



COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL CHECK LIST

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2010 EFFECTIVE 15 MARCH 2012 AND THE NATIONAL ELECTRICAL 2008 EFFECTIVE 1 OCTOBER 2009

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT 2010 FLORIDA BUILDING CODES RESIDENTIAL, EFFECTIVE 15 MARCH 2012. NATIONAL ELECTRICAL CODE 2008 EFFECTIVE 1 OCTOBER 2009. ALL PLANS OR DRAWINGS SHALL PROVIDE CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FLORIDA BUILDING CODE FIGURE 1609-A THROUGH 1609-C ULTIMATE DESIGN WIND SPEEDS FOR RISK CATEGORY AND BUILDINGS AND OTHER STRUCTURES

GENERAL REQUIREMENTS:
APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

Items to Include-
Each Box shall be
Circled as
Applicable

			Yes	No	N/A
1	Two (2) complete sets of plans containing the following:		✓		
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void		✓		
3	Condition space (Sq. Ft)	Total (Sq. Ft) under roof	✓		
	0	450			

Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL R101.2.1

Site Plan information including:

4	Dimensions of lot or parcel of land	✓		
5	Dimensions of all building set backs	✓		
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements	✓		
7	Provide a full legal description of property.	✓		

Wind-load Engineering Summary, calculations and any details are required.

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
8	Plans or specifications must show compliance with FBCR Chapter 3	IIII	IIII	IIII
		YES	NO	N/A
9	Basic wind speed (3-second gust), miles per hour	✓		
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	✓		
11	Wind importance factor and nature of occupancy	✓		
12	The applicable internal pressure coefficient, Components and Cladding	✓		
13	The design wind pressure in terms of psf (kN/m ²), to be used for the design of exterior component, cladding materials not specifiically designed by the registered design professional.	✓		

Elevations Drawing including:

14	All side views of the structure	✓		
15	Roof pitch	✓		
16	Overhang dimensions and detail with attic ventilation	✓		
17	Location, size and height above roof of chimneys			✓
18	Location and size of skylights with Florida Product Approval			✓
18	Number of stories	✓		
20A	Building height from the established grade to the roofs highest peak	✓		

Floor Plan including:

20	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	✓		
21	Raised floor surfaces located more than 30 inches above the floor or grade			✓
22	All exterior and interior shear walls indicated	✓		
23	Shear wall opening shown (Windows, Doors and Garage doors)	✓		
24	Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each bedroom (net clear opening shown) and Show compliance with Section FBC 1405.13.2 where the opening of an operable window is located more than 72 inches above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches above the finished floor of the room in which the window is located Glazing between the floor and 24 inches shall be fixed or have openings through which a 4-inch-diameter sphere cannot pass			✓
25	Safety glazing of glass where needed			✓
26	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 and chapter 24 of FBCR)			✓
27	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails			✓
28	Identify accessibility of bathroom (see FBCR SECTION 320)			✓

All materials placed within opening or onto/into exterior walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plan (see Florida product approval form)

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable
---	---

FBCR 403: Foundation Plans

		YES	NO	N/A
29	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	✓		
30	All posts and/or column footing including size and reinforcing			✓
31	Any special support required by soil analysis such as piling.			✓
32	Assumed load-bearing value of soil <u>1500</u> Pound Per Square Foot	✓		
33	Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52 3	✓		

FBCR 506: CONCRETE SLAB ON GRADE

34	Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)	✓		
35	Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports	✓		

FBCR 318: PROTECTION AGAINST TERMITES

36	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or Submit other approved termite protection methods. Protection shall be provided by registered termiticides	✓		
----	--	---	--	--

FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)

37	Show all materials making up walls, wall height, and Block size, mortar type	✓		
38	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement	✓		

Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer or Architect

Floor Framing System: First and/or second story

39	Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer	✓		
40	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or piers			✓
41	Girder type, size and spacing to load bearing walls, stem wall and/or piers			✓
42	Attachment of joist to girder			✓
43	Wind load requirements where applicable			✓
44	Show required under-floor crawl space			✓
45	Show required amount of ventilation opening for under-floor spaces			✓
46	Show required covering of ventilation opening			✓
47	Show the required access opening to access to under-floor spaces			✓
48	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & interior of the areas structural panel sheathing			✓

49	Show Draftstopping, Fire caulking and Fire blocking			✓
50	Show fireproofing requirements for garages attached to living spaces, per FBCR section 302.6			✓
51	Provide live and dead load rating of floor framing systems (psf).			✓

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
		YES	NO	N/A
52	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls			✓
53	Fastener schedule for structural members per table IRC 602.3 are to be shown			✓
54	Show Wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing			✓
55	Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems			✓
56	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per IRC Table 502.5 (1)			✓
57	Indicate where pressure treated wood will be placed			✓
58	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas			✓
59	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail			✓

