FLORIDA ENERGY CODE COMPLIANCE FOR COMMERCIAL BUILDINGS

5th ed. 2014

Compliance options

The three compliance procedures for the FLORIDA ENERGY CODE COMPLIANCE FOR COMMERCIAL BUILDINGS are:

Commercial Energy Efficiency Code Compliance

- □ FEC Prescriptive Method
- □ FEC Total Building Performance Method
- □ ASHRAE Prescriptive Method
- □ ASHRAE Energy Cost Budget Method

These can be invoked by going to the appropriate items in the calculate menu as follows: Calculate -> 5th Edition (2014) Florida Energy Code

📷 EnergyGauge Summi	it - [Prj TAM A1]		_		a second and	Concernance and the			
🔒 File Edit View 🕻	Calculate Reports Resources Tools Window Help								
🛛 🗅 New 📽 Open 🚞 🕻	Error Check	•							
	2004 Florida Code Compliance	•				Y			
E TAMA1 E TAMA1	2008 Florida Code Compliance	•	Assignment	Settings	Rates	Summary			
e 📽 Systems	2010 Florida Code Compliance	۲							
ell Pr0Sy3	5th edition (2014) Florida Energy Code Compliance	۲	ASHRAE 90.1-201	0 - Energy Cos	t Budget Method				
ell Pr0Sy5	Florida Commercial Building Rating	۲	ASHRAE 90.1-201 ASHRAE 90.1-201	0 - Building En 0 - Prescriptive	velope Trade-Off Op Compliance Option	tion			
WaterHea	ASHRAE Std 90.1-2001 Compliance	IECC 2012 - Total Building Performance Compliance Option							
Piping	ASHRAE Std 90.1-2004 Compliance	•	IECC 2012 - Presc	riptive Complia	ince Option				
	ASHRAE Std 90.1-2007 Compliance	•	•	Class	New Finished buildi	ng 💌			
	ASHRAE Std 90.1-2010 Compliance	۲	No. of Stories	1	Profile: 5 Nonres	01 ACM			
	ASHRAE (Appendix G) Performance Rating	۲	g) Pen	nit No. 0		10 11 1			
	IECC 2009 Compliance	۲			Sele	act Profile >>			
	IECC 2012 Compliance	۲							
	LEED	•							

Steps for compliance:

- 1) Open new file and enter data. The main user manual explains all the screens, input procedures and input details.
- 2) After entering inputs go to Calculate \rightarrow Error Check. Correct errors that are found
- Run the appropriate compliance Calculate -> 5th Edition (2014) Florida Energy Code → Total Building Performance Compliance or other options
- 4) Check the reports generated to see if the building complies.
- 5) Print the reports and look for elements that have failed. The reasons for failing will be given in the reports
- 6) Make changes to inputs that have failed and re run the calculations until you are able to comply.

EnergyGauge Summit® v5.10

INPUT DATA REPORT

		Project Information		
Project Name:	TAM A1	Orientation:	North	
Project Title:	TAM Prototype Building A1	Building Type:	Office	
Address:	Enter Address here	Building Classification:	New Finished b	building
	Enter Address here			
State:	FL	No.of Stories:	1	
Zip:	0	GrossArea:	22500	SF
Owner:	Florida Solar Energy Center			

			Zon	es			
No	Acronym	Description	Туре	Area [sf]	Multiplier	Total Area [sf]	
1	Interior	Interior Zone	CONDITIONED	14400.0	1	14400.0	
2	Perimeter A	Zone 3	CONDITIONED	2025.0	1	2025.0	
3	Perimeter B	Zone 3	CONDITIONED	2025.0	1	2025.0	
4	Perimeter C	Zone 3	CONDITIONED	2025.0	1	2025.0	
5	Perimeter D	Zone 3	CONDITIONED	2025.0	1	2025.0	

				Spaces						
No	Acronym	Description	Туре	Depth [ft]	Width [ft]	Height [ft]	Multi plier	Total Area 7 [sf]	Fotal Volume [cf]	
In Zone: 1	Interior Pr0Zo2Sp1	Zo0Sp1	Office - Open Plan	120.00	120.00	12.00	1	14400.0	172800.0	
In Zone: 1	Perimete Pr0Zo3Sp1	r A Zo0Sp1	Office - Open Plan	15.00	135.00	12.00	1	2025.0	24300.0	
In Zone: 1	Perimete Pr0Zo3Sp1	r B Zo0Sp1	Office - Open Plan	15.00	135.00	12.00	1	2025.0	24300.0	
In Zone: 1	Perimete Pr0Zo3Sp1	r C Zo0Sp1	Office - Open Plan	15.00	135.00	12.00	1	2025.0	24300.0	
In Zone: 1	Perimete Pr0Zo3Sp1	r D Zo0Sp1	Office - Open Plan	15.00	135.00	12.00	1	2025.0	24300.0	
				Lighting						
	No	Туре	Category	No. of Luminaires	Watts per Luminaire	Power [W]	C	ontrol Type	No.of Ctrl pts	
In Zone: In	Interior Space: Pr02 1	Zo2Sp1 Compact Fluorescent	General Lighting	1	10800	10800	Day	lighting with continue	ous 2	
In Zone: In	Perimete Space: Pr02 1	r A Zo3Sp1 Compact Fluorescent	General Lighting	1	1519	1519	Day	lighting with continue	ous 1	
In Zone: In	Perimete Space: Pr02 1	r B Zo3Sp1 Compact Fluorescent	General Lighting	1	1519	1519	Day	lighting with continue	ous 1	
In Zone: In	Perimete Space: Pr02 1	r C Zo3Sp1 Compact Fluorescent	General Lighting	1	1519	1519	Day	lighting with continue	ous 1	
In Zone:	Perimete	r D								

