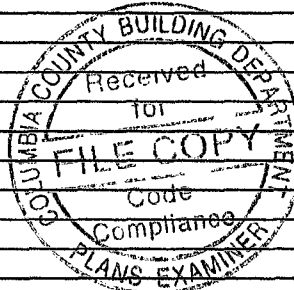


PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products.

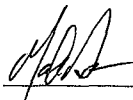
Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING	Bulldog Hardware Inc	Exterior Doors	FL 13158-R1
B. SLIDING			
C. SECTIONAL			
D. ROLL UP	CHI Door Company	GARAGE DOORS	FL 15074
E. AUTOMATIC			
F. OTHER			
2. WINDOWS			
A. SINGLE HUNG	PGT	SER 2100 WHITE	FL 1435 R11
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. DOUBLE HUNG			
E. FIXED			
F. AWNING			
G. PASS THROUGH			
H. PROJECTED			
I. MULLION			
J. WIND BREAKER			
K. DUAL ACTION			
L. OTHER			
3. PANEL WALL			
A. SIDING	Broco	Broco STUCCO	
B. SOFFITS			
C. EIFS			
D. STOREFRONTS			
E. CURTAIN WALLS			
F. WALL LOUVER			
G. GLASS BLOCK			
H. MEMBRANE			
I. GREENHOUSE			
J. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	GAF	Asphalt Shingles	FL 10124-R9
B. UNDERLAYMENTS	Woodland	Asphalt underlayments	FL 1814-R6
C. ROOFING FASTENERS			
D. NON-STRUCTURAL METAL ROOFING			
E. WOOD SHINGLES AND SHAKES			
F. ROOFING TILES			
G. ROOFING INSULATION			
H. WATERPROOFING			
I. BUILT UP ROOFING ROOF SYSTEMS			
J. MODIFIED BITUMEN			
K. SINGLE PLY ROOF SYSTEMS			
L. ROOFING SLATE			
M. CEMENTS-ADHESIVES COATINGS			



Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
----------------------	--------------	---------------------	--------------------

N. LIQUID APPLIED ROOF SYSTEMS			
O ROOF TILE ADHESIVE			
P SPRAY APPLIED POLYURETHANE ROOF			
Q. OTHER			
5. SHUTTERS			
A ACCORDION			
B. BAHAMA			
C. STORM PANELS			
D. COLONIAL			
E ROLL-UP			
F EQUIPMENT			
G. OTHERS			
6. SKYLIGHTS			
A SKYLIGHT			
B OTHER			
7. STRUCTURAL COMPONENTS			
A. WOOD CONNECTORS/ ANCHORS			
B. TRUSS PLATES			
C ENGINEERED LUMBER			
D. RAILING			
E. COOLERS-FREEZERS			
F CONCRETE ADMIXTURES			
G. MATERIAL			
H. INSULATION FORMS			
I. PLASTICS			
J. DECK-ROOF			
K WALL			
L. SHEDS			
M. OTHER			
8. NEW EXTERIOR ENVELOPE PRODUCTS			
A.			
B.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements. Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.



APPLICANT SIGNATURE

7-24-2013

DATE



Florida Department of
Business & Professional
Regulation

License efficiently. Regulate fairly.

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

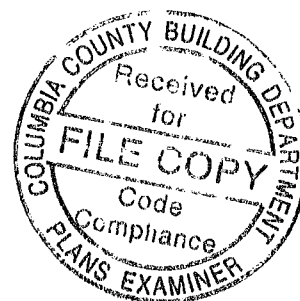


Product Approval
USER Public User

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



FL #	FL10124-R9										
Application Type	Revision										
Code Version	2010										
Application Status	Approved										
Comments											
Archived	☐										
Product Manufacturer	GAF										
Address/Phone/Email	1361 Alps Road Wayne, NJ 07470 (973) 872 4421 lindareith@trinityerd.com										
Authorized Signature	Beth McSorley lindareith@trinityerd.com										
Technical Representative	Beth McSorley										
Address/Phone/Email	1361 Alps Road Bldg 11-1 Wayne, NJ 07470 (973) 872-4421 BMcSorley@gaf.com										
Quality Assurance Representative											
Address/Phone/Email											
Category	Roofing										
Subcategory	Asphalt Shingles										
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☒ Evaluation Report - Hardcopy Received										
Florida Engineer or Architect Name who developed the Evaluation Report	Robert Nieminen										
Florida License	PE-59166										
Quality Assurance Entity	UL LLC										
Quality Assurance Contract Expiration Date	05/03/2014										
Validated By	John W Knezevich, PE ☐ Validation Checklist - Hardcopy Received										
Certificate of Independence	FL10124_R9_COI_Trinity_ERD_CI_Nieminen - 2013.pdf										
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>ASTM D3161 (Class F)</td> <td>2006</td> </tr> <tr> <td>ASTM D3462</td> <td>2007</td> </tr> <tr> <td>ASTM D7158 (Class H)</td> <td>2007</td> </tr> <tr> <td>TAS 107</td> <td>1995</td> </tr> </tbody> </table>	<u>Standard</u>	<u>Year</u>	ASTM D3161 (Class F)	2006	ASTM D3462	2007	ASTM D7158 (Class H)	2007	TAS 107	1995
<u>Standard</u>	<u>Year</u>										
ASTM D3161 (Class F)	2006										
ASTM D3462	2007										
ASTM D7158 (Class H)	2007										
TAS 107	1995										
Equivalence of Product Standards											



Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

02/20/2013

Date Validated

02/26/2013

Date Pending FBC Approval

02/27/2013

Date Approved

04/09/2013

Summary of Products

FL #	Model, Number or Name	Description
10124.1	GAF Asphalt Roof Shingles	Fiberglass reinforced 3-tab, laminated, 5-tab and hip/ridge asphalt shingles
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: Refer to ER, Section 5		Installation Instructions FL10124 R9 II er022613FINAL GAF Asphalt Shingles FL10124 R9.pdf Verified By Robert Nieminen PE-59166 Created by Independent Third Party Yes Evaluation Reports FL10124 R9 AE er022613FINAL GAF Asphalt Shingles FL10124 R9.pdf Created by Independent Third Party Yes

Contact Us [1940 North Monroe Street, Tallahassee FL 32399](#) Phone: 850-487 1824

The State of Florida is an AA/EEO employer [Copyright 2007 2010 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:



EXTERIOR RESEARCH & DESIGN, LLC.

Certificate of Authorization #9503

353 CHRISTIAN STREET, UNIT #13

OXFORD, CT 06478

PHONE: (203) 262-9245

FAX: (203) 262-9243

EVALUATION REPORT

GAF

1361 Alps Road, Building 7-3

Wayne, NJ 07470

Evaluation Report 01506.01.08-R11

FL10124-R9

Date of Issuance: 01/03/2008

Revision 11: 02/26/2013

SCOPE:

This Evaluation Report is issued under Rule 9N-3 and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code and Florida Building Code, Residential Volume. The products described herein have been designed to comply with the 2010 Florida Building Code sections noted herein.

DESCRIPTION: GAF Asphalt Roof Shingles

LABELING: Each unit shall bear labeling in accordance with the requirements the Accredited Quality Assurance Agency noted herein.

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. if the product changes or the referenced Quality Assurance documentation changes. Trinity|ERD requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Evaluation Report number preceded by the words "Trinity|ERD Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

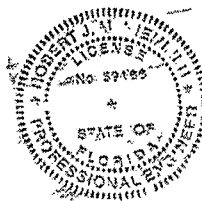
INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 5.

Prepared by:

Robert J.M. Nieminen, P.E.

Florida Registration No. 59166, Florida DCA ANE1983



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 02/26/2013. This does not serve as an electronically signed document. Signed, sealed hardcopies have been transmitted to the Product Approval Administrator and to the named client.

