Florida Energy Efficiency Code For Building Construction

EnergyGauge Summit® Fla/Com-2010, Effective Date: March 15, 2012 – Form 506-2010
Total Building Performance Method for Commercial Buildings

PROJECT SUMMARY

Short Desc:	Retail	**Description:**	Lake City retail
Owner:	Matress Firm		
Address1:	Lake City Place	**City:**	Lake City
Address2:		**State:**	Florida
		Zip:	32055
Type:	Retail	**Class:**	New Finished building
Jurisdiction:	LAKE CITY, COLUMBIA COUNTY, FL (221200)		
Conditioned Area:	4347 SF	**Conditioned & UnConditioned Area:**	4347 SF
No of Stories:	1	**Area entered from Plans**	4347 SF
Permit No:		**Max Tonnage**	8.5
		If different, write in:	_____

- LOAD CALC ATTACHED.

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

MDCI FLORIDA, INC.
405 2nd Street South • Suite B
Safety Harbor, Florida 34695
Engineering Business No. 9204

Compliance Summary

Component	Design	Criteria	Result
Gross Energy Cost (in $)	5,673.0	5,701.0	**PASSED**
LIGHTING CONTROLS			**PASSES**
EXTERNAL LIGHTING			**None Entered**
HVAC SYSTEM			**PASSES**
PLANT			**None Entered**
WATER HEATING SYSTEMS			**PASSES**
PIPING SYSTEMS			**None Entered**
Met all required compliance from Check List?			**Yes/No/NA**

IMPORTANT MESSAGE
Info 5009 -- -- -- An input report of this design building must be submitted along with this Compliance Report

CERTIFICATIONS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code

Prepared By: Garland Patterson, P.E. #14175 Building Official: _____

Date: 1/28/14 Date: _____

I certify that this building is in compliance with the FLorida Energy Efficiency Code

Owner Agent: _____ Date: _____

If Required by Florida law, I hereby certify (*) that the system design is in compliance with the Florida Energy Efficiency Code

Architect:	Joseph Oliveri	Reg No: 0002921
Electrical Designer:	William Ritola	Reg No: 59480
Lighting Designer:	William Ritola	Reg No: 59480
Mechanical Designer:	Garland Patterson	Reg No: 14175
Plumbing Designer:	Garland Patterson	Reg No: 14175

(*) Signature is required where Florida Law requires design to be performed by registered design professionals.

Project: Retail
Title: Lake City retail
Type: Retail
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Building End Uses

	1) Proposed	2) Baseline
Total	*370.10*	*462.40*
	$5,673	*$7,127*
ELECTRICITY(MBtu/kWh/$)	370.10	462.40
	108469	135485
	$5,673	*$7,127*
AREA LIGHTS	128.40	136.20
	37621	39921
	$1,968	*$2,100*
MISC EQUIPMT	63.60	63.60
	18642	18642
	$975	*$981*
PUMPS & MISC	0.00	0.10
	3	21
	$0	*$1*
SPACE COOL	134.60	138.60
	39451	40603
	$2,063	*$2,136*
SPACE HEAT	0.40	11.30
	113	3312
	$6	*$174*
VENT FANS	43.10	112.60
	12639	32986
	$661	*$1,735*

Credits Applied: None
Passing Criteria = 5701
Design (including any credits) = 5673
Passing requires Proposed Building cost to be at most 80% of Baseline cost. This Proposed Building is at 79.6%

PASSES

External Lighting Compliance

Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)

None

Project: Retail
Title: Lake City retail
Type: Retail
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli-ance
Pr0Zo1Sp1	25.001	Sales Area	4,347	4	2	PASSES

PASSES

Project: Retail
Title: Lake City retail
Type: Retail
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

System Report Compliance

Pr0Sy1 **System 1** **Constant Volume Packaged System** **No. of Units 1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp-liance
Cooling System	Air Conditioners Air Cooled 65000 to 135000 Btu/h Cooling Capacity		11.30	11.20	11.40	11.40	PASSES
Heating System	Electric Furnace		1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.30	0.82			PASSES
Air Handling System - Return	Air Handler (Return) - Constant Volume		0.30	0.82			PASSES
Air Distribution System (Sup)	ADS System (Sup)		6.00	4.20			PASSES
Air Distribution System (Ret)	ADS System (Ret)		6.00				PASSES

