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
Appli includ	cations 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, compliance 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

PROJECT SUMMARY

Short Desc: Building C1 CZ1 Man **Description:** TAM Building C1

Owner: Enter Owner's name here

Address1:Enter Address hereCity:Enter city hereAddress2:Enter Address hereState:Enter state here

Zip: 0

Type: Manufacturing Facility Class: New Finished building

Jurisdiction: MIAMI, MIAMI-DADE COUNTY, FL (232400)

Conditioned Area:160000 SFConditioned & UnConditioned Area:160000 SFNo of Stories:1Area entered from Plans160000 SFPermit No:0Max Tonnage587.8

If different, write in:

Compliance Summary								
Component	Design	Criteria	Result					
Gross Energy Cost (in \$)	128,333.0	122,684.0	FAILED					
LIGHTING CONTROLS			FAILS					
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					

IMPORTANT MESSAGE

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

CERTIFICATIONS

		ereby certify that the plans and specificatior orida Energy Code
Official:		Prepared By:
Date:		Date:
	the FLorida Energy Effic	certify that this building is in compliance with
Date:		Owner Agent:
		Required by Florida law, I hereby certify (*) t
	that the system design is	Required by Florida law, I hereby certify (*) t
with the Florida Energy	that the system design is	Required by Florida law, I hereby certify (*) t
with the Florida Energy Reg No:	that the system design is	Required by Florida law, I hereby certify (*) tfficiency Code Architect:
with the Florida Energy Reg No: Reg No:	that the system design is	Required by Florida law, I hereby certify (*) tifficiency Code Architect: Electrical Designer:

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

Building End Uses

	1) Proposed	2) Baseline
otal	8,242.20	7,897.10
	\$128,333	\$122,684
ELECTRICITY(MBtu/kWh/\$)	8,205.90	7,858.00
	2404346	2302419
	\$128,152	\$122,489
AREA LIGHTS	1,672.30	1,856.20
	489992	543877
	\$26,117	\$28,934
MISC EQUIPMT	1,600.10	1,600.10
	468840	468840
	\$24,989	\$24,942
PUMPS & MISC	0.00	0.10
	9	23
	\$0	\$1
SPACE COOL	2,567.70	3,039.10
	752329	890452
	\$40,099	\$47,372
SPACE HEAT	0.00	0.20
	0	62
	\$0	\$3
VENT FANS	2,365.80	1,362.30
	693176	399165
	\$36,946	\$21,236
NATURAL-GAS(MBtu/therm/\$)	36.30	39.10
	363	391
	\$182	\$196
SPACE HEAT	36.30	39.10
	363	391
	\$182	\$196

Credits Applied: None

FAILS

Passing Criteria = 122684

Design (including any credits) = 128333

Passing requires Proposed Building cost to be at most 100% of

Baseline cost. This Proposed Building is at 104.6%

Project: Building C1 CZ1 Man Title: TAM Building C1 Type: Manufacturing Facility (WEA File: Miami.tmy)

External Lighting Compliance

Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units	ELPA (W)	CLP (W)
Ext Light 2	Walk way less than 10 feet wide	Yes	1.00	(Sqft or ft)	400	22 ⁴
Ext Light 3	Main entries	Yes	30.00	400.0		600

Tradable Surfaces: 824 (W) Allowance for Tradable: 420 (W)

FAILS

All External Lighting: 824 (W)

Complicance check includes a excess/Base allowance of 20.00(W)

Project: Building C1 CZ1 Man Title: TAM Building C1 Type: Manufacturing Facility (WEA File: Miami.tmy)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli- ance
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Pr0Zo2Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	3	3	PASSES
Pr0Zo3Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Pr0Zo4Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Pr0Zo5Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	25,900	3	3	PASSES
				FAI	ILS	

6/1/2015

Project: Building C1 CZ1 Man
Title: TAM Building C1
Type: Manufacturing Facility
(WEA File: Miami.tmy)

Pr0Sy1

	System Report Compliance
System 1	Constant Volume Packaged

System--902

No. of Units

Design Eff Design **IPLV** Component Category Capacity Comp-Eff Criteria **IPLV** Criteria liance Cooling System Air Conditioners Air Cooled 7053765 12.20 9.50 12.30 9.60 **PASSES** > 760000 Btu/h Cooling Capacity Warm Air Gas Furnace >= 90.00 80.00 **PASSES** Heating System 12100260 225000 Btu/h Air Handling Air Handler (Supply) -224079 0.82 **PASSES** 0.80 System -Supply Constant Volume

Pr0Sy2 System 2 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	470394	12.20	9.80	12.30	9.90	PASSES
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	848110	90.00	80.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	15706	0.80	0.82			PASSES

Pr0Sy3 System 3 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	507008	12.20	9.80	12.30	9.90	PASSES
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	924020	90.00	80.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	17111	0.80	0.82			PASSES

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Pr0Sy4 Sy	estem 4			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 240000 to 760000 Btu/h Cooling Capacity	427951	12.20	9.80	12.30	9.90	PASSES	
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	780700	90.00	80.00			PASSES	
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	14457	0.80	0.82			PASSES	
Pr0Sy5 Sy Component	Category	Capacity	Constant Volume Packaged System902 Design Eff Design Eff Criteria IPLV			No. of Unit IPLV Comp- Criteria liance		
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h	491830	12.20	9.80	12.30	9.90	PASSES	
Heating System	Cooling Capacity Warm Air Gas Furnace >= 225000 Btu/h	923040	90.00	80.00			PASSES	
Air Handling	Air Handler (Supply) -	17093	0.80	0.82			PASSES	
System -Supply	Constant Volume							
System -Supply	Constant Volume							

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

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Type: Manufacturii (WEA File: Miami.							
		Water Heater Compl	liance				
Description	Туре	Category	Design Eff	Min Eff	Design Loss	Max Comp Loss liance	
Water Heater 1	Gas Storage water heater	<= 75000 Btu/h; >= 20 Gal	0.58	0.52		PASSES	
						PASSES	
		Piping Systen	ı Compl	iance			
Category		Pipe Dia Is Opera [inches] Runout? Tem [F]	p [Btu-	in/hr T	Ins [hick [in]	Req Ins Compliance Thick [in]	
						None	
Project: Building C Title: TAM Buildin Type: Manufacturi (WEA File: Miami.	g C1 ng Facility						
		Other Required	Complia	nce			
		Requirement (write N/A in box if not applicable) Check					

6/1/2015

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 includ	cations 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

PROJECT SUMMARY

Short Desc: Building C1 CZ1 Man **Description:** TAM Building C1

Owner: Enter Owner's name here

Address1:Enter Address hereCity:Enter city hereAddress2:Enter Address hereState:Enter state here

Zip: 0

Type: Manufacturing Facility Class: New Finished building

Jurisdiction: MIAMI, MIAMI-DADE COUNTY, FL (232400)

Conditioned Area:160000 SFConditioned & UnConditioned Area:160000 SFNo of Stories:1Area entered from Plans160000 SFPermit No:0Max Tonnage587.8

If different, write in:

Compliance Summary								
Component	Design	Criteria	Result					
Gross Energy Cost (in \$)	126,942.0	106,010.0	FAILED					
LIGHTING CONTROLS			FAILS					
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					

IMPORTANT MESSAGE

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

CERTIFICATIONS

		ereby certify that the plans and specificatior orida Energy Code
Official:		Prepared By:
Date:		Date:
	the FLorida Energy Effic	certify that this building is in compliance with
Date:		Owner Agent:
		Required by Florida law, I hereby certify (*) t
	that the system design is	Required by Florida law, I hereby certify (*) t
with the Florida Energy	that the system design is	Required by Florida law, I hereby certify (*) t
with the Florida Energy Reg No:	that the system design is	Required by Florida law, I hereby certify (*) tfficiency Code Architect:
with the Florida Energy Reg No: Reg No:	that the system design is	Required by Florida law, I hereby certify (*) tifficiency Code Architect: Electrical Designer:

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

Building End Uses

	1) Proposed	2) Baseline
Total	8,168.70	8,035.10
	\$126,942	\$124,717
ELECTRICITY(MBtu/kWh/\$)	8,131.90	8,007.00
	2382670	2346077
	\$126,758	\$124,577
AREA LIGHTS	1,672.30	2,174.10
	489992	637010
	\$26,068	\$33,825
MISC EQUIPMT	1,600.10	1,600.10
	468840	468840
	\$24,942	\$24,895
PUMPS & MISC	0.00	0.00
	\$0	\$0
SPACE COOL	2,523.30	2,928.00
of ACL GOOL	739326	857918
	\$39,332	\$45,555
SPACE HEAT	0.00	0.00
	0	1
	\$0	\$0
VENT FANS	2,336.20	1,304.80
	684503	382299
	\$36,416	\$20,300
NATURAL-GAS(MBtu/therm/\$)	36.80	28.10
	368	281
	\$184	\$141
SPACE HEAT	36.80	28.10
	368	281
	\$184	\$141

Credits Applied: None

Passing Criteria = 106010

Design (including any credits) = 126942

Passing requires Proposed Building cost to be at most 85% of

Baseline cost. This Proposed Building is at 101.8%

Project: Building C1 CZ1 Man Title: TAM Building C1 Type: Manufacturing Facility (WEA File: Miami.tmy)

External Lighting Compliance

FAILS

FAILS

Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units	ELPA (W)	CLP (W)
Ext Light 2	Walk way less than 10 feet wide	Yes	1.00	(Sqft or ft)	400	22 ⁴
Ext Light 3	Main entries	Yes	30.00	400.0		600

Tradable Surfaces: 824 (W) Allowance for Tradable: 420 (W)

All External Lighting: 824 (W)

Complicance check includes a excess/Base allowance of 20.00(W)

Project: Building C1 CZ1 Man Title: TAM Building C1 Type: Manufacturing Facility (WEA File: Miami.tmy)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli- ance
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Pr0Zo2Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	3	3	PASSES
Pr0Zo3Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Pr0Zo4Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Pr0Zo5Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	25,900	3	3	PASSES
			Г	FAI	LS	

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Project: Building C1 CZ1 Man
Title: TAM Building C1
Type: Manufacturing Facility
(WEA File: Miami.tmy)

System 1

Constant Volume

Pr0Sy1

System -Supply

System Report Compliance					
	Constant Volume Packaged				

No. of Units

	System902						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	7053765	12.20	9.70	12.30	9.80	PASSES
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	12100260	90.00	80.00			PASSES
Air Handling	Air Handler (Supply) -	224079	0.80	0.82			PASSES

Pr0Sy2 System 2 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	470394	12.20	10.00	12.30	10.10	PASSES
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	848110	90.00	80.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	15706	0.80	0.82			PASSES

Pr0Sy3 System 3 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	507008	12.20	10.00	12.30	10.10	PASSES
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	924020	90.00	80.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	17111	0.80	0.82			PASSES

6/1/2015 Page 6 of 8

Pr0Sy4 Sy			ant Volume m902	No. of Units			
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	427951	12.20	10.00	12.30	10.10	PASSES
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	780700	90.00	80.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	14457	0.80	0.82			PASSES
Component Sy	Pr0Sy5 System 5 Component Category			eant Volume m902 Eff	Design	IPLV	lo. of Units 1
	Category		Eff	Criteria	IPLV	Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h	491830	12.20	Criteria	_		-
Cooling System Heating System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Warm Air Gas Furnace >=	491830 923040			IPLV	Criteria	liance
	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity		12.20	10.00	IPLV	Criteria	liance PASSES
Heating System Air Handling	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Warm Air Gas Furnace >= 225000 Btu/h Air Handler (Supply) -	923040	12.20 90.00	10.00	IPLV	Criteria	PASSES PASSES