CERTIFICATION OF INDEPENDENCE:

1. Trinity|ERD does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates
2. Trinity|ERD is not owned, operated or controlled by any company manufacturing or distributing products it evaluates
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product



ROOFING SYSTEMS EVALUATION:

1. SCOPE:

Product Category: Roofing

Sub-Category: Asphalt Shingles

Compliance Statement: GAF Asphalt Roof Shingles, as produced by GAF, have demonstrated compliance with the following sections of the Florida Building Code and Florida Building Code, Residential Volume through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

<u>Section</u>	<u>Property</u>	<u>Standard</u>	<u>Year</u>
1507.2 5, R905 2.4	Physical Properties	ASTM D3462	2007
1507.2 7.1, R905 2.6 1	Wind Resistance	ASTM D3161, Class F	2006
1507.2.7.1, R905 2 6 1	Wind Resistance	ASTM D7158, Class H	2007
1507.2 7.1, R905 2 6 1	Wind Resistance	TAS 107	1995

3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
GAF (PDM 1915)	Letter of Equivalency	Seal-A-Ridge Impact Resistant IR	01/13/2012
PRI (TST 5878)	ASTM D3462	GAF-059-02-01	09/02/2004
PRI (TST 5878)	ASTM D3462	GAF-080-02-01	05/25/2005
PRI (TST 5878)	Wind Driven Rain	GAF-407-02-01	01/21/2013
UL (TST 1740)	ASTM D3462	93NK6295	11/29/1993
UL (TST 1740)	ASTM D3462	99NK43835	01/12/2000
UL (TST 1740)	TAS 107	94NK9632	03/29/2000
UL (TST 1740)	ASTM D3462	01NK06632	02/02/2001
UL (TST 1740)	ASTM D3161, TAS 107	01NK9226	05/21/2001
UL (TST 1740)	ASTM D3161	01NK37122	12/18/2001
UL (TST 1740)	ASTM D3462	01NK37122	12/19/2001
UL (TST 1740)	ASTM D3161, TAS 107	02NK12980	04/10/2002
UL (TST 1740)	ASTM D3161, TAS 107	02NK30871	09/09/2002
UL (TST 1740)	ASTM D3161	03CA5367	03/11/2003
UL (TST 1740)	ASTM D3462	03NK26444	10/17/2003
UL (TST 1740)	ASTM D3462	04NK13850	06/07/2004
UL (TST 1740)	ASTM D3161	04NK13850	06/23/2004
UL (TST 1740)	ASTM D3161	04NK30546	03/10/2005
UL (TST 1740)	ASTM D3462	04NK22009	05/06/2005
UL (TST 1740)	ASTM D3161	04NK22009	05/09/2005
UL (TST 1740)	ASTM D3462	05NK27924	02/10/2006
UL (TST 1740)	ASTM D3161	05NK27924	02/11/2006
UL (TST 1740)	ASTM D3161, D3462	06CA18077	06/05/2006
UL (TST 1740)	ASTM D3161, D3462	06CA18074	06/16/2006
UL (TST 1740)	ASTM D3161, D3462	06CA35251	10/18/2006
UL (TST 1740)	ASTM D3462	06CA31603	12/01/2006
UL (TST 1740)	ASTM D3161, D3462	06CA41095	12/27/2006
UL (TST 1740)	ASTM D3161	07NK05228	03/13/2007
UL (TST 1740)	ASTM D3161	06CA31611	04/04/2007
UL (TST 1740)	ASTM D3161	06CA61148	04/09/2007
UL (TST 1740)	ASTM D3161, D3462	07CA31742	11/08/2007
UL (TST 1740)	ASTM D3161, D7158, D3462	08CA06100	03/13/2008
UL (TST 1740)	ASTM D3161, D3462	07CA55908	04/01/2008
UL (TST 1740)	ASTM D3161, D3462	09CA10592	03/26/2009
UL (TST 1740)	ASTM D3161, D3462	09CA06856	05/15/2009
UL (TST 1740)	ASTM D3161, D7158, D3462	09NK06647	08/01/2009
UL (TST 1740)	ASTM D3161, D7158, D3462	09CA27281	08/27/2009
UL (TST 1740)	ASTM D3161, D7158, D3462	10CA35554	03/05/2010
UL (TST 1740)	ASTM D3161, D7158, D3462	10CA13686	05/15/2010
UL (TST 1740)	ASTM D3462	10CA07264	05/27/2010
UL (TST 1740)	ASTM D3462	10CA11953	10/29/2010
UL (TST 1740)	ASTM D3161, D7158, D3462	10NK11951	10/30/2010
UL (TST 1740)	ASTM D3161, D7158, D3462	10NK12070	11/04/2010
UL (TST 1740)	ASTM D3161, D7158, D3462	08CA06100	01/30/2010



<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
UL (TST 1740)	ASTM D3161, D7158, D3462	10CA53934	03/31/2011
UL (TST 1740)	ASTM D3161, D7158, D3462	11CA48924	10/22/2011
UL (TST 1740)	ASTM D3161, D7158, D3462	11CA47919	12/03/2011
UL (TST 1740)	ASTM D3161, D7158, D3462	11CA48408	12/08/2011
UL (TST 1740)	ASTM D3161, D7158, D3462	11CA48725	12/09/2011
UL, LLC. (TST 9628)	ASTM D3462	12CA34891	10/12/2012
UL, LLC. (TST 9628)	ASTM D3161, D7158, D3462	12CA58151	02/15/2013
UL, LLC. (QUA 9625)	Quality Control	Inspection Report, File No. R21	08/08/2012
UL, LLC. (QUA 9625)	Quality Control	R3915	Current

4. PRODUCT DESCRIPTION:

- 4.1 Marquis WeatherMax, Royal Sovereign and Sentinel are a fiberglass reinforced, 3-tab asphalt roof shingles.
- 4.2 Camelot, Camelot II / Camelot 30, Capstone, Country Mansion, Country Mansion II, Grand Canyon, Grand Sequoia, Grand Sequoia IR, Grand Slate, Grand Slate II, Monaco, Sienna, Timberline American Harvest, Timberline ArmorShield II, Timberline Natural Shadow, Timberline Natural Shadow Arctic White, Timberline HD / Timberline Prestique 30, Timberline Prestique 40 / Timberline Cool Series, Timberline Ultra HD / Timberline Prestique Lifetime, Timberline Majestic / Timberline Majestic 30 and Woodland are fiberglass reinforced, laminated asphalt roof shingles.
- 4.3 Slateline is a fiberglass reinforced, 5-tab asphalt roof shingle.
- 4.4 Seal-A-Ridge, Seal-A-Ridge Armorshield, Seal-A-Ridge IR, Ridglass 8, Ridglass 10, Ridglass 12 and Timbertex Hip and Ridge are fiberglass reinforced, hip and ridge asphalt roof shingles.
- 4.5 ProStart Starter Strip Shingles and WeatherBlocker Starter Strip Shingles are a starter strips for asphalt roof shingles.

5. LIMITATIONS:

- 5.1 This Evaluation Report is not for use in the HVHZ.
- 5.2 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory for fire ratings of this product.
- 5.3 Wind Classification:
 - 5.3.1 All GAF shingles noted herein are Classified in accordance with FBC Tables 1507.2.7.1 and R905.2.6.1 to ASTM D3161, Class F and/or ASTM D7158, Class H, indicating the shingles are acceptable for us in all wind zones up to $V_{asd} = 150$ mph ($V_{ult} = 194$ mph). Refer to Section 6 for installation requirements to meet this wind rating.
 - 5.3.2 All GAF hip & ridge shingles noted herein are Classified in accordance with FBC Tables 1507.2.7.1 and R905.2.6.1 to ASTM D3161, Class F, indicating the shingles are acceptable for us in all wind zones up to $V_{asd} = 150$ mph ($V_{ult} = 194$ mph). Refer to Section 6 for installation requirements to meet this wind rating.
 - 5.3.3 Classification by ASTM D7158 applies to exposure category B or C and a building height of 60 feet or less. Calculations by a qualified design professional are required for conditions outside these limitations. Contact the shingle manufacturer for data specific to each shingle.
- 5.4 All products in the roof assembly shall have quality assurance audit in accordance with the Florida Building Code and F.A.C. Rule 9N-3.



6. INSTALLATION:

6.1 Underlayment:

- 6.1.1 Underlayment shall be acceptable to GAF and shall hold current Florida Statewide Product Approval, or be Locally Approved per Rule 9N-3, per FBC Sections 1507.2.3, 1507.2.4 or R905.2.3.

6.2 Starter Shingles:

- 6.2.1 Installation of ProStart Starter Strip Shingles and WeatherBlocker Starter Strip Shingles shall comply with the manufacturer's current published instructions.

6.3 Asphalt Shingles:

- 6.3.1 Installation of asphalt shingles shall comply with the manufacturer's current published instructions, using minimum four (4) nails per shingle in accordance with FBC Sections 1507.2 or R905.2, with the following exceptions:

- Camelot, Camelot II / Camelot 30, Grand Slate II, Country Mansion II, Monaco and Woodland require minimum five (5) fasteners per shingle

- 6.3.2 Fasteners shall be in accordance with manufacturer's published requirements, but not less than FBC 1507.2.6 or R905.2.5. Staples are not permitted.

- 6.3.3 Where the roof slope exceeds 21 units vertical in 12 units horizontal, special methods of fastening are required. Contact the shingle manufacturer for details.

6.4 Hip & Ridge Shingles:

- 6.4.1 Installation of Ridglass 8, Ridglass 10 and Ridglass 12 asphalt shingles shall comply with the manufacturer's current published instructions with a minimum two (2) nails per side [total of four (4) nails per shingle] and asphalt roofing cement.

