

R W Building Consultants, Inc.

Consulting and Engineering Services for the Building Industry

P.O. Box 230 Valrico, FL 33595 Phone 813.659.9197

Florida Board of Professional Engineers Certificate of Authorization No. 9813

Product Evaluation Report

Report No.: FL-14969.1

Date: November 7, 2011

Product Category	Sub Category	Manufacturer	Product Name
Exterior Doors	Exterior Doors Components	Worldwide Door Components, Inc. 5017 N. Coolidge Ave. Tampa, FL 33614 Phone 813.870.0003	"4 EVER JAMBS" Composite Door Jamb Inswing / Outswing "Impact"

Scope: Product Evaluation report issued by R W Building Consultants, Inc. & Lyndon F. Schmidt, P.E. (System ID # 1998) for Worldwide Door Components, Inc., based on Rule Chapter No. 9N-3, Method 1d of the State of Florida Product Approval, Dept. of Community Affairs - Florida Building Commission.

RW Building Consultants and Lyndon F. Schmidt, P.E. do not have nor will acquire financial interest in the company manufacturing or distributing the product or in any other entity involved in the approval process of the product named herein.

Limitations:

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".
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 complies with Section 1609.1.2 of the FBC and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E1996.
4. This "IMPACT" door jamb, as a component, is to be used as a substitute to a similar door jamb in an impact approved (complies with Section 1609.1.2 of the FBC) door system possessing a current Florida Statewide Product Approval.
5. The design pressure of the assembly shall be the lesser of the design pressure for the door jamb shown in this approval or the design pressure of the door assembly used in conjunction with this approval.
6. The maximum frame size of the door assembly shall be the lesser of the maximum frame size stated in this approval or the maximum frame size of the door assembly approval used in conjunction with this approval.
7. Site conditions that deviate from the details of drawing FL-14969.1 require further engineering analysis by a licensed engineer or registered architect
8. See drawing FL-14969.1 for size and design pressure limitations.

Supporting Documents:

1. Test Report No. TEL 01700413	Test Standard ASTM E 330-02 ASTM E 1886-05/1996-09	Testing Laboratory Testing Evaluation Laboratory	Signed by Lyndon F. Schmidt, P.E.
TEL 01700389A	ASTM D 635-03	Testing Evaluation Laboratory	Lyndon F. Schmidt, P.E.
TEL 01700389B	ASTM D 2843-99(2004)	Testing Evaluation Laboratory	Lyndon F. Schmidt, P.E.
TEL 01700389C	ASTM D 1929-96(2000)	Testing Evaluation Laboratory	Lyndon F. Schmidt, P.E.
2. Drawing No. No. FL-14969.1	Prepared by RW Building Consultants, Inc. (CA #9813)		Signed & Sealed by Lyndon F. Schmidt, P.E.
3. Calculations Anchoring	Prepared by RW Building Consultants, Inc. (CA #9813)		Signed & Sealed by Lyndon F. Schmidt, P.E.

4. Quality Assurance

Certificate of Participation issued by National Accreditation and Management Institute, certifying that Worldwide Door Components, Inc. is manufacturing products within a quality assurance program that complies with ISO/IEC 17020 and Guide 53.

Lyndon F. Schmidt, P.E.
FL PE No. 43409
11/7/2011



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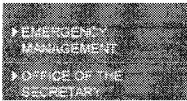


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Product Approval
USER: Public User

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FL #	FL14969														
Application Type	New														
Code Version	2010														
Application Status	Validated														
Comments															
Archived	<input type="checkbox"/>														
Product Manufacturer	Worldwide Door Components, Inc														
Address/Phone/Email	5017 N. Coolidge Ave Tampa, FL 33614 (813) 870-0003 shay@worldwidedor.com														
Authorized Signature	Vivian Wright rickw@rwblgdconsultants.com														
Technical Representative	Jerry Monts De Oca														
Address/Phone/Email	5017 N Coolidge Ave Tampa, FL 33614 (813) 877-0003 870-0003 jmtampa@worldwidedor.com JERRY														
Quality Assurance Representative															
Address/Phone/Email															
Category	Exterior Doors														
Subcategory	Exterior Door Components														
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input 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	12/31/2014														
Validated By	Ryan J. King, P.E. <input type="checkbox"/> Validation Checklist - Hardcopy Received														
Certificate of Independence	FL14969_R0_COI_Certificate of Independence.pdf														
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>ASTM D1929</td> <td>1996</td> </tr> <tr> <td>ASTM D2843</td> <td>1999</td> </tr> <tr> <td>ASTM D635</td> <td>2003</td> </tr> <tr> <td>ASTM E1886</td> <td>2005</td> </tr> <tr> <td>ASTM E1996</td> <td>2009</td> </tr> <tr> <td>ASTM E330</td> <td>2002</td> </tr> </tbody> </table>	Standard	Year	ASTM D1929	1996	ASTM D2843	1999	ASTM D635	2003	ASTM E1886	2005	ASTM E1996	2009	ASTM E330	2002
Standard	Year														
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ASTM E1996	2009														
ASTM E330	2002														
Equivalence of Product Standards Certified By	Florida Licensed Professional Engineer or Architect FL14969_R0_Equiv_EQUIV OF STDS.pdf														

