



## **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 showing location (locate windows by number) – See attached sample
- Two (2) copies of window/door specifications and Florida Product Approval for your specific installation (make, model and series; installation instructions – latest edition; description of proposed impact protection – shutters)
- Two (2) copies of the U-factor/Solar Heat Gain Co-efficient (Required only if the value of the replacement work, materials & labor, exceeds 30% of the assessed value. If it does not exceed 30% the assessed value the U-factor/Solar Heat Gain Co-efficient is no longer required. This is to be determined during the review process not the counter)
- Two (2) copies of Window/Door/Shutter worksheet
- Owner/Builder Affidavit (if homeowner).
- NOC if value is \$2500 or greater.

### **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. Locations of bedrooms or sleeping rooms shall be noted on the floor plan.

EFFECTIVE NOVEMBER 1st, 2019

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 2017 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.

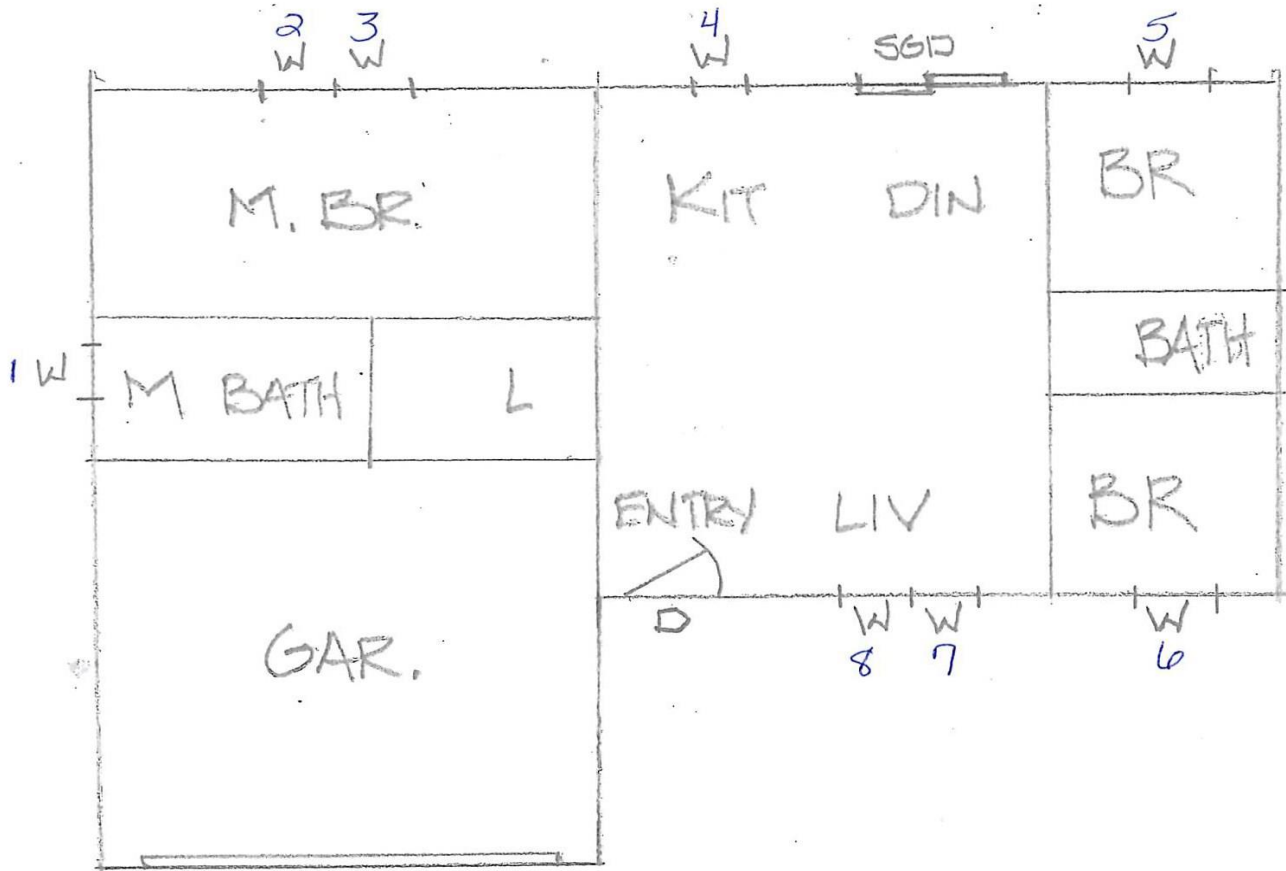
Per 2017 Florida Building Code (FBC)-Existing Building 707.4:

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."



SAMPLE PLAN



# 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 showing location (locate windows by number) – See attached sample
- Two (2) copies of window/door specifications and Florida Product Approval for your specific installation(make, model and series; installation instructions – latest edition; description of proposed impact protection – shutters)
- Two (2) copies of the U-factor/Solar Heat Gain Co-efficient (Required only if the value of the replacement work, materials & labor, exceeds 30% of the assessed value. If it does not exceed 30% the assessed value the U-factor/Solar Heat Gain Co-efficient is no longer required. This is to be determined during the review process not the counter)
- Two (2) copies of Window/Door/Shutter worksheet
- 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 \$2500 or greater.