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

6/1/2015 Page 7 of 8

Type: Manufacturii (WEA File: Miami.						
		Water Heater Compl	liance			
Description	Туре	Category	Design Eff	Min Eff	Design Loss	Max Comp Loss liance
Water Heater 1	Gas Storage water heater	<= 75000 Btu/h; >= 20 Gal	0.58	0.52		PASSES
						PASSES
		Piping Systen	ı Compl	iance		
Category		Pipe Dia Is Opera [inches] Runout? Tem [F]	p [Btu-	in/hr T	Ins [hick [in]	Req Ins Compliance Thick [in]
						None
Project: Building C Title: TAM Buildin Type: Manufacturi (WEA File: Miami.	g C1 ng Facility					
		Other Required	Complia	nce		
			box if not a			Check

6/1/2015

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
Appli includ	cations 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

PROJECT SUMMARY

Short Desc: Building C1 CZ1 Man **Description:** TAM Building C1

Owner: Enter Owner's name here

Address1:Enter Address hereCity:Enter city hereAddress2:Enter Address hereState:Enter state here

Zip: 0

Type: Manufacturing Facility Class: New Finished building

Jurisdiction: MIAMI, MIAMI-DADE COUNTY, FL (232400)

Conditioned Area:160000 SFConditioned & UnConditioned Area:160000 SFNo of Stories:1Area entered from Plans160000 SFPermit No:0Max Tonnage587.8

If different, write in:

Compliance Summary							
Component	Design	Criteria	Result				
ENVELOPE PRESCRIPTIVE			FAILS				
LIGHTING POWER	160,001.0	177,600.0	PASSES				
LIGHTING CONTROLS			FAILS				
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				

IMPORTANT MESSAGE

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

CERTIFICATIONS

Prepared By:	Building Official:
Date:	Date:
certify that this building is in compliance with the FLor	da Energy Efficiency Code
Owner Agent:	Date:
Owner Agent.	<i>Dute.</i>
	ystem design is in compliance with the Florida Energy
Required by Florida law, I hereby certify (*) that the s	
Required by Florida law, I hereby certify (*) that the s	/stem design is in compliance with the Florida Energy
Required by Florida law, I hereby certify (*) that the s fficiency Code Architect:	ystem design is in compliance with the Florida Energy Reg No:
Required by Florida law, I hereby certify (*) that the s fficiency Code Architect: Electrical Designer:	rystem design is in compliance with the Florida Energy Reg No: Reg No:

6/1/2015

Prescriptive Envelope Compliance

Item	Zone	Description	Design	Criteria Meet Req.
Glass	Building C1 CZ1	East glass area must be less than or equal to South glass area	.000	1,280.000 Yes
Glass	Building C1 CZ1	West glass area must be less than or equal to South glass area	.000	1,280.000 Yes
Glass	IntA	Percent glass Max allowed (%)	.000	40.000 Yes
Skylights	IntA	Percent Skylight Max allowed (%)	8.649	5.000 No
Pr0Zo1Rf1	IntA	Exterior Roof UValue Max allowed	.040	0.063 Yes
Pr0Zo1Rf1Sk1	Pr0Zo1Rf1	Skylight: SHGC Max allowed	.250	0.190 No
Pr0Zo1Rf1Sk1	Pr0Zo1Rf1Sk1	Skylight: UValue Max allowed	1.000	1.360 Yes
Glass	PerA	Percent glass Max allowed (%)	13.333	40.000 Yes
Pr0Zo2Wa1	PerA	Exterior Wall: UValue Max allowed	.350	0.089 No
Pr0Zo2Wa1Wi1	Pr0Zo2Wa1	Exterior Window: SHGC Max allowed	.176	0.250 Yes
Pr0Zo2Wa1Wi1	Pr0Zo2Wa1	Exterior Window: UValue Max allowed	.600	1.200 Yes
Skylights	PerA	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo2Rf1	PerA	Exterior Roof UValue Max allowed	.040	0.063 Yes
Glass	PerB	Percent glass Max allowed (%)	.000	40.000 Yes
Pr0Zo3Wa1	PerB	Exterior Wall: UValue Max allowed	.350	0.089 No
Skylights	PerB	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo3Rf1	PerB	Exterior Roof UValue Max allowed	.040	0.063 Yes
Glass	PerC	Percent glass Max allowed (%)	.000	40.000 Yes
Pr0Zo4Wa1	PerC	Exterior Wall: UValue Max allowed	.350	0.089 No
Skylights	PerC	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo4Rf1	PerC	Exterior Roof UValue Max allowed	.040	0.063 Yes
Glass	PerD	Percent glass Max allowed (%)	.000	40.000 Yes
Pr0Zo5Wa1	PerD	Exterior Wall: UValue Max allowed	.350	0.089 No
Skylights	PerD	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo5Rf1	PerD	Exterior Roof UValue Max allowed	.040	0.063 Yes
Glass	IntB	Percent glass Max allowed (%)	.000	40.000 Yes
Skylights	IntB	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo1Rf1	IntB	Exterior Roof UValue Max allowed	.040	0.063 Yes
Glass	IntC	Percent glass Max allowed (%)	.000	40.000 Yes
Skylights	IntC	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo1Rf1	IntC	Exterior Roof UValue Max allowed	.040	0.063 Yes
Glass	IntD	Percent glass Max allowed (%)	.000	40.000 Yes
Skylights	IntD	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo1Rf1	IntD	Exterior Roof UValue Max allowed	.040	0.063 Yes

DOES NOT meet Prescriptive Envelope Requirements -- FAILS

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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 2 Ext Light 3	Walk way less than 10 feet wide Main entries	Yes Yes	1.00 30.00	400.0	400	224 600	

Tradable Surfaces: 824 (W) Allowance for Tradable: 420 (W)

FAILS

All External Lighting: 824 (W)

Complicance check includes a excess/Base allowance of 20.00(W)

6/1/2015 Page 5 of 10

Space	Ashrae ID	Description	Area (sq.ft)	Height (ft)	No. of Spaces	Design (W)	Effective (W)	Allowance (W)
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	24.0	1	37000	37000	41,070
Pr0Zo2Sp1	13,001	<u> </u>	5,775	24.0	1	5775	5775	6,410
Pr0Zo3Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	24.0	1	5776	5776	6,410
Pr0Zo4Sp1	13,001		5,775	24.0	1	5775	5775	6,410
Pr0Zo5Sp1	13,001	٠,	5,775	24.0	1	5775	5775	6,410
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	24.0	1	37000	37000	41,070
Interior	13,001	· —	37,000	24.0	1	37000	37000	41,070
Interior	13,001	· —	25,900	24.0	1	25900	25900	28,749
Design :		60001 (W) 60001 (W)					PASSI	ES

Effective: 160001 (W) Allowance: 177600 (W)

Passing requires Design to be at most 100% of Criteria

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Lighting	g Controls	Comp	liance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli- ance
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Pr0Zo2Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	3	3	PASSES
Pr0Zo3Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Pr0Zo4Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Pr0Zo5Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	25,900	3	3	PASSES
				FAI	LS	

6/1/2015 Page 7 of 10

System Report Compliance

Pr0Sy1	System 1	Constant Volume Packaged	No. of Units
		System902	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	7053765	12.20	9.50	12.30	9.60	PASSES
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	12100260	90.00	80.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	224079	0.80	0.82			PASSES

Pr0Sy2 System 2 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	470394	12.20	9.80	12.30	9.90	PASSES
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	848110	90.00	80.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	15706	0.80	0.82			PASSES

Pr0Sy3 System 3 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	507008	12.20	9.80	12.30	9.90	PASSES
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	924020	90.00	80.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	17111	0.80	0.82			PASSES

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Pr0Sy4 Sy			ant Volume m902	Packaged	No. of Units 1		
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	427951	12.20	9.80	12.30	9.90	PASSES
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	780700	90.00	80.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	14457	0.80	0.82			PASSES
Pr0Sy5 Sy Component	Category	Capacity		eant Volume m902 Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h	491830	12.20	9.80	12.30	9.90	PASSES
Heating System	Cooling Capacity Warm Air Gas Furnace >= 225000 Btu/h	923040	90.00	80.00			PASSES
Air Handling	Air Handler (Supply) -	17093	0.80	0.82			PASSES
System -Supply	Constant Volume						
System -Supply	Constant Volume						

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

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	my)	Water Heater Comp	liance			
Description	Туре	Category	Design Eff	Min Eff	Design Loss	Max Comp Loss liance
Water Heater 1	Gas Storage water heater	<= 75000 Btu/h; >= 20 Gal	0.58	0.52		PASSES
						PASSES
		Piping Syster	n Compli	iance		
Category		Pipe Dia Is Opera [inches] Runout? Ten [F	np [Btu-i	in/hr Th	Ins nick [in]	Req Ins Compli Thick [in]
						None
Project: Building C Title: TAM Buildin Type: Manufacturii	g C1 ng Facility					
(WEA File: Miami.		Other Required	Complia	nce		
(WEA File: Miami.		Other Required	Compila			

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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
Appli includ	cations 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

PROJECT SUMMARY

Short Desc: Building C1 CZ1 Man **Description:** TAM Building C1

Owner: Enter Owner's name here

Address1:Enter Address hereCity:Enter city hereAddress2:Enter Address hereState:Enter state here

Zip: 0

Type: Manufacturing Facility Class: New Finished building

Jurisdiction: MIAMI, MIAMI-DADE COUNTY, FL (232400)

Conditioned Area:160000 SFConditioned & UnConditioned Area:160000 SFNo of Stories:1Area entered from Plans160000 SFPermit No:0Max Tonnage587.8

If different, write in:

Compliance Summary									
Component	Design	Criteria	Result						
ENVELOPE PRESCRIPTIVE			FAILS						
Additional Effficiency Prescriptive Option			Failed						
LIGHTING POWER	160,001.0	208,000.0	PASSES						
LIGHTING CONTROLS			FAILS						
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						

IMPORTANT MESSAGE

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

6/1/2015

CERTIFICATIONS

Prepared By:	Building Official:
Date:	Date:
certify that this building is in compliance with the FLor	da Energy Efficiency Code
Owner Agent:	Date:
Owner Agent.	<i>Dute.</i>
	ystem design is in compliance with the Florida Energy
Required by Florida law, I hereby certify (*) that the s	
Required by Florida law, I hereby certify (*) that the s	/stem design is in compliance with the Florida Energy
Required by Florida law, I hereby certify (*) that the s fficiency Code Architect:	ystem design is in compliance with the Florida Energy Reg No:
Required by Florida law, I hereby certify (*) that the s fficiency Code Architect: Electrical Designer:	rystem design is in compliance with the Florida Energy Reg No: Reg No:

6/1/2015

Prescriptive Envelope Compliance

Item	Zone	Description	Design	Criteria Meet Req.
Glass	IntA	Percent glass Max allowed (%)	.000	30.000 Yes
Skylights	IntA	Percent Skylight Max allowed (%)	8.649	3.000 No
Pr0Zo1Rf1	IntA	Exterior Roof UValue Max allowed	.040	0.048 Yes
Pr0Zo1Rf1	IntA	Exterior Roof Absorptance (3-year aged) Max	.400	0.450 Yes
TIOZOTKII	IIItA	allowed	.400	0.430 168
Pr0Zo1Rf1	IntA	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Pr0Zo1Rf1Sk1	Pr0Zo1Rf1	Skylight: SHGC Max allowed	.250	0.350 Yes
Pr0Zo1Rf1Sk1	Pr0Zo1Rf1Sk1	Skylight: UValue Max allowed	1.000	0.750 No
Glass	PerA	Percent glass Max allowed (%)	13.333	30.000 Yes
Pr0Zo2Wa1	PerA	Exterior Wall: UValue Max allowed	.350	0.064 No
Pr0Zo2Wa1Wi1	Pr0Zo2Wa1	Exterior Window: SHGC Max allowed	.400	0.400 Yes
Pr0Zo2Wa1Wi1	Pr0Zo2Wa1	Exterior Window: UValue Max allowed	.600	0.500 No
Skylights	PerA	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo2Rf1	PerA	Exterior Roof UValue Max allowed	.040	0.048 Yes
Pr0Zo2Rf1	PerA	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450 Yes
Pr0Zo2Rf1	PerA	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	PerB	Percent glass Max allowed (%)	.000	30.000 Yes
Pr0Zo3Wa1	PerB	Exterior Wall: UValue Max allowed	.350	0.064 No
Skylights	PerB	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo3Rf1	PerB	Exterior Roof UValue Max allowed	.040	0.048 Yes
Pr0Zo3Rf1	PerB	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450 Yes
Pr0Zo3Rf1	PerB	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	PerC	Percent glass Max allowed (%)	.000	30.000 Yes
Pr0Zo4Wa1	PerC	Exterior Wall: UValue Max allowed	.350	0.064 No
Skylights	PerC	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo4Rf1	PerC	Exterior Roof UValue Max allowed	.040	0.048 Yes
Pr0Zo4Rf1	PerC	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450 Yes
Pr0Zo4Rf1	PerC	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	PerD	Percent glass Max allowed (%)	.000	30.000 Yes
Pr0Zo5Wa1	PerD	Exterior Wall: UValue Max allowed	.350	0.064 No
Skylights	PerD	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo5Rf1	PerD	Exterior Roof UValue Max allowed	.040	0.048 Yes
Pr0Zo5Rf1	PerD	Exterior Roof Absorptance (3-year aged) Max	.400	0.450 Yes
		allowed		
Pr0Zo5Rf1	PerD	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	IntB	Percent glass Max allowed (%)	.000	30.000 Yes
Skylights	IntB	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo1Rf1	IntB	Exterior Roof UValue Max allowed	.040	0.048 Yes

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Pr0Zo1Rf1	IntB	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450	Yes
Pr0Zo1Rf1	IntB	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750	Yes
Glass	IntC	Percent glass Max allowed (%)	.000	30.000	Yes
Skylights	IntC	Percent Skylight Max allowed (%)	.000	3.000	Yes
Pr0Zo1Rf1	IntC	Exterior Roof UValue Max allowed	.040	0.048	Yes
Pr0Zo1Rf1	IntC	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450	Yes
Pr0Zo1Rf1	IntC	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750	Yes
Glass	IntD	Percent glass Max allowed (%)	.000	30.000	Yes
Skylights	IntD	Percent Skylight Max allowed (%)	.000	3.000	Yes
Pr0Zo1Rf1	IntD	Exterior Roof UValue Max allowed	.040	0.048	Yes
Pr0Zo1Rf1	IntD	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450	Yes
Pr0Zo1Rf1	IntD	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750	Yes

DOES NOT meet Prescriptive Envelope Requirements -- FAILS

Project: Building C1 CZ1 Man Title: TAM Building C1 Type: Manufacturing Facility (WEA File: Miami.tmy)

	External Li	ghting C	omplianc	e		
Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 2 Ext Light 3	Walk way less than 10 feet wide Main entries	Yes Yes	1.00 30.00	400.0	400	224 600

FAILS

Tradable Surfaces: 824 (W) Allowance for Tradable: 420 (W)

All External Lighting: 824 (W)

Complicance check includes a excess/Base allowance of 20.00(W)

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

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Space	Ashrae ID	Description	Area (sq.ft)	Height (ft)	No. of Spaces	Design (W)	Effective (W)	Allowance (W)
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling	37,000	24.0	1	37000	37000	48,100
Pr0Zo2Sp1	13,001	(Manufacturing) General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	24.0	1	5775	5775	7,508
Pr0Zo3Sp1	13,001	` •	5,775	24.0	1	5776	5776	7,508
Pr0Zo4Sp1	13,001		5,775	24.0	1	5775	5775	7,508
Pr0Zo5Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	24.0	1	5775	5775	7,508
Interior	13,001	•	37,000	24.0	1	37000	37000	48,100
Interior	13,001	` •	37,000	24.0	1	37000	37000	48,100
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	25,900	24.0	1	25900	25900	33,670
Design : Effective:		60001 (W) 60001 (W)					PASS	ES

Effective: 160001 (W)
Allowance: 208000 (W)

Passing requires Design to be at most 100% of Criteria

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Lighting	g Controls	Comp	liance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli- ance
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Pr0Zo2Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	3	3	PASSES
Pr0Zo3Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Pr0Zo4Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Pr0Zo5Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	25,900	3	3	PASSES
				FAI	LS	

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System Report Compliance

Pr0Sy1	System 1	Constant Volume Packaged No.	of Units
		System902	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	7053765	12.20	9.70	12.30	9.80	PASSES
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	12100260	90.00	80.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	224079	0.80	0.82			PASSES

Pr0Sy2 System 2 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	470394	12.20	10.00	12.30	10.10	PASSES
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	848110	90.00	80.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	15706	0.80	0.82			PASSES

Pr0Sy3 System 3 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	507008	12.20	10.00	12.30	10.10	PASSES
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	924020	90.00	80.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	17111	0.80	0.82			PASSES

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Category Conditioners Air Cooled 10000 to 760000 Btu/h 1001 poling Capacity 1000 Btu/h 1000 Btu/h 1000 Btu/h 1000 Handler (Supply) - 1000 Handler (Su	Capacity 427951 780700 14457	Design Eff 12.20 90.00 0.80	Eff Criteria 10.00 80.00 0.82	Design IPLV 12.30	IPLV Criteria 10.10	Compliance PASSES PASSES PASSES
0000 to 760000 Btu/h poling Capacity rm Air Gas Furnace >= 0000 Btu/h Handler (Supply) - nstant Volume	780700	90.00	80.00			PASSES PASSES
rm Air Gas Furnace >= 5000 Btu/h Handler (Supply) - enstant Volume		0.80	0.82	Dagkagad		PASSES
nstant Volume	14457			Daakagad		
;		Const	ant Volume	Daglzagad		
Category	Capacity	Syster Design	m902 Eff	Design	IPLV	1 Comp-
5 .		Eff	Criteria	IPLV	Criteria	liance
Conditioners Air Cooled 1000 to 760000 Btu/h	491830	12.20	10.00	12.30	10.10	PASSES
rm Air Gas Furnace >= 5000 Btu/h	923040	90.00	80.00			PASSES
Handler (Supply) -	17093	0.80	0.82			PASSES
nstant Volume						
)(5) r: 5(000 to 760000 Btu/h ling Capacity m Air Gas Furnace >= 000 Btu/h	000 to 760000 Btu/h ling Capacity m Air Gas Furnace >= 923040 000 Btu/h Handler (Supply) - 17093	000 to 760000 Btu/h ling Capacity m Air Gas Furnace >= 923040 90.00 000 Btu/h Handler (Supply) - 17093 0.80	000 to 760000 Btu/h ling Capacity m Air Gas Furnace >= 923040 90.00 80.00 000 Btu/h Handler (Supply) - 17093 0.80 0.82	000 to 760000 Btu/h ling Capacity m Air Gas Furnace >= 923040 90.00 80.00 000 Btu/h Handler (Supply) - 17093 0.80 0.82	000 to 760000 Btu/h ling Capacity m Air Gas Furnace >= 923040 90.00 80.00 000 Btu/h Handler (Supply) - 17093 0.80 0.82

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

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	WEA File: Miami.tmy) Water Heater Compliance										
Description	Туре	Category	Design Eff	Min Eff	Design Loss	Max Comp Loss liance					
Water Heater 1	Gas Storage water heater	<= 75000 Btu/h; >= 20 Gal	0.58	0.52		PASSES					
						PASSES					
		Piping Syster	n Compli	iance							
Category		Pipe Dia Is Opera [inches] Runout? Ten [F	np [Btu-i	in/hr Tl	Ins nick [in]	Req Ins Compli Thick [in]					
						None					
Project: Building C Title: TAM Buildin Type: Manufacturii (WEA File: Miami.	g C1 ng Facility										
		Other Required	Complia	nce							

6/1/2015 Page 10 of 10

DOE Based Sizing

PROJECT SUMMARY

Short Desc: Building C1 Description: TAM Building C1

Owner: Enter Owner's name here

Address1:Enter Address hereCity:Enter city hereAddress2:Enter Address hereState:Enter state here

Zip: 0

Type: Manufacturing Facility Class: New Finished building

Weather File: FL_MIAMI_INTL_AP.tm3

Conditioned Area: 160000 SF

No of Stories: 1

Conditioned & UnConditioned Area: 160000 SF

Area entered from Plans 160000 SF

Permit No: 0 Max Tonnage 0

If different, write in:

CERTIFICATIONS

		authority of jurisdiction
	Building Official:	Prepared By:
	Date:	Date:
	quired by the authority of jurisdiction	rtify that this building is in compliance as required by the a
	Date:	Owner Agent:
	stem design is in compliance as required by the au	equired by law, I hereby certify (*) that the system design is ediction
ne authority of	Reg No:	sdiction
ne authority of	Reg No: Reg No:	Architect:
ne authority of	Reg No: Reg No: Reg No: Reg No:	Architect: Electrical Designer:

5/30/2015 Page 2 of 3

DOE 2.1 E Based Sized Parameters (Beta Feature)

<u>IdSystem</u>	System Name	System Type	
1	Pr0Sy1	System 1	
	Component Cooling System	Sized Value 7053765	<u>Units</u> BTU/HR
	Heating System Air Handling System -Supply	1.210026E+07 224079	Btu/h CFM
2	Pr0Sy2	System 2	
	<u>Component</u>	Sized Value	<u>Units</u>
	Cooling System	470394	BTU/HR
	Heating System Air Handling System -Supply	848110 15706	Btu/h CFM
	, in Flanding System Supply	101.00	O
3	Pr0Sy3	System 3	
	<u>Component</u>	Sized Value	<u>Units</u>
	Cooling System	507008	BTU/HR
	Heating System Air Handling System -Supply	924020 17111	Btu/h CFM
	7 th Flanding Cystem Supply	17111	OI W
4	Pr0Sy4	System 4	
	<u>Component</u>	Sized Value	<u>Units</u>
	Cooling System	427951	BTU/HR
	Heating System Air Handling System -Supply	780700 14457	Btu/h CFM
	7 th Flanding Cystem Supply	14401	OI W
5	Pr0Sy5	System 5	
	<u>Component</u>	Sized Value	<u>Units</u>
	Cooling System	491830	BTU/HR
	Heating System Air Handling System -Supply	923040 17093	Btu/h CFM
	All Flatiding System -Supply	17093	OI IVI

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
Appli includ	cations 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, compliance 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

PROJECT SUMMARY

Short Desc: Building C1 CZ1 Ware Description: TAM Building C1

Owner: Enter Owner's name here

Address1:Enter Address hereCity:Enter city hereAddress2:Enter Address hereState:Enter state here

Zip: 0

Type: Warehouse Class: New Finished building

Jurisdiction: MIAMI, MIAMI-DADE COUNTY, FL (232400)

Conditioned Area: 160000 SF

No of Stories: 1

Conditioned & UnConditioned Area: 160000 SF

Area entered from Plans 160000 SF

Permit No: 0 Max Tonnage 41

If different, write in:

Compliance Summary						
Component	Design	Criteria	Result			
Gross Energy Cost (in \$)	103,055.0	81,753.0	FAILED			
LIGHTPIG CONTROLG			EAH C			
LIGHTING CONTROLS EXTERNAL LIGHTING			FAILS			
HVAC SYSTEM			FAILS FAILS			
PLANT			No Entry			
WATER HEATING SYSTEMS			PASSES			
PIPING SYSTEMS			No Entry			
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

6/1/2015

CERTIFICATIONS

		ereby certify that the plans and specificatior orida Energy Code
Official:		Prepared By:
Date:		Date:
	the FLorida Energy Effic	certify that this building is in compliance with
Date:		Owner Agent:
		Required by Florida law, I hereby certify (*) t
	that the system design is	Required by Florida law, I hereby certify (*) t
with the Florida Energy	that the system design is	Required by Florida law, I hereby certify (*) t
with the Florida Energy Reg No:	that the system design is	Required by Florida law, I hereby certify (*) tfficiency Code Architect:
with the Florida Energy Reg No: Reg No:	that the system design is	Required by Florida law, I hereby certify (*) tifficiency Code Architect: Electrical Designer:

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

Type: Warehouse

(WEA File: FL_MIAMI_INTL_AP.tm3)

Building End Uses

	1) Proposed	2) Baseline
	6,562.00	5,205.60
	\$103,055	\$81,753
ELECTRICITY(MBtu/kWh/\$)	6,562.00	5,205.60
	1922662	1525235
	\$103,055	\$81,753
AREA LIGHTS	1,672.30	1,103.80
	489992	323404
	\$26,264	\$17,334
MISC EQUIPMT	320.00	320.00
·	93763	93763
	\$5,026	\$5,026
PUMPS & MISC	0.00	0.00
	8	10
	\$0	\$1
SPACE COOL	2,467.60	2,689.50
	722996	788019
	\$38,753	\$42,238
SPACE HEAT	6.20	47.10
	1807	13794
	\$97	\$739
VENT FANS	2,095.90	1,045.20
	614096	306245
	<i>\$32,916</i>	\$16,415

Credits Applied: None

FAILS

Passing Criteria = 81753

Design (including any credits) = 103055

Passing requires Proposed Building cost to be at most 100% of

Baseline cost. This Proposed Building is at 126.1%

Project: Building C1 CZ1 Ware

Title: TAM Building C1
Type: Warehouse

(WEA File: FL_MIAMI_INTL_AP.tm3)

External	Lighting	Compliance
Lincollim		Compilance

	External Eighting Comphanee							
Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)		
Ext Light 2 Ext Light 3	Walk way less than 10 feet wide Main entries	Yes Yes	1.00 30.00	400.0	400	224 600		

Tradable Surfaces: 824 (W) Allowance for Tradable: 420 (W)

FAILS

All External Lighting: 824 (W)

Complicance check includes a excess/Base allowance of 20.00(W)

Project: Building C1 CZ1 Ware Title: TAM Building C1

Type: Warehouse

(WEA File: FL MIAMI INTL AP.tm3)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli- ance
Interior		Storage & Warehouse - Bulky Active Storage	37,000	4	4	PASSES
Pr0Zo2Sp1		Storage & Warehouse - Bulky Active Storage	5,775	3	3	PASSES
Pr0Zo3Sp1		Storage & Warehouse - Bulky Active Storage	5,775	1	3	FAILS
Pr0Zo4Sp1		Storage & Warehouse - Bulky Active Storage	5,775	1	3	FAILS
Pr0Zo5Sp1		Storage & Warehouse - Bulky Active Storage	5,775	1	3	FAILS
Interior		Storage & Warehouse - Bulky Active Storage	37,000	4	4	PASSES
Interior		Storage & Warehouse - Bulky Active Storage	37,000	4	4	PASSES
Interior		Storage & Warehouse - Bulky Active Storage	25,900	3	3	PASSES

FAILS

6/1/2015

Type: Warehouse

(WEA File: FL_MIAMI_INTL_AP.tm3)

System	Report	Compliance
--------	--------	------------

Pr0Sy1	System 1	Constant Volume Packaged	No. of Units
		System902	1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 0 to 65000 Btu/h Cooling Capacity	6760	12.20	13.00	12.30		FAILS
Heating System	Heat Pumps Air Cooled (Heating Mode) < 65000 Btu/h Cooling Capacity	11515080	3.40	2.25			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	213242	0.80	0.82			PASSES

Pr0Sy2 System 2 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp-
			LII	Criteria	IFLV	Criteria	папсе
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h	455562	12.20	9.50	12.30	9.60	PASSES
	Cooling Capacity						
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000	824180	3.40	3.20			PASSES
	Btu/h Cooling Capacity						
Air Handling	Air Handler (Supply) -	15263	0.80	0.82			PASSES
System -Supply	Constant Volume						

Pr0Sy3 System 3 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	492161	12.20	9.50	12.30	9.60	PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity	900090	3.40	3.20			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	16668	0.80	0.82			PASSES

6/1/2015 Page 6 of 8

Pr0Sy4 System 4				ant Volume m902	No. of Units		
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	415573	12.20 9.50 12.30	12.30	9.60	PASSES	
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity	762050	3.40	3.20			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	14112	0.80	0.82			PASSES
Pr0Sv5 Sv	stem 5		Const	ant Volume	Packaged	N	lo, of Units
	stem 5	6 4	Syster	ant Volume m902			No. of Units
Pr0Sy5 Sy Component	Stem 5 Category	Capacity			Packaged Design IPLV	IPLV Criteria	
	Category Air Conditioners Air Cooled 240000 to 760000 Btu/h	Capacity 487196	Syster Design	m902 Eff	Design	IPLV	Comp-
Component	Category Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Heat Pumps Air Cooled (Heating Mode) > 135000		Syster Design Eff	m902 Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Component Cooling System	Category Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Heat Pumps Air Cooled	487196	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance PASSES

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

6/1/2015 Page 7 of 8

Project: Building C1 CZ1 Ware Title: TAM Building C1 Type: Warehouse (WEA File: FL_MIAMI_INTL_AP.tm3) **Water Heater Compliance** Design Min Design Max Comp Description Type Category Eff Eff Loss Loss liance Water Heater 1 <= 75000 Btu/h; **PASSES** Gas Storage water 0.58 0.52 heater >= 20 Gal **PASSES Piping System Compliance** Pipe Dia Is Category Operating Ins Cond Ins Req Ins Compliance [inches] Runout? Temp [Btu-in/hr Thick [in] Thick [in] [F] .SF.F] None Project: Building C1 CZ1 Ware Title: TAM Building C1 Type: Warehouse (WEA File: FL_MIAMI_INTL_AP.tm3) **Other Required Compliance** Category Section Requirement (write N/A in box if not applicable) Check Project: Building C1 CZ1 Ware

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 includ	cations 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

PROJECT SUMMARY

Short Desc: Building C1 CZ1 Ware Description: TAM Building C1

Owner: Enter Owner's name here

Address1:Enter Address hereCity:Enter city hereAddress2:Enter Address hereState:Enter state here

Zip: 0

Type: Warehouse Class: New Finished building

Jurisdiction: MIAMI, MIAMI-DADE COUNTY, FL (232400)

Conditioned Area: 160000 SF

No of Stories: 1

Conditioned & UnConditioned Area: 160000 SF

Area entered from Plans 160000 SF

Permit No: 0 Max Tonnage 41

If different, write in:

Compliance Summary							
Component	Design	Criteria	Result				
Gross Energy Cost (in \$)	101,879.0	63,147.0	FAILED				
LIGHTING CONTROLS			FAILS				
EXTERNAL LIGHTING			FAILS				
HVAC SYSTEM			FAILS				
PLANT			No Entry				
WATER HEATING SYSTEMS			PASSES				
PIPING SYSTEMS			No Entry				
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

6/1/2015

CERTIFICATIONS

	ed by this calculation are in compliance	nereby certify that the plans and specifications cover lorida Energy Code
:	Building Official:	Prepared By:
::	Date:	Date:
	rida Energy Efficiency Code	certify that this building is in compliance with the FLo
::	Date:	Owner Agent:
he Florida Energy	system design is in compliance with the	
he Florida Energy o:		
	Reg No:	efficiency Code
:	Reg No:	Efficiency Code Architect:
x:	Reg No: Reg No: Reg No:	Electrical Designer:

6/1/2015

Type: Warehouse

(WEA File: FL_MIAMI_INTL_AP.tm3)

Building End Uses

	1) Proposed	2) Baseline
al	6,487.10	4,730.40
	\$101,879	\$74,291
ELECTRICITY(MBtu/kWh/\$)	6,487.10	4,730.40
	1900735	1386019
	\$101,879	\$74,291
AREA LIGHTS	1,672.30	1,003.40
	489992	293984
	\$26,264	\$15,758
MISC EQUIPMT	320.00	320.00
	93763	93763
	\$5,026	\$5,026
PUMPS & MISC	0.00	0.00
	8	9
	\$0	\$0
SPACE COOL	2,421.60	2,482.70
	709532	727436
	\$38,031	\$38,991
SPACE HEAT	7.40	22.50
	2155	6596
	\$116	\$354
VENT FANS	2,065.80	901.80
	605285	264231
	<i>\$32,443</i>	\$14,163

Credits Applied: None

FAILS

Passing Criteria = 63147

Design (including any credits) = 101879

Passing requires Proposed Building cost to be at most 85% of

Baseline cost. This Proposed Building is at 137.1%

Project: Building C1 CZ1 Ware

Title: TAM Building C1
Type: Warehouse

(WEA File: FL_MIAMI_INTL_AP.tm3)

External	Lighting	Compliance
Lincollim		Compilance

	External El	gnung C	omphane	C		
Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 2 Ext Light 3	Walk way less than 10 feet wide Main entries	Yes Yes	1.00 30.00	400.0	400	224 600

Tradable Surfaces: 824 (W) Allowance for Tradable: 420 (W)

FAILS

All External Lighting: 824 (W)

Complicance check includes a excess/Base allowance of 20.00(W)

Project: Building C1 CZ1 Ware Title: TAM Building C1

Type: Warehouse

(WEA File: FL MIAMI INTL AP.tm3)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli- ance
Interior		Storage & Warehouse - Bulky Active Storage	37,000	4	4	PASSES
Pr0Zo2Sp1		Storage & Warehouse - Bulky Active Storage	5,775	3	3	PASSES
Pr0Zo3Sp1		Storage & Warehouse - Bulky Active Storage	5,775	1	3	FAILS
Pr0Zo4Sp1		Storage & Warehouse - Bulky Active Storage	5,775	1	3	FAILS
Pr0Zo5Sp1		Storage & Warehouse - Bulky Active Storage	5,775	1	3	FAILS
Interior		Storage & Warehouse - Bulky Active Storage	37,000	4	4	PASSES
Interior		Storage & Warehouse - Bulky Active Storage	37,000	4	4	PASSES
Interior		Storage & Warehouse - Bulky Active Storage	25,900	3	3	PASSES

FAILS

6/1/2015

Type: Warehouse

(WEA File: FL_MIAMI_INTL_AP.tm3)

Pr0Sy1	System 1	Constant Volume Packaged	No. of Units
		System902	1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled < 65000 Btu/h Cooling Capacity	6760	12.20	12.23	12.30		FAILS
Heating System	Heat Pumps Air Cooled (Heating Mode) < 65000 Btu/h Cooling Capacity	11515080	3.40	2.25			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	213242	0.80	0.82			PASSES

Pr0Sy2 System 2 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h	455562	12.20	9.50	12.30	9.60	PASSES
Heating System	Cooling Capacity Heat Pumps Air Cooled	824180	3.40	3.20			PASSES
	(Heating Mode) > 135000 Btu/h Cooling Capacity						
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	15263	0.80	0.82			PASSES