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

11/04/2011

Date Validated

11/07/2011

Summary of Products

FL #	Model, Number or Name	Description
14969.1	a. 4 EVER JAMBS	Composite Door Jambs for use with side hinged entry door panels.
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 14969.1 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars.		Installation Instructions FL14969_R0_II_INST_14969.1.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL14969_R0_AE_EVAL_14969.1.pdf Created by Independent Third Party: Yes

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Product Approval Accepts:



WORLDWIDE Door Components

5017 N. Coolidge
Tampa, FL 33614

"4 EVER JAMBS" COMPOSITE DOOR JAMB INSWING / OUTSWING "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 complies with Section 1609.1.2 of the FBC and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E1996.
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7. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.



4 EVER JAMB

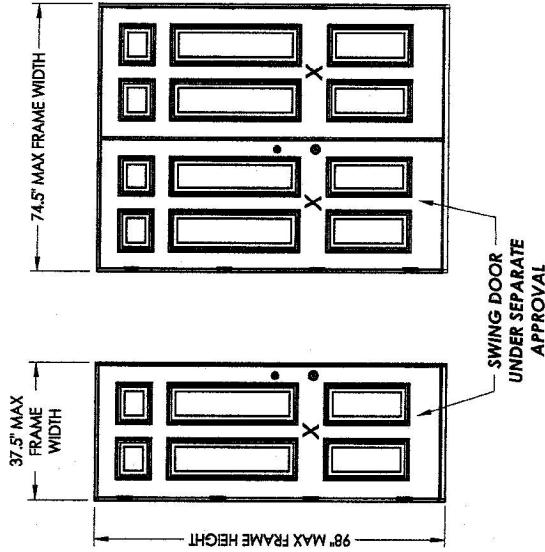


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SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Elevations
3	Horizontal cross sections
4	Vertical cross sections
5	Buck and frame anchoring
6	Buck and frame anchoring
7	Bill of materials and components

CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	37.50" x 98.00"	+60.0	-65.0	+60.0	-60.0
XX	74.50" x 98.00"	+50.0	-55.0	+50.0	-50.0

Documents Prepared By: **RWB**
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Phone No.: 813.659.8187
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
11.7.11

PRODUCT: WORLDWIDE DOOR COMPONENTS
PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS

DATE: 11/07/11
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS

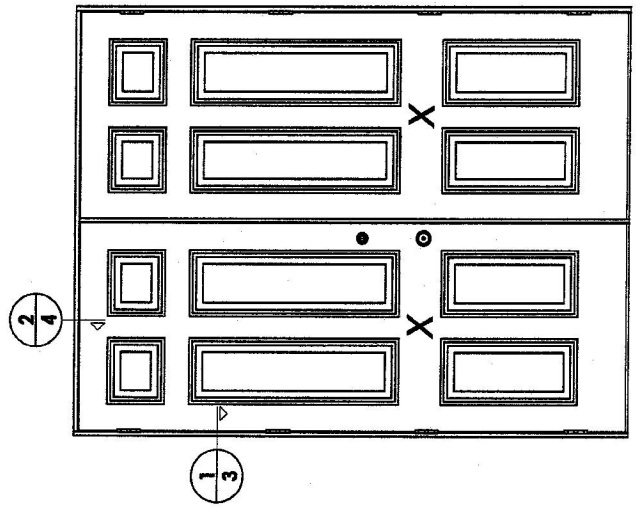
DRAWING NO.: FL-14969.1
SHEET 1 OF 7

NO.	DATE	BY

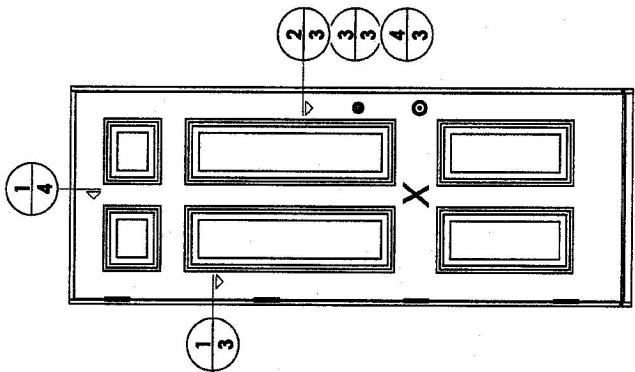
PRODUCT: WORLDWIDE DOOR COMPONENTS
 PART OR ASSEMBLY: ELEVATIONS

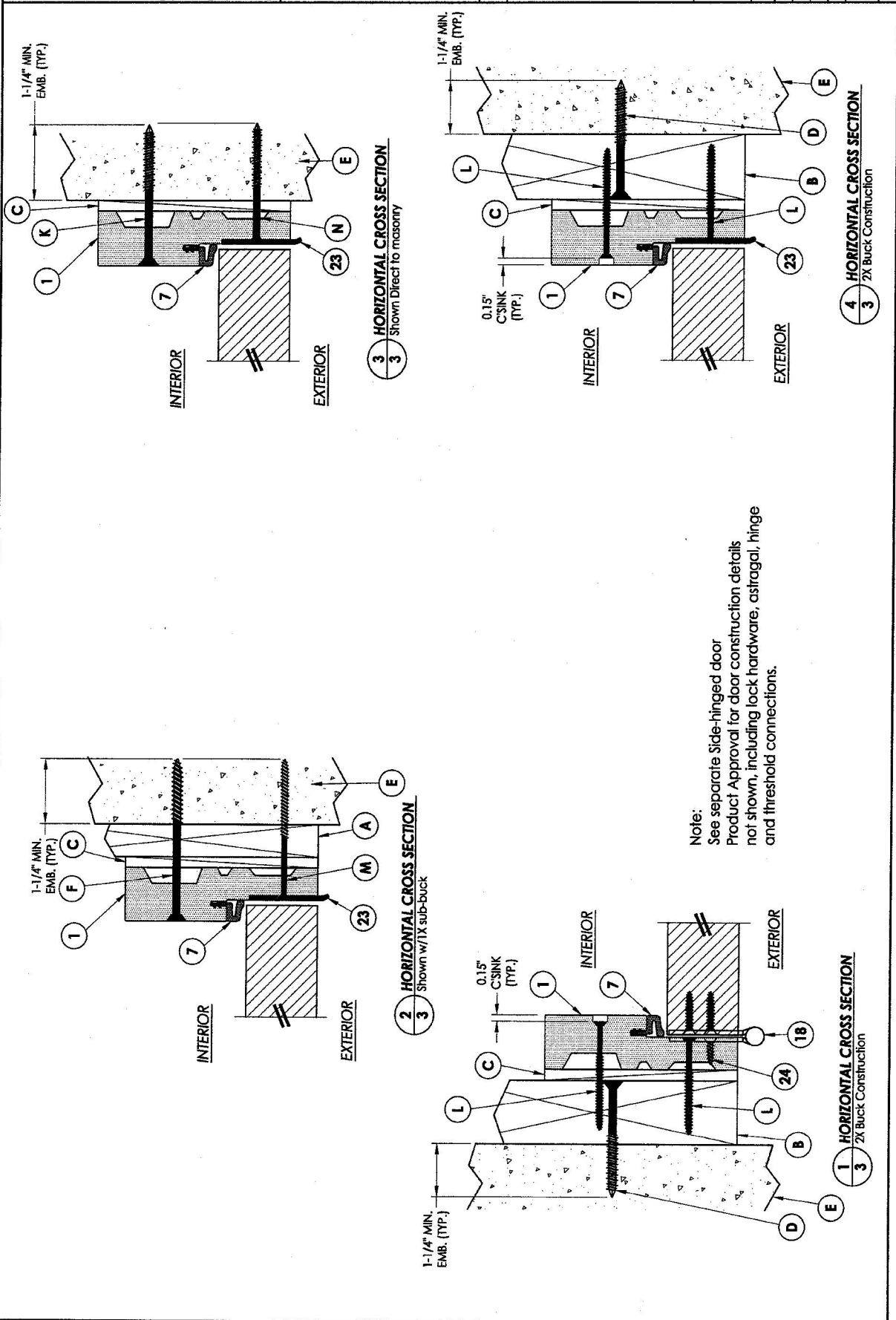
Documents Prepared By: *RW*
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 Phone No.: 813.659.9197
 Florida Board of Professional Engineers
 Certificate of Authorization No. 9813
 Lyndon F. Schmidt, P.E. No. 54158
 11-7-11