### **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



EFFECTIVE NOVEMBER 1st, 2019

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

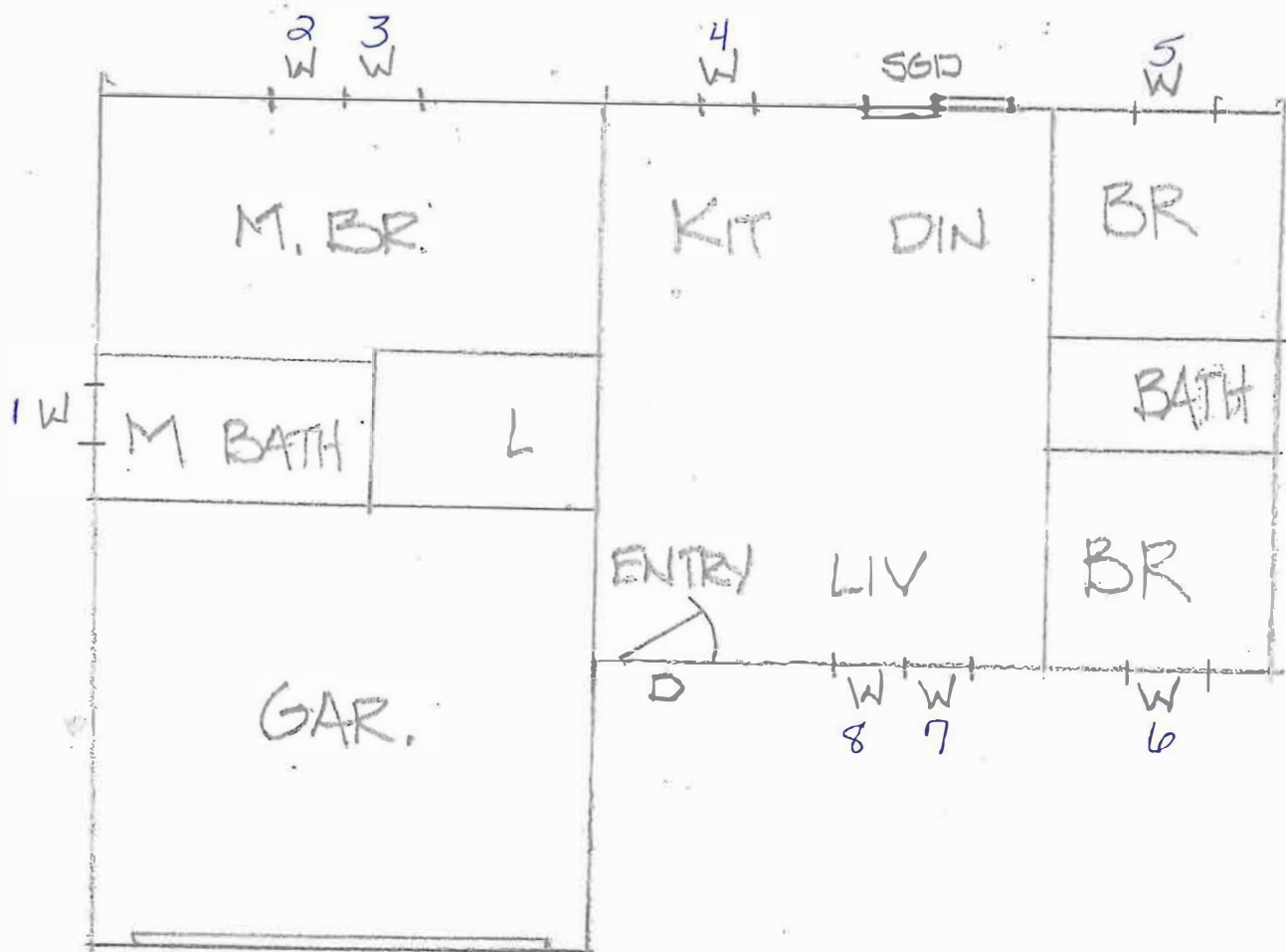
- 1) Impact-resistant glazing (glass) meeting the requirements of ANSI/DASMA 115 (for garage doors and rolling doors) or TAS 201, 202, AAMA 506, ASTM E1996 and ASTM E1886 referenced herein, or an approved impact-resistant standard as follows
  - 1) Glazed openings located within 30 feet (9144 mm) of grade shall meet the requirements of the large missile test of ASTM E1996.
  - 2) Glazed opening 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 2017 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 2017 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."



SAMPLE PLAN



## **Window/Door Replacement - Residential Permit Guidelines**

### **(new opening – window or door)**

**NOTE: If any additional work is being done in addition to the openings, then all of the work would be covered under a remodel permit.**

\*Architectural/Engineered sealed plans required.

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

- Miscellaneous application.
- Two (2) copies of floor plan/site or elevation plan showing location (locate windows by number) - See attached sample
- Two (2) copies of window/door specifications and Florida Product Approval for your specific installation (make, model and series; installation instructions – latest edition; description of proposed impact protection – shutters)
- Two (2) copies of the U-factor/Solar Heat Gain Co-efficient (Required only if the value of the replacement work, materials & labor, exceeds 30% of the assessed value. If it does not exceed 30% the assessed value the U-factor/Solar Heat Gain Co-efficient is no longer required. This is to be determined during the review process not the counter)
- Two (2) copies of Window/Door/Shutter worksheet
- Two (2) copies of signed/sealed engineered plans.
- Owner/Builder Affidavit (if homeowner).
- NOC if value is \$2500 or greater.

### **Description:**

- Adding new opening for window/door

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

Building (POD)

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

- Type: Window/Door Opening
- Subtype: Residential

### **Inspections:**

- |                                |    |
|--------------------------------|----|
| • Notice of Commencement (NOC) | 10 |
| • Tie Beam (006)               | 20 |
| • Frame Rough (007)            | 30 |
| • Miscellaneous Final (070)    | 40 |

### **Fees:**

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

### **Expiration :**

- Six (6) Months

EFFECTIVE NOVEMBER 1st, 2019

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.
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  - c) 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 2017 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 2017 Florida Building Code (FBC)-Existing Building 707.4:

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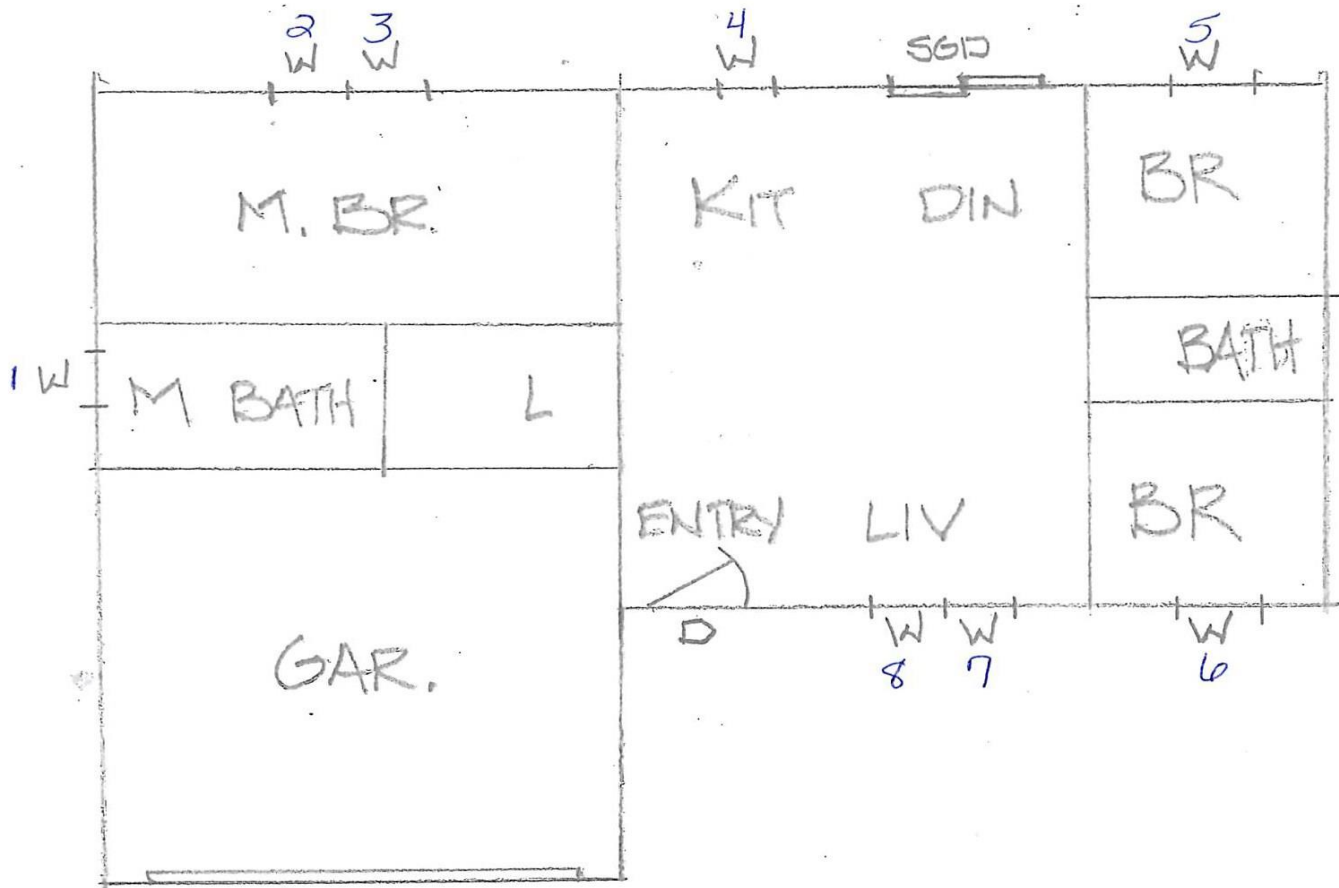
If more than 25% of the windows and/or doors in a pre-Florida Building Code home are being replaced and the windows/doors are NOT impact glass, the windows/doors are required to have opening protection (such as shutters).