FBCR :ROOF SYSTEMS:

60	Truss design drawing shall meet section FBCR 802.1.6.1 Wood trusses	✓		
61	Include a layout and truss details, signed and sealed by Florida Professional Engineer	✓		
62	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	✓		
63	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details			✓
64	Provide dead load rating of trusses	✓		

FBCR 802:Conventional Roof Framing Layout

65	Rafter and ridge beams sizes, span, species and spacing			✓
66	Connectors to wall assemblies' include assemblies' resistance to uplift rating			✓
67	Valley framing and support details			✓
68	Provide dead load rating of rafter system			✓

FBCR 803 ROOF SHEATHING

69	Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness	✓		
70	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	✓		

ROOF ASSEMBLIES FRC Chapter 9

71	Include all materials which will make up the roof assembles covering	✓		
72	Submit Florida Product Approval numbers for each component of the roof assembles covering	✓		

FBCR Chapter 11 Energy Efficiency Code for residential building

Residential construction shall comply with this code by using the following compliance methods in the FBCR chapter 11 Residential buildings compliance methods. **Two of the required forms are to be submitted, N1100.1 1 1 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form 600A, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.**

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
		YES	NO	N/A
73	Show the insulation R value for the following areas of the structure			✓
74	Attic space			✓
75	Exterior wall cavity			✓
76	Crawl space			✓

HVAC information

77	Submit two copies of a Manual J sizing equipment or equivalent computation study			✓
78	Exhaust fans shown in bathrooms Mechanical exhaust capacity of 50 cfm intermittent or 20 cfm continuous required			✓
79	Show clothes dryer route and total run of exhaust duct			✓

Plumbing Fixture layout shown

80	All fixtures waste water lines shall be shown on the foundation plan			✓
81	Show the location of water heater			✓

Private Potable Water

82	Pump motor horse power			✓
83	Reservoir pressure tank gallon capacity			✓
84	Rating of cycle stop valve if used			✓

Electrical layout shown including

85	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	✓		
86	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected by Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A	✓		
87	Show the location of smoke detectors & Carbon monoxide detectors			✓
88	Show service panel, sub-panel, location(s) and total ampere ratings			✓
89	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type. For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an Grounding electrode system. Per the National Electrical Code article 250.52.3			

90	Appliances and HVAC equipment and disconnects			✓
91	Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed Combination arc-fault circuit interrupter , Protection device.			✓

Disclosure Statement for Owner Builders *If you as the applicant will be acting as an owner/builder under section 489.103(7) of the Florida Statutes, submit the required owner builder disclosure statement form.*

Notice Of Commencement

A notice of commencement form **recorded** in the Columbia County Clerk Office is required to be filed with the building department Before Any Inspections can be preformed.

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable
---	--

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

		YES	NO	N/A
92	Building Permit Application A current On-Line Building Permit Application www.ccpermit.com is to be completed, by following the Checklist all supporting documents must be submitted. There is a \$15.00 application fee.	✓		
93	Parcel Number The parcel number (Tax ID number) from the Property Appraisers Office (386) 758-1083 is required. A copy of property deed is also requested. www.columbiacountyfla.com	✓		
94	Environmental Health Permit or Sewer Tap Approval A copy of a approved Columbia County Environmental Health (386) 758-1058			✓
95	City of Lake City A permit showing an approved waste water sewer tap 386-752-2031			✓
96	Toilet facilities shall be provided for all construction sites	✓		
97	Town of Fort White (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White, an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.			✓
98	Flood Information: All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations			✓
99	CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project where the approved FIRM Flood Maps show the property is in a AE, Floodway, and AH flood zones. Additionally One Foot Rise letters are required for AE and AH zones In the Floodway Flood zones a Zero Rise letter is required.			✓
100	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is \$50.00			✓
101	Driveway Connection: If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. County Public Works Dept. determines the size and length of every culvert before instillation and completes a final inspection before permanent power is granted. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00) Separate Check when issued. If the project is to be located on an F D O.T maintained road, then an F D O.T access permit is required			✓
102	911 Address: An application for a 911 address must be applied for and received through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125 Ext. 3			✓

Section R101.2.1 of the Florida Building Code Residential:

The provisions of Chapter 1, Florida Building Code shall govern the administration and enforcement of the Florida Building Code, Residential.

Section 105 of the Florida Building Code defines the:

Time limitation of application.

An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

Single-family residential dwelling.

Section 105.3.4 A building permit for a single-family residential dwelling must be issued within 30 working days of application therefor unless unusual circumstances require a longer time for processing the application or unless the permit application fails to satisfy the Florida Building Code or the enforcing agency's laws or ordinances.