- 6.4.2 Installation of Seal-A-Ridge, Seal-A-Ridge Armorshield and Seal-A-Ridge IR asphalt shingles shall comply with the manufacturer's current published instructions with a minimum two (2) nails per shingle.

- 6.4.3 Installation of Timbertex Hip and Ridge asphalt shingles shall comply with the manufacturer's current published instructions with a minimum two (2) nails per shingle and beads of Sonneborn NP1 Gun Grade Polyurethane Sealant or Henkel PL Roofing and Flashing Sealant.

- 6.4.4 Fasteners shall be in accordance with the manufacturer's published requirements, but not less than FBC 1507.2.6 or R905.2.5. Staples are not permitted.

7. LABELING:

- 7.1 Each unit shall bear a permanent label with the manufacturer's name, logo, city, state and logo of the Accredited Quality Assurance Agency noted herein.

- 7.2 Asphalt shingle wrappers shall indicate compliance with one of the required classifications detailed in FBC Table 1507.2.7.1 / R905.2.6.1.

8. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction in order to properly evaluate the installation of this product.



9. MANUFACTURING PLANTS:

Contact the named QA entity for information on which plants produce products covered by Florida Rule 9N-3 QA requirements.

10. QUALITY ASSURANCE ENTITY:

UL LLC – QUA9625; (847) 664-3281

- **END OF EVALUATION REPORT** -



Florida Department of
Business &
Professional
Regulation

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



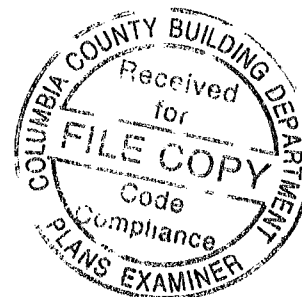
Product Approval
USER Public User

License efficiently. Regulate fairly.

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



FL #	FL1814-R6
Application Type	Revision
Code Version	2010
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	WOODLAND INDUSTRIES, INC
Address/Phone/Email	1520 KALAMAZOO DRIVE GRIFFIN, GA 30224 (770) 228-6102 dina.crownover@gmail.com
Authorized Signature	DINA CROWNOVER dina.crownover@gmail.com
Technical Representative	DINA CROWNOVER
Address/Phone/Email	1520 KALAMAZOO DRIVE GRIFFIN, GA 30224 DPCWOODLAND@AOL.COM
Quality Assurance Representative	
Address/Phone/Email	
Category	Roofing
Subcategory	Underlayments
Compliance Method	Certification Mark or Listing
Certification Agency	Miami-Dade BCCO - CER
Validated By	Miami-Dade BCCO - VAL



Referenced Standard and Year (of Standard)	<u>Standard</u>	<u>Year</u>
	ASTM D 4869	2005
	ASTM D-226	2006
Equivalence of Product Standards Certified By	Approved Certification Agency FL1814_R6_Equiv_Florida_Approval8.pdf FL1814_R6_Equiv_Florida_Approval9.pdf FL1814_R6_Equiv_NOA_new.pdf	

Product Approval Method

Method 1 Option A

Date Submitted

02/14/2012

Date Validated

02/24/2012

Date Pending FBC Approval

Date Approved

02/29/2012

Summary of Products		
FL #	Model, Number or Name	Description
1814.1	# 30 ASTM D 4869 Type I	Asphalt saturated organic felt
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: For use under discontinuous roof i.e. asphalt shingles with slope greater than 2:12		Certification Agency Certificate FL1814_R6_C_CAC_Florida_Approval8.pdf FL1814_R6_C_CAC_Florida_Approval9.pdf Quality Assurance Contract Expiration Date 10/07/2014 Installation Instructions FL1814_R6_II_Florida_Approval8.pdf FL1814_R6_II_Florida_Approval9.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party Evaluation Reports Created by Independent Third Party
1814.2	#15 ASTM D 4869 Type I	Asphalt saturated organic felt
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: For use under discontinuous roof i.e. asphalt shingles with slope greater than 2:12		Certification Agency Certificate FL1814_R6_C_CAC_Florida_Approval8.pdf FL1814_R6_C_CAC_Florida_Approval9.pdf Quality Assurance Contract Expiration Date 10/07/2014 Installation Instructions FL1814_R6_II_Florida_Approval8.pdf FL1814_R6_II_Florida_Approval9.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party Evaluation Reports Created by Independent Third Party
1814.3	#15 ASTM D226 Type I	Asphalt saturated organic felt
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: For use under discontinuous roof i.e. asphalt shingles with slope greater than 2:12		Certification Agency Certificate FL1814_R6_C_CAC_NOA_new.pdf Quality Assurance Contract Expiration Date 04/12/2016 Installation Instructions FL1814_R6_II_NOA_new.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party Evaluation Reports Created by Independent Third Party
1814.4	#30 ASTM D-226 TYPE II	Asphalt saturated organic felt
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: For use under discontinuous roof i.e. asphalt shingles with slope greater than 2:12		Certification Agency Certificate FL1814_R6_C_CAC_NOA_new.pdf Quality Assurance Contract Expiration Date 04/12/2016 Installation Instructions FL1814_R6_II_NOA_new.pdf Verified By: Miami-Dade BCCO - CER Created by Independent Third Party Evaluation Reports Created by Independent Third Party

Back

Next

Contact Us 1940 North Monroe Street, Tallahassee FL 32399 Phone: 850-487-1824

The State of Florida is an AA/EEO employer Copyright 2007-2010 State of Florida Privacy Statement Accessibility Statement Refund Statement

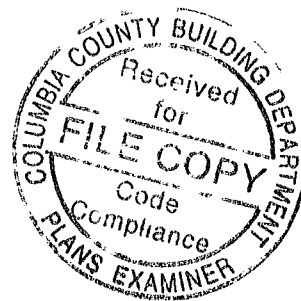
Under Florida law, email addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850-487-1395. *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:



1435.6	SH-2100	Vinyl Single Hung Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see the Installation Instructions for design pressure, size and anchorage information.		Certification Agency Certificate FL1435_R11_C_CAC_Certification.pdf Quality Assurance Contract Expiration Date 01/24/2014 Installation Instructions FL1435_R11_II_SH-2100.pdf Verified By A Lynn Miller, P.E 58705 Created by Independent Thrd Party: No Evaluation Reports FL1435_R11_AE_Prod Eval-SH 2100.pdf Created by Independent Third Party: No



GENERAL NOTES

- 1) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO COMPLY WITH THE FLORIDA BUILDING CODE FOR THE DESIGN PRESSURES LISTED IN THE APPLICABLE PRODUCT TEST REPORTS.
- 2) WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. ATTACHMENT METHOD OF WOOD BUCKS SHALL BE DONE BY OTHERS.
- 3) SEE TABLE 1 FOR MINIMUM EDGE DISTANCE FROM CENTER OF ANCHOR TO SUBSTRATE EDGE (EXCLUDING FINISH OR STUCCO).
- 4) ANCHORS SHALL BE COATED OR CORROSION RESISTANT AS APPROPRIATE FOR SUBSTRATE MATERIAL. DISSIMILAR MATERIALS SHALL BE PROTECTED AS REQUIRED TO PREVENT REACTIONS. ALUMINUM SHALL BE PROTECTED FROM DISSIMILAR MATERIALS AS SPECIFIED IN FLORIDA BUILDING CODE CHAPTER 20.
- 5) ADHESIVE SEALANT SHALL BE USED BETWEEN SUBSTRATE AND FLANGE OR FIN. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS.
- 6) MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE. GLAZING COMPLETES WITH ASTM E1300-04.
- 7) THE 1/3 STRESS INCREASE WAS NOT USED IN THIS ANCHOR EVALUATION. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS.

