

# Florida Energy Efficiency Code For Building Construction

**\*\* Software Title and Version Here \*\***

, Effective Date: March 15, 2012 -- Form 506-2010  
Prescriptive Compliance for Renovations, Occupancy Change, etc.

## PROJECT SUMMARY

**Short Desc:** RefProj

**Description:** New Project

**Owner:** Enter Owner's name here

**Address1:** 1234 Any Street

**City:** Anywhere

**Address2:** Enter Address here

**State:** FL

**Zip:** 12345

**Type:** Office

**Class:** Renovation to existing buildi

**Jurisdiction:** ALACHUA COUNTY, ALACHUA COUNTY, FL (111000)

**Conditioned Area:** 10000 SF

**Conditioned & UnConditioned Area:** 10000 SF

**No of Stories:** 1

**Area entered from Plans** 0 SF

**Permit No:** 0

**Max Tonnage** 50

**If different, write in:** \_\_\_\_\_

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Section 506.4 Compliant Software. Effective Date: March 15, 2012

## Compliance Summary

<b>Component</b>	<b>Design</b>	<b>Criteria</b>	<b>Result</b>
RENOVATED ENVELOPE PRESCRIPTIVE			<b>FAILS</b>
LIGHTING POWER	1,500.0	14,000.0	<b>PASSES</b>
LIGHTING CONTROLS			<b>PASSES</b>
EXTERNAL LIGHTING			<b>FAILS</b>
HVAC SYSTEM			<b>FAILS</b>
PLANT			<b>None Entered</b>
WATER HEATING SYSTEMS			<b>FAILS</b>
PIPING SYSTEMS			<b>FAILS</b>
Met all required compliance from Check List?			<b>Yes/No/NA</b>

### 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: John Doe

Building Official: \_\_\_\_\_

Date: \_\_\_\_\_

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: \_\_\_\_\_

Reg No: \_\_\_\_\_

Electrical Designer: \_\_\_\_\_

Reg No: \_\_\_\_\_

Lighting Designer: \_\_\_\_\_

Reg No: \_\_\_\_\_

Mechanical Designer: \_\_\_\_\_

Reg No: \_\_\_\_\_

Plumbing Designer: \_\_\_\_\_

Reg No: \_\_\_\_\_

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

Project: RefProj  
 Title: New Project  
 Type: Office  
 (WEA File: FL\_GAINESVILLE\_REGIONAL\_AP.tm3)

### Prescriptive Envelope Compliance

Item	Zone	Description	Design	Criteria Meet Req.
Glass	Pr0Zo1	Percent glass Max allowed	16.000	50.000 Yes
Pr0Zo1Wa1	Pr0Zo1	Exterior Wall: UValue Max allowed	.025	0.032 Yes
Pr0Zo1Wa1	Pr0Zo1	Exterior Wall: Absorptance Max allowed	.200	0.300 Yes
Pr0Zo1Wa1Wi	Pr0Zo1Wa1	Exterior Window: SHGC Max allowed	.200	0.190 No
Pr0Zo1Wa1Wi	Pr0Zo1Wa1	Exterior Window: UValue Max allowed	2.000	0.450 No
Pr0Zo1Wa1Wi	Pr0Zo1	Exterior Window: Projection Factor - Minimum Required	.000	0.500 No
Pr0Zo1Wa2	Pr0Zo1	Exterior Wall: UValue Max allowed	.025	0.032 Yes
Pr0Zo1Wa2	Pr0Zo1	Exterior Wall: Absorptance Max allowed	.200	0.300 Yes
Pr0Zo1Wa2Wi	Pr0Zo1Wa2	Exterior Window: SHGC Max allowed	.200	0.190 No
Pr0Zo1Wa2Wi	Pr0Zo1Wa2	Exterior Window: UValue Max allowed	2.000	0.450 No
Pr0Zo1Wa2Wi	Pr0Zo1	Exterior Window: Projection Factor - Minimum Required	.000	0.500 No
Pr0Zo1Wa3	Pr0Zo1	Exterior Wall: UValue Max allowed	.025	0.032 Yes
Pr0Zo1Wa3	Pr0Zo1	Exterior Wall: Absorptance Max allowed	.200	0.300 Yes
Pr0Zo1Wa3Wi	Pr0Zo1Wa3	Exterior Window: SHGC Max allowed	.390	0.190 No
Pr0Zo1Wa3Wi	Pr0Zo1Wa3	Exterior Window: UValue Max allowed	.670	0.450 No
Pr0Zo1Wa3Wi	Pr0Zo1	Exterior Window: Projection Factor - Minimum Required	.000	0.500 No
Pr0Zo1Wa4	Pr0Zo1	Exterior Wall: UValue Max allowed	.025	0.032 Yes
Pr0Zo1Wa4	Pr0Zo1	Exterior Wall: Absorptance Max allowed	.200	0.300 Yes
Pr0Zo1Wa4Wi	Pr0Zo1Wa4	Exterior Window: SHGC Max allowed	.390	0.190 No
Pr0Zo1Wa4Wi	Pr0Zo1Wa4	Exterior Window: UValue Max allowed	.670	0.450 No
Pr0Zo1Wa4Wi	Pr0Zo1	Exterior Window: Projection Factor - Minimum Required	.000	0.500 No
Skylights	Pr0Zo1	Percent Skylight Max allowed	1.000	5.000 Yes
Pr0Zo1Rf1	Pr0Zo1	Exterior Roof UValue Max allowed	.026	0.025 No
Pr0Zo1Rf1	Pr0Zo1	Exterior Roof: Absorptance Max allowed	.200	0.220 Yes
Pr0Zo1Rf1Sk1	Pr0Zo1Rf1	Skylight: SHGC Max allowed	.490	0.190 No
Pr0Zo1Rf1Sk1	Pr0Zo1Rf1Sk1	Skylight: UValue Max allowed	.690	1.360 Yes