DOUBLE DOOR ELEVATION



SINGLE DOOR ELEVATION





Note:
 See separate Side-hinged door
 Product Approval for door construction details
 not shown, including lock hardware, astragal, hinge
 and threshold connections.

PRODUCT: WORLDWIDE DOOR COMPONENTS

PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

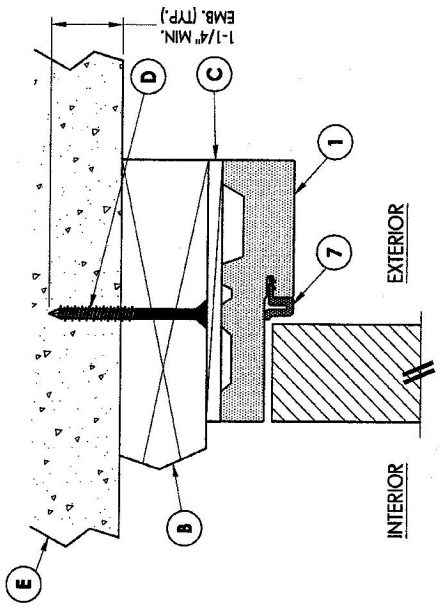
DATE: 11/07/11
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: FL-14989.1
 SHEET 3 OF 7

REVISIONS

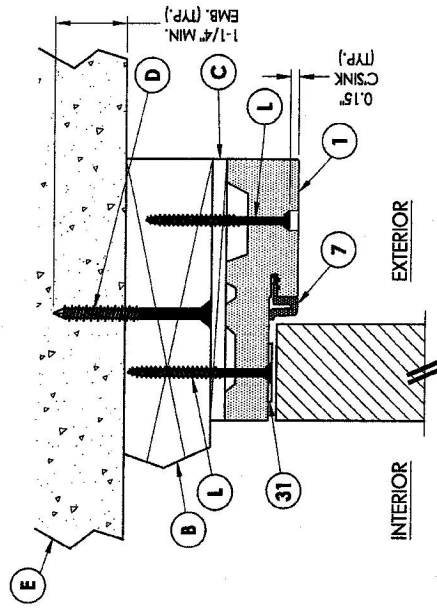
NO.	DATE	BY

Documents Prepared By: *R.W.* BUILDING CONSULTANTS, INC.
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 Phone No.: 813.659.9197
 Florida Board of Professional Engineers
 Certificate of Authorization No. 9813
 Lynden F. Schmidt, P.E. No. 54156

Note:
 See separate side-hinged door
 Product Approval for door construction details
 not shown, including lock hardware, astragal, hinge
 and threshold connections.



1 VERTICAL CROSS SECTION
4 2X Buck Construction-Single door



2 VERTICAL CROSS SECTION
4 2X Buck Construction-Double door

REVISIONS		NO.	DATE	BY

DATE: 11/07/11
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: FL-14969.1
 SHEET 4 OF 7

PRODUCT: WORLDWIDE DOOR COMPONENTS
 PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