Pr0Sy2 **System 2** **Constant Volume Packaged System** **No. of Units 1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp-liance
Cooling System	Air Conditioners Air Cooled 65000 to 135000 Btu/h Cooling Capacity		11.30	11.20	11.40	11.40	PASSES
Heating System	Electric Furnace		1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.30	0.82			PASSES
Air Handling System - Return	Air Handler (Return) - Constant Volume		0.30	0.82			PASSES
Air Distribution System (Sup)	ADS System (Sup)		6.00	4.20			PASSES
Air Distribution System (Ret)	ADS System (Ret)		6.00				PASSES

PASSES

Plant Compliance

Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Compliance

None

Project: Retail
Title: Lake City retail
Type: Retail
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Water Heater Compliance

Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Compliance
Water Heater 1	Electric water heater	<= 12 [kW]	0.95	0.94			PASSES

PASSES

Piping System Compliance

Category	Pipe Dia [inches]	Is Runout?	Operating Temp [F]	Ins Cond [Btu-in/hr .SF.F]	Ins Thick [in]	Req Ins Thick [in]	Compliance

None

Project: Retail
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Type: Retail
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Other Required Compliance

Category	Section	Requirement (write N/A in box if not applicable)	Check
Report	506.4.2	Input Report Print-Out from EnergyGauge FlaCom attached	☑
Operations Manual	303.3.1, 503.2.9.3, 505.7.4.2	Operations manual provided to owner	☑
Windows & Doors	502.3.2	Glazed swinging entrance & revolving doors: max. 1.0 cfm/ft²; all other products: 0.3 cfm/ft²	☑
Joints/Cracks	502.3.3	To be caulked, gasketed, weather-stripped or otherwise sealed	☑
Dropped Ceiling Cavity	502.3	Vented: seal & insulated ceiling. Unvented seal & insulate roof & side walls	☑
HVAC Efficiency	503.2.3	Minimum efficiencies: Tables 503.2.3(1)-(8)	☑
HVAC Controls	503.2.4	Zone controls prevent reheat (exceptions); separate thermostatic control per zone;	☑
Ventilation	503.2.5	Outdoor air supply & exhaust ducts shall have dampers that automatically shut when systems or spaces served are not in use. Exhaust air energy recovery required for cooling systems (Exceptions).	☑
ADS	503.2.7.5	Duct sizing and Design have been performed	☑
HVAC Ducts	503.2.7	Air ducts, fittings, mechanical equipment & plenum chambers shall be mechanically attached, sealed, insulated & installed per Table 503.2.7.2. Fan power limitations.	☑
Balancing	503.2.9.1	HVAC distribution system(s) tested & balanced. Report in construction documents.	☑
Piping Insulation	503.2.8	HAC and service hot water. In accordance with Table 503.2.8.	☑
Water Heaters	504	Performance requirements in accordance with Table 504.2. Heat trap required.	☑
Swimming Pools	504.7	Vapor-retardant or liquid cover or other means proven to reduce heat loss on heated pools; Time switch (exceptions); readily accessible on/off switch.	N/A
Motors	505.7.5	Motor efficiency criteria have been met	☑
Lighting Controls	505.2, 502.3	Automatic control required for interior lighting in buildings >5,000 s.f.; Space control; Exterior photo sensor; Tandom wiring with 1 or 3 linear fluorescent lamps>30W	☑

EnergyGauge Summit® v4.10

INPUT DATA REPORT

Project Information

Project Name: Retail
Project Title: Lake City retail
Address: Lake City Place

State: Florida
Zip: 32055

Owner: Matress Firm

Orientation: North
Building Type: Retail
Building Classification: New Finished building

No.of Stories: 1
GrossArea: 4347 SF

Zones

No	Acronym	Description	Type	Area [sf]	Multiplier	Total Area [sf]	
1	Pr0Zo1	Zone 1	CONDITIONED	4347.0	1	4347.0	☐

Spaces

No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Multiplier	Total Area [sf]	Total Volume [cf]

In Zone: Pr0Zo1									
1	Pr0Zo1Sp1	Retail Shopping Center Sales Area space	69.00	63.00	10.00	1	4347.0	43470.0	☐

Lighting

No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No.of Ctrl pts	
In Zone: Pr0Zo1								
In Space: Pr0Zo1Sp1								
1	Recessed Fluorescent - No vent	General Lighting	1	6644	6644	Central control	3	☐
2	Incandescent	General Lighting	1	320	320	Central control	1	☐