						Wall	S						
No	Description		Туре	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	1]
In Z	one:	Perimeter A											_
1	Pr0Zo3Wa1		Partition Wall	120.00	12.00	1	1440.0	South	1.1100			0.9	
2	Pr0Zo3Wa2		External Wall	150.00	12.00	1	1800.0	North	0.0500	3.940	26.10	20.0	
In Z	one:	Perimeter B	D ('(' 117/11	120.00	12.00	1	1440.0	Ε.	1 1100			0.0	
1	Pr0Zo5Wa1		Partition Wall	120.00	12.00	1	1440.0	East	1.1100	2.040	2(10	0.9	
2	Pr0Zo5Wa2		External Wall	150.00	12.00	1	1800.0	West	0.0500	3.940	26.10	20.0	
3	Pr0Zo5 wa3	Deriver of the C	Partition wall	21.20	12.00	I	254.4	NorthEast	1.1100			0.9	
1n Z	Pr0Zo6Wa1	Perimeter C	External Wall	150.00	12.00	1	1800.0	South	0.0500	3 940	26 10	20.0	
2	Pr0Zo6Wa2		Partition Wall	120.00	12.00	1	1440.0	North	1 1100	5.510	20.10	0.9	
3	Pr0Zo6Wa3		Partition Wall	21.20	12.00	1	254.4	NorthWes	1 1100			0.9	
5	110200			21.20	12.00			t				0.7	
In Z	one:	Perimeter D											_
1	Pr0Zo7Wa1		External Wall	150.00	12.00	1	1800.0	East	0.0500	3.940	26.10	20.0	
2	Pr0Zo7Wa2		Partition Wall	120.00	12.00	1	1440.0	West	1.1100			0.9	
3	Pr0Zo7Wa3		Partition Wall	21.20	12.00	1	254.4	SouthWes	1.1100			0.9	
1	Pr07o7Wa4		Partition Wall	21.20	12.00	1	254.4	t NorthWes	1 1100			0.0	
т	110207 Wa+		Tartition wan	21.20	12.00	1	237.7	t	1.1100			0.9	
					W	/indov	WS						
	N	o Description	Туре	Shao	led	U	SHGC Vis.Tr	a W	H (Effec)	Multi	Total Ar	ea	
		-			[Btu/	hr sf F]		[ft] [ft]	plier	[sf]		

In Zone: H In Wall:	Perimeter B Pr0Zo5Wa2 1 Pr0Zo5'	Wa2Wi1 User Define	ed No	0.9000	0.19	0.64	10.00	5.50	10	550.	.0
In Zone: H In Wall:	Perimeter C Pr0Zo6Wa1 1 Pr0Zo6'	WalWil User Define	ed No	0.9000	0.19	0.64	10.00	5.50	10	550.	.0
In Zone: H In Wall:	Perimeter D Pr0Zo7Wa1 1 Pr0Zo7'	WalWil User Define	ed No	0.9000	0.19	0.64	10.00	5.50	10	550.	.0
				Do	ors						
	No Description	Туре	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: In Wa	 										

	Roofs												
	No	Description	Туре	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:	1 1	nterior Pr0Zo2Rf1	Roof	120.00	120.00	1	14400.0	0.00	0.0600			16.7	
In Zone:	P 1	Perimeter A Pr0Zo3Rf1	Roof	150.00	13.50	1	2025.0	0.00	0.0600			16.7	
In Zone:	Р 1	Perimeter B Pr0Zo5Rf1	Roof	150.00	13.50	1	2025.0	0.00	0.0600			16.7	
In Zone:	P 1	Perimeter C Pr0Zo6Rf1	Roof	150.00	13.50	1	2025.0	0.00	0.0600			16.7	
In Zone:	P 1	Perimeter D Pr0Zo7Rf1	Roof	150.00	13.50	1	2025.0	0.00	0.0600			16.7	

				Sk	ylights							
		No	Description Type	U [Btu/hr sf F	SHGC	Vis.	.Trans	W [ft]	H (Effec) 1 [ft]	Multiplier	Area Total Area [Sf] [Sf]	1
In Zone In 1	: Inter Roof:	r ior Pr0Zo2Rf 1 Pr	1 0Zo2Rf1Sk2 User Defined	1.00	0.25		0.76	33.54	33.54	2	1124.9 2249.9	
					Floors							
	No I	Description	и Туре	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F	Heat Ca] [Btu/sf.]	p. Dens. F] [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone: In Zone:	Inter 1 P	rior r0Zo2F11 meter A	Floor	120.00	120.00	1	14400).0 9.0800	9.33	140.00	0.11	
In Zone:	1 P. Perin	r0Zo3F11 meter B r0Zo5E11	Floor	150.00	13.50	1	2025	.0 9.0800	9.33	140.00	0.11	
In Zone:	Perin 1 P	meter C r0Zo6F11	Floor	150.00	13.50	1	2025	.0 9.0800	9.33	140.00	0.11	
In Zone:	Perin 1 P	meter D r0Zo7F11	Floor	150.00	13.50	1	2025	.0 9.0800	9.33	140.00	0.11	
					Syster	ms						
Pr0Sy1			System 1		Const Syster	tant Vo m902	lume Pa	ckaged		I	No. Of Units 1	
Com	ponent	Categ	ory		Capacit	ty	Effi	iciency	IPL	N		
	1 2 3	Cooling Heating Air Hand	System System Iling System -Supply		930326.0 1712720. 31717.0	00 00 0	1	12.80 1.00 0.80	12.	90		

Pr0Sy3	System 1		Constant Vo System902	lume Packaged		No. Of Units 1	
Component	Category		Capacity	Efficiency	IPLV		
1	Cooling System		144292.00	12.80	12.90		
2	Heating System		270450.00	1.00			
3	Air Handling System -Supply		5008.00	0.80			
Pr0Sy4	System 1		Constant Vo System902	lume Packaged		No. Of Units 1	
Component	Category		Capacity	Efficiency	IPLV		
1	Cooling System		146944.00	12.80	12.90		
2	Heating System		271640.00	1.00			
3	Air Handling System -Supply		5030.00	0.80			
Pr0Sy5	System 1		Constant Vo System902	lume Packaged		No. Of Units 1	
Component	Category		Capacity	Efficiency	IPLV		
1	Cooling System		142287.00	12.80	12.90		
2	Heating System		261750.00	1.00			
3	Air Handling System -Supply		4847.00	0.80			
Pr0Sy2	System 1		Constant Vo System902	lume Packaged		No. Of Units 1	
Component	Category		Capacity	Efficiency	IPLV		
1	Cooling System		130748.00	12.80	12.90		
2	Heating System		241140.00	1.00			
3	Air Handling System -Supply		4465.00	0.80			
			Plant				
Equipr	nent	Category	Size	Inst.No	Eff.	IPLV	

			Water Hea	iters				
W-]	Heater Description	Capacity Cap.Unit	I/P	Rt.	Efficiency	Loss		
1 Electr	ric water heater	80 [Gal]		11 [kW]	0.8900 [Ef]	290.0000	[Btu/h]	
			Ext-Ligl	nting				
D	Description	Category	No. of Luminaires	Watts per Luminaire	Area/Len/No. of un [sf/ft/No]	its Control Type	Wattage [W]	
1 Ex	xt Light 2	Walk way less than 10 feet wide	1	846	150.00	Photo Sensor control	846.00	
			Piping	5				
No	Туре	Т	Operating [°] emperature [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nomonal Diamete [in]	pipe Insulation er Thickness [in]	Is Runout?	
			Fenestrati	ion Used				
Name	Glass Type	No. of Co Panes [B	Glass nductance 8tu/h.sf.F]	SHGC	VLT			
Skylight Windows	User Defined User Defined	1	1.0000 0.9000	0.2500 0.1900	0.7600 0.6400			