Permit intent.

Section 105.4.1: A permit issued shall be constructed to be a license to proceed with the work and not as authority to violate, cancel, alter or set aside any of the provisions of the technical codes, nor shall issuance of a permit prevent the building official from thereafter requiring a correction of errors in plans, construction or violations of this code. Every permit issued shall become invalid unless the work authorized by such permit is commenced within six months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of six months after the time the work is commenced.

If work has commenced.

Section 105.4.1.1: If work has commenced and the permit is revoked, becomes null and void, or expires because of lack of progress or abandonment, a new permit covering the proposed construction shall be obtained before proceeding with the work.

New Permit.

Section 105.4.1.2: If a new permit is not obtained within 180 days from the date the initial permit became null and void, the building official is authorized to require that any work which has been commenced or completed be removed from the building site. Alternately, a new permit may be issued on application, providing the work in place and required to complete the structure meets all applicable regulations in effect at the time the initial permit became null and void and any regulations which may have become effective between the date of expiration and the date of issuance of the new permit.

Work Shall Be:

Section 105.4.1.3: Work shall be considered to be in active progress when the permit has received an approved inspection within 180 days. This provision shall not be applicable in case of civil commotion or strike or when the building work is halted due directly to judicial injunction, order or similar process.

The Fee:

Section 105.4.1.4: The fee for renewal reissuance and extension of a permit shall be set forth by the administrative authority.

When the application is approved for permitting the applicant will be notified by phone as to the status by the Columbia County Building & Zoning Department.

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	<i>Masonite</i>	<i>Single</i> ✓	<i>F1 4940-01</i>
A. SWINGING	<i>II</i>	<i>Double</i>	<i>F1 6015-1</i>
B. SLIDING			
C. SECTIONAL			
D. ROLL UP			
E. AUTOMATIC			
F. OTHER	<i>Mid America</i>	<i>Garage Door</i> ✓	<i>F1 1047419</i>
2. WINDOWS			
A. SINGLE HUNG			
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			
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	<i>Tamko</i>	<i>Art 30 Year</i> ✓	<i>01-0919-11</i>
B. UNDERLAYMENTS			<i>1956</i>
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	<i>Simpson</i>	<i>22" strap</i>	<i>FL1423</i>
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.

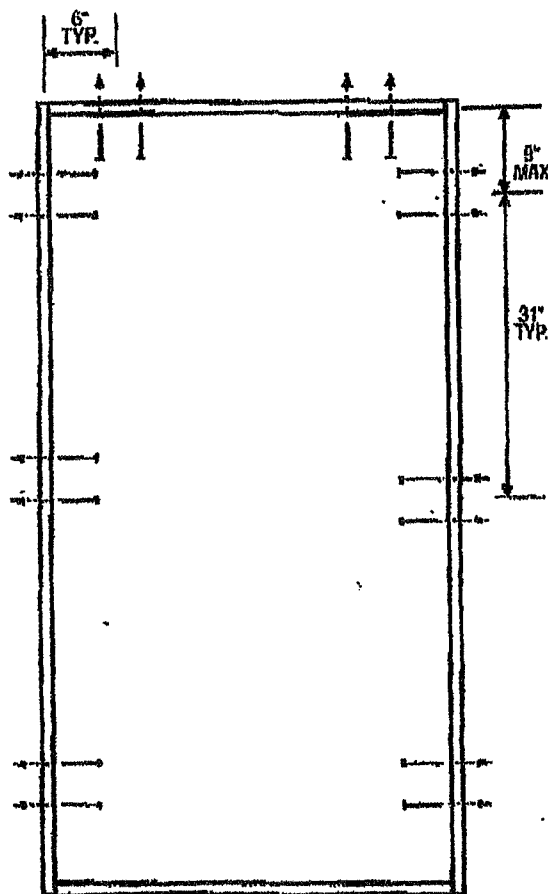
Robert Clark

APPLICANT SIGNATURE

9-11-13

DATE

SINGLE DOOR



FI* 4940.01

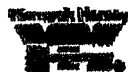
Minimum Fastener Count

- 6 per vertical framing member for 7'0" height and smaller
- 8 per vertical framing member for heights greater than 7'0"
- 4 per horizontal framing member

Hinge and strike plates require two 2-1/2" long screws per location.

Rough Opening (RO)

- Width of door unit plus 1/2"
- Height of door unit plus 1/4"



Test Data Review Certificate #S026447A, #S026447B, #S026447C and COP Test Report Validation Matrix #S026447A-001, 002, 003, 004; #S026447B-001, 002, 003, 004; #S026447C-001, 002, 003, 004 provides additional information - available from the ITI/ATI website (www.iti-atl.com), the Masonite website (www.masonite.com) or the Masonite Technical Center.