Walls

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Direction	Conductance [Btu/hr. sf. F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone: Pr0Zo1												
1	Pr0Zo1Wa1	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	63.00	10.00	1	630.0	North	0.2642	9.696	62.72	3.8	☐
2	Pr0Zo1Wa2	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	63.00	10.00	1	630.0	South	0.2642	9.696	62.72	3.8	☐
3	Pr0Zo1Wa3	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	69.00	10.00	1	690.0	East	0.2642	9.696	62.72	3.8	☐
4	Pr0Zo1Wa4	8"CMU/3/4"ISO BTWN24"oc/5/8 Gyp	69.00	10.00	1	690.0	West	0.2642	9.696	62.72	3.8	☐

Windows

No	Description	Type	Shaded	U [Btu/hr sf F]	SHGC	Vis.Tra	W [ft]	H (Effec) [ft]	Multi plier	Total Area [sf]
In Zone: Pr0Zo1										
In Wall: Pr0Zo1Wa2										
1	Pr0Zo1Wa2Wi1	User Defined	No	0.6800	0.65	0.76	4.00	8.00	10	320.0

Doors

No	Description	Type	Shaded?	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Dens. [lb/cf]	Heat Cap. [Btu/sf. F]	R-Value [h.sf.F/Btu]
In Zone: Pr0Zo1											
In Wall: Pr0Zo1Wa2											
1	Pr0Zo1Wa2Dr1	Solid core flush	No	3.00	7.00	2	21.0	0.7600	16.00	0.75	1.32

Roofs

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg]	Cond. [Btu/hr. Sf. F]	Heat Cap [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]
In Zone: Pr0Zo1											
1	Pr0Zo1Rf1	Built-up Gravel/2" ISO/Mtl Deck	63.00	69.00	1	4347.0	0.00	0.0499	1.49	9.50	20.1

Skylights

No	Description	Type	U [Btu/hr sf F]	SHGC	Vis.Trans	W [ft]	H (Effec) [ft]	Multiplier	Area [Sf]	Total Area [Sf]
In Zone:										
In Roof:										

Floors

No	Description	Type	Width [ft]	H (Effec) [ft]	Multiplier	Area [sf]	Cond. [Btu/hr. sf. F]	Heat Cap. [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone: Pr0Zo1											
1	Pr0Zo1Fl1	Concrete floor, carpet and rubber pad	63.00	69.00	1	4347.0	0.5987	9.33	140.00	1.67	☐

Systems

Pr0Sy1 **System 1** **Constant Volume Packaged System** **No. Of Units 1**

Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	102000.00	11.30	11.40	☐
2	Heating System	25598.00	1.00		☐
3	Air Handling System -Supply	3000.00	0.30		☐
4	Air Handling System - Return	2700.00	0.30		☐
5	Air Distribution System (Sup)		6.00		☐
6	Air Distribution System (Ret)		6.00		☐

Pr0Sy2 **System 2** **Constant Volume Packaged System** **No. Of Units 1**

Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	90000.00	11.30	11.40	☐
2	Heating System	25598.00	1.00		☐
3	Air Handling System -Supply	3000.00	0.30		☐
4	Air Handling System - Return	2700.00	0.30		☐
5	Air Distribution System (Sup)		6.00		☐
6	Air Distribution System (Ret)		6.00		☐

Plant

Equipment	Category	Size	Inst.No	Eff.	IPLV

Water Heaters

W-Heater Description	CapacityCap.Unit	I/P Rt.	Efficiency	Loss
1 Electric water heater	20 [Gal]	2 [kW]	0.9500 [Ef]	[Btu/h]

Ext-Lighting

Description	Category	No. of Luminaires	Watts per Luminaire	Area/Len/No. of units [sf/ft/No]	Control Type	Wattage [W]

Piping

No	Type	Operating Temperature [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?