			Ma	aterials Us	ed				
Mat No	Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thickness [ft]	Conductivity [Btu/h.ft.F]	Density [lb/cf]	SpecificHeat [Btu/lb.F]	
			Con	structs Us	ed				
No	Name		Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1060	Floor		Yes	No	9.08	9.33	140.00	0.1	
			Simple	Massless	Conductance	Heat Capacity	Density	RValue	
No	Name		Construct	Construct	[Btu/h.sf.F]	[Btu/sf.F]	[lb/cf]	[h.sf.F/Btu]	
1061	Partition Wall		Yes	Yes	1.11			0.9	
No	Name		Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1065	External Wall		Yes	No	0.05	3.94	26.10	20.0	

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1067	Roof	Yes	Yes	0.06			16.7	

	Florida Building Code, Fifth Edition (2014) - Energy Conservation
	EnergyGauge Summit® Fla/Com-2015, Effective Date: June 30, 2015 Form 506-2014 ASHRAE 90.1-2010 - Energy Cost Budget Option
	Check List
Appl inclu	lications for compliance with the Florida Building Code, Energy Conservation shall Ide:
	This Checklist
	An Input report generated from the software just after completing compliance calculations without any further changes
	The full compliance report generated by the software that contains the project summary, complaince summary, certifications and detailed component compliance reports
	Boxes appropriately checked in the Miscellanous report generated by the software at the end of the compliance report

Short Desc:	TAM A1	Description:	TAM Prototype Building A1
Owner:	Florida Solar Energy Center		
Address1:	Enter Address here	City:	Cocoa
Address2:	Enter Address here	State:	FL
		Zip:	0
Туре:	Office	Class:	New Finished building
Jurisdiction:	MIAMI, MIAMI-DADE COUNT	ГҮ, FL (232400)	
Conditioned Area:	22500 SF	Conditioned & UnConditioned Area:	22500 SF
No of Stories:	1	Area entered from Plans	22500 SF
Permit No:	0	Max Tonnage	77.5
		If different, write in:	

Compliance Summary				
Component	Design	Criteria	Result	
Gross Energy Cost (in \$)	29,207.0	20,279.0	FAILED	
LIGHTING CONTROLS			PASSES	
EXTERNAL LIGHTING			FAILS	
HVAC SYSTEM			PASSES	
PLANT			No Entry	
WATER HEATING SYSTEMS			PASSES	
PIPING SYSTEMS			No Entry	
Met all required compliance from Check List?			Yes/No/NA	

	CERTIFICATIONS	
I hereby certify that the plans and Florida Energy Code	specifications covered by this calculation are in compliance	with the
Prepared By:	Building Official:	
Date:	Date:	
I certify that this building is in com	npliance with the FLorida Energy Efficiency Code	
Owner Agent:	Date:	
If Required by Florida law, I hereb Efficiency Code	by certify (*) that the system design is in compliance with the	Florida Energy
Architect:	Reg No:	
Electrical Designer:	Reg No:	
Lighting Designer:	Reg No:	
Mechanical Designer:	Reg No:	
Plumbing Designer:	Reg No:	
(*) Signature is required where F professionals. Typed names and contained on signed/sealed plans	lorida Law requires design to be performed by registered de registration numbers may be used where all relevant information.	sign ation is

Build	ding End Uses	
	1) Proposed	2) Baseline
I	1,852.80	1,300.90
	\$29,207	\$20,279
ELECTRICITY(MBtu/kWh/\$)	1,852.80	1,300.90
	542878	381187
	\$29,207	\$20,279
AREA LIGHTS	176.40	211.60
	51679	62012
	\$2,780	\$3,299
MISC EQUIPMT	337.50	337.50
	98896	98896
	\$5,321	\$5,261
PUMPS & MISC	0.00	0.00
	10	6
	\$1	\$0
SPACE COOL	639.40	473.00
	187335	138582
	\$10,079	\$7,373
SPACE HEAT	1.20	0.00
	349	9
	\$19	\$0
VENT FANS	698.30	278.80
	204609	81682
	\$11,008	\$4,345
Applied: None		FAILS
g Criteria = 20279		
(including any gradits) - 20207		

Project: TAM A1	
Title: TAM Prototype Building A1	
Type: Office	

(WEA File: FL_I	MIAMI_INTL	_AP.tm3)						
		External L	ighting C	omplianc	e			
Description	(Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELP. (W)	A CLH) (W)	>
Ext Light 2	V	Walk way less than 10 feet wide	e Yes	1.00	150.0		150	846
Tradable Sur All External I Complicance Project: TAM A1 Title: TAM Proto	faces: 846 (Lighting: 84 check includ	W) Allowance for Tradal 6 (W) les a excess/Base allowar	ble: 157.5 (nce of 7.50(W) W)			FAILS	
(WEA File: FL_N	MIAMI_INTL	<u>_AP.tm3)</u> Lighting Cont	rols Com	pliance				
Acronym	Ashrae ID	Description		Area (sq.ft)	Design CP	Min CP	Compli- ance	
Pr0Zo2Sp1 Pr0Zo3Sp1 Pr0Zo3Sp1	16 16 16	Office - Open Plan Office - Open Plan Office - Open Plan		14,400 2,025 2,025	2 1 1	2 1 1	PASSES PASSES PASSES	
Pr0Zo3Sp1 Pr0Zo3Sp1	16 16	Office - Open Plan Office - Open Plan		2,025 2,025	1 1	1 1	PASSES PASSES	
					PASS	ES		

	Syster	n Report	Complia	ance			
Pr0Sy1	-	Const Syster	ant Volume m902	Packaged	kaged No. of Units 1		
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled > 760000 Btu/h Cooling Capacity	930326	12.80	9.70	12.90	9.80	PASSES
Heating System	Electric Furnace	1712720	1.00	1.00			PASSES
Air Handling	Air Handler (Supply) -	31717	0.80	0.82			PASSES
System -Supply	Constant Volume						
Pr0Sy3	System 1		Const Syster	ant Volume m902	Packaged	Ν	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	h Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	144292	12.80	11.00	12.90	11.20	PASSES
Heating System	Electric Furnace	270450	1.00	1.00			PASSES
Air Handling	Air Handler (Supply) -	5008	0.80	0.82			PASSES
System -Supply	Constant Volume						
Pr0Sy4	System 1		Const Syster	ant Volume m902	Packaged	Ν	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	146944	12.80	11.00	12.90	11.20	PASSES
Heating System	Electric Furnace	271640	1.00	1.00			PASSES
Air Handling	Air Handler (Supply) -	5030	0.80	0.82			PASSES
System -Supply	Constant Volume						
Pr0Sy5	System 1		Const Syste	ant Volume m902	Packaged	Ν	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance

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Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Canacity	142287	12.80	11.00	12.90	11.20	PASSES
Heating System	Electric Furnace	261750	1.00	1.00			PASSES
Air Handling	Air Handler (Supply) -	4847	0.80	0.82			PASSES
System -Supply	Constant Volume						
Pr0Sy2 S	system 1		Const Syster	ant Volume m902	Packaged	Ν	lo. 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	130748	12.80	11.20	12.90	11.40	PASSES
Heating System	Electric Furnace	241140	1.00	1.00			PASSES
Air Handling	Air Handler (Supply) -	4465	0.80	0.82			PASSES
System -Supply	Constant Volume						
						PASSE	S

Plant Compliance									
Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category		Comp liance
								None	

Project: TAM A1 Title: TAM Prototyj Type: Office (WEA File: FL-ML/	pe Building A1 AMI INTL AP.tm3)						
		Water Heater C	Compliance				
Description	Туре	Category	Design Eff	Min Eff	Design Loss	Max C Loss li	Comp iance
Water Heater 1	Electric water heater	r <= 12 [kW]	0.89	0.86	290.00	P.	ASSES
						PA	SSES
		Piping S	ystem Compl	iance			
Category		Pipe Dia Is [inches] Runout?	Operating Ins (Temp [Btu- [F] .SF	Cond in/hr 1 '.F]	Ins Fhick [in]	Req In Thick [i	s Compliance n]
						None	
Project: TAM A1 Title: TAM Prototy Type: Office (WEA File: FL_ML	pe Building A1 AMI_INTL_AP.tm3)						
		Other Requ	iired Complia	nce			
Category	Section	Requirement (write	e N/A in box if not	applicab	le)		Check
Project: TAM A	1						

	Florida Building Code, Fifth Edition (2014) - Energy Conservation
	EnergyGauge Summit® Fla/Com-2015, Effective Date: June 30, 2015 Form 506-2014 IECC 2012 - Total Building Performance Compliance Option
	Check List
Appli inclu	ications for compliance with the Florida Building Code, Energy Conservation shall de:
	This Checklist
	An Input report generated from the software just after completing compliance calculations without any further changes
	The full compliance report generated by the software that contains the project summary, complaince summary, certifications and detailed component compliance reports
	Boxes appropriately checked in the Miscellanous report generated by the software at the end of the compliance report

Short Desc:	TAM A1	Description:	TAM Prototype Building A1
Owner:	Florida Solar Energy Center	-	
Address1:	Enter Address here	City:	Cocoa
Address2:	Enter Address here	State:	FL
		Zip:	0
Туре:	Office	Class:	New Finished building
Jurisdiction:	MIAMI, MIAMI-DADE COUNT	Y, FL (232400)	
Conditioned Area:	22500 SF	Conditioned & UnConditioned Area:	22500 SF
No of Stories:	1	Area entered from Plans	22500 SF
Permit No:	0	Max Tonnage	77.5
		If different, write in:	

Compliance Summary					
Component	Design	Criteria	Result		
Gross Energy Cost (in \$)	27,021.0	17,035.0	FAILED		
LIGHTING CONTROLS			PASSES		
EXTERNAL LIGHTING			FAILS		
HVAC SYSTEM			PASSES		
PLANT			No Entry		
WATER HEATING SYSTEMS			PASSES		
PIPING SYSTEMS			No Entry		
Met all required compliance from Check List?			Yes/No/NA		

CERTIFICATIONS						
I hereby certify that the plans and Florida Energy Code	specifications covered by this calculation are in compliance	with the				
Prepared By:	Building Official:					
Date:	Date:					
I certify that this building is in com	npliance with the FLorida Energy Efficiency Code					
Owner Agent:	Date:					
If Required by Florida law, I hereb Efficiency Code	by certify (*) that the system design is in compliance with the	Florida Energy				
Architect:	Reg No:					
Electrical Designer:	Reg No:					
Lighting Designer:	Reg No:					
Mechanical Designer:	Reg No:					
Plumbing Designer:	Reg No:					
(*) Signature is required where F professionals. Typed names and contained on signed/sealed plans	lorida Law requires design to be performed by registered de registration numbers may be used where all relevant information.	sign ation is				

Buildi	ng End Uses	
	1) Proposed	2) Baseline
1	1,717.30	1,288.00
	\$27,021	\$20,041
ELECTRICITY(MBtu/kWh/\$)	1,717.30	1,288.00
	503192	377424
	\$27,021	\$20,041
AREA LIGHTS	176.40	211.60
	51679	62012
	\$2,775	\$3,293
MISC EQUIPMT	337.50	337.50
	98896	98896
	\$5,311	\$5,251
PUMPS & MISC	0.00	0.00
	10	3
	\$1	\$0
SPACE COOL	576.50	472.10
	168921	138329
	\$9,071	\$7,345
SPACE HEAT	1.70	0.00
	507	6
	\$27	\$0
VENT FANS	625.20	266.80
	183179	78178
	\$9,837	\$4,151
Annlied: None		FAILS
s applied. None		

Project: TAM A1	
Title: TAM Prototype Building A1	
Type: Office	

(WEA File: FL_I	MIAMI_INTL	_AP.tm3)						
		External L	ighting C	omplianc	e			
Description	(Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELP. (W)	A CLH) (W)	>
Ext Light 2	V	Walk way less than 10 feet wide	e Yes	1.00	150.0		150	846
Tradable Sur All External I Complicance Project: TAM A1 Title: TAM Proto	faces: 846 (Lighting: 84 check includ	W) Allowance for Tradal 6 (W) les a excess/Base allowar	ble: 157.5 (nce of 7.50(W) W)			FAILS	
(WEA File: FL_N	MIAMI_INTL	<u>_AP.tm3)</u> Lighting Cont	rols Com	pliance				
Acronym	Ashrae ID	Description		Area (sq.ft)	Design CP	Min CP	Compli- ance	
Pr0Zo2Sp1 Pr0Zo3Sp1 Pr0Zo3Sp1	16 16 16	Office - Open Plan Office - Open Plan Office - Open Plan		14,400 2,025 2,025	2 1 1	2 1 1	PASSES PASSES PASSES	
Pr0Zo3Sp1 Pr0Zo3Sp1	16 16	Office - Open Plan Office - Open Plan		2,025 2,025	1 1	1 1	PASSES PASSES	
					PASS	ES		