Pr0Sy3 System 3 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	492161	12.20	9.50	12.30	9.60	PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity	900090	3.40	3.20			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	16668	0.80	0.82			PASSES

6/1/2015 Page 6 of 8

Pr0Sy4 Sy			ant Volume m902	Packaged	No. of Units		
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	415573	12.20	9.50	12.30	9.60	PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity	762050	3.40	3.20			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	14112	0.80	0.82			PASSES
Pr0Sv5 Sv	stem 5		Const	ant Volume	Packaged	N	lo, of Units
	stem 5	6 4	Syster	ant Volume m902			No. of Units
Pr0Sy5 Sy Component	Stem 5 Category	Capacity			Packaged Design IPLV	IPLV Criteria	
	Category Air Conditioners Air Cooled 240000 to 760000 Btu/h	Capacity 487196	Syster Design	m902 Eff	Design	IPLV	Comp-
Component	Category Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Heat Pumps Air Cooled (Heating Mode) > 135000		Syster Design Eff	m902 Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Component Cooling System	Category Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Heat Pumps Air Cooled	487196	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance PASSES

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

6/1/2015 Page 7 of 8

Project: Building C1 CZ1 Ware Title: TAM Building C1 Type: Warehouse (WEA File: FL_MIAMI_INTL_AP.tm3) **Water Heater Compliance** Design Min Design Max Comp Description Type Category Eff Eff Loss Loss liance Water Heater 1 <= 75000 Btu/h; **PASSES** Gas Storage water 0.58 0.52 heater >= 20 Gal **PASSES Piping System Compliance** Pipe Dia Is Category Operating Ins Cond Ins Req Ins Compliance [inches] Runout? Temp [Btu-in/hr Thick [in] Thick [in] [F] .SF.F] None Project: Building C1 CZ1 Ware Title: TAM Building C1 Type: Warehouse (WEA File: FL_MIAMI_INTL_AP.tm3) **Other Required Compliance** Category Section Requirement (write N/A in box if not applicable) Check Project: Building C1 CZ1 Ware

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
Appli includ	cations 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

PROJECT SUMMARY

Short Desc: Building C1 CZ1 Ware Description: TAM Building C1

Owner: Enter Owner's name here

Address1:Enter Address hereCity:Enter city hereAddress2:Enter Address hereState:Enter state here

Zip: 0

Type: Warehouse Class: New Finished building

Jurisdiction: MIAMI, MIAMI-DADE COUNTY, FL (232400)

Conditioned Area: 160000 SF

No of Stories: 1

Conditioned & UnConditioned Area: 160000 SF

Area entered from Plans 160000 SF

Permit No: 0 Max Tonnage 41

If different, write in:

Complianc	e Summary		
Component	Design	Criteria	Result
ENVELOPE PRESCRIPTIVE			FAILS
LIGHTING POWER	160,001.0	105,600.0	FAILS
LIGHTING CONTROLS			FAILS
EXTERNAL LIGHTING			FAILS
HVAC SYSTEM			FAILS
PLANT			No Entry
WATER HEATING SYSTEMS			PASSES
PIPING SYSTEMS			No Entry
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

		rida Energy Code
	Building Official:	Prepared By:
	Date:	Date:
	ida Energy Efficiency Code	ertify that this building is in compliance with the FLor
	Date:	Owner Agent:
	ystem design is in compliance with the Florida	Required by Florida law, I hereby certify (*) that the s
lorida Energy		iciency Code
	Reg No:	Architect:
Iorida Energy		•
	Reg No:	Architect:
	Reg No:	Architect: Electrical Designer:

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

Type: Warehouse

(WEA File: FL_MIAMI_INTL_AP.tm3)

Prescriptive Envelope Compliance

Item	Zone	Description	Design	Criteria Meet Req.
Glass	Building C1 CZ1	East glass area must be less than or equal to South glass area	.000	1,280.000 Yes
Glass	Building C1 CZ1	West glass area must be less than or equal to South glass area	.000	1,280.000 Yes
Glass	IntA	Percent glass Max allowed (%)	.000	40.000 Yes
Skylights	IntA	Percent Skylight Max allowed (%)	8.649	5.000 No
Pr0Zo1Rf1	IntA	Exterior Roof UValue Max allowed	.040	0.063 Yes
Pr0Zo1Rf1Sk1	Pr0Zo1Rf1	Skylight: SHGC Max allowed	.250	0.190 No
Pr0Zo1Rf1Sk1	Pr0Zo1Rf1Sk1	Skylight: UValue Max allowed	1.000	1.360 Yes
Glass	PerA	Percent glass Max allowed (%)	13.333	40.000 Yes
Pr0Zo2Wa1	PerA	Exterior Wall: UValue Max allowed	.350	0.089 No
Pr0Zo2Wa1Wi1	Pr0Zo2Wa1	Exterior Window: SHGC Max allowed	.220	0.250 Yes
Pr0Zo2Wa1Wi1	Pr0Zo2Wa1	Exterior Window: UValue Max allowed	.900	1.200 Yes
Skylights	PerA	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo2Rf1	PerA	Exterior Roof UValue Max allowed	.040	0.063 Yes
Glass	PerB	Percent glass Max allowed (%)	.000	40.000 Yes
Pr0Zo3Wa1	PerB	Exterior Wall: UValue Max allowed	.350	0.089 No
Skylights	PerB	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo3Rf1	PerB	Exterior Roof UValue Max allowed	.040	0.063 Yes
Glass	PerC	Percent glass Max allowed (%)	.000	40.000 Yes
Pr0Zo4Wa1	PerC	Exterior Wall: UValue Max allowed	.350	0.089 No
Skylights	PerC	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo4Rf1	PerC	Exterior Roof UValue Max allowed	.040	0.063 Yes
Glass	PerD	Percent glass Max allowed (%)	.000	40.000 Yes
Pr0Zo5Wa1	PerD	Exterior Wall: UValue Max allowed	.350	0.089 No
Skylights	PerD	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo5Rf1	PerD	Exterior Roof UValue Max allowed	.040	0.063 Yes
Glass	IntB	Percent glass Max allowed (%)	.000	40.000 Yes
Skylights	IntB	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo1Rf1	IntB	Exterior Roof UValue Max allowed	.040	0.063 Yes
Glass	IntC	Percent glass Max allowed (%)	.000	40.000 Yes
Skylights	IntC	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo1Rf1	IntC	Exterior Roof UValue Max allowed	.040	0.063 Yes
Glass	IntD	Percent glass Max allowed (%)	.000	40.000 Yes
Skylights	IntD	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo1Rf1	IntD	Exterior Roof UValue Max allowed	.040	0.063 Yes

DOES NOT meet Prescriptive Envelope Requirements -- FAILS

6/1/2015 Page 4 of 9

Type: Warehouse

(WEA File: FL_MIAMI_INTL_AP.tm3)

External Lighting	Compliance
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	EAWI IIII EI	gnung e	omphane			
Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 2 Ext Light 3	Walk way less than 10 feet wide Main entries	Yes Yes	1.00 30.00	400.0	400	224 600

Tradable Surfaces: 824 (W) Allowance for Tradable: 420 (W)

FAILS

All External Lighting: 824 (W)

Complicance check includes a excess/Base allowance of 20.00(W)

Project: Building C1 CZ1 Ware Title: TAM Building C1 Type: Warehouse

(WEA File: FL_MIAMI_INTL_AP.tm3)

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	iah	tina	PANNAR	('amn	ionoo
L	ичи	นแย	Power	Comp	Hance

Ashrae ID	Description	Area (sq.ft)	Height	No. of	Design	Effective	A 111
		(34.11)	(ft)	Spaces	(W)	(W)	Allowance (W)
3	Storage & Warehouse - Bulky Active Storage	37,000	24.0	1	37000	37000	24,420
3	Storage & Warehouse - Bulky Active Storage	5,775	24.0	1	5775	5775	3,812
3	Storage & Warehouse - Bulky Active Storage	5,775	24.0	1	5776	5776	3,812
3	Storage & Warehouse - Bulky Active Storage	5,775	24.0	1	5775	5775	3,812
3	Storage & Warehouse - Bulky Active Storage	5,775	24.0	1	5775	5775	3,812
3	Storage & Warehouse - Bulky Active Storage	37,000	24.0	1	37000	37000	24,420
3	Storage & Warehouse - Bulky Active Storage	37,000	24.0	1	37000	37000	24,420
3	Storage & Warehouse - Bulky Active Storage	25,900	24.0	1	25900	25900	17,094
	3 3 3 3 3	Bulky Active Storage Storage & Warehouse - Bulky Active Storage	Bulky Active Storage 3 Storage & Warehouse - 5,775 Bulky Active Storage 3 Storage & Warehouse - 5,775 Bulky Active Storage 3 Storage & Warehouse - 5,775 Bulky Active Storage 3 Storage & Warehouse - 5,775 Bulky Active Storage 3 Storage & Warehouse - 37,000 Bulky Active Storage 3 Storage & Warehouse - 37,000 Bulky Active Storage 3 Storage & Warehouse - 37,000 Bulky Active Storage 3 Storage & Warehouse - 25,900	Bulky Active Storage 3 Storage & Warehouse - 5,775 24.0 Bulky Active Storage 3 Storage & Warehouse - 5,775 24.0 Bulky Active Storage 3 Storage & Warehouse - 5,775 24.0 Bulky Active Storage 3 Storage & Warehouse - 5,775 24.0 Bulky Active Storage 3 Storage & Warehouse - 5,775 24.0 Bulky Active Storage 3 Storage & Warehouse - 37,000 24.0 Bulky Active Storage 3 Storage & Warehouse - 37,000 24.0 Bulky Active Storage 3 Storage & Warehouse - 25,900 24.0	Bulky Active Storage 3 Storage & Warehouse - 5,775 24.0 1 Bulky Active Storage 3 Storage & Warehouse - 5,775 24.0 1 Bulky Active Storage 3 Storage & Warehouse - 5,775 24.0 1 Bulky Active Storage 3 Storage & Warehouse - 5,775 24.0 1 Bulky Active Storage 3 Storage & Warehouse - 5,775 24.0 1 Bulky Active Storage 3 Storage & Warehouse - 37,000 24.0 1 Bulky Active Storage 3 Storage & Warehouse - 37,000 24.0 1 Bulky Active Storage 3 Storage & Warehouse - 25,900 24.0 1	Bulky Active Storage 3	Bulky Active Storage 3

Design : 160001 (W)

FAILS

Effective: 160001 (W) Allowance: 105600 (W)

Passing requires Design to be at most 100% of Criteria

6/1/2015 Page 5 of 9

Type: Warehouse

(WEA File: FL_MIAMI_INTL_AP.tm3)

T	iohtino	Controls	Com	nliance
L	ngnung	Controls	Com	Juance

Acronym	Ashrae Description ID	Area (sq.ft)	Design CP	Min Compli- CP ance
Interior	3 Storage & Warehouse - Bulky Active Storage	37,000	4	4 PASSES
Pr0Zo2Sp1	3 Storage & Warehouse - Bulky Active Storage	5,775	3	3 PASSES
Pr0Zo3Sp1	3 Storage & Warehouse - Bulky Active Storage	5,775	1	3 FAILS
Pr0Zo4Sp1	3 Storage & Warehouse - Bulky Active Storage	5,775	1	3 FAILS
Pr0Zo5Sp1	3 Storage & Warehouse - Bulky Active Storage	5,775	1	3 FAILS
Interior	3 Storage & Warehouse - Bulky Active Storage	37,000	4	4 PASSES
Interior	3 Storage & Warehouse - Bulky Active Storage	37,000	4	4 PASSES
Interior	3 Storage & Warehouse - Bulky Active Storage	25,900	3	3 PASSES
		Г	FAI	ILS