Fenestration Used

Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SHGC	VLT
ApLbWnd11	User Defined	1	0.6800	0.6500	0.7600

6W STANDARD LOAD OUTPUTS

Company Name: 01-28-14
Block Load v1.0 Page 1

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Zone Name: LAKE CITY RETAIL

City Name : JACKSONVILLE, FLORIDA
Latitude (deg): 30
Elevation (ft): 24
Indoor -Summer: 74 F 50 RH
-Winter: 75 F

Weight (lb/sqft) - Wall: 30 Roof: 40 Bldg: 30
Color - Wall: LIGHT Roof: LIGHT

	TEMP	TOTAL TONS	RSH TONS	CFM
1. JAN at 8 A.M.	62.8	11.32	10.81	6,206
2. FEB at 9 A.M.	67.2	14.02	12.89	7,401
3. APR at 10 A.M.	77.8	14.91	12.53	7,195
4. MAY at 2 P.M.	91.0	14.25	10.78	6,190
5. JUN at 5 P.M.	93.0	14.60	10.62	6,098
6. AUG at 5 P.M.	94.0	14.67	10.69	6,138
7. NOV at 11 A.M.	75.4	15.88	13.69	7,860

Heating Load (Btuh)= 90,491 w/Infil.= 90,491 Airflow= 2,350 cfm

ORIENTATION OF BUILDING	N	S	E	W	RF
TRANSMISSION FACTORS	0.14	0.14	0.14	0.14	0.05

Glass Fac.:1.13 Lights Fluorescent? Y Shade Fac.:1.00 Floors: 1
Length: 64 Width: 69 Height: 10 Vent Air Percent: 9

Number of people =	22	Sensible people load =	5,410
Total lights =	6,624	Lighting load =	28,260
Other electrical =	11,040	Other electrical =	37,680
Area of N glass =	420	North glass solar =	3,211
Area of S glass =	420	South glass solar =	67,447
Area of E glass =	360	East glass solar =	20,598
Area of W glass =	0	West glass solar =	0
Total glass area =	1,200	Total glass solar =	91,256
		Total glass trans. =	1,898
Area of N wall =	220	N wall load =	-148
Area of S wall =	220	S wall load =	311
Area of E wall =	330	E wall load =	380
Area of W wall =	690	W wall load =	-379
Total wall area =	1,460	Total wall trans. =	164
Area of roof =	4,416	Roof load =	-414
Safety factor =	0%	Safety load =	0
Supply fan hp =	1.13	Fan heat gain (DT) =	3,450
Ventilation cfm =	707	Vent sensible load =	1,088
		Vent latent load =	17,173
		People latent load =	4,526
Total cfm-std air=	7,860	Total latent load =	21,699
Room sensible =	164,275	Room latent =	4,526

Plenum return exhaust credit = 0

--> GRAND TOTAL LOAD = 190,513 Btu/hr or 15.88 tons <--

Load run for # 7. NOV at 11 A.M.

Ventilation load =	35,752	Roof heating load =	10,157
Glass heat load =	62,376	Wall heating load =	9,402
Infiltration load=	0	Warm-up load =	0
Slab heating load=	8,556	Heat load with vent =	126,243

MDCI FLORIDA, INC.
405 2nd Street South • Suite B
Safety Harbor, Florida 34695
Engineering Business No. 9204

LOAD BASED ON ASHRAE COOLING AND HEATING LOAD CALCULATION MANUAL.

Columbia County
BUILDING DEPARTMENT

Revised 3/15/12

MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR THE 2010 FLORIDA BUILDING CODE ,FLORIDA PLUMBING CODE,FLORIDA MECHINICAL CODE,FLORIDA FUEL AND GAS CODE 2010 EFFECTIVE 15 MARCH 2012 AND 2008 NATIONAL ELECTRICAL

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

COMMERCIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT FLORIDA BUILDING CODES. ALL PLANS OR DRAWING SHALL PROVIDED 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 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:	Items to Include- Each Box shall be Circled as Applicable		
1	All drawings must be clear, concise and drawn to scale, details that are not used shall be marked void.	YES	NO	N/A
2	If the design professional is an architect or engineer legally registered under the laws of this state regulating the practice of architecture as provided for in Chapter 481, Florida Statutes, Part I, or engineering as provided for in Chapter 471, Florida Statutes, then he or she shall affix his or her official seal to said drawings, specifications and accompanying data, as required by Florida Statute.	YES	NO	N/A
3	The design professional signature shall be affixed to the plans	YES	NO	N/A
4	Two (2) complete sets of plans with the architecture or engineer signature and the date the affix embossed official seal was placed on the plans	YES	NO	N/A

Two (2) complete sets of plans containing the following information:

	Building Site Plan Requirements	Items to Include- Each Box shall be Circled as Applicable		
4	Parking, including provision Florida Building Code Accessibility Code	Yes	No	N/A
5	Fire access, showing all drive way which will be accessible for emergency vehicles	Yes	No	N/A
6	Driving/turning radius of parking lots	Yes	No	N/A
7	Vehicle loading include truck dock loading or rail site loading	Yes	No	N/A
8	Nearest or number of onsite Fire hydrant/water supply/post indicator valve (PIV)	Yes	No	N/A
9	Set back of all existing or proposed structures from each structure and property boundaries, Show all separation including assumed property lines	Yes	No	N/A
10	Location of specific tanks(above or under grown ,water lines and sewer lines and septic tank and drain fields	Yes	No	N/A
11	All structures exterior views include finished floor elevation	Yes	No	N/A
12	Total height of structure(s) form established grade	Yes	No	N/A
	Review required by the Columbia County Fire Department Items 13Th 43			

	Occupancy group use circle all uses:	Group A	Group B	Group E	Group F	Group H	Group I	Group M	Group R	Group S	Group U D

13	Special occupancy requirements.	Yes	No	N/A
14	Incidental use areas (total square footage for each room of use area)	Yes	No	N/A
15	Mixed occupancies	Yes	No	N/A
16	REQUIRED SEPARATION OF OCCUPANCIES IN HOURS FBC TABLE 707.3.9	Yes	No	N/A

Minimum type of permitted construction by code for occupancy use circle the construction type FBC 602

17	Type I	Type II	Type III	Type IV	Type V

	Fire-resistant construction requirements shall be shown, include the following components			
18	Fire-resistant separations	Yes	No	N/A
19	Fire-resistant protection for type of construction	Yes	No	N/A
20	Protection of openings and penetrations of rated walls	Yes	No	N/A
21	Protection of corridors and penetrations of rated walls	Yes	No	N/A
22	Fire blocking and draftstopping and calculated fire resistance	Yes	No	N/A
	Fire suppression systems shall be shown include:			
23	Early warning smoke evacuation systems Schematic fire sprinklers Standpipes	Yes	No	N/A
24	Standpipes	Yes	No	N/A
25	Pre-engineered systems	Yes	No	N/A
26	Riser diagram	Yes	No	N/A
	Life safety systems shall be shown include the following requirements:			
27	Occupant load and egress capacities	Yes	No	N/A
28	Early warning	Yes	No	N/A
29	Smoke control	Yes	No	N/A
30	Stair pressurization	Yes	No	N/A
31	Systems schematic	Yes	No	N/A
	Occupancy load/egress requirements shall be shown include:			
32	Occupancy load	Yes	No	N/A
33	Gross occupancy load	Yes	No	N/A
34	Net occupancy load	Yes	No	N/A
35	Means of egress	Yes	No	N/A
36	Exit access	Yes	No	N/A
37	Exit discharge	Yes	No	N/A
38	Stairs construction/geometry and protection	Yes	No	N/A
39	Doors	Yes	No	N/A
40	Emergency lighting and exit signs	Yes	No	N/A
41	Specific occupancy requirements	Yes	No	N/A
42	Construction requirements	Yes	No	N/A
43	Horizontal exits/exit passageways	Yes	No	N/A