Latching Hardware:

- ¹ Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed @ 5-1/2" centerline.
- ² Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed @ 10-1/2" centerline OR that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed @ 5-1/2" centerline with 8" GRADE 1 (ANSI/BHMA A156.16) surface bolts installed on latch side of active door panel - (1) at top and (1) at bottom.
- ³ Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed @ 10-1/2" centerline with 8" GRADE 1 (ANSI/BHMA A156.16) surface bolts installed on latch side of active door panel - (1) at top and (1) at bottom.
- ⁴ Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed @ 5-1/2" centerline with 8" GRADE 1 (ANSI/BHMA A156.16) surface bolts installed on latch side of active door panel - (1) at top and (1) at bottom.

Hardware requirements not footnoted on COP documents shall comply with item 1 as shown above.

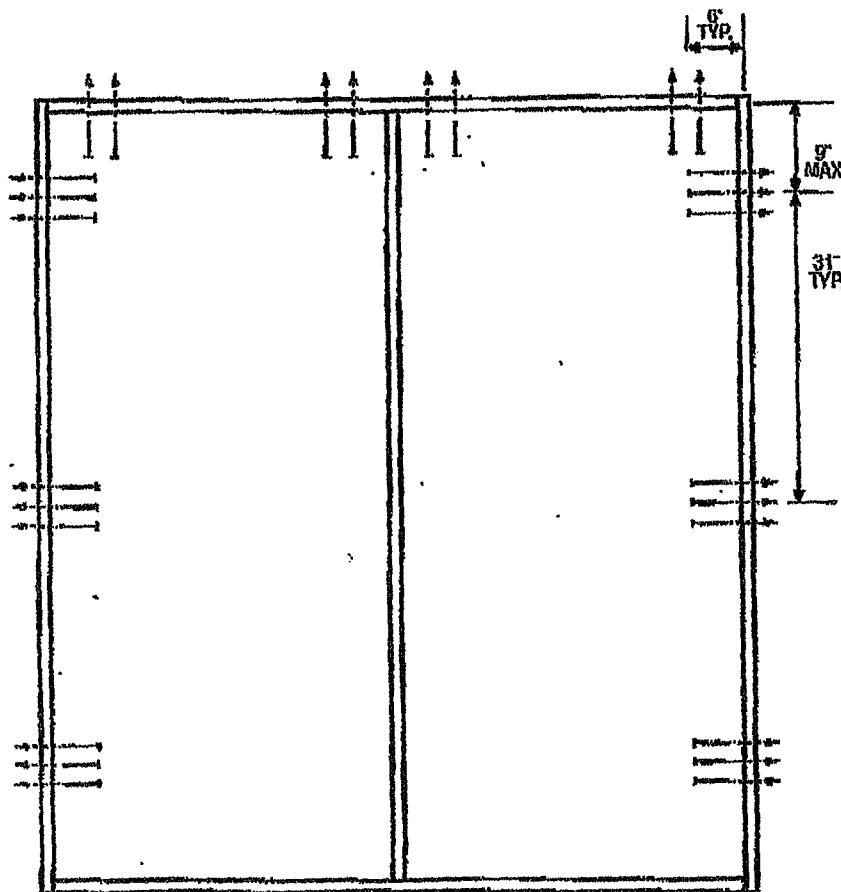
Notes:

1. Anchor calculations have been carried out with the fastener rating from the different fasteners being considered for use. Jamb and head fasteners analyzed for this unit include 10d common nails. A physical shim must be placed in shim space at each anchor location. Threshold fasteners analyzed for this unit include Liquid Nails Builders Choice 490 (or equal structural adhesive).
2. The common nail single shear design values come from ANSI/AP & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment of 1-1/4".
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

XX
Unit

MID-WL-MA0002-02

DOUBLE DOOR



F1 # 6015.1

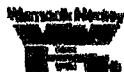
Minimum Fastener Count

- 6 per vertical framing member for 7'0" heights and smaller
- 8 per vertical framing member for heights greater than 7'0"
- 8 per horizontal framing member

Hinge and strike plates require two 2-1/2" long screws per location.

Rough Opening (RO)

- Width of door unit plus 1/2"
- Height of door unit plus 1/4"



Test Data Review Certificate #3028447A; #3028447B; #3028447C and COP/For Report Validation Mark #3028447A-001, 002, 003, 004; #3028447B-001, 002, 003, 004; #3028447C-001, 002, 003, 004 provides additional information - available from the IFB/WHI website (www.ifbwhi.com), the Masonite website (www.masonite.com) or the Masonite Technical Center.