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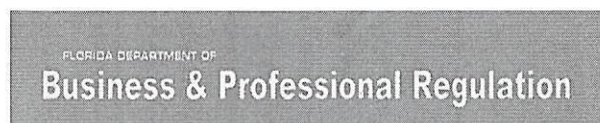
and click on "Product Approval"





SAMPLE PLAN

- SAMPLE -



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**Product Approval**  
USER: Public User

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

OFFICE OF THE  
SECRETARY

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>Standard</th> <th>Year</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>	Standard	Year	AAMA/WDMA/101/I.S.2/A440-05	2005	ASTM E1886	2002	ASTM E1996	2002	ASTM E330	2002
Standard	Year										
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

## Product Approval Method

Method 1 Option D

Date Submitted

06/13/2015

Date Validated

06/28/2015

Date Pending FBC Approval

07/05/2015

Date Approved

08/18/2015

## Summary of Products

FL #	Model, Number or Name	Description
7630.1	a. "FiberClassic", "SmoothStar", "ClassicCraft" and "ClassicCraft Rustic"	8'0 "Impact" Glazed Fiberglass Single Door - Inswing or Outswing configuration (X)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> Yes <b>Design Pressure:</b> N/A <b>Other:</b> See INST 7630.1 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For FiberClassic and SmoothStar doors, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		<b>Installation Instructions</b> <a href="#">FL7630_R6_II_INST 7630.1.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL7630_R6_AE_EVAL 7630.1.pdf</a> Created by Independent Third Party: Yes
7630.2	b. "FiberClassic", "SmoothStar", "ClassicCraft" and "ClassicCraft Rustic"	8'0 "Impact" Glazed Fiberglass Single Door with sidelite - Inswing or Outswing configuration (OX or XO)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> Yes <b>Design Pressure:</b> N/A <b>Other:</b> See INST 7630.2 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For FiberClassic and SmoothStar doors and sidelites, this product approval requires the use of "J" part numbers for these doors and sidelites, which have been stained or painted within six months of installation.)		<b>Installation Instructions</b> <a href="#">FL7630_R6_II_Inst 7630.2.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL7630_R6_AE_EVAL 7630.2.pdf</a> Created by Independent Third Party: Yes
7630.3	c. "FiberClassic", "SmoothStar", "ClassicCraft" and "ClassicCraft Rustic"	8'0 "Impact" Glazed Fiberglass Single Door with sidelites - Inswing or Outswing configuration (OXO)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> Yes <b>Design Pressure:</b> N/A <b>Other:</b> See INST 7630.3 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For FiberClassic and SmoothStar doors and sidelites, this product approval requires the use of "J" part numbers for these doors and sidelites, which have been stained or painted within six months of installation.)		<b>Installation Instructions</b> <a href="#">FL7630_R6_II_Inst 7630.3.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL7630_R6_AE_EVAL 7630.3.pdf</a> Created by Independent Third Party: Yes
7630.4	d. "FiberClassic", "SmoothStar", "ClassicCraft" and "ClassicCraft Rustic"	8'0 "Impact" Glazed Fiberglass Double Door - Inswing or Outswing configuration (XX)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> Yes <b>Design Pressure:</b> N/A <b>Other:</b> See INST 7630.4 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For FiberClassic and SmoothStar doors, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		<b>Installation Instructions</b> <a href="#">FL7630_R6_II_INST 7630.4.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL7630_R6_AE_EVAL 7630.4.pdf</a> Created by Independent Third Party: Yes
7630.5	e. "FiberClassic", "SmoothStar", "ClassicCraft" and "ClassicCraft Rustic"	8'0 "Impact" Glazed Fiberglass Double Door with sidelites - Inswing or Outswing configuration (OXXO)
<b>Limits of Use</b> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes		<b>Installation Instructions</b> <a href="#">FL7630_R6_II_Inst 7630.5.pdf</a> Verified By: Lyndon F. Schmidt, P.E. 43409

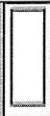


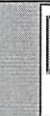
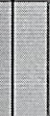
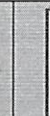
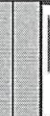
I.D.  
PRODUCT



# GLAZING OPTION & ENERGY PERFORMANCE

C

IDENTIFY THE GLAZING OPTION

NFRC Size Designation		Full Lite >1100 in2				3/4 Lite <=1100 in2		
Glass designs								
Classic-Craft® Rustic Collection™								
<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			
	Low-E	X	X		X			
1" IG 2B Low-E		.27 / .16 02382-00001	.27 / .16 02382-00001		.27 / .16 02382-00001			
	Low-E	X	X		X			
1" IG Triple Pane		.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**  
**INSWING / OUTSWING**  
**"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.