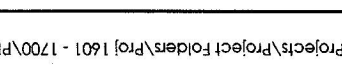
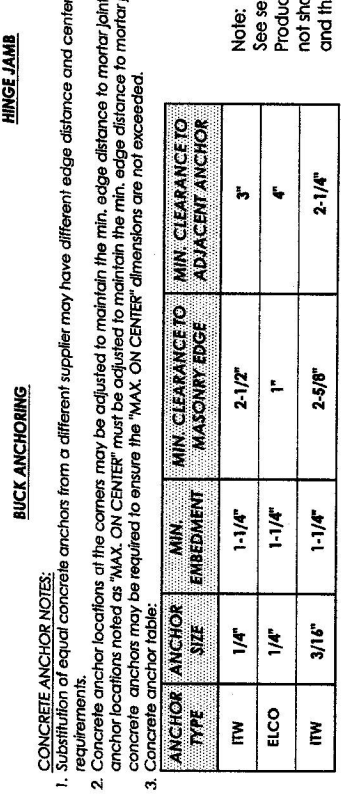
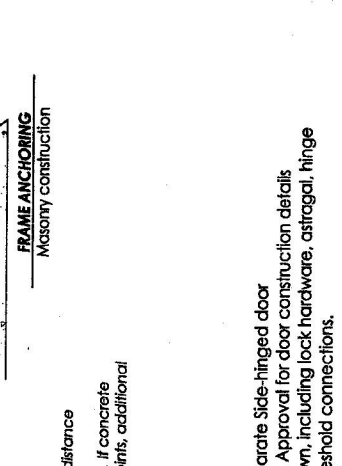
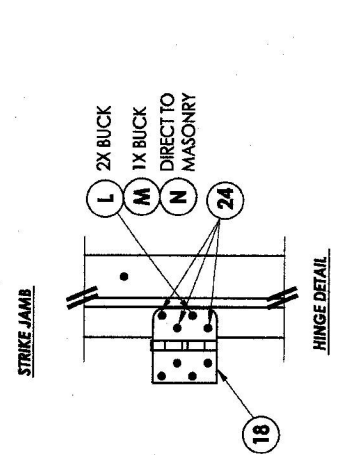
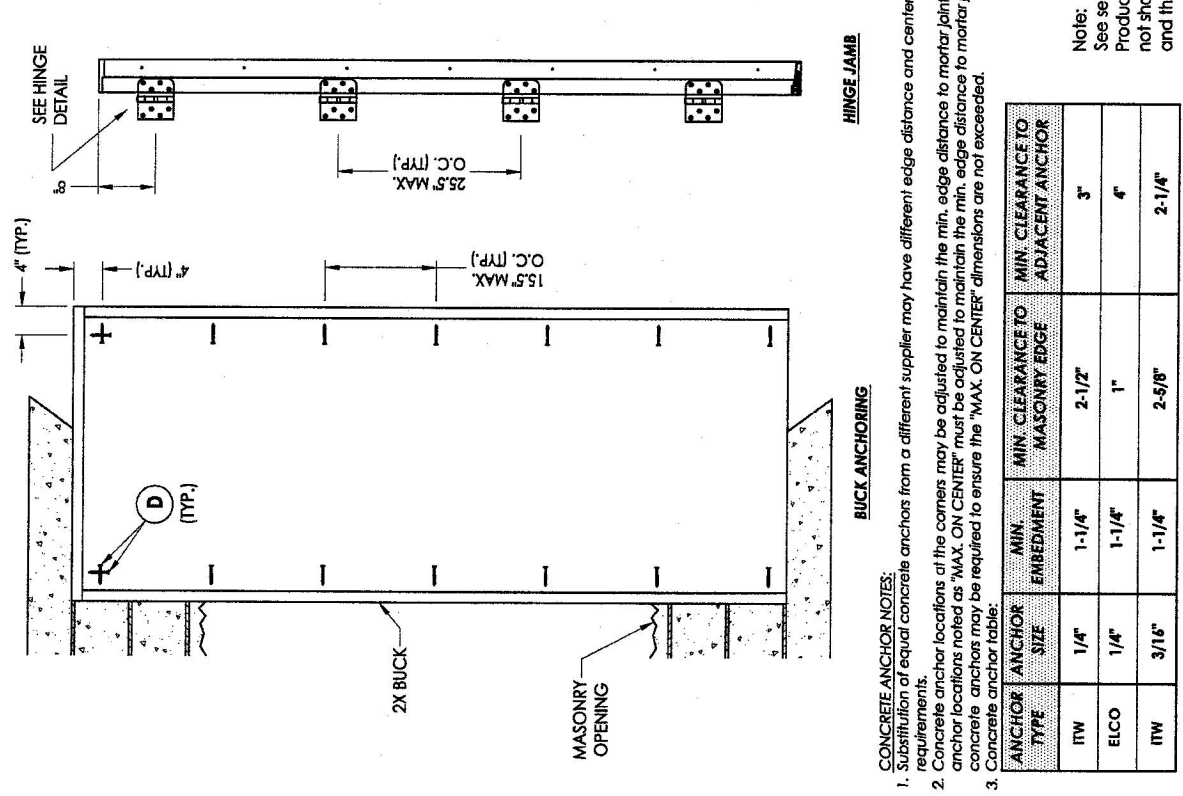
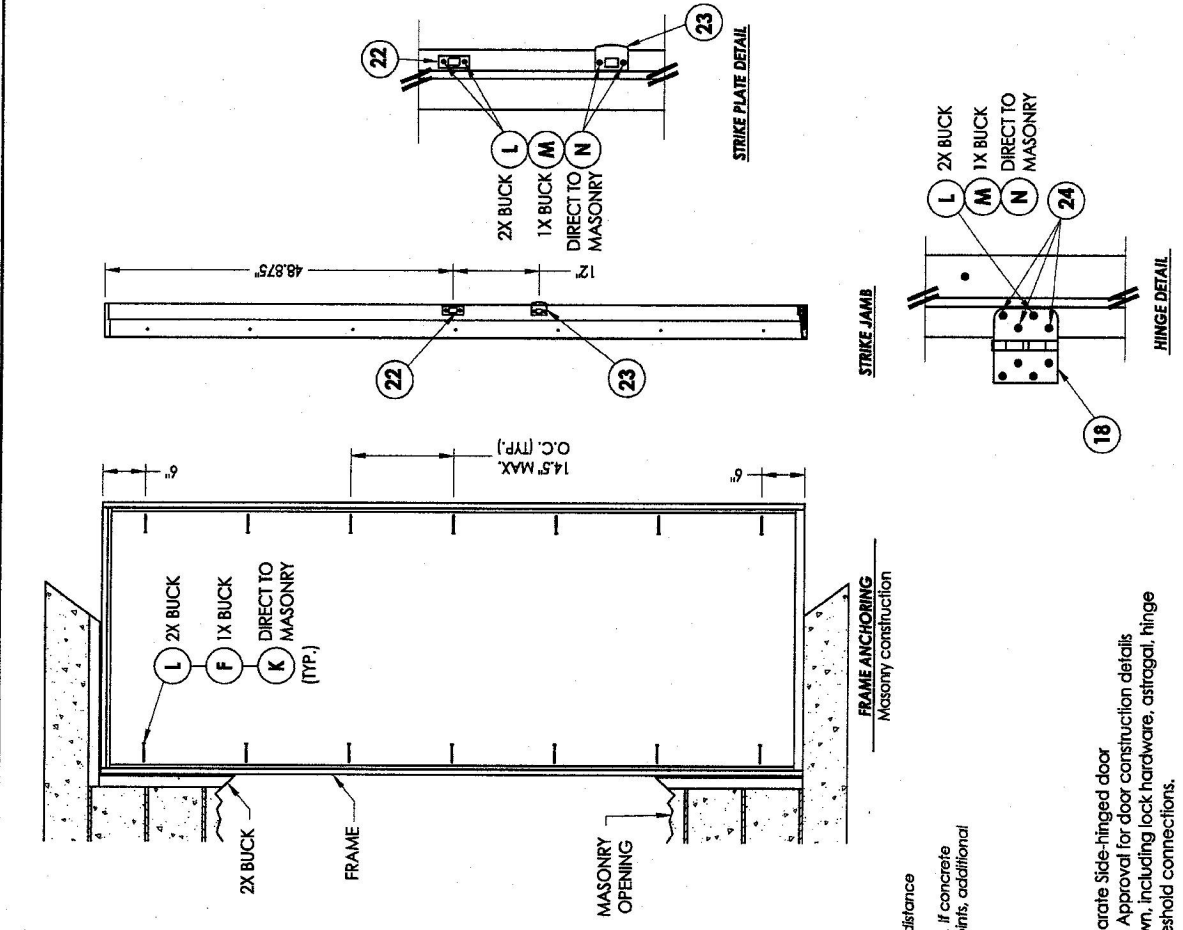
Documents Prepared By: *RPM*
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 Florida Board of Professional Engineers
 Certificate Of Authorization No. 9813
 Lyndon F. Schmidt, P.E. No. 54158
 11/7/11