INSTALLATION NOTES:

- 1) SILL DETAILS SHOWN, BUT ALSO APPLY TO JAMBS AND HEAD.
- 2) SEE TABLE FOR ANCHORAGE, SUBSTRATE AND SPACING REQUIREMENTS.
- 3) MAX. SHIM THICKNESS TO BE 1/4"

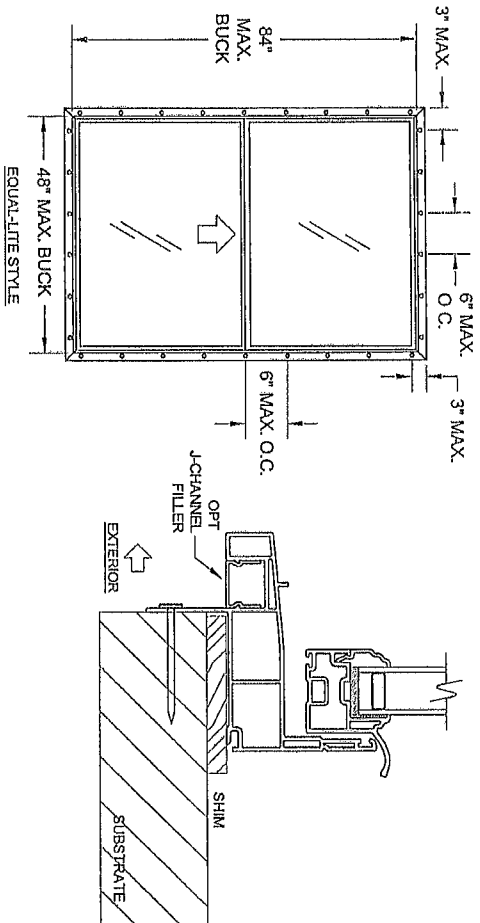
TABLE 1

Anchor Type	Substrate	Min. Edge Dist.	Min. Embedment
1-1/2" x 135° Roofing Nail	Wood (Southern Pine)	3/8"	1-7/16"
#10 Panhead SWS or #9 Trusshead Screw	Wood (Southern Pine)	7/16"	1-3/8"
	Steel Stud Gr 33	3/8"	0-45 (19 GA)
	Aluminum-6063-T5	3/8"	1/8"
	Steel, A36	3/8"	1/8"

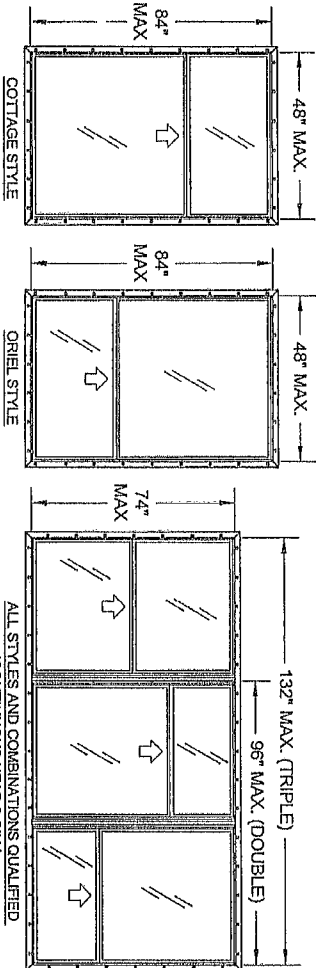
NOTE: FOR ALL METAL SUBSTRATES, SCREW EMBEDMENT SHALL BE MIN 3 THREADS BEYOND INSIDE FACE OF MATERIAL.

TABLE 2:

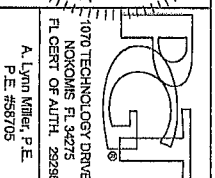
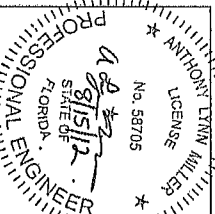
Sash Style	Windows per Unit	Size Width	Height (+) (-)	Design Pressure psf	Required Reinforcement	Certification Number	Test #
Equal Lite	1	36"	74"	50	Full	190-443, 444, 445	79777
Oriel, or Cottage	2	48"	74"	35	Full	190-440, 441, 442	79777
	3	96"	74"	35	Full	190-446, 447, 448	79777
Equal Lite or Oriel	1	36"	84"	50	Full	190-470, 471, 85559	85559
	2	48"	84"	35	Full	190-468, 469, 85559	85559
	3	96"	84"	35	Full	190-472, 85559	6402
Equal Lite	1	44"	64"	35	MR Only	190-492, 6996	6996



QUALIFIED CONFIGURATIONS:
(USE SAME ANCHOR SPACING AS EQUAL-LITE)

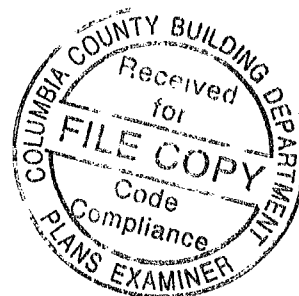


ALL STYLES AND COMBINATIONS QUALIFIED
(CONTINUOUS HEAD & SILL)



Drawn By: J. ROSOWSKI Date: 08/10/12 Project: RIGID PVC
 Checked By: [] Date: []
 Design: []
 Scale: NTS 1 of 1 Drawing No. 103116AR
 Title: SINGLE HUNG INSTALLATION
 Remarks: THE INSTALLATION METHOD SHOWN HEREIN IS A GENERAL GUIDE AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE. THE INSTALLER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. ANY DEVIATION FROM THE METHOD SHOWN HEREIN SHALL BE AT THE INSTALLER'S RISK.

13158.3	c. Fiberglass Door	Up to a nominal 3'0 x 7'0 Non-Impact Opaque Fiberglass Single Door with or without Non Impact Sidelltes - (X, XO or OX, OXO Configurations) Inswing or Outswing
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: See INST 13158.3 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars.		Installation Instructions FL13158_R1_II_Inst 13158.3.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL13158_R1_AE_Eval 13158.3.pdf Created by Independent Third Party: Yes



Builders Hardware Inc.

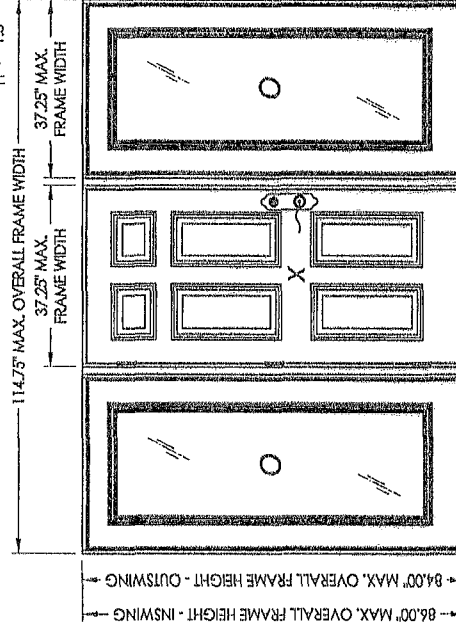
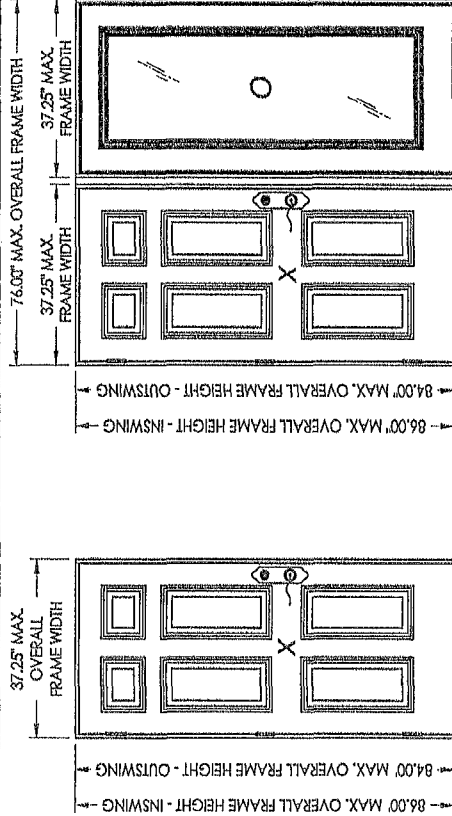
5615 E. POWHATAN AVE
TAMPA, FL 33610

OPAQUE FIBERGLASS SINGLE DOOR W/ OR W/O SIDELITES INSWING / OUTSWING "NON-IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 2010 Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection, this product is required to be protected with an impact resistant covering that complies with Section 1609.1.2 of the FBC.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel details
3	Sidelite panel details
4	Horizontal cross sections
5	Horizontal cross sections
6	Vertical cross sections
7	Vertical cross sections
8	Buck & frame anchoring (X)
9	Buck & frame anchoring (OX / XO)
10	Buck & frame anchoring (OXO)
11	Components
12	Bill of materials & glazing detail



CONFIGURATION	MAX. FRAME DIMENSION	MAX. D.O. DIMENSION	DESIGN PRESSURE (PSF)	
			INSWING	OUTSWING
X	37.25" x 86.00"	21.00" x 62.50"	+55.0	-55.0
OX / XO	76.00" x 86.00"	21.00" x 62.50"	+45.0	-45.0
OXO	114.75" x 86.00"	21.00" x 62.50"	+45.0	-45.0

