

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 p	olans containing the follow	wing:	V		
2	All drawings must be clear	r, concise, drawn to scale,	, details that are not used shall be marked void			
3	Condition space (Sq.		Total (Sq. Ft) under roof	ппп	ШШИ	иш
	Ft)		450	1		

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	V.	
5	Dimensions of all building set backs	1	
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed	1	
	well and septic tank and all utility easements	V	
7	Provide a full legal description of property.	1/	

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

	GENERAL REQUIREMENTS:	Items	to Includ	le-
	APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Box shall	be
			ircled as	
-1-41		App	licable	
8	Plans or specifications must show compliance with FBCR Chapter 3	шш	ШП	ШШ
		YES	NO	N/A
9	Basic wind speed (3-second gust), miles per hour	V		
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	V,		
12	The applicable internal pressure coefficient, Components and Cladding			
13	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component, cladding materials not specifally designed by the registered design professional.	/	i	
			1	

Elevations Drawing including:

14	All side views of the structure	V,	
15	Roof pitch	V	
16	Overhang dimensions and detail with attic ventilation	V	
17	Location, size and height above roof of chumneys		1/
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:

	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck,	/	
20	balconies		
21	Raised floor surfaces located more than 30 inches above the floor or grade		1/
22	All exterior and interior shear walls indicated		
23	Shear wall opening shown (Windows, Doors and Garage doors)	V	
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	ļ ,	
	opening of an operable window is located more than 72 inches above the finished grade or surface		ŀ
	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	1	i/
25	Safety glazing of glass where needed		6
	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth		
26	(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)		V

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.	v		
30	All posts and/or column footing including size and reinforcing			V
31	Any special support required by soil analysis such as piling.			V
32	Assumed load-bearing valve of soil 15/11 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)	1	
35	Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports	V	

FBCR 318: PROTECTION AGAINST TERMITES

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

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	- 1/		

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	Ø	
40	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or priers		
41	Girder type, size and spacing to load bearing walls, stem wall and/or priers		
42	Attachment of joist to girder		V
43	Wind load requirements where applicable		V
44	Show required under-floor crawl space		1/
45	Show required amount of ventilation opening for under-floor spaces		17.
46	Show required covering of ventilation opening		
47	Show the required access opening to access to under-floor spaces		V
48	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & inter- of the areas structural panel sheathing		/

49	Show Draftstopping, Fire caulking and Fire blocking			LV.
50	Show fireproofing requirements for garages attached to living spaces, per FBCR section 302.6			1/
51	Provide live and dead load rating of floor framing systems (psf).			V
FB	CR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION			
·				
			to Inclu	
	GENERAL REQUIREMENTS:		3ox shall	i be
	APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		rcled as	{
		·	plicable	
		YES	NO	N/A
52	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls			1/.
53	Fastener schedule for structural members per table IRC 602.3 are to be shown			V
	Show Wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural			
54	members, showing fastener schedule attachment on the edges & intermediate of the areas structural			
	panel sheathing			
	Show all required connectors with a max uplift rating and required number of connectors and			
55	oc spacing for continuous connection of structural walls to foundation and roof trusses or		ĺ	
	rafter systems			\ \
	Show sizes, type, span lengths and required number of support jack studs, king studs for shear			
56	wall opening and girder or header per IRC Table 502.5 (1)			V
57	Indicate where pressure treated wood will be placed			1/
	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural	i		/
58	panel sheathing edges & intermediate areas			W
59	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail		<u> </u>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	SCR :ROOF SYSTEMS:			<u> </u>
60	Truss design drawing shall meet section FBCR 802.1.6.1 Wood trusses	-V/-		<u> </u>
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			
F	BCR 802:Conventional Roof Framing Layout			,
65	Rafter and ridge beams sizes, span, species and spacing			1
66				
67	Valley framing and support details			1/
68	Provide dead load rating of rafter system			
<u>F</u>	BCR 803 ROOF SHEATHING			,
69	Include all materials which will make up the roof decking, identification of structural panel	1		
	sheathing, grade, thickness	1/		
70	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas			
Re	OOF ASSEMBLIES FRC Chapter 9			
71	Include all materials which will make up the roof assembles covering		T	T
$\frac{72}{72}$	Submit Florida Product Approval numbers for each component of the roof assembles covering	1/	+	-
	Submit 1 10 and 1 10 and 1 Applotal lighteets for each competition of the foot 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 1 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	Each E Ci Ap	to Includ Box shall reled as plicable	be
		YES	NO	N/A
73	Show the insulation R value for the following areas of the structure			1/
74	Attic space			1
75	Exterior wall cavity			1//
76	Crawl space			V
HY 77	AC information Submit two copies of a Manual J sizing equipment or equivalent computation study	ı		1/
78				
	20 cfm continuous required			
79	Show clothes dryer route and total run of exhaust duct			7
80 81	All fixtures waste water lines shall be shown on the foundation plan Show the location of water heater			1
<u>Pr</u> i	ivate Potable Water			
82	Pump motor horse power			1/
83	Reservoir pressure tank gallon capacity			1/1
	Rating of cycle stop valve if used			7
84			.l	L.(/
	ectrical layout shown including			[
<u>El</u> 6	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans			
Ele 85	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected			
Eld 85 86	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans 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	<i>\</i>		
Ele 85	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected	\/ \/		