	Syster	n Report	Complia	ance			
Pr0Sy1	System 1	-	Const Syster	Ν	No. of Units 1		
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled > 760000 Btu/h Cooling Capacity	930326	12.80	9.70	12.90	9.80	PASSES
Heating System	Electric Furnace	1712720	1.00	1.00			PASSES
Air Handling	Air Handler (Supply) -	31717	0.80	0.82			PASSES
System -Supply	Constant Volume						
Pr0Sy3	System 1		Const Syster	ant Volume m902	Packaged	Ν	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	h Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	144292	12.80	11.00	12.90	11.20	PASSES
Heating System	Electric Furnace	270450	1.00	1.00			PASSES
Air Handling	Air Handler (Supply) -	5008	0.80	0.82			PASSES
System -Supply	Constant Volume						
Pr0Sy4	System 1		Const Syster	ant Volume m902	Packaged	Ν	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	146944	12.80	11.00	12.90	11.20	PASSES
Heating System	Electric Furnace	271640	1.00	1.00			PASSES
Air Handling	Air Handler (Supply) -	5030	0.80	0.82			PASSES
System -Supply	Constant Volume						
Pr0Sy5	System 1		Const Syste	ant Volume m902	Packaged	Ν	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance

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Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Canacity	142287	12.80	11.00	12.90	11.20	PASSES
Heating System	Electric Furnace	261750	1.00	1.00			PASSES
Air Handling	Air Handler (Supply) -	4847	0.80	0.82			PASSES
System -Supply	Constant Volume						
Pr0Sy2 System 1			Const Syster	ant Volume m902	Packaged	Ν	lo. 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	130748	12.80	11.20	12.90	11.40	PASSES
Heating System	Electric Furnace	241140	1.00	1.00			PASSES
Air Handling	Air Handler (Supply) -	4465	0.80	0.82			PASSES
System -Supply	Constant Volume						
						PASSE	S

Plant Compliance									
Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category		Comp liance
								None	

Project: TAM A1 Title: TAM Prototyj Type: Office (WEA File: FL-ML/	pe Building A1 AMI INTL AP.tm3)						
		Water Heater C	Compliance				
Description	Туре	Category	Design Eff	Min Eff	Design Loss	Max C Loss li	Comp iance
Water Heater 1	Electric water heater	r <= 12 [kW]	0.89	0.86	290.00	P.	ASSES
						PA	SSES
		Piping S	ystem Compl	iance			
Category		Pipe Dia Is [inches] Runout?	Operating Ins (Temp [Btu- [F] .SF	Cond in/hr 1 '.F]	Ins Fhick [in]	Req In Thick [i	s Compliance n]
						None	
Project: TAM A1 Title: TAM Prototy Type: Office (WEA File: FL_ML	pe Building A1 AMI_INTL_AP.tm3)						
		Other Requ	iired Complia	nce			
Category	Section	Requirement (write	e N/A in box if not	applicab	le)		Check
Project: TAM A	1						

	Florida Building Code, Fifth Edition (2014) - Energy Conservation
	EnergyGauge Summit® Fla/Com-2015, Effective Date: June 30, 2015 Form 506-2014 ASHRAE 90.1-2010 - Prescriptive Compliance Option
	Check List
Appl inclu	lications for compliance with the Florida Building Code, Energy Conservation shall ide:
	This Checklist
	An Input report generated from the software just after completing compliance calculations without any further changes
	The full compliance report generated by the software that contains the project summary, complaince summary, certifications and detailed component compliance reports
	Boxes appropriately checked in the Miscellanous report generated by the software at the end of the compliance report

Short Desc:	TAM A1	Description:	TAM Prototype Building A1
Owner:	Florida Solar Energy Center	Description	n nit i rototype Banang i ri
Address1:	Enter Address here	City:	Cocoa
Address2:	Enter Address here	State:	FL
		Zip:	0
Туре:	Office	Class:	New Finished building
Jurisdiction:	MIAMI, MIAMI-DADE COUNT	Y, FL (232400)	
Conditioned Area:	22500 SF	Conditioned & UnConditioned Area:	22500 SF
No of Stories:	1	Area entered from Plans	22500 SF
Permit No:	0	Max Tonnage	77.5
		If different, write in:	

Compliance Summary						
Design	Criteria	Result				
		FAILS				
16,875.0	20,250.0	PASSES				
		PASSES				
		FAILS				
		PASSES				
		No Entry				
		PASSES				
		No Entry				
		Yes/No/NA				
	e Summary Design 16,875.0	Design Criteria 16,875.0 20,250.0				

CERTIFICATIONS						
I hereby certify that the plans and Florida Energy Code	specifications covered by this calculation are in compliance	with the				
Prepared By:	Building Official:					
Date:	Date:					
I certify that this building is in com	pliance with the FLorida Energy Efficiency Code					
Owner Agent:	Date:					
If Required by Florida law, I hereb Efficiency Code	by certify (*) that the system design is in compliance with the	Florida Energy				
Architect:	Reg No:					
Electrical Designer:	Reg No:					
Lighting Designer:	Reg No:					
Mechanical Designer:	Reg No:					
Plumbing Designer:	Reg No:					
(*) Signature is required where F professionals. Typed names and contained on signed/sealed plans	lorida Law requires design to be performed by registered de registration numbers may be used where all relevant informa	sign ation is				