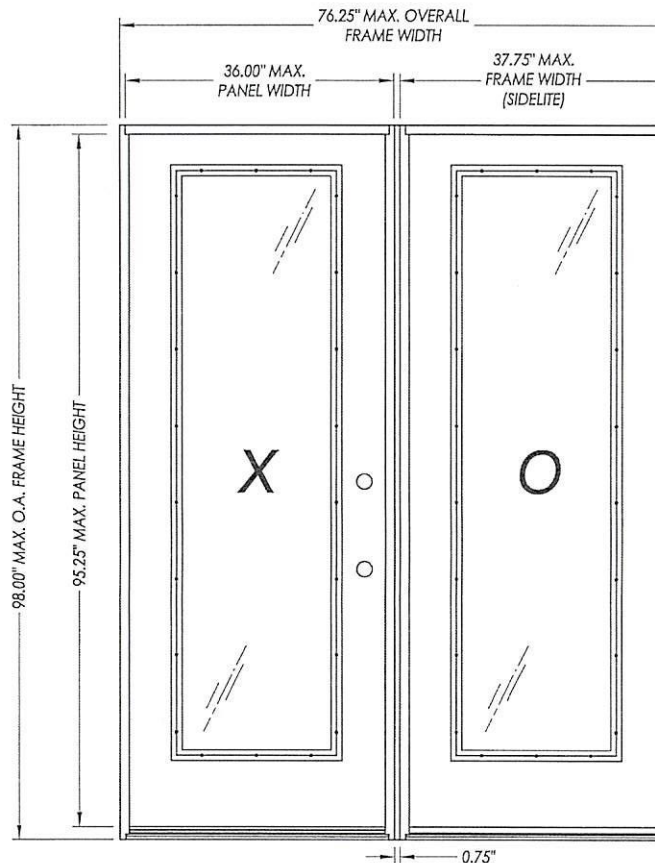
When used in areas requiring wind borne debris protection this product complies with Section 603 of the FBC and does not require an impact resistant covering. This product meets missile resistance and includes Wind Zone 4 as defined in ASTM E 1996 and Section 1609.1.2.2 of the FBC.

For masonry framing construction, anchoring of these units shall be the same as that shown for 2x4 masonry construction.

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

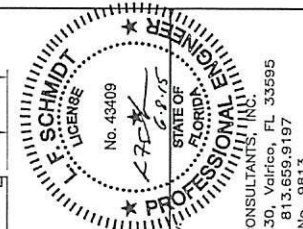
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5	Horizontal cross sections
6	Vertical cross sections
7	Vertical cross sections
8	Buck & frame anchoring - 2X buck masonry construction
9	Frame anchoring - 1X buck masonry construction
10	Components
11	Bill of Materials



**"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
INSWING	76.25" x 98.00"	21.00" x 78.75"	+50.0	-50.0
OUTSWING	76.25" x 96.75"	21.00" x 78.75"	+50.0	-50.0

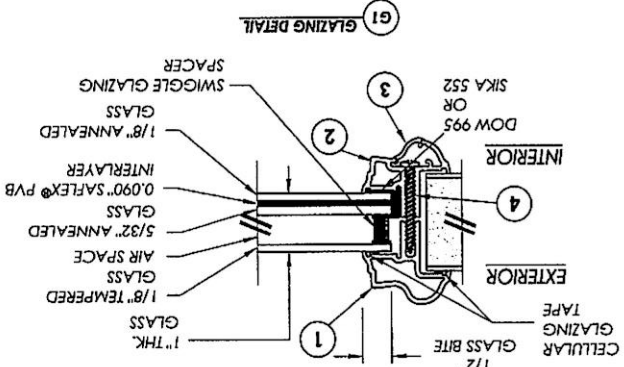
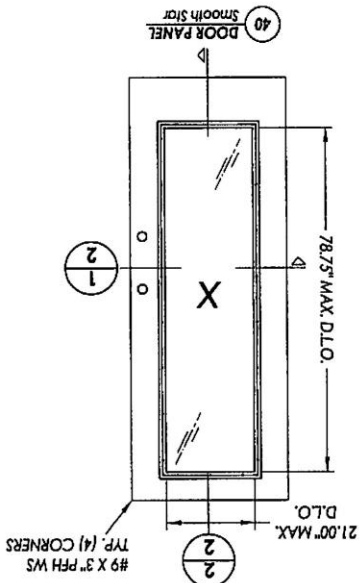
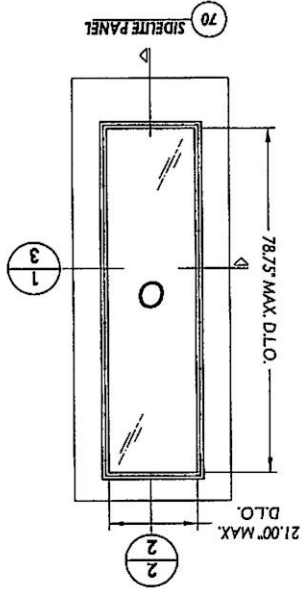


Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409

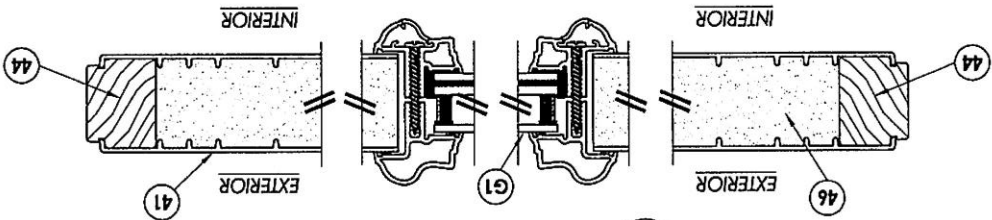
PRODUCT: THERMA-TRU  
GLAZED FIBERGLASS DOOR  
PART OR ASSEMBLY:  
TYPICAL ELEVATION, DESIGN  
PRESSURES & GENERAL NOTES

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

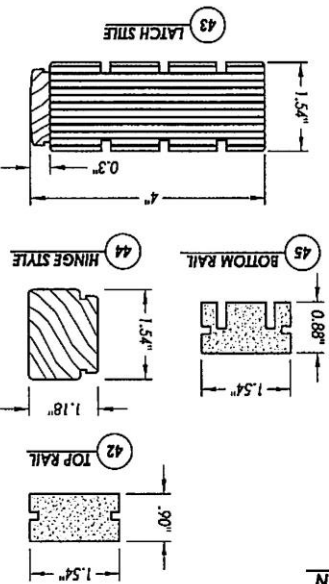
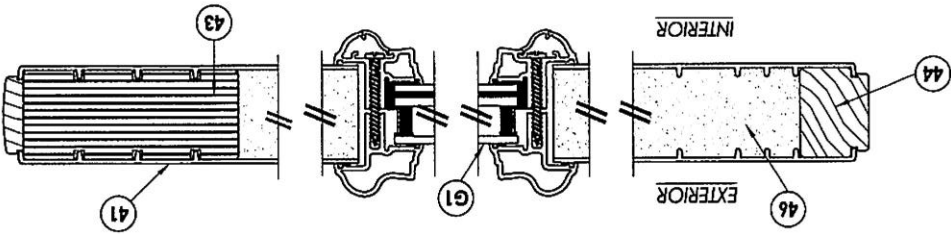
DATE: 5/20/08  
SCALE: N.T.S.  
DWG. BY: AL  
CHK. BY: LFS  
DRAWING NO.: FL-7630.2