PRODUCT: WORLDWIDE DOOR COMPONENTS
 PART OR ASSEMBLY: BUCK AND FRAME ANCHORING
 REVISIONS:

NO.	DATE	BY

DATE: 11/07/11
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: FL-14969.1
 SHEET 5 OF 7



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. If 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" dimensions are not exceeded.
 3. 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"
ITW	3/16"	1-1/4"	2-5/8"	2-1/4"

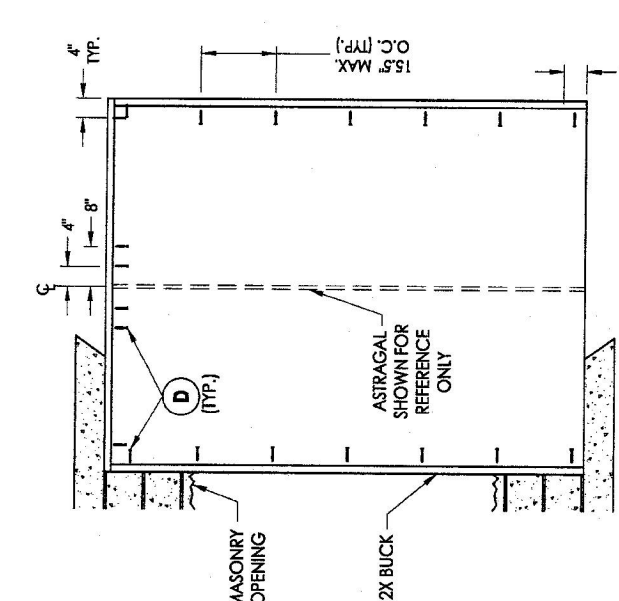
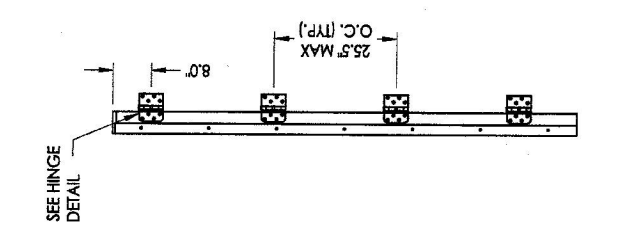
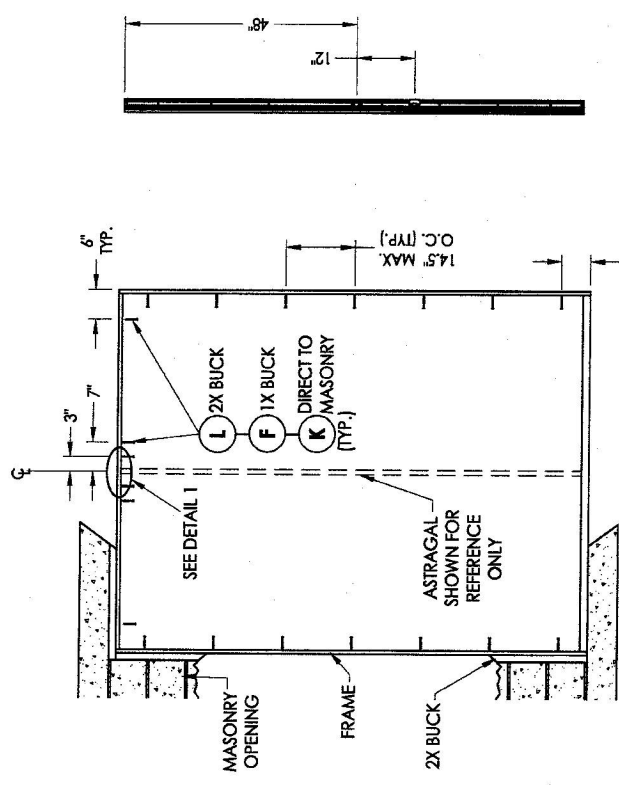
Note:
 See separate Side-hinged door Product Approval for door construction details not shown, including lock hardware, astragal, hinge and threshold connections.

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 Florida Board of Professional Engineers
 Certificate Of Authorization No. 9813
 Lyndon F. Schmidt, P.E. No. 43408
 11-7-11

Documents Prepared By:
 PRODUCT: WORLDWIDE DOOR COMPONENTS
 PART OR ASSEMBLY: BUCK AND FRAME ANCHORING

NO.	DATE	BY	REVISIONS

DATE: 11/07/11
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: FL-14969.1
 SHEET 6 OF 7

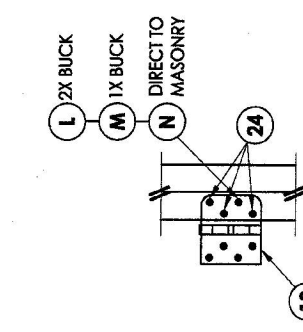
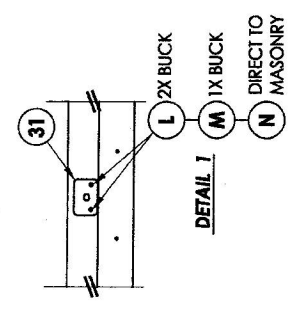