Item	Zone	Description	Design	Criteria I	Aeet Req
Glass	ΤΔΜ Δ1	Fast glass area must be less than or equal to	550,000	550.000	Ves
01055		South glass area	550.000	550.000	103
Glass	TAM A1	West glass area must be less than or equal to	550.000	550.000	Yes
		South glass area			
Glass	Interior	Percent glass Max allowed (%)	.000	40.000	Yes
Skylights	Interior	Percent Skylight Max allowed (%)	15.624	5.000	No
Pr0Zo2Rf1	Interior	Exterior Roof UValue Max allowed	.370	0.063	No
Pr0Zo2Rf1Sk2	Pr0Zo2Rf1	Skylight: SHGC Max allowed	.250	0.190	No
Pr0Zo2Rf1Sk2	Pr0Zo2Rf1Sk2	Skylight: UValue Max allowed	1.000	1.360	Yes
Glass	Perimeter A	Percent glass Max allowed (%)	30.556	40.000	Yes
Pr0Zo3Wa2	Perimeter A	Exterior Wall: UValue Max allowed	.460	0.089	No
Pr0Zo3Wa2Wi1	Pr0Zo3Wa2	Exterior Window: SHGC Max allowed	.190	0.250	Yes
Pr0Zo3Wa2Wi1	Pr0Zo3Wa2	Exterior Window: UValue Max allowed	.900	1.200	Yes
Skylights	Perimeter A	Percent Skylight Max allowed (%)	.000	5.000	Yes
Pr0Zo3Rf1	Perimeter A	Exterior Roof UValue Max allowed	.370	0.063	No
Glass	Perimeter B	Percent glass Max allowed (%)	30.556	40.000	Yes
Pr0Zo5Wa2	Perimeter B	Exterior Wall: UValue Max allowed	.460	0.089	No
Pr0Zo5Wa2Wi1	Pr0Zo5Wa2	Exterior Window: SHGC Max allowed	.190	0.250	Yes
Pr0Zo5Wa2Wi1	Pr0Zo5Wa2	Exterior Window: UValue Max allowed	.900	1.200	Yes
Skylights	Perimeter B	Percent Skylight Max allowed (%)	.000	5.000	Yes
Pr0Zo5Rf1	Perimeter B	Exterior Roof UValue Max allowed	.370	0.063	No
Glass	Perimeter C	Percent glass Max allowed (%)	26.772	40.000	Yes
Pr0Zo6Wa1	Perimeter C	Exterior Wall: UValue Max allowed	.460	0.089	No
Pr0Zo6Wa1Wi1	Pr0Zo6Wa1	Exterior Window: SHGC Max allowed	.190	0.250	Yes
Pr0Zo6Wa1Wi1	Pr0Zo6Wa1	Exterior Window: UValue Max allowed	.900	1.200	Yes
Pr0Zo6Wa3	Perimeter C	Exterior Wall: UValue Max allowed	1.110	0.089	No
Skylights	Perimeter C	Percent Skylight Max allowed (%)	.000	5.000	Yes
Pr0Zo6Rf1	Perimeter C	Exterior Roof UValue Max allowed	.370	0.063	No
Glass	Perimeter D	Percent glass Max allowed (%)	30.556	40.000	Yes
Pr0Zo7Wa1	Perimeter D	Exterior Wall: UValue Max allowed	.460	0.089	No
Pr0Zo7Wa1Wi1	Pr0Zo7Wa1	Exterior Window: SHGC Max allowed	.190	0.250	Yes
Pr0Zo7Wa1Wi1	Pr0Zo7Wa1	Exterior Window: UValue Max allowed	.900	1.200	Yes
Skylights	Perimeter D	Percent Skylight Max allowed (%)	.000	5.000	Yes
Pr0Zo7Rf1	Perimeter D	Exterior Roof UValue Max allowed	370	0.063	No

Prescriptive Envelope Compliance

Project: TAM A1 Title: TAM Prototype Type: Office (WEA File: FL_MIA)	Building A1 MI_INTL_AP.tm3)					
Description	External Li Category	ghting C Tradable?	Complianc Allowance (W/Unit)	e Area or Length or No. of Units (Saft or ft)	ELPA (W)	CLP (W)
Ext Light 2	Walk way less than 10 feet wide	Yes	1.00	150.0	150	
Tradable Surface All External Ligh Complicance chec	s: 846 (W) Allowance for Tradab ting: 846 (W) k includes a excess/Base allowan	le: 157.5 (ce of 7.50)	(W) (W)	Ľ	FAI	LS
Project: TAM A1 Title: TAM Prototype Type: Office	Building A1					
(WEA File: FL_MIAN	MI_INTL_AP.tm3)	~				

		L	lighting Pow	er Con	apliance			
Space	Ashrae ID	Description	Area (sq.ft)	Height (ft)	No. of Spaces	Design (W)	Effective (W)	Allowance (W)
Pr0Zo2Sp1	16	Office - Open Plan	14,400	12.0	1	10800	10800	12,960
Pr0Zo3Sp1	16	Office - Open Plan	2,025	12.0	1	1519	1519	1,823
Pr0Zo3Sp1	16	Office - Open Plan	2,025	12.0	1	1519	1519	1,823
Pr0Zo3Sp1	16	Office - Open Plan	2,025	12.0	1	1519	1519	1,823
Pr0Zo3Sp1	16	Office - Open Plan	2,025	12.0	1	1519	1519	1,823
Design :	1	6875 (W)					PASS	ES
Effective: Allowance Passing re	1 e: 2 equires	6875 (W) .0250 (W) Design to be at most 1	00% of Criter	ia				

846

Lighting Controls Compliance							
Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli- ance	
Pr0Zo2Sp1	16 (Office - Open Plan	14,400	2	2	PASSES	
Pr0Zo3Sp1	16 0	Office - Open Plan	2,025	1	1	PASSES	
Pr0Zo3Sp1	16 (Office - Open Plan	2,025	1	1	PASSES	
Pr0Zo3Sp1	16 (Office - Open Plan	2,025	1	1	PASSES	
Pr0Zo3Sp1	16 (Office - Open Plan	2,025	1	1	PASSES	
				PAS	SES		

	Syster	n Report	Complia	ance			
Pr0Sy1	System 1	-	Const Syster	ant Volume m902	Packaged	Ν	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled > 760000 Btu/h Cooling Capacity	930326	12.80	9.70	12.90	9.80	PASSES
Heating System	Electric Furnace	1712720	1.00	1.00			PASSES
Air Handling	Air Handler (Supply) -	31717	0.80	0.82			PASSES
System -Supply	Constant Volume						
Pr0Sy3	System 1		Const Syster	ant Volume m902	Packaged	Ν	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	h Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	144292	12.80	11.00	12.90	11.20	PASSES
Heating System	Electric Furnace	270450	1.00	1.00			PASSES
Air Handling	Air Handler (Supply) -	5008	0.80	0.82			PASSES
System -Supply	Constant Volume						
Pr0Sy4	System 1		Const Syster	ant Volume m902	Packaged	Ν	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	146944	12.80	11.00	12.90	11.20	PASSES
Heating System	Electric Furnace	271640	1.00	1.00			PASSES
Air Handling	Air Handler (Supply) -	5030	0.80	0.82			PASSES
System -Supply	Constant Volume						
Pr0Sy5	System 1		Const Syste	ant Volume m902	Packaged	Ν	lo. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance

 ${\it EnergyGauge Summit} {\it \& Fla/Com-2014. Section 506.4 Compliant Software. Effective Date: June 30, 2015}$

Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Canacity	142287	12.80	11.00	12.90	11.20	PASSES
Heating System	Electric Furnace	261750	1.00	1.00			PASSES
Air Handling	Air Handler (Supply) -	4847	0.80	0.82			PASSES
System -Supply	Constant Volume						
Pr0Sy2 S	system 1		Const Syster	ant Volume m902	Packaged	Ν	lo. 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	130748	12.80	11.20	12.90	11.40	PASSES
Heating System	Electric Furnace	241140	1.00	1.00			PASSES
Air Handling	Air Handler (Supply) -	4465	0.80	0.82			PASSES
System -Supply	Constant Volume						
						PASSE	S

			Plant	t Comp	liance				
Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category		Comp liance
								None	

Project: TAM A1 Title: TAM Prototyj Type: Office (WEA File: FL-ML/	pe Building A1 AMI INTL AP.tm3)						
		Water Heater C	Compliance				
Description	Туре	Category	Design Eff	Min Eff	Design Loss	Max C Loss li	Comp iance
Water Heater 1	Electric water heater	r <= 12 [kW]	0.89	0.86	290.00	P.	ASSES
						PA	SSES
		Piping S	ystem Compl	iance			
Category		Pipe Dia Is [inches] Runout?	Operating Ins (Temp [Btu- [F] .SF	Cond in/hr 1 '.F]	Ins Fhick [in]	Req In Thick [i	s Compliance n]
						None	
Project: TAM A1 Title: TAM Prototy Type: Office (WEA File: FL_ML	pe Building A1 AMI_INTL_AP.tm3)						
		Other Requ	iired Complia	nce			
Category	Section	Requirement (write	e N/A in box if not	applicab	le)		Check
Project: TAM A	1						

	Florida Building Code, Fifth Edition (2014) - Energy Conservation
	EnergyGauge Summit® Fla/Com-2015, Effective Date: June 30, 2015 Form 506-2014 IECC 2012 - Prescriptive Compliance Option
	Check List
Appl inclu	ications for compliance with the Florida Building Code, Energy Conservation shall de:
	This Checklist
	An Input report generated from the software just after completing compliance calculations without any further changes
	The full compliance report generated by the software that contains the project summary, complaince summary, certifications and detailed component compliance reports
	Boxes appropriately checked in the Miscellanous report generated by the software at the end of the compliance report

Short Desc:	TAM A1	Description:	TAM Prototype Building A1
Owner:	Florida Solar Energy Center		
Address1:	Enter Address here	City:	Cocoa
Address2:	Enter Address here	State:	FL
		Zip:	0
Туре:	Office	Class:	New Finished building
Jurisdiction:	MIAMI, MIAMI-DADE COUNT	TY, FL (232400)	
Conditioned Area:	22500 SF	Conditioned & UnConditioned Area:	22500 SF
No of Stories:	1	Area entered from Plans	22500 SF
Permit No:	0	Max Tonnage	77.5
		If different, write in:	

Compliance Summary							
Component	Design	Criteria	Result				
ENVELOPE PRESCRIPTIVE			FAILS				
Additional Effficiency Prescriptive Option			Failed				
LIGHTING POWER	16,875.0	20,250.0	PASSES				
LIGHTING CONTROLS			PASSES				
EXTERNAL LIGHTING			FAILS				
HVAC SYSTEM			PASSES				
PLANT			No Entry				
WATER HEATING SYSTEMS			PASSES				
PIPING SYSTEMS			No Entry				
Met all required compliance from Check List?			Yes/No/NA				

CERTIFICATIONS							
I hereby certify that the plans and Florida Energy Code	specifications covered by this calculation are in compliance	with the					
Prepared By:	Building Official:						
Date:	Date:						
I certify that this building is in com	npliance with the FLorida Energy Efficiency Code						
Owner Agent:	Date:						
If Required by Florida law, I hereb Efficiency Code	by certify (*) that the system design is in compliance with the	Florida Energy					
Architect:	Reg No:						
Electrical Designer:	Reg No:						
Lighting Designer:	Reg No:						
Mechanical Designer:	Reg No:						
Plumbing Designer:	Reg No:						
(*) Signature is required where F professionals. Typed names and contained on signed/sealed plans	lorida Law requires design to be performed by registered de registration numbers may be used where all relevant information.	sign ation is					

Item	Zone	Description	Design	Criteria Meet Req.
C1	T / '		000	20.000 M
Glass	Interior	Percent glass Max allowed (%)	.000	30.000 Yes
Skylights	Interior	Percent Skylight Max allowed (%)	15.624	3.000 No
Pr0Zo2Rf1	Interior	Exterior Roof U value Max allowed	.370	0.048 NO
Pr0Zo2Rf1	Interior	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450 Yes
Pr0Zo2Rf1	Interior	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Pr0Zo2Rf1Sk2	Pr0Zo2Rf1	Skylight: SHGC Max allowed	.250	0.350 Yes
Pr0Zo2Rf1Sk2	Pr0Zo2Rf1Sk2	Skylight: UValue Max allowed	1.000	0.750 No
Glass	Perimeter A	Percent glass Max allowed (%)	30.556	30.000 No
Pr0Zo3Wa2	Perimeter A	Exterior Wall: UValue Max allowed	.460	0.064 No
Pr0Zo3Wa2Wi1	Pr0Zo3Wa2	Exterior Window: SHGC Max allowed	.190	0.250 Yes
Pr0Zo3Wa2Wi1	Pr0Zo3Wa2	Exterior Window: UValue Max allowed	.900	0.500 No
Skylights	Perimeter A	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo3Rf1	Perimeter A	Exterior Roof UValue Max allowed	.370	0.048 No
Pr0Zo3Rf1	Perimeter A	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450 Yes
Pr0Zo3Rf1	Perimeter A	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	Perimeter B	Percent glass Max allowed (%)	30.556	30.000 No
Pr0Zo5Wa2	Perimeter B	Exterior Wall: UValue Max allowed	.460	0.064 No
Pr0Zo5Wa2Wi1	Pr0Zo5Wa2	Exterior Window: SHGC Max allowed	.190	0.250 Yes
Pr0Zo5Wa2Wi1	Pr0Zo5Wa2	Exterior Window: UValue Max allowed	.900	0.500 No
Skylights	Perimeter B	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo5Rf1	Perimeter B	Exterior Roof UValue Max allowed	.370	0.048 No
Pr0Zo5Rf1	Perimeter B	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450 Yes
Pr0Zo5Rf1	Perimeter B	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	Perimeter C	Percent glass Max allowed (%)	26.772	30.000 Yes
Pr0Zo6Wa1	Perimeter C	Exterior Wall: UValue Max allowed	.460	0.064 No
Pr0Zo6Wa1Wi1	Pr0Zo6Wa1	Exterior Window: SHGC Max allowed	.190	0.250 Yes
Pr0Zo6Wa1Wi1	Pr0Zo6Wa1	Exterior Window: UValue Max allowed	.900	0.500 No
Pr0Zo6Wa3	Perimeter C	Exterior Wall: UValue Max allowed	1.110	0.064 No
Skylights	Perimeter C	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo6Rf1	Perimeter C	Exterior Roof UValue Max allowed	.370	0.048 No
Pr0Zo6Rf1	Perimeter C	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450 Yes
Pr0Zo6Rf1	Perimeter C	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	Perimeter D	Percent glass Max allowed (%)	30.556	30.000 No
Pr0Zo7Wa1	Perimeter D	Exterior Wall: UValue Max allowed	.460	0.064 No
Pr0Zo7Wa1Wi1	Pr0Zo7Wa1	Exterior Window: SHGC Max allowed	190	0.250 Yes
Pr0Zo7Wa1Wi1	Pr0Zo7Wa1	Exterior Window: UValue Max allowed	.900	0.500 No
Skylights	Perimeter D	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo7Rf1	Perimeter D	Exterior Roof UValue Max allowed	.370	0.048 No