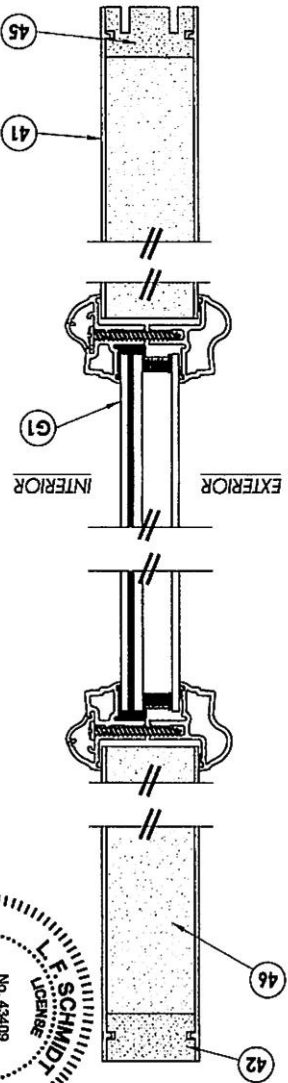
1 3 HORIZONTAL CROSS SECTION

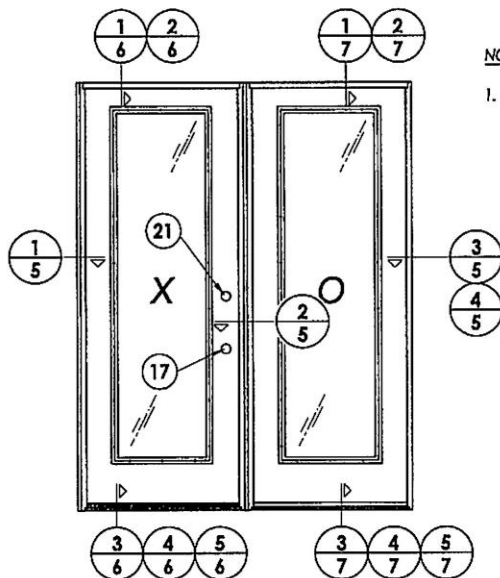


1 2 HORIZONTAL CROSS SECTION



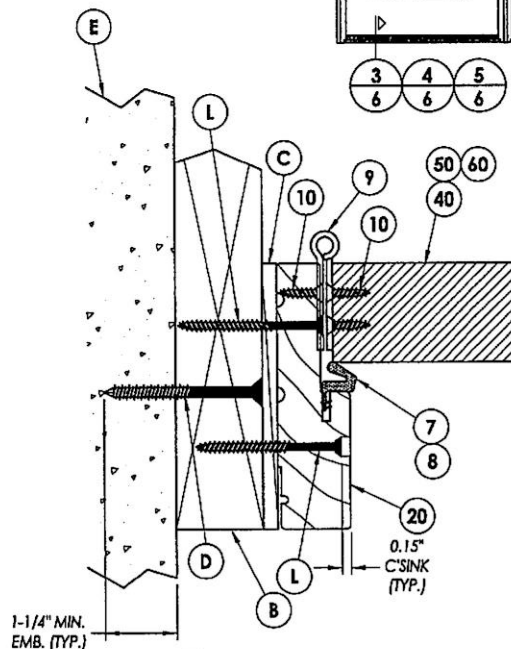
2 2 VERTICAL CROSS SECTION



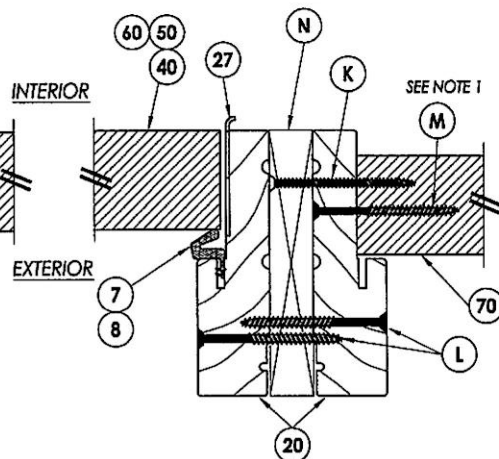


**NOTE:**

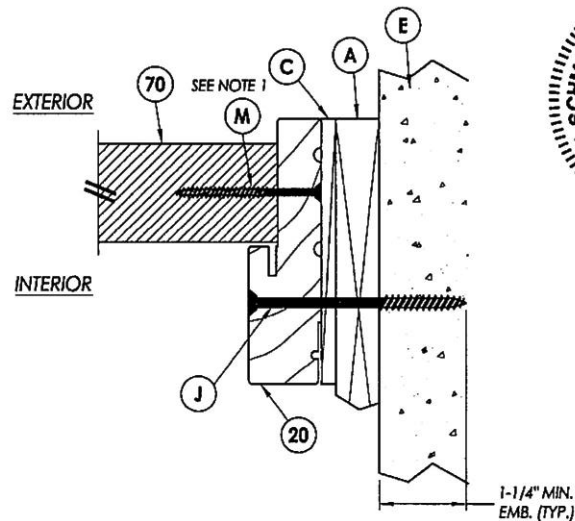
1. Sidelite assembly screws located at 6" from each end and 6 more screws equally spaced (8 screws total per jamb).



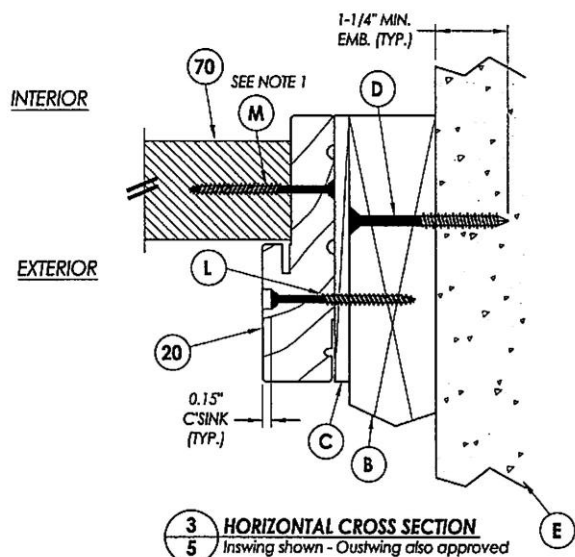
**1**  
**5** **HORIZONTAL CROSS SECTION**  
Inswing shown - Outswing also approved



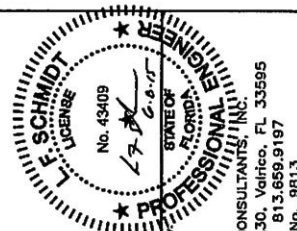
**2**  
**5** **HORIZONTAL CROSS SECTION**  
Inswing shown - Outswing also approved