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

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

cable will be of the overhead or underground type.

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

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.		1

<u>Disclosure Statement for Owner Builders</u> 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.

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

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

-	Y	ES	NO	N/A
92	Building Permit Application A current On-Line Building Permit Application <u>www cepermit con</u> 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			V
96	Toilet facilities shall be provided for all construction sites	V		
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 Fown 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.			1
100	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is \$50.			1
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. Γ maintained road, then an F D O.T access permits 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	a		/

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 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 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 nu 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 if 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) Sirgle Double 1. EXTERIOR DOORS mason ite 4940-01 A. SWINGING B. SLIDING C. SECTIONAL D. ROLL UP E. AUTOMATIC mid America Garase Door F1 1047419 F. OTHER 2. WINDOWS A. SINGLE HUNG B. HORIZONTAL SLIDER C. CASEMENT D. DOUBLE HUNG E. FIXED F. AWNING G. PASS THROUGH H. PROJECTED 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 GLASS BLOCK MEMBRANE **GREENHOUSE** J. OTHER 4. ROOFING PRODUCTS Tam Ko 01-0919.11 A. ASPHALT SHINGLES Art 20 Year **B. UNDERLAYMENTS** 1956 C. ROOFING FASTENERS D. NON-STRUCTURAL METAL ROOFING E. WOOD SHINGLES AND SHAKES F. ROOFING TILES G. ROOFING INSULATION H. WATERPROOFING BUILT UP ROOFING **ROOF SYSTEMS** J. MODIFIED BITUMEN K. SINGLE PLY ROOF **SYSTEMS** L. ROOFING SLATE M. CEMENTS-ADHESIVES COATINGS

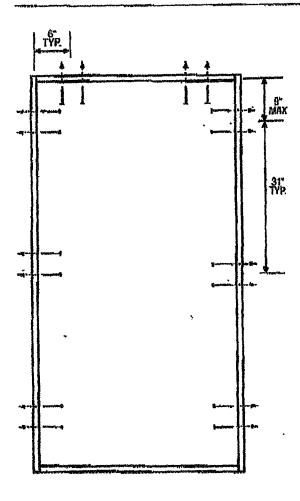
Category/Subcategory	Manufacturer	Product Description	Ammuoval Mirmshow(a)
Lategory/Subcategory	Manulacturer	Product Description	Approval Number(s)

P. SPRAY APPLIED			
P. SPRAY APPLIED			i l
1			
DOLVUDETUANE DOOF			
POLYURETHANE ROOF			1
Q. OTHER			
G. GITTELL			
5. SHUTTERS			
A. ACCORDION			
B. BAHAMA			
C. STORM PANELS			
D. COLONIAL			
E. ROLL-UP			
F. EQUIPMENT			
G. OTHERS			
6. SKYLIGHTS			
A. SKYLIGHT	· · · · · · · · · · · · · · · · · · ·		
B. OTHER			
D. Official			
7. STRUCTURAL			
COMPONENTS			
A. WOOD CONNECTORS/			
ANCHORS			İ
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	Sim 150 M	2211 Strap	FL1423
8. NEW EXTERIOR			
ENVELOPE PRODUCTS			
Α.			
В.			
L.			L
products, the following informati	on must be available to th	proval at plan review. I understand that at the time of the inspector on the jobsite; 1) copy of the product apport to comply with, 3) copy of the applicable manufacture	roval, 2) the performance

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.

Roll Clark 9-11-13
APPLICANT SIGNATURE 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 serous per location.