Type: Warehouse

(WEA File: FL_MIAMI_INTL_AP.tm3)

Pr0Sy1	System 1	Constant Volume Packaged	No. of Units
		System902	1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 0 to 65000 Btu/h Cooling Capacity	6760	12.20	13.00	12.30		FAILS
Heating System	Heat Pumps Air Cooled (Heating Mode) < 65000 Btu/h Cooling Capacity	11515080	3.40	2.25			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	213242	0.80	0.82			PASSES

Pr0Sy2 System 2 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h	455562	12.20	9.50	12.30	9.60	PASSES
Heating System	Cooling Capacity Heat Pumps Air Cooled (Heating Mode) > 135000	824180	3.40	3.20			PASSES
Air Handling System -Supply	Btu/h Cooling Capacity Air Handler (Supply) - Constant Volume	15263	0.80	0.82			PASSES

Pr0Sy3 System 3 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	492161	12.20	9.50	12.30	9.60	PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity	900090	3.40	3.20			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	16668	0.80	0.82			PASSES

6/1/2015 Page 7 of 9

Pr0Sy4 Sy			ant Volume m902	Packaged	N	lo. of Units 1		
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	415573	12.20	9.50	12.30	9.60	PASSES	
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity	762050	3.40	3.20			PASSES	
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	14112	0.80	0.82			PASSES	
Pr0Sy5 System 5			Constant Volume Packaged System902			No. of Units		
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	487196	12.20	9.50	12.30	9.60	PASSES	
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity	914370	3.40	3.20			PASSES	
Air Handling	Air Handler (Supply) -	16933	0.80	0.82			PASSES	
System -Supply	Constant Volume							
System -Supply	Constant Volume							

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

6/1/2015 Page 8 of 9

Project: Building C1 CZ1 Ware Title: TAM Building C1 Type: Warehouse (WEA File: FL_MIAMI_INTL_AP.tm3) **Water Heater Compliance** Design Min Design Max Comp Description Type Category Eff Eff Loss Loss liance Water Heater 1 <= 75000 Btu/h; **PASSES** Gas Storage water 0.58 0.52 heater >= 20 Gal **PASSES Piping System Compliance** Pipe Dia Is Category Operating Ins Cond Ins Req Ins Compliance [inches] Runout? Temp [Btu-in/hr Thick [in] Thick [in] [F] .SF.F] None Project: Building C1 CZ1 Ware Title: TAM Building C1 Type: Warehouse (WEA File: FL_MIAMI_INTL_AP.tm3) **Other Required Compliance** Category Section Requirement (write N/A in box if not applicable) Check

Project: Building C1 CZ1 Ware

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						
Applications for compliance with the Florida Building Code, Energy Conservation shall include:							
	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						

PROJECT SUMMARY

Short Desc: Building C1 CZ1 Ware Description: TAM Building C1

Owner: Enter Owner's name here

Address1:Enter Address hereCity:Enter city hereAddress2:Enter Address hereState:Enter state here

Zip: 0

Type: Warehouse Class: New Finished building

Jurisdiction: MIAMI, MIAMI-DADE COUNTY, FL (232400)

Conditioned Area: 160000 SF

No of Stories: 1

Conditioned & UnConditioned Area: 160000 SF

Area entered from Plans 160000 SF

Permit No: 0 Max Tonnage 41

If different, write in:

Compliance Summary						
Component	Design	Criteria	Result			
ENVELOPE PRESCRIPTIVE			FAILS			
Additional Effficiency Prescriptive Option			Failed			
LIGHTING POWER	160,001.0	96,000.0	FAILS			
LIGHTING CONTROLS			FAILS			
EXTERNAL LIGHTING			FAILS			
HVAC SYSTEM			FAILS			
PLANT			No Entry			
WATER HEATING SYSTEMS			PASSES			
PIPING SYSTEMS			No Entry			
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

6/1/2015

CERTIFICATIONS

Prepared By:	Building Official:
Date:	Date:
certify that this building is in compliance with the FLor	da Energy Efficiency Code
Owner Agent:	Date:
Owner Agent.	<i>Dute.</i>
	ystem design is in compliance with the Florida Energy
Required by Florida law, I hereby certify (*) that the s	
Required by Florida law, I hereby certify (*) that the s	/stem design is in compliance with the Florida Energy
Required by Florida law, I hereby certify (*) that the s fficiency Code Architect:	ystem design is in compliance with the Florida Energy Reg No:
Required by Florida law, I hereby certify (*) that the s fficiency Code Architect: Electrical Designer:	rystem design is in compliance with the Florida Energy Reg No: Reg No:

6/1/2015

Type: Warehouse

(WEA File: FL_MIAMI_INTL_AP.tm3)

Prescriptive Envelope Compliance

Item	Zone	Description	Design	Criteria Meet Req.
Glass	IntA	Percent glass Max allowed (%)	.000	30.000 Yes
Skylights	IntA	Percent Skylight Max allowed (%)	8.649	3.000 No
Pr0Zo1Rf1	IntA	Exterior Roof UValue Max allowed	.040	0.048 Yes
Pr0Zo1Rf1	IntA	Exterior Roof O value Max anowed Exterior Roof Absorptance (3-year aged) Max	.400	0.450 Yes
TIUZUIKII	IIIIA	allowed	.400	0.430 168
Pr0Zo1Rf1	IntA	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Pr0Zo1Rf1Sk1	Pr0Zo1Rf1	Skylight: SHGC Max allowed	.250	0.350 Yes
Pr0Zo1Rf1Sk1	Pr0Zo1Rf1Sk1	Skylight: UValue Max allowed	1.000	0.750 No
Glass	PerA	Percent glass Max allowed (%)	13.333	30.000 Yes
Pr0Zo2Wa1	PerA	Exterior Wall: UValue Max allowed	.350	0.064 No
Pr0Zo2Wa1Wi1	Pr0Zo2Wa1	Exterior Window: SHGC Max allowed	.500	0.400 No
Pr0Zo2Wa1Wi1	Pr0Zo2Wa1	Exterior Window: UValue Max allowed	.900	0.500 No
Skylights	PerA	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo2Rf1	PerA	Exterior Roof UValue Max allowed	.040	0.048 Yes
Pr0Zo2Rf1	PerA	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450 Yes
Pr0Zo2Rf1	PerA	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	PerB	Percent glass Max allowed (%)	.000	30.000 Yes
Pr0Zo3Wa1	PerB	Exterior Wall: UValue Max allowed	.350	0.064 No
Skylights	PerB	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo3Rf1	PerB	Exterior Roof UValue Max allowed	.040	0.048 Yes
Pr0Zo3Rf1	PerB	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450 Yes
Pr0Zo3Rf1	PerB	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	PerC	Percent glass Max allowed (%)	.000	30.000 Yes
Pr0Zo4Wa1	PerC	Exterior Wall: UValue Max allowed	.350	0.064 No
Skylights	PerC	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo4Rf1	PerC	Exterior Roof UValue Max allowed	.040	0.048 Yes
Pr0Zo4Rf1	PerC	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450 Yes
Pr0Zo4Rf1	PerC	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	PerD	Percent glass Max allowed (%)	.000	30.000 Yes
Pr0Zo5Wa1	PerD	Exterior Wall: UValue Max allowed	.350	0.064 No
Skylights	PerD	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo5Rf1	PerD	Exterior Roof UValue Max allowed	.040	0.048 Yes
Pr0Zo5Rf1	PerD	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450 Yes
Pr0Zo5Rf1	PerD	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	IntB	Percent glass Max allowed (%)	.000	30.000 Yes
Skylights	IntB	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo1Rf1	IntB	Exterior Roof UValue Max allowed	.040	0.048 Yes

Pr0Zo1Rf1	IntB	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450	Yes
Pr0Zo1Rf1	IntB	Exterior Roof Emissivity (3-year aged) Min	.900	0.750	Yes
		Required			
Glass	IntC	Percent glass Max allowed (%)	.000	30.000	Yes
Skylights	IntC	Percent Skylight Max allowed (%)	.000	3.000	Yes
Pr0Zo1Rf1	IntC	Exterior Roof UValue Max allowed	.040	0.048	Yes
Pr0Zo1Rf1	IntC	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450	Yes
Pr0Zo1Rf1	IntC	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750	Yes
Glass	IntD	Percent glass Max allowed (%)	.000	30.000	Yes
Skylights	IntD	Percent Skylight Max allowed (%)	.000	3.000	Yes
Pr0Zo1Rf1	IntD	Exterior Roof UValue Max allowed	.040	0.048	Yes
Pr0Zo1Rf1	IntD	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450	Yes
Pr0Zo1Rf1	IntD	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750	Yes

DOES NOT meet Prescriptive Envelope Requirements -- FAILS

Project: Building C1 CZ1 Ware

Title: TAM Building C1
Type: Warehouse

(WEA File: FL_MIAMI_INTL_AP.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 2 Ext Light 3	Walk way less than 10 feet wide Main entries	Yes Yes	1.00 30.00	400.0	400	224 600	

FAILS

Tradable Surfaces: 824 (W) Allowance for Tradable: 420 (W)

All External Lighting: 824 (W)

Complicance check includes a excess/Base allowance of 20.00(W)

6/1/2015 Page 5 of 10

Type: Warehouse

(WEA File: FL_MIAMI_INTL_AP.tm3)

Space	Ashrae ID	Description	Area (sq.ft)	Height (ft)	No. of Spaces	Design (W)	Effective (W)	Allowance (W)
Interior	3	Storage & Warehouse - Bulky Active Storage	37,000	24.0	1	37000	37000	22,200
Pr0Zo2Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	24.0	1	5775	5775	3,465
Pr0Zo3Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	24.0	1	5776	5776	3,465
Pr0Zo4Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	24.0	1	5775	5775	3,465
Pr0Zo5Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	24.0	1	5775	5775	3,465
Interior	3	Storage & Warehouse - Bulky Active Storage	37,000	24.0	1	37000	37000	22,200
Interior	3	Storage & Warehouse - Bulky Active Storage	37,000	24.0	1	37000	37000	22,200
Interior	3	Storage & Warehouse - Bulky Active Storage	25,900	24.0	1	25900	25900	15,540

Design : 160001 (W)

Effective: 160001 (W) Allowance: 96000 (W)

Passing requires Design to be at most 100% of Criteria

6/1/2015 Page 6 of 10

Type: Warehouse

(WEA File: FL_MIAMI_INTL_AP.tm3)

I	ighting	Controls	Compliance
_	12111112	Controls	Comphance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli- ance
Interior	3	Storage & Warehouse - Bulky Active Storage	37,000	4	4	PASSES
Pr0Zo2Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	3	3	PASSES
Pr0Zo3Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	1	3	FAILS
Pr0Zo4Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	1	3	FAILS
Pr0Zo5Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	1	3	FAILS
Interior	3	Storage & Warehouse - Bulky Active Storage	37,000	4	4	PASSES
Interior	3	Storage & Warehouse - Bulky Active Storage	37,000	4	4	PASSES
Interior	3	Storage & Warehouse - Bulky Active Storage	25,900	3	3	PASSES
			Г	FAI	LS]

6/1/2015 Page 7 of 10

Type: Warehouse

(WEA File: FL_MIAMI_INTL_AP.tm3)

Pr0Sy1	System 1	Constant Volume Packaged	No. of Units
		System902	1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled < 65000 Btu/h Cooling Capacity	6760	12.20	12.23	12.30		FAILS
Heating System	Heat Pumps Air Cooled (Heating Mode) < 65000 Btu/h Cooling Capacity	11515080	3.40	2.25			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	213242	0.80	0.82			PASSES