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



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



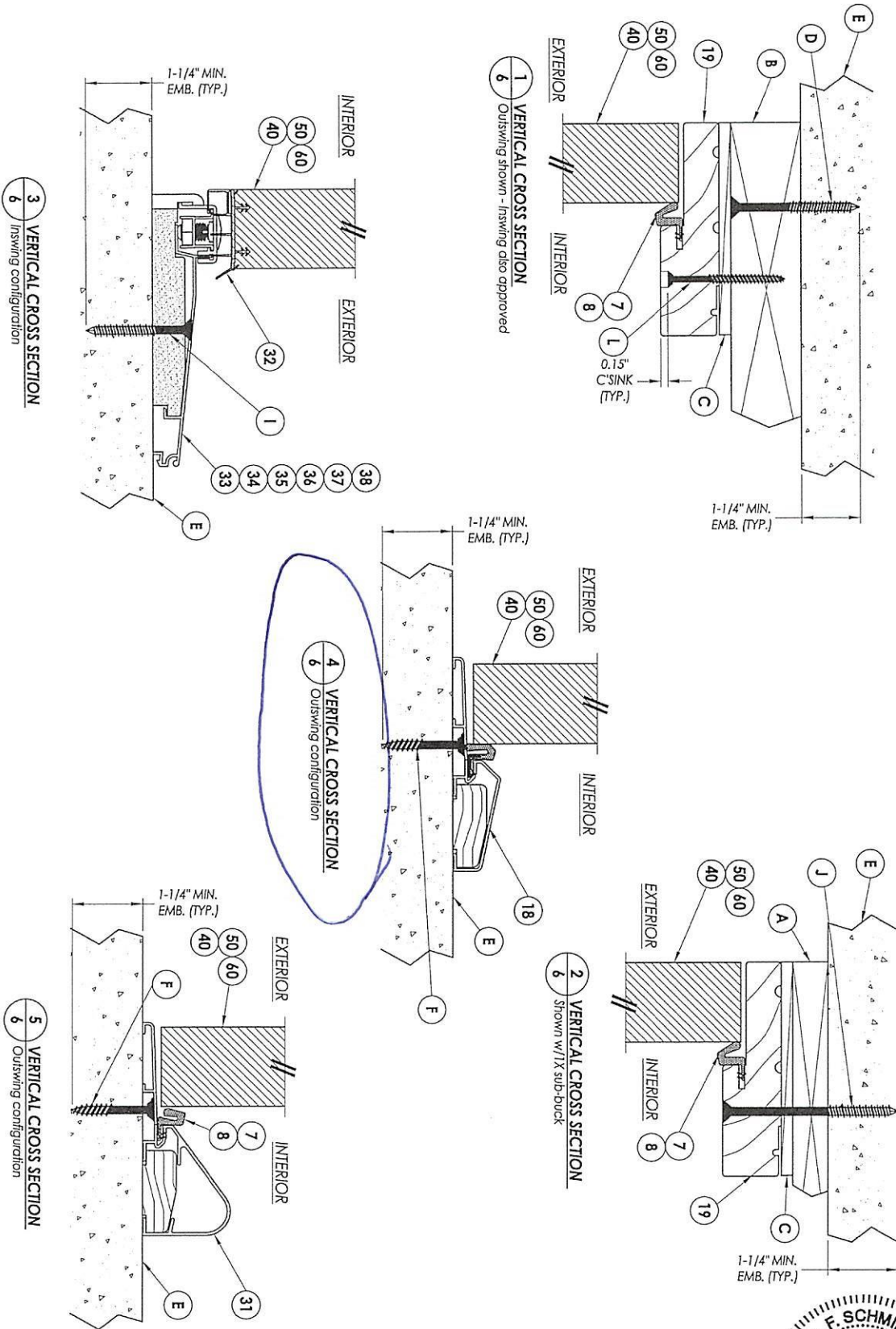
Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409  
R.W. BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.889.9197  
FBPE C.A. No. 9813

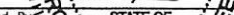

PRODUCT: THERMA-TRU  
GLAZED FIBERGLASS DOOR  
PART OR ASSEMBLY: HORIZONTAL  
CROSS SECTIONS

NO.	DATE	REVISIONS
1	6/4/15	CORRECT B.O.M.
2	1/29/15	UPDATE TO 5TH ED. (2014) FBC
3	8/11/12	UPDATE TO 2010 FBC
4		
5		

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

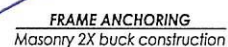




				<b>PRODUCT:</b> THERMA-TRU GLAZED FIBERGLASS DOOR		Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409			
				<b>PART OR ASSEMBLY:</b> VERTICAL CROSS SECTIONS				BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE C.A. No. 9813	







**INSTALLATION NOTES:**



**PRODUCT:** THERMA-TRU  
GLAZED FIBERGLASS DOOR


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


**R<sup>2</sup>W** BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE C.A. No. 9813

**PART OR ASSEMBLY:**  
BUCK & FRAME ANCHORING 2X  
BUCK MASONRY CONSTRUCTION

9 R.W. BUILDING CONSULTANTS INC.

BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
A	1X BLUCK SG >= 0.55	WOOD
B	2X BLUCK SG >= 0.55	WOOD
C	MAX. 1/4" SHIM SPACE	WOOD
D	1/4" X 2-3/4" PHH ELCO OR PHH CONCRETE SCREW	STEEL
E	MASSONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	1/4" X 1-3/4" PHH PHH CONCRETE SCREW	STEEL
H	1/4" X 3-1/4" PHH PHH CONCRETE SCREW	STEEL
I	1/4" X 2-1/4" PHH PHH CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PHH PHH CONCRETE SCREW	STEEL
K	#8 X 2-1/2" PHH WOOD SCREW	STEEL
L	#10 X 2-1/2" PHH WOOD SCREW	STEEL
M	#9 X 2-1/2" PHH WOOD SCREW	WOOD
N	1X MULTION REINFORCEMENT (SG >= 0.42)	WOOD
1	EXTERIOR LITE FRAME	ALUMINUM
2	INTERIOR LITE FRAME	ALUMINUM
3	LITE FRAME TRIM	PVC
4	#10 X 1-1/2" PHH SCREW	STEEL
7	MEDIUM REACH COMPRESSION WEATHERSTRIP	FOAM
8	LONG REACH COMPRESSION WEATHERSTRIP	FOAM
9	4" X 4" HINGE .097" THK.	STEEL
10	#10 X 3/4" PHH WOOD SCREW (HINGE TO FRAME)	STEEL
12	#10 X 2" PHH WOOD SCREW	STEEL
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 SIDEITE ADAPTERS	PVC
23	OUTSWING SIDEITE 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 &gt;= 0.42)