Latching Hardware:

- Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed @ 5-1/2" centerline.
- Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed @ 10-1/2" centerline OR that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed @ 5-1/2" centerline with 8" GRADE 1 (ANSI/BHMA A156.16) surface bolts installed on latch side of active door panel - (1) at top and (1) at bottom.
- Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed @ 10-1/2" centerline with 8" GRADE 1 (ANSI/BHMA A156.16) surface bolts installed on latch side of active door panel - (1) at top and (1) at bottom.
- Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed @ 5-1/2" centerline with 8" GRADE 1 (ANSI/BHMA A156.16) surface bolts installed on latch side of active door panel - (1) at top and (1) at bottom.

Hardware requirements not footnoted on COP documents shall comply with item 1 as shown above.

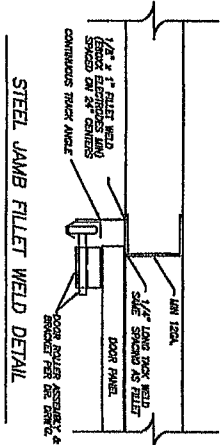
Notes:

1. Anchor calculations have been carried out with the fastener rating from the different fasteners being considered for use. Jamb and head fasteners analyzed for this unit include #8 wood screws and 10d common nails. A physical shim must be placed in shim space at each anchor location. Threshold fasteners analyzed for this unit include Liquid Nails Builders Choice 490 (or equal structural adhesive).
2. The wood screw and common nail single shear design values come from ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment of 1-1/4".
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

FL. 11753

Notes:

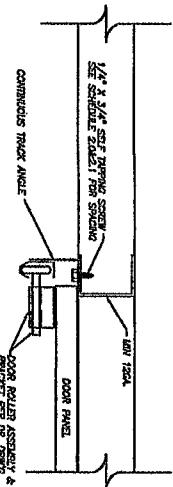
- There are two approved methods for attachment of the door to the building:
 - Attaching a 2x6 to the building structure using schedule 1.0, 1.1, 1.2 or 1.3 (see page 2). The 2x6 is always southern pine on this drawing.
 - Using schedule 2.0, 2.1, 2.2, 2.3 or welding (see page 2 or 3). Mounting directly to building structure is not approved. If the building is masonry, then the door must be mounted on a concrete wall of at least 8 inches thick. If the building is wood frame, then the door must be mounted on a wood frame of at least 8 inches thick. If the building is steel, then the door must be mounted on a steel beam of at least 8 inches deep.
- Determine the positive design windload for a particular door, rounded down, to the nearest 5 pounds per square foot. This load can be found on the bottom right corner of the applicable drawing.
- Anchors to be spaced evenly between the header and the floor.
- First Anchor (bottom) starting at no more than half of the maximum on-center distance.
- Top Anchor installed at least as high as the door opening.
- Door must overlap a minimum of 7/16" per jamb. If the door does not overlap the jamb, then stop molding must be used on the jamb and the door must be spaced not less than 8 inches apart. Headless (thin) nails may not be used.
- Building engineer/architect is responsible for ensuring that the building structure is sufficient for the loads applied. More fasteners than shown on the door drawings may be required, the quantities shown on this drawing prevail.



STEEL JAMB FILLET WELD DETAIL

- Use all necessary precautions when welding galvanized steel.
- Welds to be evenly spaced between header and floor.
- First (bottom) weld starting at no more than half of the maximum on-center distance. Highest weld at least as high as the door opening.
- All welds should be performed by a certified welder or inspected by a certified welding inspector to verify the integrity of the weld.
- Fillet welds should have a straight or convex face surface.
- Top weld, top of the angle at the same spacing to prevent rotation of the track angle.
- Corrosion and degradation shall be ground to a smooth contour.

SOURCE: DSI/MA TDS 161



STEEL JAMB 1/4"X3/4" SELF TAPPING SCREW DETAIL

1/4"X3/4" SELF TAPPING SCREW CONNECTION SCHEDULE 2.0

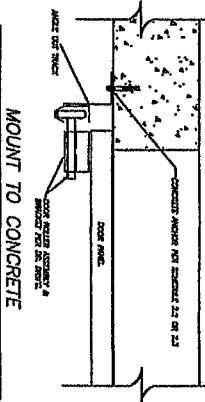
Design Load (PSF)	Opening Width (ft)									
	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"
10	24	24	24	24	24	24	24	24	24	24
15	24	24	24	24	24	24	24	24	24	24
20	24	24	24	24	24	24	24	24	24	24
25	24	24	24	24	24	24	24	24	24	24
30	24	24	24	24	24	24	24	24	24	24
35	24	24	24	24	24	24	24	24	24	24
40	24	24	24	24	24	24	24	24	24	24
45	24	24	24	24	24	24	24	24	24	24
50	24	24	24	24	24	24	24	24	24	24