**DOES NOT meet Shell Envelope Requirements -- FAILS**

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<b>Project: RefProj</b> <b>Title: New Project</b> <b>Type: Office</b> <b>(WEA File: FL_GAINESVILLE_REGIONAL_AP.tm3)</b>						
<b>External Lighting Compliance</b>						
Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 1	Uncovered Parking Areas -- Parking lots and Drives	Yes	0.15	1,000.0	150	40
Ext Light 2	Internally illuminated exit signs	No	5.00	8.0	40	35
Ext Light 3	Uncovered Parking Areas -- Parking lots and Drives	Yes	0.15			
<b>Tradable Surfaces: 40 (W) Allowance for Tradable: 159.5 (W)</b>					<b>FAILS</b>	
<b>All External Lighting: 75 (W)</b>						
<b>Complicance check includes a 5% excess allowance of 9.50(W)</b>						
<b>Ext Light 3 -- Does not meet control requirements of Type: &lt;2&gt;&lt;3&gt;</b>						

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<b>Lighting Power Compliance</b>								
Space	Ashrae ID	Description	Area (sq.ft)	Height (ft)	No. of Spaces	Design (W)	Effective (W)	Allowance (W)
Pr0Zo1Sp1	14	Classroom/Lecture Hall	10,000	10.0	1	1500	1500	14,000
<b>Design : 1500 (W)</b>							<b>PASSES</b>	
<b>Effective: 1500 (W)</b>								
<b>Allowance: 14000 (W)</b>								
<b>Passing requires Design to be at most 100% of Criteria</b>								

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<b>Lighting Controls Compliance</b>						
Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli- ance
Pr0Zo1Sp1	14	Classroom/Lecture Hall	10,000	5	4	<b>PASSES</b>
<div style="border: 1px solid black; padding: 5px; display: inline-block;"><b>PASSES</b></div>						



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### 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
Heating System (Steam, Steam Condensate, & Hot Water)	0.25	False	105.00	0.28	0.00	0.50	<b>FAILS</b>

**FAILS**

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### 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	<input type="checkbox"/>
Operations Manual	303.3.1, 503.2.9.3, 505.7.4.2	Operations manual provided to owner	<input type="checkbox"/>
Windows & Doors	502.3.2	Glazed swinging entrance & revolving doors: max. 1.0 cfm/ft <sup>2</sup> ; all other products: 0.3 cfm/ft <sup>2</sup>	<input type="checkbox"/>
Joints/Cracks	502.3.3	To be caulked, gasketed, weather-stripped or otherwise sealed	<input type="checkbox"/>
Dropped Ceiling Cavity	502.3	Vented: seal & insulated ceiling. Unvented seal & insulate roof & side walls	<input type="checkbox"/>
HVAC Efficiency	503.2.3	Minimum efficiencies: Tables 503.2.3(1)-(8)	<input type="checkbox"/>
HVAC Controls	503.2.4	Zone controls prevent reheat (exceptions); separate thermostatic control per zone;	<input type="checkbox"/>
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).	<input type="checkbox"/>
ADS	503.2.7.5	Duct sizing and Design have been performed	<input type="checkbox"/>
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.	<input type="checkbox"/>
Balancing	503.2.9.1	HVAC distribution system(s) tested & balanced. Report in construction documents.	<input type="checkbox"/>
Piping Insulation	503.2.8	HAC and service hot water. In accordance with Table 503.2.8.	<input type="checkbox"/>
Water Heaters	504	Performance requirements in accordance with Table 504.2. Heat trap required.	<input type="checkbox"/>
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.	<input type="checkbox"/>
Motors	505.7.5	Motor efficiency criteria have been met	<input type="checkbox"/>
Lighting Controls	505.2, 502.3	Automatic control required for interior lighting in buildings >5,000 s.f.; Space control; Exterior photo sensor; Tandem wiring with 1 or 3 linear fluorescent lamps>30W	<input type="checkbox"/>