Pr0Sy2 System 2 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h	455562	12.20	9.50	12.30	9.60	PASSES
Heating System	Cooling Capacity Heat Pumps Air Cooled (Heating Mode) > 135000	824180	3.40	3.20			PASSES
Air Handling System -Supply	Btu/h Cooling Capacity Air Handler (Supply) - Constant Volume	15263	0.80	0.82			PASSES

Pr0Sy3 System 3 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	492161	12.20	9.50	12.30	9.60	PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity	900090	3.40	3.20			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	16668	0.80	0.82			PASSES

6/1/2015 Page 8 of 10

Pr0Sy4 Sy	ystem 4			ant Volume m902	Packaged	ged No. of Units 1			
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance		
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	415573	12.20	9.50	12.30	9.60	PASSES		
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity	762050	3.40	3.20			PASSES		
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	14112	0.80	0.82			PASSES		
	ystem 5		System	ant Volume m902			lo. of Units 1		
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance		
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	487196	12.20	9.50	12.30	9.60	PASSES		
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity	914370	3.40	3.20			PASSES		
Air Handling	Air Handler (Supply) -	16933	0.80	0.82			PASSES		
System -Supply	Constant Volume								
System -Supply	Constant Volume								

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

6/1/2015 Page 9 of 10

Project: Building C1 CZ1 Ware Title: TAM Building C1 Type: Warehouse (WEA File: FL_MIAMI_INTL_AP.tm3) **Water Heater Compliance** Design Min Design Max Comp Description Type Category Eff Eff Loss Loss liance Water Heater 1 <= 75000 Btu/h; **PASSES** Gas Storage water 0.58 0.52 heater >= 20 Gal **PASSES Piping System Compliance** Pipe Dia Is Category Operating Ins Cond Ins Req Ins Compliance [inches] Runout? Temp [Btu-in/hr Thick [in] Thick [in] [F] .SF.F] None Project: Building C1 CZ1 Ware Title: TAM Building C1 Type: Warehouse (WEA File: FL_MIAMI_INTL_AP.tm3) **Other Required Compliance** Category Section Requirement (write N/A in box if not applicable) Check

6/1/2015 Page 10 of 10

Project: Building C1 CZ1 Ware

DOE Based Sizing

PROJECT SUMMARY

Short Desc: Building C1 Description: TAM Building C1

Owner: Enter Owner's name here

Address1:Enter Address hereCity:Enter city hereAddress2:Enter Address hereState:Enter state here

Zip: 0

Type: Warehouse Class: New Finished building

Weather File: FL_MIAMI_INTL_AP.tm3

Conditioned Area: 160000 SF

No of Stories: 1

Conditioned & UnConditioned Area: 160000 SF

Area entered from Plans 160000 SF

Permit No: 0 Max Tonnage 0

If different, write in:

5/31/2015 Page 1 of 3

CERTIFICATIONS

		e authority of jurisdiction
Official:		Prepared By:
Date:		Date:
	required by the authority o	certify that this building is in compliance as rec
		0
Date:		Owner Agent:
		required by law, I hereby certify (*) that the sy
	system design is in comp	required by law, I hereby certify (*) that the sy
red by the authority of	system design is in comp	required by law, I hereby certify (*) that the sy risdiction
red by the authority of Reg No:	system design is in comp	required by law, I hereby certify (*) that the sy risdiction Architect:
red by the authority of Reg No: Reg No:	system design is in comp	required by law, I hereby certify (*) that the sy irisdiction Architect: Electrical Designer:

EnergyGauge Summit® v5.00

DOE 2.1 E Based Sized Parameters (Beta Feature)

<u>IdSystem</u>	System Name	System Type	
1	Pr0Sy1	System 1	
	<u>Component</u>	Sized Value	<u>Units</u>
	Cooling System	6760303	BTU/HR
	Heating System Air Handling System -Supply	1.151508E+07 213242	Btu/h CFM
	, and realist of each of each of each of the each of t		
2	Pr0Sy2	System 2	
	<u>Component</u>	Sized Value	<u>Units</u>
	Cooling System	455562	BTU/HR
	Heating System Air Handling System -Supply	824180 15263	Btu/h CFM
	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		
3	Pr0Sy3	System 3	
	<u>Component</u>	Sized Value	<u>Units</u>
	Cooling System	492161	BTU/HR
	Heating System Air Handling System -Supply	900090 16668	Btu/h CFM
	3 ,,		
4	Pr0Sy4	System 4	
	Component	Sized Value	<u>Units</u>
	Cooling System	415573	BTU/HR
	Heating System Air Handling System -Supply	762050 14112	Btu/h CFM
5	Pr0Sy5	System 5	
	<u>Component</u>	Sized Value	<u>Units</u>
	Cooling System	487196	BTU/HR
	Heating System Air Handling System -Supply	914370 16933	Btu/h CFM
	3 3 3 3 3 3 3 3 3 3 3 4 7 3 3 4 7 3 3 4 7 3 3 4 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
Appli includ	cations 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, compliance 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

PROJECT SUMMARY

Short Desc: Building C1 CZ2 Man **Description:** TAM Building C1

Owner: Enter Owner's name here

Address1:Enter Address hereCity:Enter city hereAddress2:Enter Address hereState:Enter state here

Zip: 0

Type: Manufacturing Facility Class: New Finished building

Jurisdiction: ORLANDO, ORANGE COUNTY, FL (582100)

Conditioned Area:160000 SFConditioned & UnConditioned Area:160000 SFNo of Stories:1Area entered from Plans160000 SFPermit No:0Max Tonnage624

If different, write in:

Complian	ce Summary	Compliance Summary								
Component	Design	Criteria	Result							
Gross Energy Cost (in \$)	118,809.0	110,224.0	FAILED							
LIGHTING CONTROLS			FAILS							
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							

IMPORTANT MESSAGE

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

CERTIFICATIONS

		ereby certify that the plans and specificatior orida Energy Code
Official:		Prepared By:
Date:		Date:
	the FLorida Energy Effic	certify that this building is in compliance with
Date:		Owner Agent:
		Required by Florida law, I hereby certify (*) t
	that the system design is	Required by Florida law, I hereby certify (*) t
with the Florida Energy	that the system design is	Required by Florida law, I hereby certify (*) t
with the Florida Energy Reg No:	that the system design is	Required by Florida law, I hereby certify (*) tfficiency Code Architect:
with the Florida Energy Reg No: Reg No:	that the system design is	Required by Florida law, I hereby certify (*) tifficiency Code Architect: Electrical Designer:

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

Building End Uses

	1) Proposed	2) Baseline
Total	8,031.10	7,714.90
	\$118,809	\$110,224
ELECTRICITY(MBtu/kWh/\$)	7,387.70	6,767.10
	2164647	1982796
	\$115,592	\$105,485
AREA LIGHTS	1,672.30	1,856.20
	489992	543877
	\$26,166	\$28,934
MISC EQUIPMT	1,600.10	1,600.10
·	468840	468840
	\$25,036	\$24,942
PUMPS & MISC	0.50	7.60
	149	2226
	\$8	\$118
SPACE COOL	1,428.00	2,207.30
	418417	646747
	\$22,343	\$34,407
SPACE HEAT	124.70	40.70
	36548	11934
	\$1,952	\$635
VENT FANS	2,562.10	1,055.20
	750701	309172
	\$40,087	\$16,448
NATURAL-GAS(MBtu/therm/\$)	643.40	947.80
	6434	9478
	\$3,217	\$4,739
SPACE HEAT	643.40	947.80
	6434	9478
	\$3,217	\$4,739

Credits Applied: None Passing Criteria = 110224

FAILS

Design (including any credits) = 118809

Passing requires Proposed Building cost to be at most 100% of

Baseline cost. This Proposed Building is at 107.8%

Project: Building C1 CZ2 Man Title: TAM Building C1 Type: Manufacturing Facility (WEA File: Orlando.TMY)

Description

External Lighting Compliance Tradable? Allowance Area or Length ELPA

		Satisfaction of the satisf		(W/Unit)	or No. of Units (Sqft or ft)	(W)	(W)
ı	Ext Light 2	Walk way less than 10 feet wide	Yes	1.00	400.0	400	224
ı	Ext Light 3	Main entries	Yes	30.00			600

Tradable Surfaces: 824 (W) Allowance for Tradable: 420 (W)

Category

FAILS

CLP

All External Lighting: 824 (W)

Complicance check includes a excess/Base allowance of 20.00(W)

Project: Building C1 CZ2 Man Title: TAM Building C1 Type: Manufacturing Facility (WEA File: Orlando.TMY)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli- ance
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Pr0Zo2Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	3	3	PASSES
Pr0Zo3Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Pr0Zo4Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Pr0Zo5Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	25,900	3	3	PASSES

6/1/2015 Page 5 of 8

Project: Building C1 CZ2 Man
Title: TAM Building C1
Type: Manufacturing Facility
(WEA File: Orlando.TMY)

System -Supply

Pr0Sy3

Constant Volume

System 3

(WEA File: Orla	ndo.TMY)						
	Syster	n Report (Compli	ance			
Pr0Sy1	System 1			tant Volume m902	Packaged	N	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	7487544	12.20	9.50	12.30	9.60	PASSES
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	13107540	90.00	80.00			PASSES
Air Handling	Air Handler (Supply) -	242732	0.80	0.82			PASSES
System -Supply	Constant Volume						
Pr0Sy2	System 2			tant Volume m902	Packaged	N	No. of Units 1
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	499642	12.20	9.80	12.30	9.90	PASSES
Heating System	S 1 2	934050	90.00	80.00			PASSES
Air Handling	Air Handler (Supply) -	17297	0.80	0.82			PASSES

Component Cooling System	System902							
	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	515018	12.20	9.80	12.30	9.90	PASSES	
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	966500	90.00	80.00			PASSES	
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	17898	0.80	0.82			PASSES	

Constant Volume Packaged

No. of Units

6/1/2015 Page 6 of 8

Pr0Sy4 Sy			Constant Volume Packaged System902			No. of Units 1		
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	460540	12.20	9.80	12.30	9.90	PASSES	
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	854520	90.00	80.00			PASSES	
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	15824	0.80	0.82			PASSES	
Pr0Sy5 Sy	stem 5		Const	ant Volume	Packaged	N	Io. of Units	
		Capacity	Syste	ant Volume m902 Eff		IPLV	1	
Pr0Sy5 Sy Component	Stem 5 Category	Capacity		m902	Packaged Design IPLV			
	Category Air Conditioners Air Cooled 240000 to 760000 Btu/h	Capacity 530705	System Design	m902 Eff	Design	IPLV	Comp-	
Component	Category Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Warm Air Gas Furnace >=		Syster Design Eff	m902 Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
Component Cooling System Heating System Air Handling	Category Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	530705	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance PASSES	
Component Cooling System Heating System	Category Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Warm Air Gas Furnace >= 225000 Btu/h	530705 987430	Design Eff 12.20 90.00	Eff Criteria 9.80 80.00	Design IPLV	IPLV Criteria	Compliance PASSES PASSES	
Component Cooling System Heating System Air Handling	Category Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Warm Air Gas Furnace >= 225000 Btu/h Air Handler (Supply) -	530705 987430	Design Eff 12.20 90.00	Eff Criteria 9.80 80.00	Design IPLV	IPLV Criteria	Compliance PASSES PASSES	

