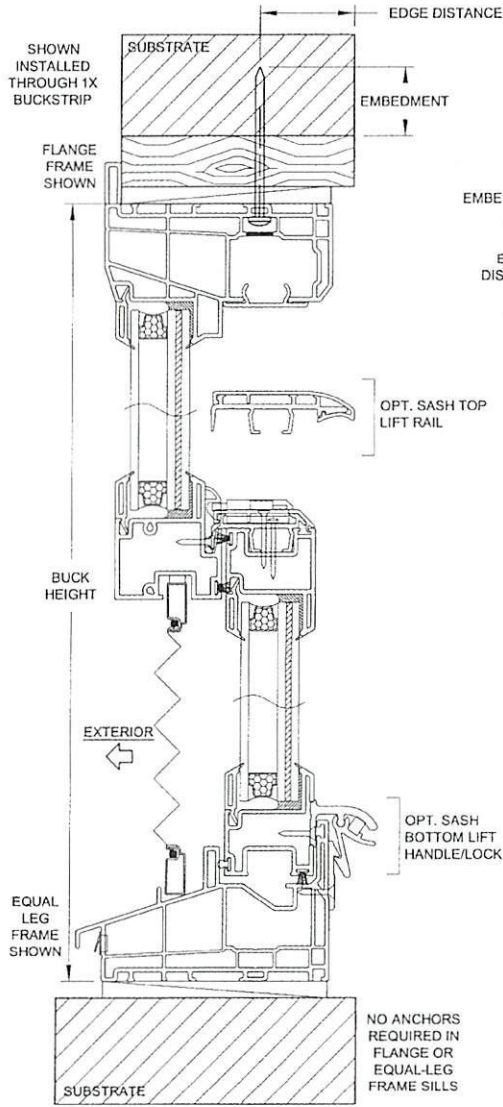
**PGT**  
CERT. OF AUTH. #29296  
1070 TECHNOLOGY DRIVE

PVB INTERLAYER MANUFACTURED BY DUPONT INC. (AKA KURARAY AMERICA, INC.)

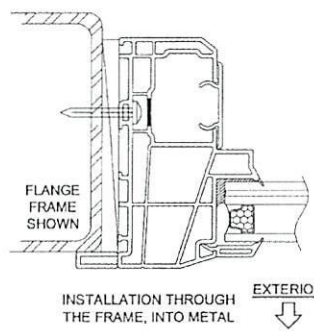
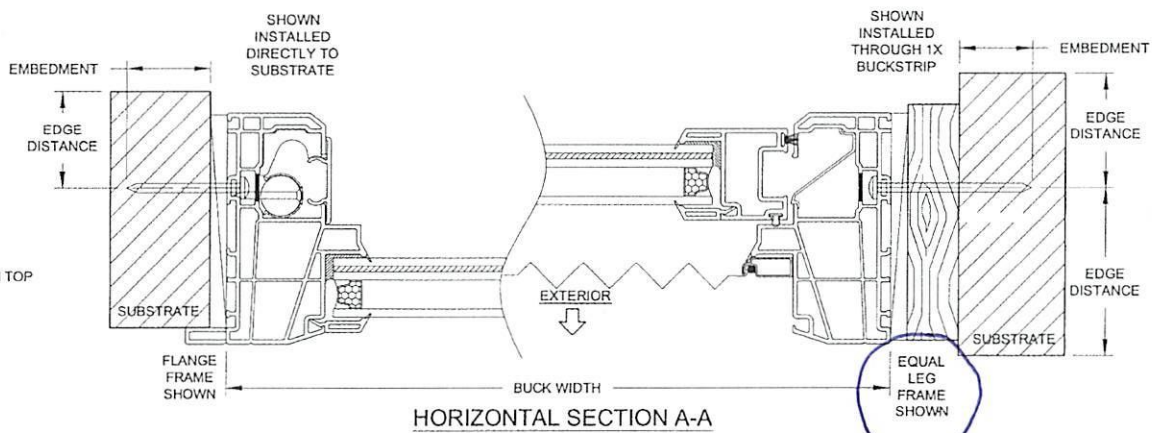
Rev. 1	Desc.	VINYL SH WINDOW FPA (IMP.-RESIST.)	Date	12/13/14
Rev. 2	By	GLASS/ANCHOR OPTIONS	Drawn By	J ROSOWSKI
Rev. 3	Date		Date	







VERTICAL SECTION B-B



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

**PGT**  
 CERT. OF AUTH. #29296  
 1070 TECHNOLOGY DRIVE  
 N. VENICE, FL 34275  
 (941)-480-1600

SH-5500	Substr	NTS	Sheet	3 OF 4	DWG No.	FPA-5500.0	Rev. No.
Source	Rev. 2	Rev. 1	Date	12/13/14	Drawn By	J ROSOWSKI	Date
				Rev. 2	Rev. 1	Date	Date

PROFESSIONAL ENGINEER  
 STATE OF FLORIDA  
 No. 55705  
 6/26/15  
 A. LYNN MILLER, P.E.  
 P.E.# 58705