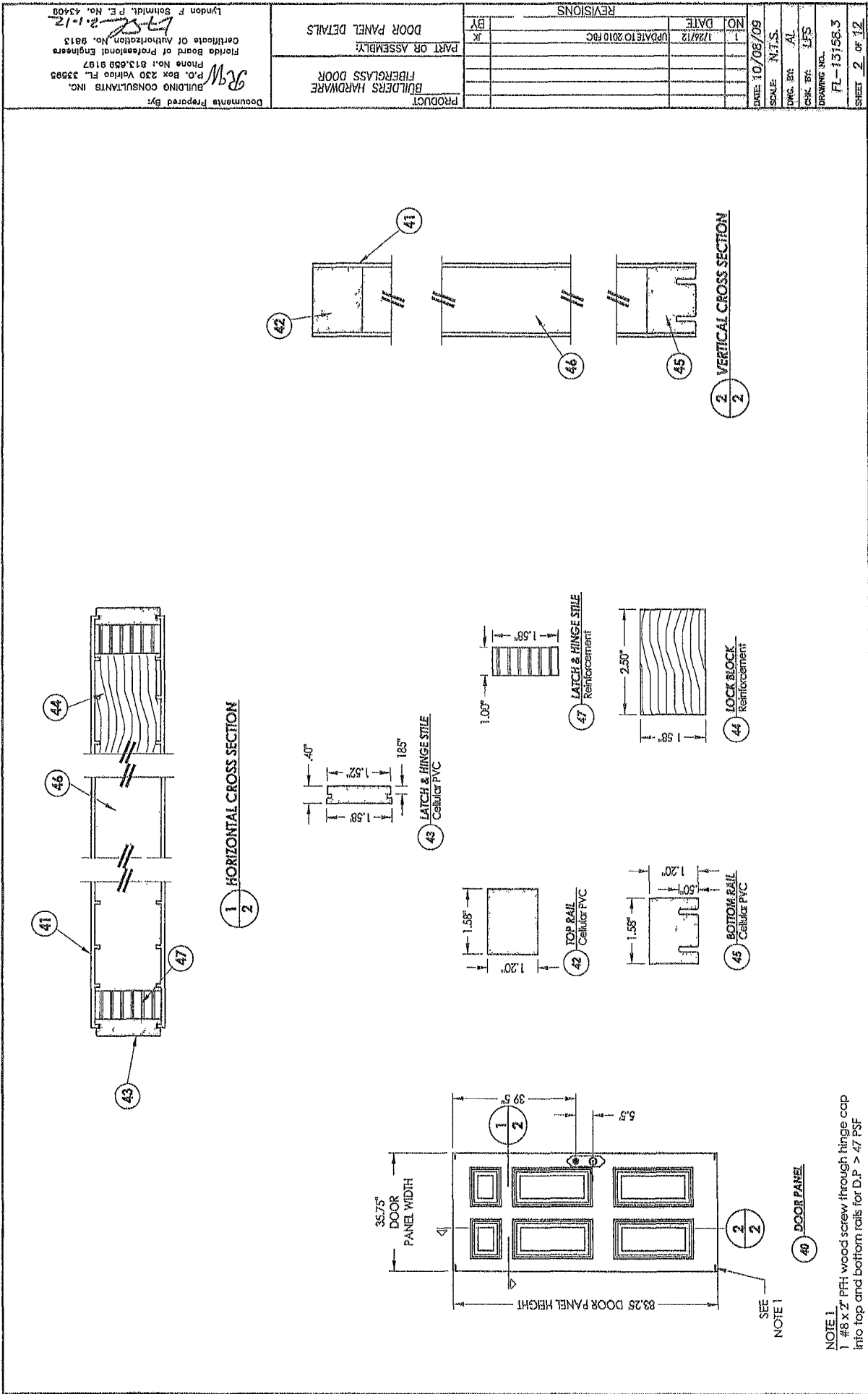
Documents Prepared By: BUILDING CONSULTANTS, INC.
P.O. Box 230 White FL 33595
Phone No: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
2.1.12

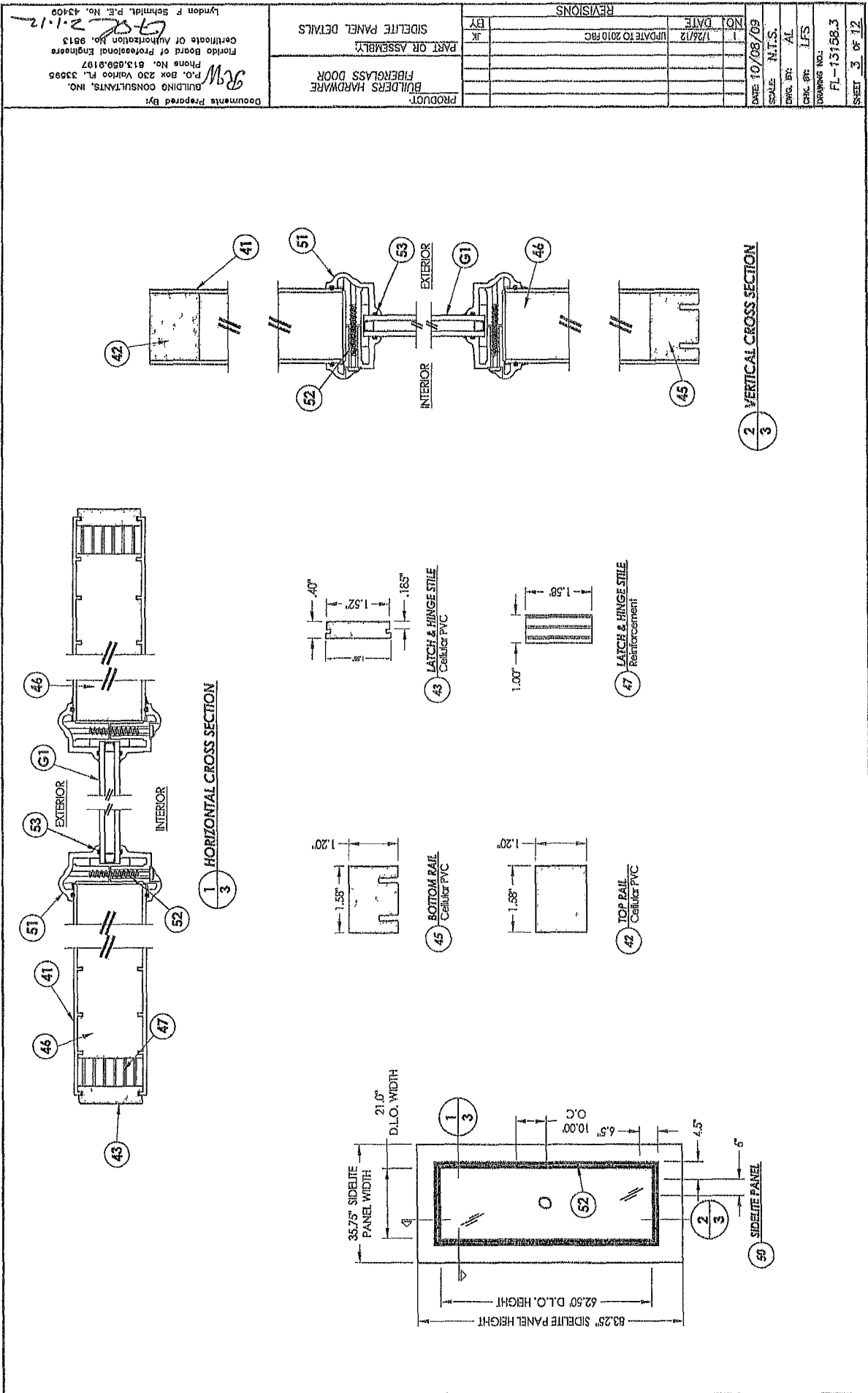
PRODUCED BY: BUILDERS HARDWARE
PART OR ASSEMBLY: FIBERGLASS DOOR
TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES

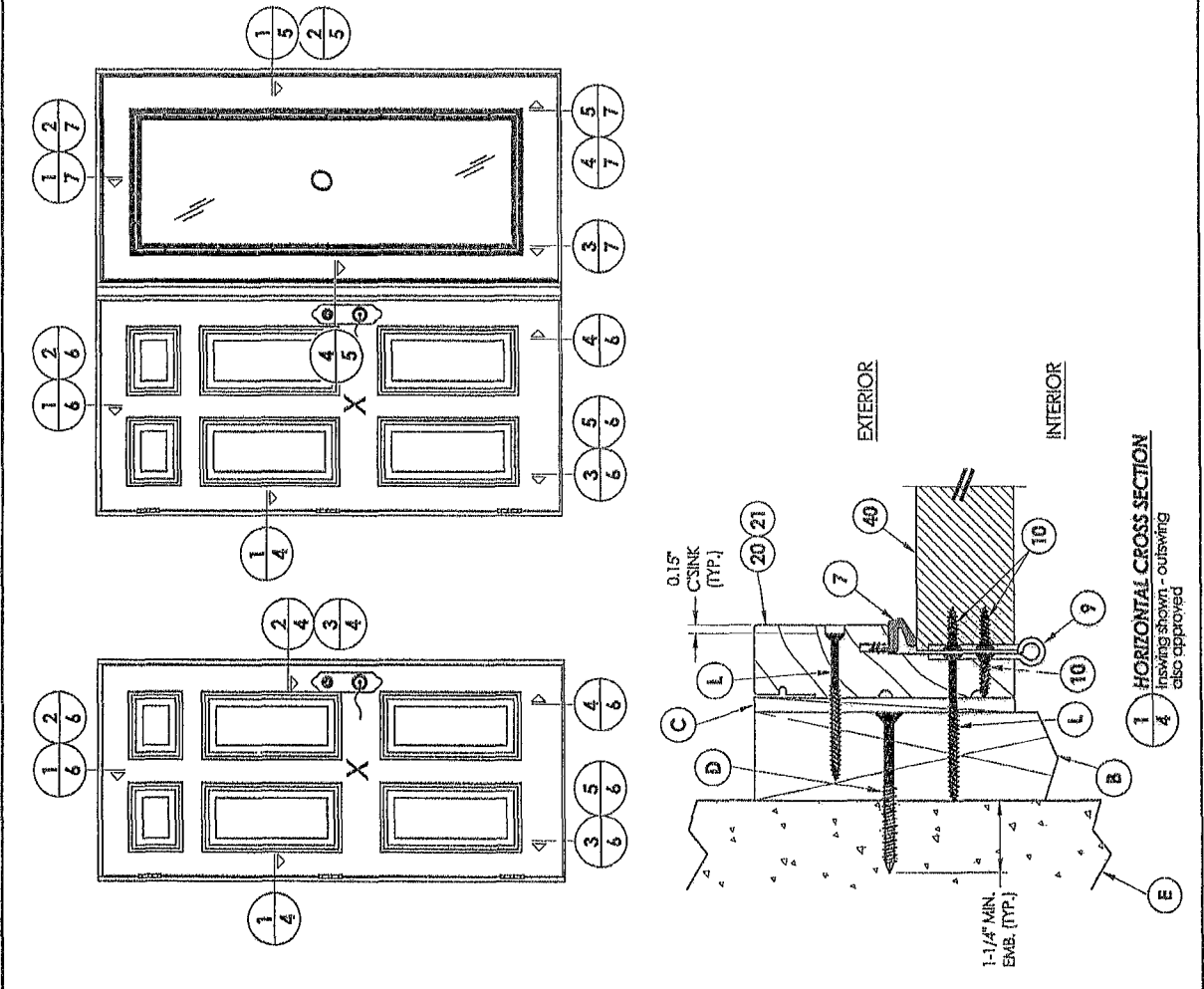
REVISIONS

NO.	DATE	UPDATE TO 2010 FBC
1	1/26/12	

SCALE: N.T.S.
DATE: 10/08/09
DWG. BY: AL
CHK. BY: LFS
DRAWING NO.: FL-13158.3
SHEET 1 of 12







REVISIONS	
NO.	DATE
1	1/24/12
UPDATE TO 2010 R/C	
BY	JK
BY	JK

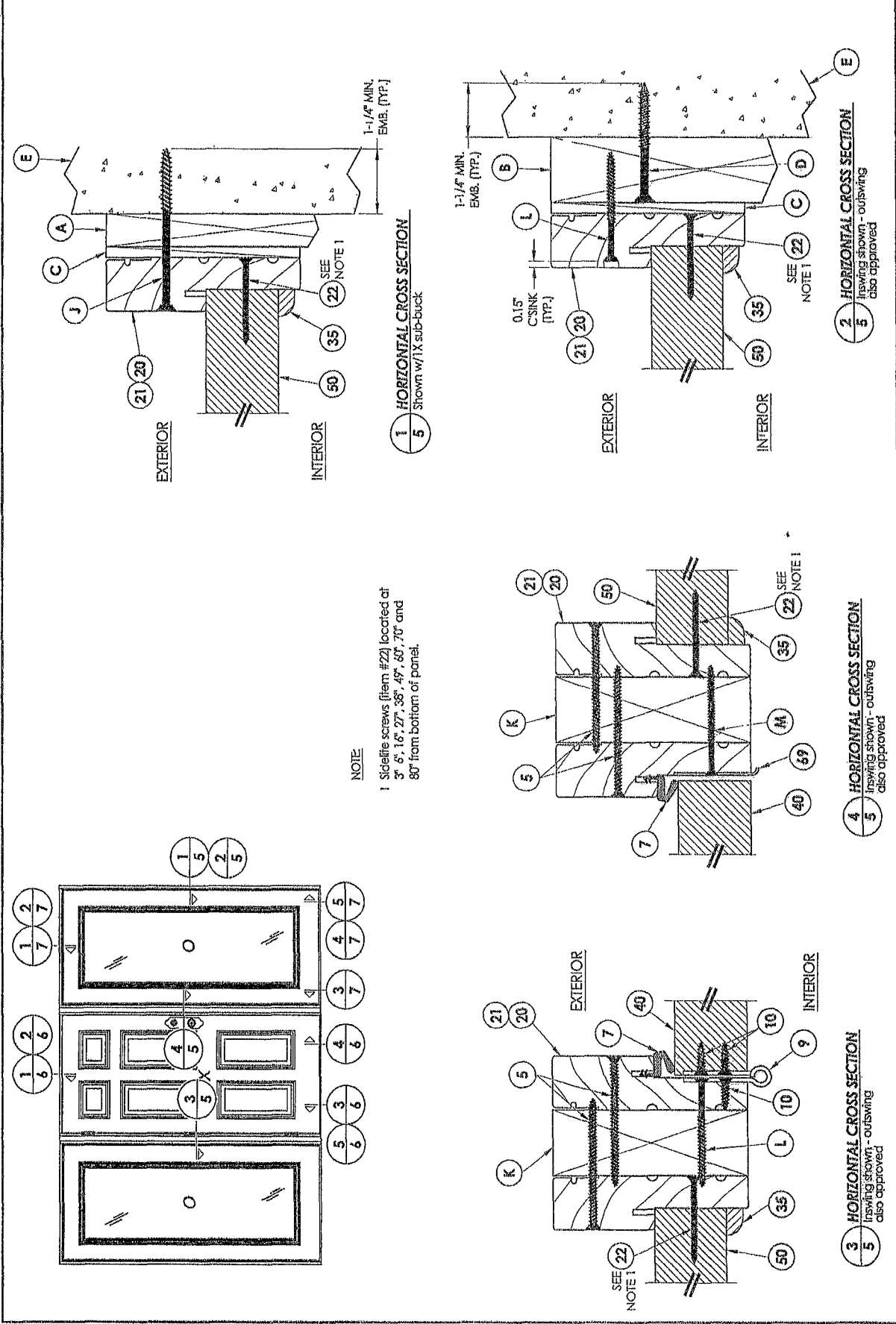
PART OR ASSEMBLY	
FIBERGLASS DOOR	
HORIZONTAL CROSS SECTIONS	

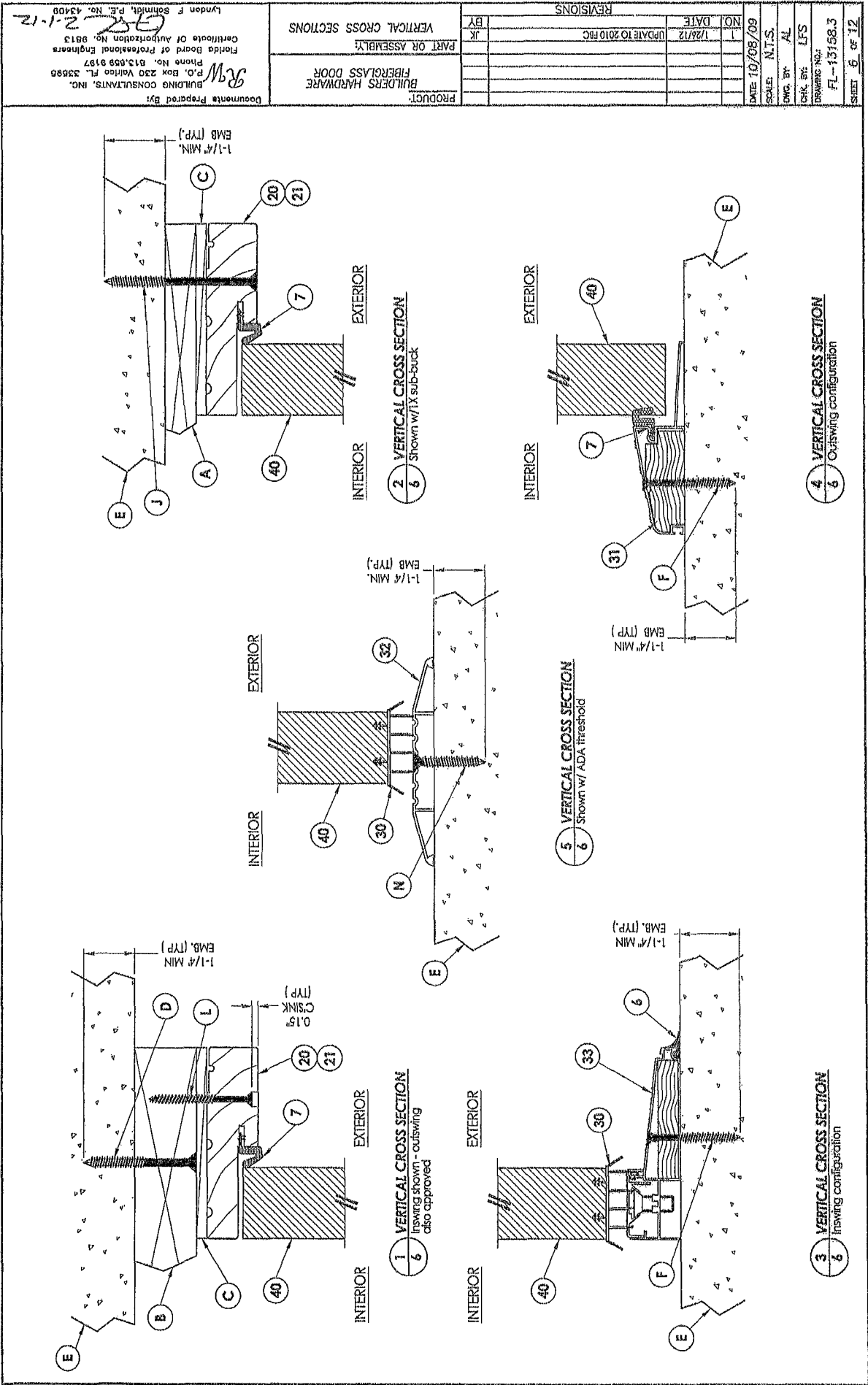
PRODUCT	
BUILDERS HARDWARE	
FIBERGLASS DOOR	
HORIZONTAL CROSS SECTIONS	

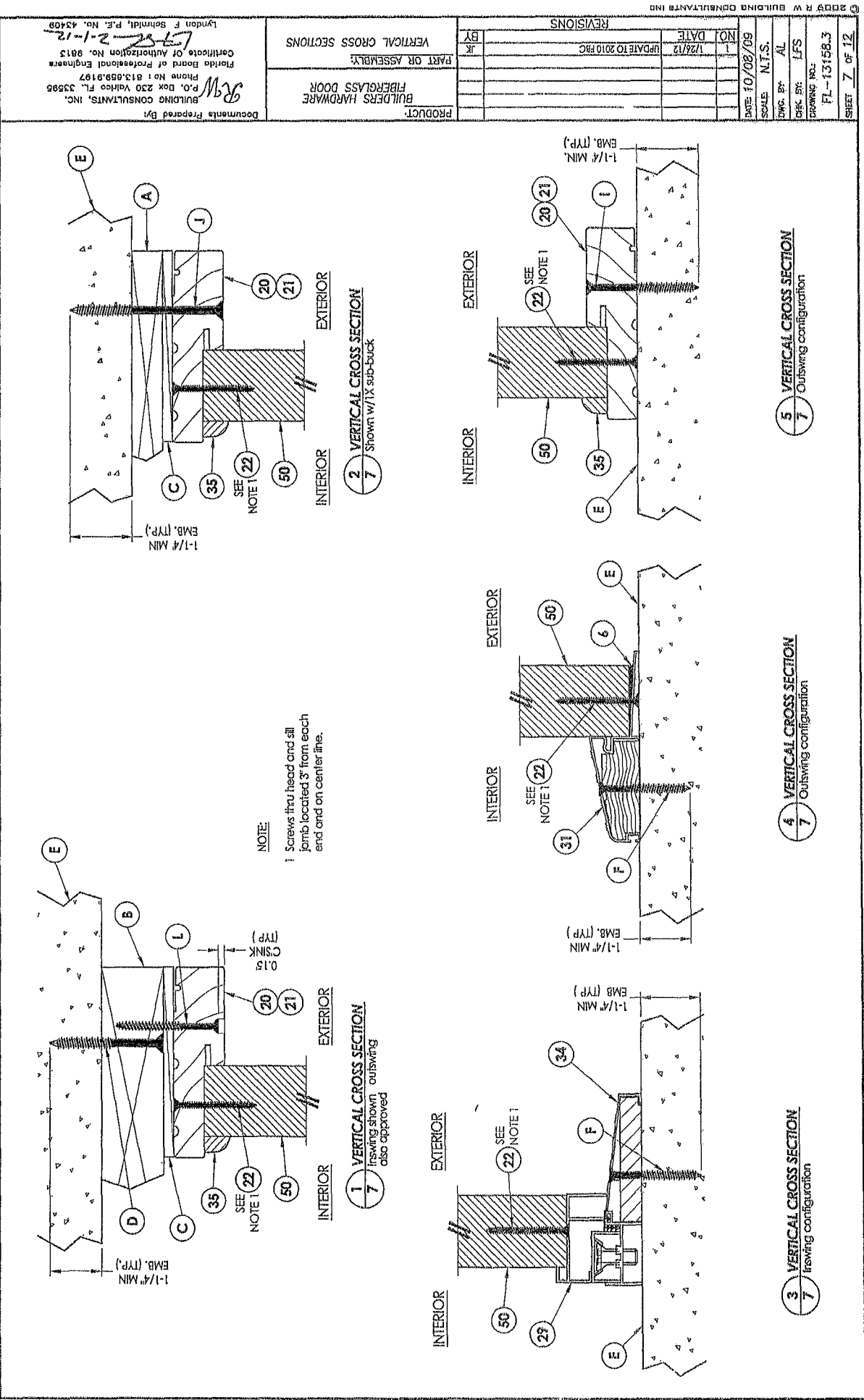
DATE	
10/03/09	
SCALE	
N.T.S.	
DWG. BY	
AL	
CHK. BY	
LFS	
DRAWING NO.	
FL-13158.3	
SHEET	
4 OF 12	

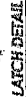
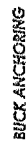
Lyndon F. Schmidt, P.E. No. 43408
2.1.12
Florida Board of Professional Engineers
Certificate of Authorization No. 9813
P.O. Box 220 Valrico FL 33595
Phone No. 813.859.0197
BUILDING CONSULTANTS, INC.