Table values referenced from DSI/MA TDS 161

1/4"X3/4" SELF TAPPING SCREW CONNECTION SCHEDULE 2.1

Design Load (PSF)	Opening Width (ft)									
	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"
10	24	24	24	24	24	24	24	24	24	24
15	24	24	24	24	24	24	24	24	24	24
20	24	24	24	24	24	24	24	24	24	24
25	24	24	24	24	24	24	24	24	24	24
30	24	24	24	24	24	24	24	24	24	24
35	24	24	24	24	24	24	24	24	24	24
40	24	24	24	24	24	24	24	24	24	24
45	24	24	24	24	24	24	24	24	24	24
50	24	24	24	24	24	24	24	24	24	24

Table values referenced from DSI/MA TDS 161



DOOR FRAME PLATE CONNECTION SCHEDULE 2.2

Load Table Based on:
 ANKER-TITE Wedge bolt 3/8"x3-1/2" with 1-3/4" min embed.
 ANKER-TITE Stud bolt 3/8"x3-1/2" with 1-3/4" min embed.
 POWER STUD anchor 3/8"x3-1/2" with 1-3/4" min embed.
 POWER LOCK/ROTATOR 3/8"x3-1/2" with 1-3/4" min embed.
 Minimum edge spacing of 2-1/2" for all.

Design Load (PSF)	Opening Width (ft)									
	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"
10	24	24	24	24	24	24	24	24	24	24
15	24	24	24	24	24	24	24	24	24	24
20	24	24	24	24	24	24	24	24	24	24
25	24	24	24	24	24	24	24	24	24	24
30	24	24	24	24	24	24	24	24	24	24
35	24	24	24	24	24	24	24	24	24	24
40	24	24	24	24	24	24	24	24	24	24
45	24	24	24	24	24	24	24	24	24	24
50	24	24	24	24	24	24	24	24	24	24

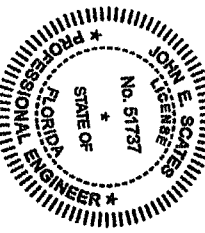
Header with a minimum of 5/8" OD or greater required on all fasteners.

DOOR FRAME PLATE CONNECTION SCHEDULE 2.3

Load Table Based on:
 TYPICAL 1/4"x3/4" with 1-3/4" min embed
 TYPICAL 1/4"x3/4" with 1-3/4" min embed
 Minimum edge spacing of 2-1/2" for all

Design Load (PSF)	Opening Width (ft)									
	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"
10	24	24	24	24	24	24	24	24	24	24
15	24	24	24	24	24	24	24	24	24	24
20	24	24	24	24	24	24	24	24	24	24
25	24	24	24	24	24	24	24	24	24	24
30	24	24	24	24	24	24	24	24	24	24
35	24	24	24	24	24	24	24	24	24	24
40	24	24	24	24	24	24	24	24	24	24
45	24	24	24	24	24	24	24	24	24	24
50	24	24	24	24	24	24	24	24	24	24

Header with a minimum of 5/8" OD or greater required on all fasteners.



NOTES: THIS DRAWING AND / OR TECHNICAL INFORMATION ON THIS SHEET IS THE PROPERTY OF MID-AMERICA DOOR COMPANY AND IS LOANED IN CONFIDENCE FOR ENGINEERING PURPOSES ONLY. AND MAY NOT BE REPRODUCED OR USED TO MANUFACTURE ANYTHING DISCLOSED HEREON WITHOUT THE EXPRESSED PERMISSION OF MID-AMERICA DOOR COMPANY.

Rev.	By	Date	Description	Rev.	By	Date	Description
1	W	10-12-04	SCALE	1	W	10-12-04	SCALE
2	W	10-12-04	SCALE	2	W	10-12-04	SCALE
3	W	10-12-04	SCALE	3	W	10-12-04	SCALE
4	W	10-12-04	SCALE	4	W	10-12-04	SCALE
5	W	10-12-04	SCALE	5	W	10-12-04	SCALE
6	W	10-12-04	SCALE	6	W	10-12-04	SCALE
7	W	10-12-04	SCALE	7	W	10-12-04	SCALE
8	W	10-12-04	SCALE	8	W	10-12-04	SCALE
9	W	10-12-04	SCALE	9	W	10-12-04	SCALE
10	W	10-12-04	SCALE	10	W	10-12-04	SCALE

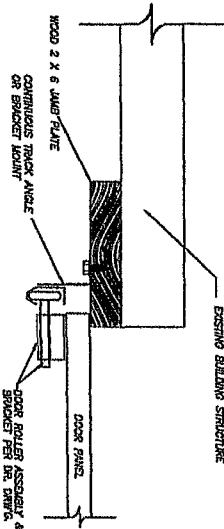
PROFESSIONAL ENGINEER
 JOHN E. SCATES
 No. 51737
 State of Florida
 2/2/12