Rough Opening (HD)

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



Test Data Review Carlinose #5025947A; #5020447B, #5026447G and COP/Test Fiscot Validation Matrix #5028447A-001, 002, 003, 004; #5026447B-001, 002, 003, 004; #5026447G-001, 002, 003, 004; #5026447B-001, 002, 003, 004; #5026447G-001, 002, 003, 004 granides additional Maternation = scalable from the 155764th schools (sweet-liberation.com), the Masonille website (surge expensive company for the Masonille website (surge expensive company) and the Masonille website (surge expensive company).

Latching Hardware:

- 'Compliance requires that GRADE 3 or better (ANSI/BHMA A158.2) 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" canterline QB that
 GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed @ 5-1/2" canterline with 8" GRADE 1 (ANSI/BHMA A156.16)
 surface bolls installed on latch side of active door panel (1) at top and (1) at bottom.
- 2 Compliance requires that GRADE 3 or better (ANS//BHMA A156.2) cylindrical and deadlock hardware be installed @ 10-1/2" centerline with 8" GRADE 1 (ANS//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 (ANS//BHMA A156.2) cylindrical and deadlock hardware be installed & 5-1/2" centerline with 8" GRADE 1 (ANSI/BHMA A156.16) surface bolls installed on latch side of active door panel — (1) at top and (1) at bottom.

flarquery requirements not funktorist on COP documents shall comply with item 1 as shown above.

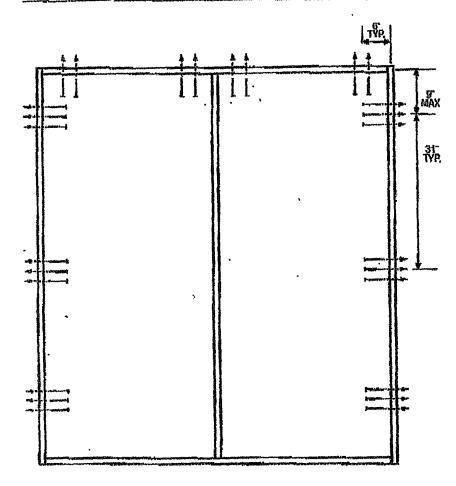
Notes:

- Anohor 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 facation. Threshold fasteners
 analyzed for this unit include Liquid Nails Builders Choice 490 (or equal structural adhesive).
- The 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".
- Wood bucks by others, must be anchored properly to transfer leads to the structure.





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

Hings and strike plates require two 2-1/2" long strews per location.

Rough Opening (RO)

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



Ties Osta Review Castificate #3028447A: #3028447B; #3028447C and COP/Test Report Validation Nature #3028447A-001, 602, 003, 004; #2028467B-001, 003, 004; #2028467B-001, 002, 003, 004 provide additional injurnation - scalable from the ITS/WHI tested to (www.clipepto.com), the Masonite website (www.clipepto.com) or the Masonite Technical Center.

Latching Hardware:

- 'Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) bylindrical and deadlock hardware be installed @ 6-1/2" centerline.
- * Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed @ 10-1/2" centerline OB 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 holis installed on latch side of active door panel (1) at top and (1) at bottom.
- Compliance requires that GRADE 8 or better (ANS/BHMA A156.2) cylindrical and deadlock hardware be installed @ 10-1/2" centerline with 8" GRADE 1 (ANSI/BHMA A156.16) surface boils installed on latch side of active door panel — (1) at top and (1) at bottom.
- Compliance requires that GRADE 3 or batter (ANSI/BHMA A156.2) cylindrical and deadlock handware he 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 boltom.

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

Notes:

- Anchor calculations have been carded out with the fastanar rating from the different fastaners being considered for use. Jamb and head
 fastaners analyzed for this unit include #8 wood sorews 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).
- The word screw and common nell single shear design values come from ANSI/AF & PA NOS 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.



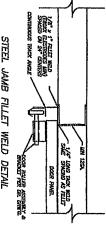
- 1. There are two approved methods for attachment of the door to the building.

 A Attaching a 2x6 to the building structure using schedule 1.0, 1.1, 1.2 or 1.3 (see pg1of 2).

 The 2 X6 is others southern plue on this drawing.

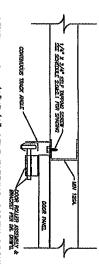
 B. Mount the track directly to the building structure using schedule 2.02, 1.2, 2.2, 3.2, 5. (Worlding Structure 1.5).