Documents Prepared By: *grw*

BUILDERS HARDWARE FIBERGLASS DOOR PART OR ASSEMBLY HORIZONTAL CROSS SECTIONS		REVISIONS NO. DATE 1 1/24/12 UPDATE TO 2010 FBC	
PRODUCT BUILDERS HARDWARE FIBERGLASS DOOR		DATE 10/08/09 SCALE N.T.S. DWG. BY AL CHECK BY LFS DRAWING NO. FL-13158.3 SHEET 5 OF 12	







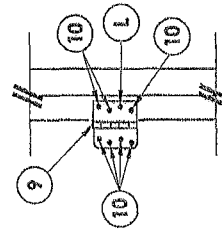


- CONCRETE ANCHOR NOTES:**
 1. Substitution of equal concrete anchors from a different supplier may have different edge distance and center distance requirements.
 2. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints. Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints; additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
 3. Concrete anchor table:

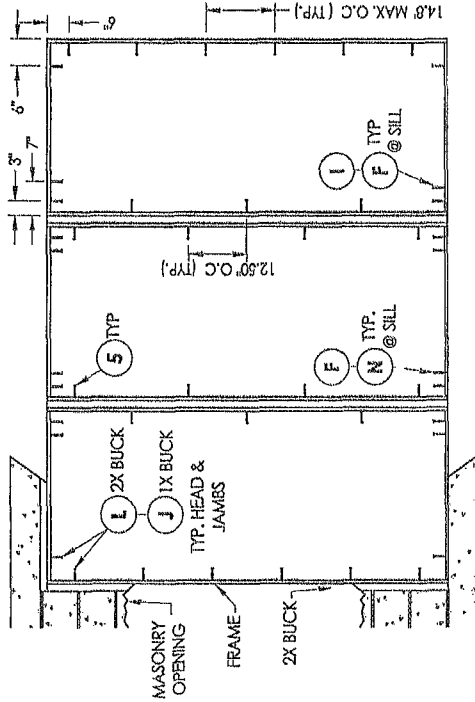
Concrete anchor tables:				
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
RTW	1/4"	1-1/4"	2-1/2"	3"
ELCO	1/4"	1-1/4"	1"	4"