		Items to Include- Each Box shall be Circled as Applicable		
	Structural requirements shall be shown include:			
44	Soil conditions/analysis	Yes	No	N/A
45	Termite protection	Yes	No	N/A
46	Design loads	Yes	No	N/A
47	Wind requirements	Yes	No	N/A
48	Building envelope	Yes	No	N/A
49	Structural calculations (if required)	Yes	No	N/A
50	Foundation **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	Yes	No	N/A
51	Wall systems	Yes	No	N/A
52	Floor systems	Yes	No	N/A
53	Roof systems	Yes	No	N/A
54	Threshold inspection plan	Yes	No	N/A
55	Stair systems	Yes	No	N/A
	Materials shall be shown include the following			
56	Wood	Yes	No	N/A
57	Steel	Yes	No	N/A
58	Aluminum	Yes	No	N/A
59	Concrete	Yes	No	N/A
60	Plastic	Yes	No	N/A
61	Glass	Yes	No	N/A
62	Masonry	Yes	No	N/A
63	Gypsum board and plaster	Yes	No	N/A
64	Insulating (mechanical)	Yes	No	N/A
65	Roofing	Yes	No	N/A
66	Insulation	Yes	No	N/A
	Accessibility requirements shall be shown include the following			
67	Site requirements	Yes	No	N/A
68	Accessible route	Yes	No	N/A
69	Vertical accessibility	Yes	No	N/A
70	Toilet and bathing facilities	Yes	No	N/A
71	Drinking fountains	Yes	No	N/A
72	Equipment	Yes	No	N/A
73	Special occupancy requirements	Yes	No	N/A
74	Fair housing requirements	Yes	No	N/A
	Interior requirements shall include the following			
75	**Review required by the Columbia County Fire Department Items 75Th 80** Interior finishes (flame spread/smoke development)	Yes	No	N/A
76	Light and ventilation	Yes	No	N/A
77	Sanitation	Yes	No	N/A
	Special systems			
78	Elevators	Yes	No	N/A
79	Escalators	Yes	No	N/A
80	Lifts	Yes	No	N/A
	Swimming pools			
81	Barrier requirements	Yes	No	N/A
82	Spas and Wading pools	Yes	No	N/A
83	Access required per Florida Building Code 424.1.2.5.6	Yes	No	N/A

	Items to Include-Each Box shall be Circled as Applicable			
	Electrical			
84	Wiring	Yes	No	N/A
85	Services **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	Yes	No	N/A
86	Feeders and branch circuits	Yes	No	N/A
87	Overcurrent protection	Yes	No	N/A
88	Grounding	Yes	No	N/A
89	Wiring methods and materials	Yes	No	N/A
90	GFCIs	Yes	No	N/A
91	Equipment	Yes	No	N/A
92	Special occupancies	Yes	No	N/A
93	Emergency systems	Yes	No	N/A
94	Communication systems	Yes	No	N/A
95	Low voltage	Yes	No	N/A
96	Load calculations	Yes	No	N/A
	Plumbing			
97	Minimum plumbing facilities	Yes	No	N/A
98	Fixture requirements	Yes	No	N/A
99	Water supply piping	Yes	No	N/A
100	Sanitary drainage	Yes	No	N/A
101	Water heaters	Yes	No	N/A
102	Vents	Yes	No	N/A
103	Roof drainage	Yes	No	N/A
104	Back flow prevention	Yes	No	N/A
105	Irrigation	Yes	No	N/A
106	Location of water supply line	Yes	No	N/A
107	Grease traps	Yes	No	N/A
108	Environmental requirements	Yes	No	N/A
109	Plumbing riser	Yes	No	N/A
	Mechanical			
110	Energy calculations	Yes	No	N/A
111	**Review required by the Columbia County Fire Department Items 111Th 114** Exhaust systems	Yes	No	N/A
112	Clothes dryer exhaust	Yes	No	N/A
113	Kitchen equipment exhaust	Yes	No	N/A
114	Specialty exhaust systems	Yes	No	N/A
	Equipment location			
115	Make-up air	Yes	No	N/A
116	Roof-mounted equipment	Yes	No	N/A
117	Duct systems	Yes	No	N/A
118	Ventilation	Yes	No	N/A
119	Laboratory	Yes	No	N/A
120	Combustion air	Yes	No	N/A
121	Chimneys, fireplaces and vents	Yes	No	N/A
122	Appliances	Yes	No	N/A
123	Boilers	Yes	No	N/A
124	Refrigeration	Yes	No	N/A
125	Bathroom ventilation	Yes	No	N/A

		Items to Include-Each Box shall be Circled as Applicable		
	Gas			
126	**Review required by the Columbia County Fire Department Items 126Th 134** Gas piping	Yes	No	N/A
127	Venting	Yes	No	N/A

145	**Flood Management**	A CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.	Yes	No	N/A
146	**911 Address**	An application for a 911address must be applied for and **received** through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125 Ext. 3	Yes	No	N/A

Pursuant to Chapter one (administration) section R101.2.1 of the Florida Building Code: Section 105.3.2 **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.

Pursuant to Chapter one (administration) section R101.2.1 of the Florida Building Code: Section 105.4.1 **Permit intent.** 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.

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.

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 if issuance of the new permit.

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.

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 submitted application is approved for permitting the applicant will be notified by phone as to the date and time a building permit will be prepared and issued by the Columbia County Building & Zoning Department.