 Leg 2) Maunting active to building (see page of 2) Maunting Structure is for commercial design (see page 1.6). The structure is for commercial to the structure is a coverage with the building is required.
- Determine the positive design windload for a particular door, rounded down to the negrest 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.
- 4. First Anchor (bottom) starting at no more than half of the maximum on-center distance.
- 5. Top Anchor installed at least as high as the door opening.
- Door Must overlop a minimum of 7/15" per jamb, if the door does not overlop the immi, then stop meding must be used and noised on using file naise speed not greater than 8 inches apart. Reddless finish noise may not be used.
- Bullding engineer/Architect is responsible for ensuring that the binding structure is sufficient for the loads applied.
 Butch fastaness 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 Walds to be evenly spaced between header and floor.
- First (Dation) weld starting at no more than half of the maximum on center distance. Highest weld at least as high as the door opening.
- All neits should be performed by a certified melder or inspected by a certified melding inspector to verify the integrity of the meld.
- Fillet welds should have a straight or convex face surface.
- Tack wild the of the augle at the same spacing to prevent radian or the track argis, or the same spacing to prevent and stand bignishes shall be ground to a smooth contour and because in soundness.



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

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

Load Table Based on:

AWKT-TIE Wadge but 3/8"x3-1/2" with 1"-3/4" min embed.

AWKT-TIE Stud but 3/8"x3-1/2" with 1"-3/4" min embed.

AWKT-TIE Stud but 3/8"x3-1/2" with 1"-3/4" min embed.

FOWER STUD anchor 3/8"x3-1/2" with 1"-5/8" min embed.

FOWER LOK/FOUTanchor 3/8"x3-1/2" with 1"-5/8" min embed.

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

DOOR FRAME PLATE CONNECTION SCHEDULE 2.2

MOUNT TO CONCRETE

HOW HOUSE ASSESSMENT &

Concrete Construction, Kaximum Spacing (inches)

Opening Width(ft)

Min 2000 PSI Concrete

Table values referenced from DASMA TDS 161	50	Ś	đ	ĕ	30	25	20	15	õ	(3)	Design Load	12GA. S
referenced	:	12	14	16	19	22	24	2	24	90		12GA. STEEL CONSTRUCTION
from DAS	30	-	122	74	17	20	24	24	24	10'-0"		STRUCTIC
SMA TOS	8	9	70	72	14	17	21	24	24	12'-0"	οp	W
161	7	8	9	70	12	×	18	24	24	14'-0"	Opening Width(ft)	Maximum
	65	7	8	9	10	122	16	21	24	16'-0"	h(ft)	Maximum Spocing (inches)
	6	6	7	8	9	=	74	19	24	18'-0"		(inches)
	5	6	6	7	8	10	12	17	24	20'-0"		

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3/16" STEEL CONSTRUCTION	EEL CON	STRUCTIO	Z	Maximum	Haximum Spacing (Inches)	Inches)	
Design Load			Ope	Opening Width(R)	(H);		
(PSP)	9'-0"	10:-0"	12'-0"	14-00	16'-0"	18'-0"	20'-
10	24	24	24	24	1.5	24	24
15	24	24	24	24	24	24	24
28	24	24	24	24	24	24	24
25	24	20	24	24	24	24	2
30	24	24	24	24	22	20	18
35	24	24	24	22	19	17	15
40	24	24	22	19	17	15	13
45	24	24	20	17	15	13 1	12
50	24	21	18	15	13	12	11

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		CONNECTION
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Washer	50	25	40	35	30	25	20	15	10	(150)	Design Load	Concrete Maximum	Load Table ITW Ramse ITW Ramse Minimum e
WITH 0 17	24	24	24	24	24	24	24	24	24	9'-2"		e Constru Spacing (lle Based on set/Red Head set/Red Head edge spacin
isimum of	24	24	24	2	24	24	24	24	24	10'-2"		nction nches)	
with a minimum of 5/8" OD or greater required an oil fasteners.	21	23	24	24	24	24	24	24	24	12'-2"	þ		apcon 1/2
or greater	18	20	22	24	24	24	24	24	24	14'-2"	Door Width(ft)	Min	for all
opulupa c	76	17	20	22	24	24	24	24	24	16-2	Æ)	3000 P	# 13
r of foater	14	15	17	20	23	24	24	24	24	18'-2"		Min 3000 PSI Concrete	4 min
9.0	12	14	16	18	21	24	24	24	24	20'-2"		ete	embed embed

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NOTES:

CHEMICAL DENTALS John Esont