Mid-America Door Company
 1000 W. 10th St.
 Tulsa, OK 74103
 (918) 436-1111
 FAX: (918) 436-1112
 www.midamericadoor.com

1. There are two approved methods for attachment of the

1. There are two approved methods for attachment of the door to the building.
 - A. Attaching a 2x6 to the building structure using schedule 1.0, 1.1, 1.2 or 1.3 (see page 12). The 2 X6 is always southern pine on this drawing.
 - B. Mount the track directly to the building structure using schedule 2.0, 2.1, 2.2, 3 or Hiding (see page 12). Hiding is not approved for use on the exterior of a building, so exterior doors only, since 1" knob of door overlap with the building is required.
2. Determine the positive design windload for a particular door. The door can be down to the ground 5 pounds per square foot. This load can be found on the bottom right corner of the applicable drawing.
3. If the framing is made of wood, determine the type of lumber being used. The charts include southern pine and spruce-pine-fir (Schedule 1.10).
4. 2x6 wood jamb may be counter bored up to 1/2" deep to provide a flush finishing surface.
5. Anchoring to be spaced evenly between the header and the floor.
6. First Anchor (bottom) starting at no more than half of the maximum span/center distance.
7. Top Anchor fastened at least as high as the door opening.
8. Wood jamb plate shall be minimum 2x6 no. 1 grade southern pine.
9. Door Must overlap a minimum of 7/16" per jamb. If the door does not overlap the jamb, then special molding spaced evenly on 1/2" gasket. However, these rolls may not be used.
10. Building engineer/architect is responsible for ensuring that the building structure is sufficient for the loads applied.

3/8" x 3" Lag Bolt 1-1/2" Min Embed
Min 1-1/8" O.D. Steel Washer per lag
Minimum edge spacing of 1-1/2" for all

[illegible][illegible]

WOOD JAMB PLATE TO BUILDING STRUCTURE

DOOR FRAME PLATE CONNECTION SCHEDULE 1.1

Load Table Based on:

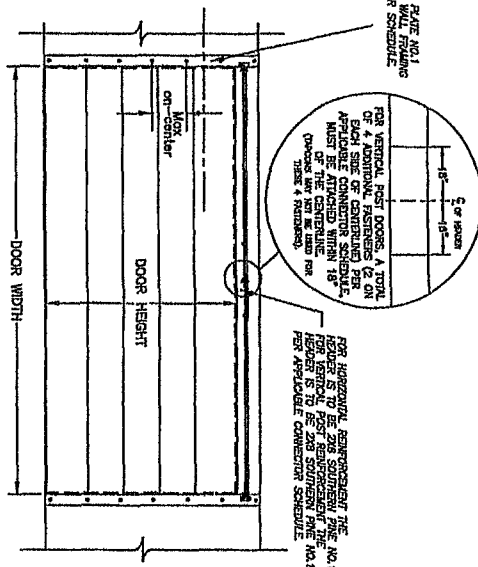
ANKR-TITE Wedge bolt	3/8"x3-1/2"	with 1-3/4" min embed.
ANKR-TITE Stud bolt	3/8"x3-1/2"	with 1-3/4" min embed.
POWER STUD anchor	3/8"x3-1/2"	with 1-5/8" min embed.
POWER LOK/BOLANCHOR	3/8"x3-1/2"	with 1-5/8" min embed.

Minimum edge spacing of 2-1/2" for all

Concrete Construction Minimum Spacing (inches)		Min 2000 PSI Concrete						
Design Load (lb/sq ft)		Door Width (ft)						
		9'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"
10	5	24	24	24	24	24	24	24
15	5	24	24	24	24	24	24	24
20	5	24	24	24	24	24	24	24
25	5	24	24	24	24	24	24	24
30	5	24	24	24	24	24	24	24
35	5	24	24	24	24	24	24	24
40	5	24	24	24	24	24	24	24
45	5	24	24	24	24	24	24	24
50	5	24	24	24	24	24	24	24
50	22	19	16	14	12	11	10	10

DOOR FRAME PLATE CONNECTION SCHEDULE 1.2

Load Table Based on:
 ITW Ramset/Red Head Topcon 1-3/4"x3" with 1-3/4" min embed
 ITW Ramset/Red Head Topcon 5/16"x3" with 1-3/4" min embed
 Minimum edge spacing of 2-1/2" for all

[illegible]

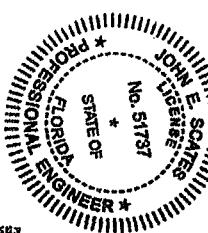
DOOR ELEVATION

(INTERIOR ELEVATION)