LATCH DETAIL



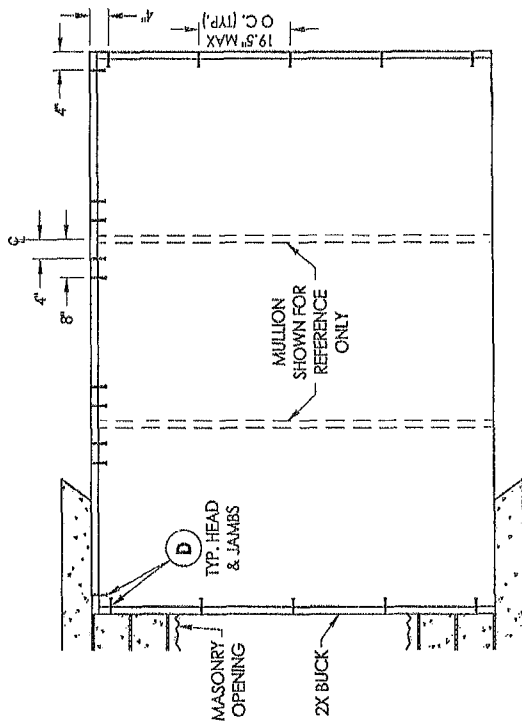
HINGE DETAIL



FRAME ANCHORING
Masonry construction



HINGE JAMB

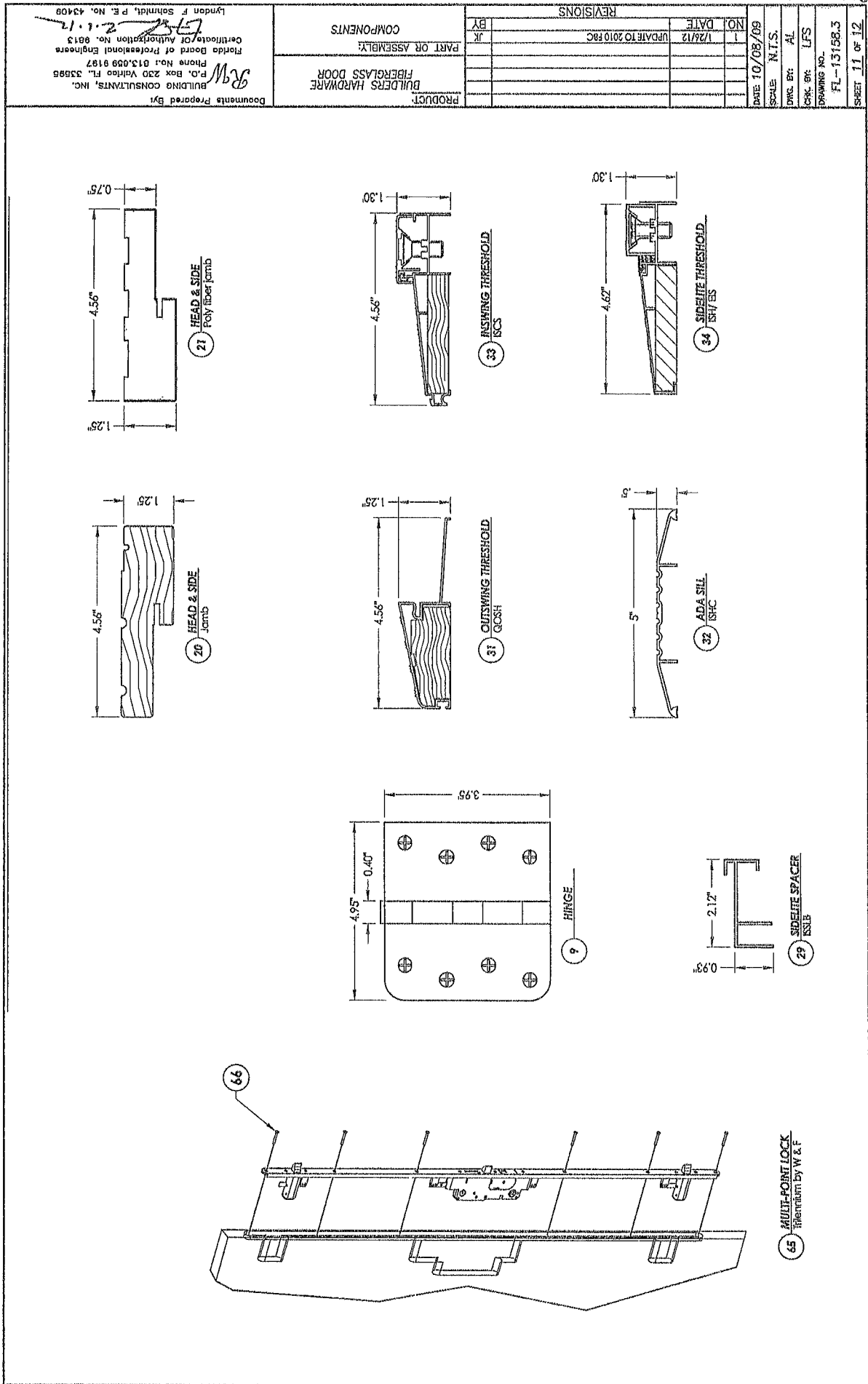


BUCK ANCHORING

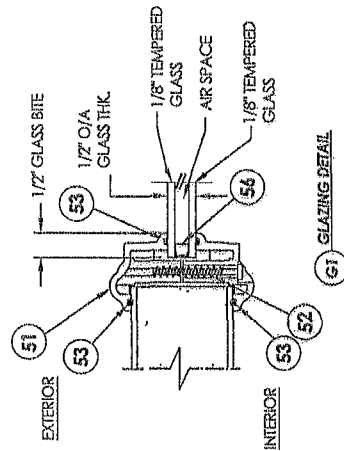
Concrete anchor table:				
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW	1/4"	1-1/4"	2-1/2"	3"
ELCO	1/4"	1-1/4"	1"	4"

CONCRETE ANCHOR NOTES:

- CONCRETE ANCHOR NOTES:**
1. Substitution of equal concrete anchors from a different supplier may have different edge distance and center distance requirements.
 2. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints. Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints. Additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
 3. Concrete anchor table:



BILL OF MATERIALS		MATERIAL
ITEM	DESCRIPTION	
33	INSWING THRESHOLD BY DLP (ISC3)	ALUM. / WOOD
34	SIDELITE THRESHOLD BY DLP (ISH/ ES)	ALUM. / WOOD
35	TRIM	WOOD
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
41	DOOR SKIN (MIN. 0.075" THICK) PLAST-PRO/NANYA Fy = 11,063 PSI MIN.	FIBERGLASS
42	TOP RAIL	CELLULAR PVC
43	LATCH & HINGE STYLE	CELLULAR PVC
44	LOCK BLOCK (SG >= 0.42)	WOOD
45	BOTTOM RAIL	CELLULAR PVC
46	FOAM CORE	POLYURETHANE
47	LATCH & HINGE STYLE REINFORCEMENT	LVL
50	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
51	ODL LITE FRAME	PVC
52	#10 X 1-3/4" PPH SCREW	STEEL
53	GLAZING COMPOUND BY QSO	P/MERIC FOAM
56	GLAZING SPACER	ALUMINUM
65	MULTI-POINT LOCK ASSEMBLY TRILENNIUM BY W & F	-
66	#10 X 1-1/2" PPH SCREW	ALUMINUM
69	MULTI-POINT STRIKE PLATE	ALUMINUM



BUILDERS HARDWARE FIBERGLASS DOOR BUILDING CONSULTANTS, INC. P.O. Box 230 Vero Beach, FL 32985 Phone No. 813.008.9187 Florida Board of Professional Engineers Certificate of Authorization No. 9913 2-1-12 London F. Schmidt, P.E. No. 45409	DOCUMENTS PREPARED BY:	DATE: 10/30/09	SCALE: N.T.S.	SHEET NO. 12 OF 12
	PRODUCT:	DATE: 10/30/09	SHEET NO. 12 OF 12	DRAWING NO. FL-13158.3
	PART OR ASSEMBLY:	DATE: 10/30/09	SHEET NO. 12 OF 12	DRAWING NO. FL-13158.3
	BILL OF MATERIALS & GLAZING DETAIL	DATE: 10/30/09	SHEET NO. 12 OF 12	DRAWING NO. FL-13158.3