<b>PRODUCT:</b> THERMA-TRU GLAZED FIBERGLASS DOOR		<b>Documents Prepared By:</b> Lyndon F. Schmidt P.E. No. 43409	
<b>PART OR ASSEMBLY:</b> BILL OF MATERIALS		<b>BUILDING CONSULTANTS, INC.</b> P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE C.A. No. 9813	
<div style="text-align: right;">  </div>			
<b>REVISIONS</b>			
NO.	DATE	DESCRIPTION	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
<b>DATE:</b> 5/20/08 <b>SCALE:</b> N.T.S. <b>DWG. BY:</b> AL <b>CHK. BY:</b> LFS <b>DRAWING NO.:</b> FL-7630.2 <b>SHEET</b> 11 of 11			

- SAMPLE -

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**Product Approval**  
USER: Public User

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

TYPICAL  
WINDOW  
SUBMITTAL

OFFICE OF THE  
SECRETARY

FL #  
Application Type  
Code Version  
Application Status

FL1435-R19  
Revision  
2014  
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  
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Technical Representative  
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(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. Urlich, 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> <b>Approved for use in HVHZ:</b> No <b>Approved for use outside HVHZ:</b> Yes <b>Impact Resistant:</b> Yes <b>Design Pressure:</b> N/A <b>Other:</b> 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

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Product Approval Accepts:



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## NFRC Report


Will show ENERGY PERFORMANCE AND DESIGN PRESSURES

Sales Order # 1076463

PO Number: KNIGHT

Job Name: NONE

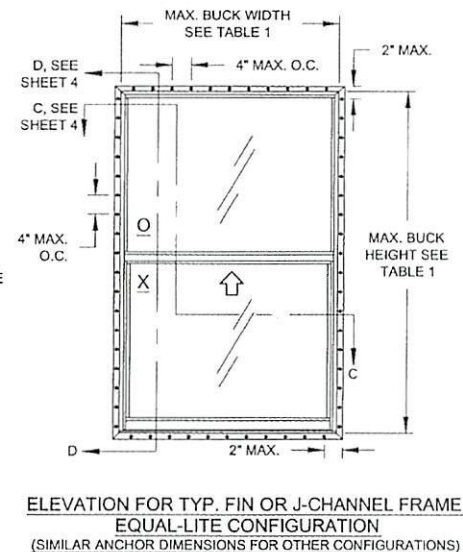
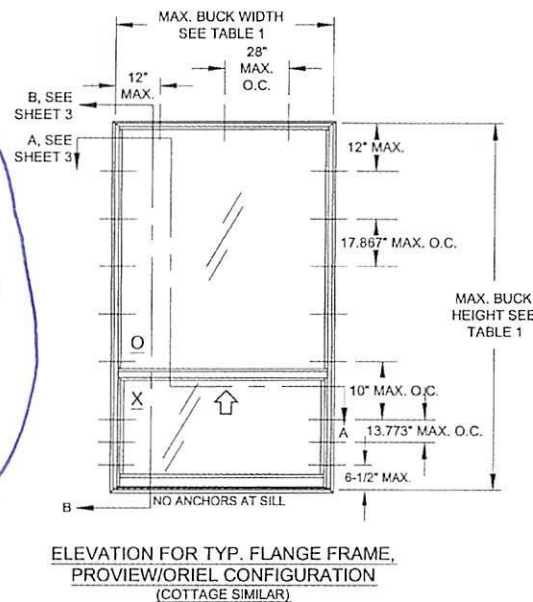
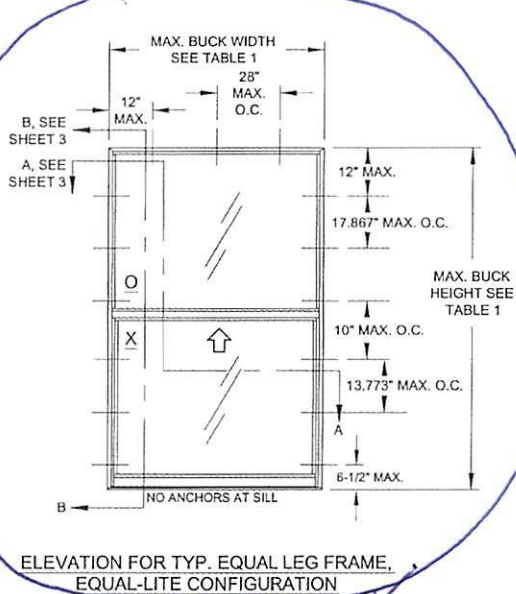
Job Address:

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>		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

Print Date 9/5/2017

Page 1 of 6

IDENTIFY THE APPLICATION FOR THIS PERMIT



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\"
- 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\"
- 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				
52-1/8"	84"	Equal-lite	R2	65.0	70.0	190-286, 1029
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.



Rev 1	Rev 2	Rev 3	Rev 4	Rev 5	Rev 6	Rev 7	Rev 8	Rev 9	Rev 10	Rev 11	Rev 12	Rev 13	Rev 14	Rev 15	Rev 16	Rev 17	Rev 18	Rev 19	Rev 20
Title: VINYL SH WINDOW FPA (IMP.-RESIST.)										Date: 12/13/14									
GENERAL NOTES & ELEVATIONS										Drawn By: J ROSOWSKI									
Rev 1										Rev 2									
Date										Date									

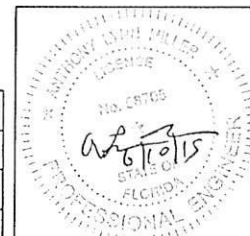




TABLE 2: ANCHORS INSTALLED THROUGH FRAME

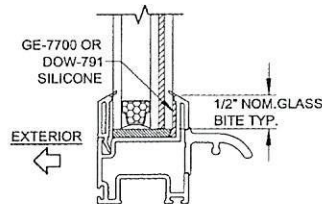
Anchor	Substrate	Min. Edge Distance	Min. Embedment
#10 SMS (steel, 18-8 S.S. or 410 S.S.) Max. DP of 50.0	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
	Steel, A36	3/8"	0.050"
	Steel Stud, A653 Gr. 33	3/8"	0.0346" (20 Ga.)
	Aluminum, 6063-T5	3/8"	0.0713" (14 Ga.)
#12 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. 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)	9/16"	2-7/16"
2-1/2" x .145" Ring-shank Nail	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)	9/16"	2-7/16"
2-1/2" x .145" Roofing Nail	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)	9/16"	2-7/16"
#10 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=.55)	3/4"	1-3/8"
	Aluminum, 6063-T5	3/8"	0.0713" (14 Ga.)
	Steel Stud, Gr. 33	3/8"	0.0346" (20 Ga.)
	Steel, A36	3/8"	0.050"

ANCHOR NOTES:

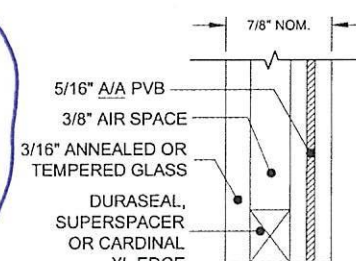
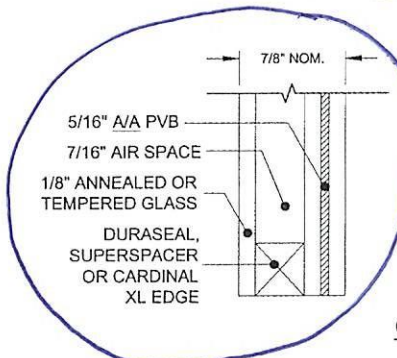
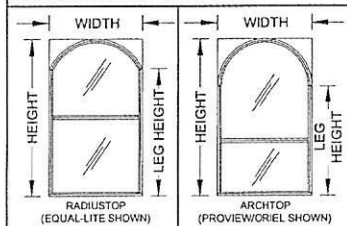
- 1) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
- 2) PANHEAD, FLATHEAD OR HEXHEAD ARE ACCEPTABLE.
- 3) ANCHOR LENGTH TO BE SO THAT A MIN. OF 3 THREADS EXTEND BEYOND THE METAL SUBSTRATE.



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

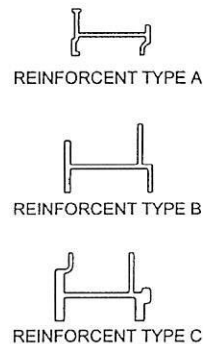


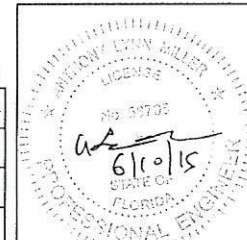
TABLE 4: REINFORCEMENT TYPES

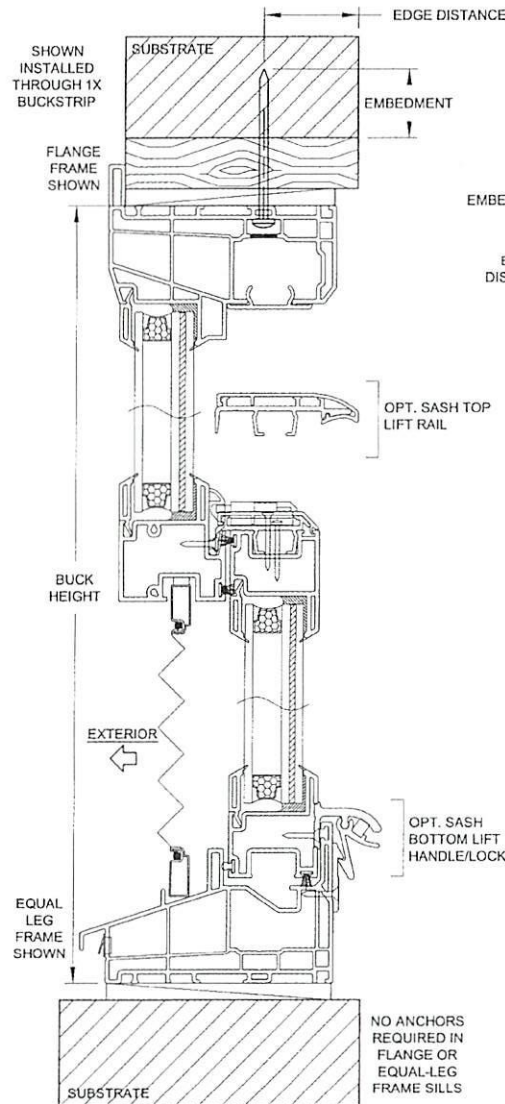
Level	Reinforcement			
	Upper Lite	Lower Lite		
	Bottom Rail	Top Rail	Bottom Rail	Side Rails
R1	B	A	A	A
R2	C	A	A	A



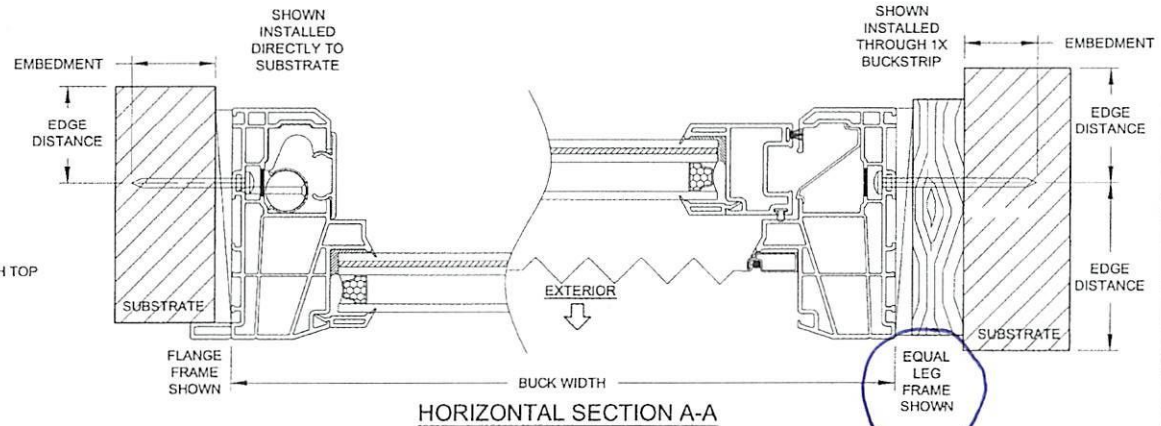
PVB INTERLAYER MANUFACTURED BY DUPONT INC. (AKA KURARAY AMERICA, INC.)

Rev 1	Desc.	VINYL SH WINDOW FPA (IMP.-RESIST.)	Date	12/13/14
Rev 2	Desc.	GLASS/ANCHOR OPTIONS	Drawn By	J ROSOWSKI
Rev 3	Desc.		Date	
Rev 4	Desc.		Date	

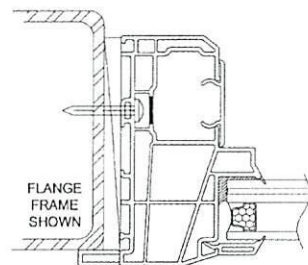




VERTICAL SECTION B-B



HORIZONTAL SECTION A-A



INSTALLATION THROUGH THE FRAME, INTO METAL

INSTALLATION NOTES:

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

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

SH-5500	NTS	3 OF 4	FPA-5500.0
Serial No.	Rev. 1	Rev. 2	Rev. 3
SH-5500	NTS	3 OF 4	FPA-5500.0
Serial No.	Rev. 1	Rev. 2	Rev. 3

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