DOOR FRAME PLATE CONNECTION SCHEDULE 1.3

Load table Based on 11W Rammed/Rad Head 14pcpr Self
Topping 1 1/4" x 3" Concrete Anchor With 1-1/2" Embed
(min 5/8" O.D. Steel Washer per Anchor)
Minimum edge spacing of 2-1/2"

Massing/Concrete Construction	Door Width (ft)	Door Height (ft)							
		5'-0"	10'-0"	12'-0"	14'-0"	15'-0"	16'-0"	20'-0"	24'-0"
15	0	24	24	24	24	22	19	17	15
10	0	24	24	24	24	22	19	17	15
5	0	24	24	24	24	22	19	17	15
20	0	24	24	24	24	22	19	17	15
30	0	24	24	24	24	22	19	17	15
40	0	24	24	24	24	22	19	17	15
50	0	24	24	24	24	22	19	17	15
15	10	24	24	24	24	22	19	17	15
10	10	24	24	24	24	22	19	17	15
5	10	24	24	24	24	22	19	17	15
20	10	24	24	24	24	22	19	17	15
30	10	24	24	24	24	22	19	17	15
40	10	24	24	24	24	22	19	17	15
50	10	24	24	24	24	22	19	17	15



PROFESSIONAL ENGINEER'S
SEAL PROVIDED ONLY FOR
VERIFICATION OF WORKLOAD
CONSTRUCTION DETAILS

3609 E. SCOTT, P.E.
3121 FOREST
CORRECTION, TX
FLORIDA, P.E. # 67737
12045 P.L. # 18008

NOTES: THIS DRAWING AND / OR TECHNICAL INFORMATION ON THIS SHEET IS THE PROPERTY OF MD-AMERICA DOOR COMPANY AND IS LOANED IN CONFIDENCE FOR ENGINEERING AND MUTUAL ASSISTANCE PURPOSES ONLY, AND MAY NOT BE REPRODUCED OR USED TO MANUFACTURE ANYTHING DISCLOSED HEREON WITHOUT THE EXPRESSED PERMISSION OF MD-AMERICA DOOR COMPANY.

Item #	Qty	Description	Unit	Price	Total
1	1	1000	EA	10.00	10.00
2	1	2000	EA	20.00	20.00
3	1	3000	EA	30.00	30.00
4	1	4000	EA	40.00	40.00
5	1	5000	EA	50.00	50.00
6	1	6000	EA	60.00	60.00
7	1	7000	EA	70.00	70.00
8	1	8000	EA	80.00	80.00
9	1	9000	EA	90.00	90.00
10	1	10000	EA	100.00	100.00
11	1	11000	EA	110.00	110.00
12	1	12000	EA	120.00	120.00
13	1	13000	EA	130.00	130.00
14	1	14000	EA	140.00	140.00
15	1	15000	EA	150.00	150.00
16	1	16000	EA	160.00	160.00
17	1	17000	EA	170.00	170.00
18	1	18000	EA	180.00	180.00
19	1	19000	EA	190.00	190.00
20	1	20000	EA	200.00	200.00
21	1	21000	EA	210.00	210.00
22	1	22000	EA	220.00	220.00
23	1	23000	EA	230.00	230.00
24	1	24000	EA	240.00	240.00
25	1	25000	EA	250.00	250.00
26	1	26000	EA	260.00	260.00
27	1	27000	EA	270.00	270.00
28	1	28000	EA	280.00	280.00
29	1	29000	EA	290.00	290.00
30	1	30000	EA	300.00	300.00
31	1	31000	EA	310.00	310.00
32	1	32000	EA	320.00	320.00
33	1	33000	EA	330.00	330.00
34	1	34000	EA	340.00	340.00
35	1	35000	EA	350.00	350.00
36	1	36000	EA	360.00	360.00
37	1	37000	EA	370.00	370.00
38	1	38000	EA	380.00	380.00
39	1	39000	EA	390.00	390.00
40	1	40000	EA	400.00	400.00
41	1	41000	EA	410.00	410.00
42	1	42000	EA	420.00	420.00
43	1	43000	EA	430.00	430.00
44	1	44000	EA	440.00	440.00
45	1	45000	EA	450.00	450.00
46	1	46000	EA	460.00	460.00
47	1	47000	EA	470.00	470.00
48	1	48000	EA	480.00	480.00
49	1	49000	EA	490.00	490.00
50	1	50000	EA	500.00	500.00
51	1	51000	EA	510.00	510.00
52	1	52000	EA	520.00	520.00
53	1	53000	EA	530.00	530.00
54	1	54000	EA	540.00	540.00
55	1	55000	EA	550.00	550.00

Jamb Plate Fastener Schedule		Spec. No.		Sht. No.	
1		1		4	

Mid-America Door Company		Model, Qty, etc.	
Description		1	