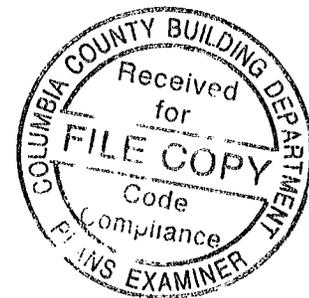# Florida Energy Efficiency Code For Building Construction

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

<div style="border:1px solid;">

PROJECT SUMMARY

Short Desc:	Monsta	**Description:**	Monsta Clothing Co
Owner:	Chris Cuadras and Tony Curtis		
Address1:	State Road 47	**City:**	Lake City
Address2:		**State:**	FL
		Zip:	32025
Type:	Office	**Class:**	New Finished building
Jurisdiction:	LAKE CITY, COLUMBIA COUNTY, FL (221200)		
Conditioned Area:	2370 SF	**Conditioned & UnConditioned Area:**	5000 SF
No of Stories:	1	**Area entered from Plans**	5000 SF
Permit No:	0	**Max Tonnage**	5 5
		If different, write in:	_____

</div>

Compliance Summary

Component	Design	Criteria	Result
Gross Energy Cost (in $)	1,524.0	1,819.0	**PASSED**
LIGHTING CONTROLS			**PASSES**
EXTERNAL LIGHTING			**PASSES**
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 _____   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.

Building End Uses

	1) Proposed	2) Baseline
Total	*98.40*	*153.20*
	$1,524	*$2,274*
ELECTRICITY(MBtu/kWh/$)	98.40	145.60
	28806	42663
	$1,524	*$2,236*
AREA LIGHTS	16.70	35.50
	4900	10401
	$259	*$545*
DOMHOT WATER	0.50	0.50
	145	145
	$8	*$8*
MISC EQUIPMT	40.80	40.80
	11959	11959
	$633	*$627*
PUMPS & MISC	1.00	18.20
	279	5339
	$15	*$280*
SPACE COOL	17.60	26.30
	5160	7714
	$273	*$404*
SPACE HEAT	1.70	5.30
	488	1544
	$26	*$81*
VENT FANS	20.10	19.00
	5875	5561
	$311	*$291*
NATURAL-GAS(MBtu/therm/$)		7.60
	0	76
	$0	*$38*

	1) Proposed	2) Baseline
SPACE HEAT	0.00	7.60
	0	76
	$0	*$38*

Credits Applied: None
Passing Criteria = 1819
Design (including any credits) = 1524
Passing requires Proposed Building cost to be at most 80% of
Baseline cost. This Proposed Building is at 67%

PASSES

Project: Monsta
Title: Monsta Clothing Co.
Type: Office
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

External Lighting Compliance

Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 1	Walk way less than 10 feet wide	Yes	1 00	100.0	100	

Tradable Surfaces: 0 (W) Allowance for Tradable: 830 (W)
All External Lighting: 0 (W)
Complicance check includes a excess/Base allowance of 750.00(W)

PASSES

Project: Monsta
Title: Monsta Clothing Co.
Type: Office
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli-ance
Pr0Zo1Sp1	17	Office - Enclosed	2,370	8	1	PASSES
Pr0Zo3Sp1	2	Storage & Warehouse - Inactive Storage	2,630	2	2	PASSES

PASSES

Project: Monsta
Title: Monsta Clothing Co.
Type: Office
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

System Report Compliance

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

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp-liance
Cooling System	Air Conditioners Evap Cooled 65000 to 135000 Btu/h Cooling Cap		15 00	11 50	12 00	11 70	PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) 65000 to 135000 Btu/h Clg Cap		4.00	3.30			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0 80	0.82			PASSES

Pr0Sy3   System 3   **Constant Volume Packaged**   **No. of Units**
                                          System   **1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp-liance
Cooling System	Air Conditioners Evap Cooled 65000 to 135000 Btu/h Cooling Cap		15 00	11 50	12 00	11 70	PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) 65000 to 135000 Btu/h Clg Cap		4 00	3 30			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0 80	0 82			PASSES

	PASSES

Plant Compliance

Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Comp liance

	None

Project: Monsta
Title: Monsta Clothing Co.
Type: Office
(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]	90 00			241 5(	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: Monsta
Title: Monsta Clothing Co.
Type: Office
(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	☐
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	☐