Prescriptive Envelope Compliance

EnergyGauge Summit® Fla/Com-2014. Section 506.4 Compliant Software. Effective Date: June 30, 2015

Pr0Zo7Rf1	Р	erimeter D	Exterior Roof Absorptance (3	3-year a	ged) Max	.400	0.450	Yes
Pr0Zo7Rf1	Р	erimeter D	Exterior Roof Emissivity (3- Required	year age	ed) Min	.900	0.750	Yes
DOES N	OT me	et Prescriptive	Envelope Requirement	s FA	AILS			
Project: TA Title: TAM Type: Office (WEA File:	M A1 Prototyp e FL_MIA	e Building A1	3)					
			External Light	ing C	omplianc	e		
Descriptio	n	Catego	y Trac	lable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 2	2	Walk wa	y less than 10 feet wide	Yes	1.00	150.0	150	846
Complica Project: TA Title: TAM Type: Office (WEA File:	MALLIGH nce che MA1 Prototyp e FL_MIA	e Building A1	xcess/Base allowance of	f 7.50 (W)			
			Lighting Powe	r Cor	npliance			
Space	Ashrae ID	Description	Area (sq.ft)	Height (ft)	No. of Spaces	Design (W)	Effective (W)	Allowance (W)
Pr0Zo2Sp1	16	Office - Open P	an 14,400	12.0	1	10800	10800	12,960
Pr0Zo3Sp1	16	Office - Open P	an 2,025	12.0	1	1519	1519	1,823
Pr0Zo3Sp1	16	Office - Open P	an 2,025	12.0	1	1519	1519	1,823
Pr0Zo3Sp1	16	Office - Open P	an 2,025	12.0	1	1519	1519	1,823
Pr0Zo3Sp1	16	Office - Open P	an 2,025	12.0	1	1519	1519	1,823
Design :	sign : 16875 (W) fective: 16875 (W)					PASSE	S	
Ellecuve.	1	6875 (W)						

Lighting Controls Compliance									
Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli- ance			
Pr0Zo2Sp1	16 (Office - Open Plan	14,400	2	2	PASSES			
Pr0Zo3Sp1	16 0	Office - Open Plan	2,025	1	1	PASSES			
Pr0Zo3Sp1	16 (Office - Open Plan	2,025	1	1	PASSES			
Pr0Zo3Sp1	16 (Office - Open Plan	2,025	1	1	PASSES			
Pr0Zo3Sp1	16 (Office - Open Plan	2,025	1	1	PASSES			
				PASSES					

	Syster	n Report (Complia	ance				
Pr0Sy1	System 1	-	Const Syster	ant Volume m902	No. of Units 1			
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
Cooling System	Air Conditioners Air Cooled > 760000 Btu/h Cooling Capacity	930326	12.80	9.70	12.90	9.80	PASSES	
Heating System	Electric Furnace	1712720	1.00	1.00			PASSES	
Air Handling	Air Handler (Supply) -	31717	0.80	0.82			PASSES	
System -Supply	Constant Volume							
Pr0Sy3	System 1		Const Syster	ant Volume m902	Packaged	Ν	lo. of Units 1	
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	144292	12.80	11.00	12.90	11.20	PASSES	
Heating System	Electric Furnace	270450	1.00	1.00			PASSES	
Air Handling	Air Handler (Supply) -	5008	0.80	0.82			PASSES	
System -Supply	Constant Volume							
Pr0Sy4	System 1		Const Syster	ant Volume m902	Packaged	Ν	lo. of Units 1	
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	146944	12.80	11.00	12.90	11.20	PASSES	
Heating System	Electric Furnace	271640	1.00	1.00			PASSES	
Air Handling	Air Handler (Supply) -	5030	0.80	0.82			PASSES	
System -Supply	Constant Volume							
Pr0Sy5 System 1			Constant Volume Packaged System902			No. of Units 1		
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	

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Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	142287	12.80	11.00	12.90	11.20	PASSES
Heating System	Electric Furnace	261750	1.00	1.00			PASSES
Air Handling	Air Handler (Supply) -	4847	0.80	0.82			PASSES
System -Supply	Constant Volume						
Pr0Sy2 S	ystem 1		Const Syster	ant Volume m902	Packaged	Ν	lo. 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	130748	12.80	11.20	12.90	11.40	PASSES
Heating System	Electric Furnace	241140	1.00	1.00			PASSES
Air Handling	Air Handler (Supply) -	4465	0.80	0.82			PASSES
System -Supply	Constant Volume						
						PASSE	S

Plant Compliance									
Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category		Comp liance
								None	

Project: TAM A1 Title: TAM Prototyj Type: Office (WEA File: FL/MI/	pe Building A1 AMI_INTL_AP.tm3)									
Water Heater Compliance										
Description	Description Type Category Design Min De Eff Eff L									
Water Heater 1	Electric water heater	r <= 12 [kW]	0.89	0.86	290.00	PA	ASSES			
						PA	SSES			
		Piping S	ystem Compl	iance						
Category		Pipe Dia Is [inches] Runout?	Operating Ins (Temp [Btu- [F] .SF	Cond in/hr 1 '.F]	Ins Fhick [in]	Req Ins Thick [in	Compliance 1]			
						None				
Project: TAM A1 Title: TAM Prototy Type: Office (WEA File: FL_ML	pe Building A1 AMI_INTL_AP.tm3)									
		Other Requ	iired Complia	nce						
Category	Section	Requirement (write	e N/A in box if not	applicab	le)		Check			
Project: TAM A	1									