ASTRAGAL

FRAME ANCHORING
Masonry construction

HINGE JAMB

BUCK ANCHORING

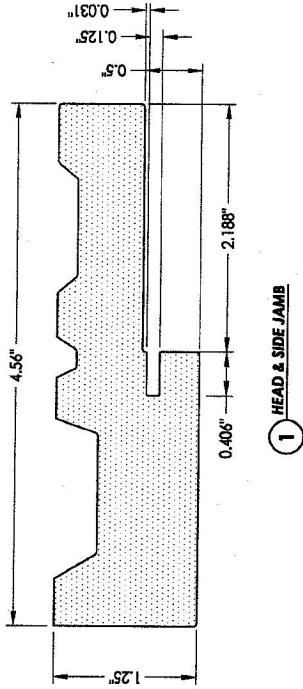


Note:
 See separate Side-hinged door
 Product Approval for door construction details
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- CONCRETE ANCHOR NOTES:**
- Substitution of equal concrete anchors from a different supplier may have different edge distance and center distance requirements.
 - 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.
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ITW	3/16"	1-1/4"	2-5/8"	1-1/4"

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	WOOD
C	1/4" MAX. SHIM SPACE	
D	1/4" X 2-3/4" ELCO OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,192 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	1/4" X 3-3/4" ELCO OR ITW CONCRETE SCREW	STEEL
L	#10 X 2.5" PFH WOOD SCREW	STEEL
K	1/4" X 3-1/4" ELCO OR ITW CONCRETE SCREW	STEEL
M	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL
T	HEAD AND JAMB	COMPOSITE
7	WEATHER STRIP QEBD650 Q-LON	FOAM
22	DEADBOLT STRIKE PLATE	STEEL
23	LATCH STRIKE PLATE	STEEL
24	#10 X 3/4" PFH SMS	STEEL
31	ASTRAGAL STRIKE PLATE	STEEL



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DATE: 11/07/11
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: FL-14969.1
 SHEET 7 OF 7

PRODUCT: WORLDWIDE DOOR COMPONENTS
 PART OR ASSEMBLY:
 BILL OF MATERIALS & COMPONENTS

REVISIONS

NO	DATE	BY

Documents Prepared By: R.W. BUILDING CONSULTANTS, INC.
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 Florida Board of Professional Engineers
 Certificate of Authorization No. 9813
 Lyndon F. Schmidt, P.E. No. 43409

Re: 4-9/16 Jambs

The following excerpt is from AAMA 111 – Procedure for Limited Component Substitution in AAMA Certified Exterior Side Hinged Doors.

Section 5.0 Frames

5.1 STRUCTURAL SUBSTITUTION

5.1.1 May substitute for the original door frame in a rated door system without testing if:

5.1.1.1 The species or material remains the same as the original rated frame; and

5.1.1.2 The frame profile is the same as or wider and/or thicker than the original rated frame; and

5.1.1.3 The frame is of the same construction; and

5.1.1.4 The frame opening height and width is equal to or shorter/narrower than the original rated frame; and

5.1.1.5 The method of corner joinery remains the same as the original rated frame; and

5.1.1.6 The frame cross-section changes do not adversely affect the interface/overlap with the door panel and weather-strip.

The above reference applies to AAMA rated Side Hinged Doors.

The system as represented on the FBC (Worldwide FBC # 14969) has been tested to TAS 201, 202, 203 and ASTM E330 along with ASTM E1886 / E1996.

I have been in this business for over twenty years and other than the excerpt from AAMA – 111 have not found any other references for the substitution of jambs based on size.

If you are substituting a jamb that is identical to the tested jamb in all aspects (material composition, kerf for weather-stripping, rabbet dimensions) except jamb depth you can substitute a deeper jamb. You cannot substitute a shallower jamb.

When comparing the Moment of Inertia between the 4-9/16” and 6-9/16” jamb you will find the 6-9/16” jamb to have a greater value than the 4-9/16” jamb, therefore, common sense allows for the substitution.

Example: Tested 4-9/16" deep jamb – cannot substitute a 3-1/2" jamb, you can substitute a 5-1/2" jamb.

This is the first time I have been questioned on substituting a deeper jamb than what was shown in the approval.

Best regards

Rick Wright
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2002 Wood Court
Plant City, FL 33563
813.659.9197