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

6/1/2015 Page 7 of 8

		Water Heater Compl	iance			
Description	Туре	Category	Design Eff	Min Eff	Design Loss	Max Comp Loss liance
Water Heater 1	Gas Storage water heater	>75000 & <=155000 Btu/h; < 4000 (Btu/h)/gal	84.00	0.80		1,080.1 PASSES
						PASSES
		Piping System	ı Compli	ance		
Category		Pipe Dia Is Opera [inches] Runout? Tem [F]	p [Btu-i	n/hr T	Ins hick [in]	Req Ins Complia
						None
Гitle: TAM Buildin Гуре: Manufacturii	g C1 ng Facility					None
Project: Building C Fitle: TAM Buildin Type: Manufacturii WEA File: Orland	g C1 ng Facility	Other Required (Complia	nce		None

6/1/2015

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 includ	cations 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

PROJECT SUMMARY

Short Desc: Building C1 CZ2 Man **Description:** TAM Building C1

Owner: Enter Owner's name here

Address1:Enter Address hereCity:Enter city hereAddress2:Enter Address hereState:Enter state here

Zip: 0

Type: Manufacturing Facility Class: New Finished building

Jurisdiction: ORLANDO, ORANGE COUNTY, FL (582100)

Conditioned Area:160000 SFConditioned & UnConditioned Area:160000 SFNo of Stories:1Area entered from Plans160000 SFPermit No:0Max Tonnage624

If different, write in:

Compliance Summary								
Component	Design	Criteria	Result					
Gross Energy Cost (in \$)	118,159.0	99,192.0	FAILED					
			7.17 0					
LIGHTING CONTROLS			FAILS					
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					

IMPORTANT MESSAGE

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

6/1/2015

CERTIFICATIONS

	ed by this calculation are in compliance	nereby certify that the plans and specifications cover lorida Energy Code
:	Building Official:	Prepared By:
::	Date:	Date:
	rida Energy Efficiency Code	certify that this building is in compliance with the FLo
::	Date:	Owner Agent:
he Florida Energy	system design is in compliance with the	
he Florida Energy o:		
	Reg No:	efficiency Code
:	Reg No:	Efficiency Code Architect:
x:	Reg No: Reg No: Reg No:	Electrical Designer:

6/1/2015

Building End Uses

	1) Proposed	2) Baseline
Total	8,011.90	8,034.70
	\$118,159	\$116,697
ELECTRICITY(MBtu/kWh/\$)	7,335.70	7,227.60
	2149406	2117697
	\$114,778	\$112,661
AREA LIGHTS	1,672.30	2,174.10
	489992	637010
	\$26,166	\$33,889
MISC EQUIPMT	1,600.10	1,600.10
	468840	468840
	\$25,036	\$24,942
PUMPS & MISC	0.50	6.50
	149	1909
	\$8	\$102
SPACE COOL	1,394.30	2,292.70
	408542	671770
	\$21,816	\$35,738
SPACE HEAT	135.80	36.30
	39797	10623
	\$2,125	\$565
VENT FANS	2,532.70	1,117.90
	742086	327545
	\$39,627	\$17,425
NATURAL-GAS(MBtu/therm/\$)	676.20	807.10
	6762	8071
	\$3,381	\$4,036
SPACE HEAT	676.20	807.10
	6762	8071
	<i>\$3,381</i>	\$4,036

Credits Applied: None Passing Criteria = 99192

FAILS

Design (including any credits) = 118159

Passing requires Proposed Building cost to be at most 85% of

Baseline cost. This Proposed Building is at 101.3%

Project: Building C1 CZ2 Man Title: TAM Building C1 Type: Manufacturing Facility (WEA File: Orlando.TMY)

External Lighting Compliance

Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units	ELPA (W)	CLP (W)
Ext Light 2	Walk way less than 10 feet wide	Yes	1.00	(Sqft or ft)	400	22 ⁴
Ext Light 3	Main entries	Yes	30.00	400.0		600

Tradable Surfaces: 824 (W) Allowance for Tradable: 420 (W)

FAILS

All External Lighting: 824 (W)

Complicance check includes a excess/Base allowance of 20.00(W)

Project: Building C1 CZ2 Man Title: TAM Building C1 Type: Manufacturing Facility (WEA File: Orlando.TMY)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli- ance
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Pr0Zo2Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	3	3	PASSES
Pr0Zo3Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Pr0Zo4Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Pr0Zo5Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	25,900	3	3	PASSES

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Project: Building C1 CZ2 Man
Title: TAM Building C1
Type: Manufacturing Facility
(WEA File: Orlando.TMY)

	Systen	n Report (Compli	ance				
Pr0Sy1	Constant Volume Packaged No. of System902							
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
Cooling System	Air Conditioners Air Cooled > 760000 Btu/h Cooling Capacity	7487544	12.20	9.70	12.30	9.80	PASSES	
Heating System		13107540	90.00	80.00			PASSES	
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	242732	0.80	0.82			PASSES	
Pr0Sy2 System 2				ant Volume m902	Packaged	No. of Units		
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	499642	12.20	10.00	12.30	10.10	PASSES	
Heating System		934050	90.00	80.00			PASSES	
Air Handling System -Supply	Air Handler (Supply) -	17297	0.80	0.82			PASSES	
Pr0Sy3 System 3			Constant Volume Packaged System902		No. of Units			
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	515018	12.20	10.00	12.30	10.10	PASSES	
Heating System		966500	90.00	80.00			PASSES	
Air Handling System -Supply	Air Handler (Supply) -	17898	0.80	0.82			PASSES	

6/1/2015 Page 6 of 8

Pr0Sy4 Sy		Const System	Packaged	ged No. of Units 1			
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	460540	12.20	10.00	12.30	10.10	PASSES
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	854520	90.00	80.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	15824	0.80	0.82			PASSES
Pr0Sy5 Sy Component	Category	Capacity		eant Volume m902 Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h	530705	12.20	10.00	12.30	10.10	PASSES
Hastina Castana	Cooling Capacity Warm Air Gas Furnace >=	987430	90.00	80.00			PASSES
Heating System							
Air Handling System -Supply	225000 Btu/h Air Handler (Supply) - Constant Volume	18286	0.80	0.82			PASSES
Air Handling	225000 Btu/h Air Handler (Supply) -	18286	0.80	0.82			PASSES

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

6/1/2015 Page 7 of 8

		Water Heater Compl	iance			
Description	Туре	Category	Design Eff	Min Eff	Design Loss	Max Comp Loss liance
Water Heater 1	Gas Storage water heater	>75000 & <=155000 Btu/h; < 4000 (Btu/h)/gal	84.00	0.80		1,080.1 PASSES
						PASSES
		Piping System	ı Compli	ance		
Category		Pipe Dia Is Opera [inches] Runout? Tem [F]	p [Btu-i	n/hr T	Ins hick [in]	Req Ins Complia
						None
Гitle: TAM Buildin Гуре: Manufacturii	g C1 ng Facility					None
Project: Building C Fitle: TAM Buildin Type: Manufacturii WEA File: Orland	g C1 ng Facility	Other Required (Complia	nce		None

6/1/2015

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
Appli includ	cations 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

PROJECT SUMMARY

Short Desc: Building C1 CZ2 Man **Description:** TAM Building C1

Owner: Enter Owner's name here

Address1:Enter Address hereCity:Enter city hereAddress2:Enter Address hereState:Enter state here

Zip: 0

Type: Manufacturing Facility Class: New Finished building

Jurisdiction: ORLANDO, ORANGE COUNTY, FL (582100)

Conditioned Area:160000 SFConditioned & UnConditioned Area:160000 SFNo of Stories:1Area entered from Plans160000 SFPermit No:0Max Tonnage624

If different, write in:

Compliance Summary					
Component	Design	Criteria	Result		
ENVELOPE PRESCRIPTIVE			FAILS		
LIGHTING POWER	160,001.0	177,600.0	PASSES		
LIGHTING CONTROLS			FAILS		
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		

IMPORTANT MESSAGE

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

CERTIFICATIONS

Prepared By:	Building Official:
Date:	Date:
certify that this building is in compliance with the FLor	da Energy Efficiency Code
Owner Agent:	Date:
Owner Agent.	<i>Dute.</i>
	ystem design is in compliance with the Florida Energy
Required by Florida law, I hereby certify (*) that the s	
Required by Florida law, I hereby certify (*) that the s	/stem design is in compliance with the Florida Energy
Required by Florida law, I hereby certify (*) that the s fficiency Code Architect:	ystem design is in compliance with the Florida Energy Reg No:
Required by Florida law, I hereby certify (*) that the s fficiency Code Architect: Electrical Designer:	rystem design is in compliance with the Florida Energy Reg No: Reg No:

6/1/2015

Prescriptive Envelope Compliance

Item	Zone	Description	Design	Criteria Meet Req.
Glass	Building C1 CZ2	East glass area must be less than or equal to	.000	1,280.000 Yes
		South glass area		
Glass	Building C1 CZ2	West glass area must be less than or equal to South glass area	.000	1,280.000 Yes
Glass	IntA	Percent glass Max allowed (%)	.000	40.000 Yes
Skylights	IntA	Percent Skylight Max allowed (%)	8.649	5.000 No
Pr0Zo1Rf1	IntA	Exterior Roof UValue Max allowed	.040	0.048 Yes
Pr0Zo1Rf1Sk1	Pr0Zo1Rf1	Skylight: SHGC Max allowed	.250	0.190 No
Pr0Zo1Rf1Sk1	Pr0Zo1Rf1Sk1	Skylight: UValue Max allowed	1.000	1.360 Yes
Glass	PerA	Percent glass Max allowed (%)	13.333	40.000 Yes
Pr0Zo2Wa1	PerA	Exterior Wall: UValue Max allowed	.350	0.089 No
Pr0Zo2Wa1Wi1	Pr0Zo2Wa1	Exterior Window: SHGC Max allowed	.176	0.250 Yes
Pr0Zo2Wa1Wi1	Pr0Zo2Wa1	Exterior Window: UValue Max allowed	.600	0.750 Yes
Skylights	PerA	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo2Rf1	PerA	Exterior Roof UValue Max allowed	.040	0.048 Yes
Glass	PerB	Percent glass Max allowed (%)	.000	40.000 Yes
Pr0Zo3Wa1	PerB	Exterior Wall: UValue Max allowed	.350	0.089 No
Skylights	PerB	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo3Rf1	PerB	Exterior Roof UValue Max allowed	.040	0.048 Yes
Glass	PerC	Percent glass Max allowed (%)	.000	40.000 Yes
Pr0Zo4Wa1	PerC	Exterior Wall: UValue Max allowed	.350	0.089 No
Skylights	PerC	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo4Rf1	PerC	Exterior Roof UValue Max allowed	.040	0.048 Yes
Glass	PerD	Percent glass Max allowed (%)	.000	40.000 Yes
Pr0Zo5Wa1	PerD	Exterior Wall: UValue Max allowed	.350	0.089 No
Skylights	PerD	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo5Rf1	PerD	Exterior Roof UValue Max allowed	.040	0.048 Yes
Glass	IntB	Percent glass Max allowed (%)	.000	40.000 Yes
Skylights	IntB	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo1Rf1	IntB	Exterior Roof UValue Max allowed	.040	0.048 Yes
Glass	IntC	Percent glass Max allowed (%)	.000	40.000 Yes
Skylights	IntC	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo1Rf1	IntC	Exterior Roof UValue Max allowed	.040	0.048 Yes
Glass	IntD	Percent glass Max allowed (%)	.000	40.000 Yes
Skylights	IntD	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo1Rf1	IntD	Exterior Roof UValue Max allowed	.040	0.048 Yes

DOES NOT meet Prescriptive Envelope Requirements -- FAILS

6/1/2015 Page 4 of 10

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 2 Ext Light 3	Walk way less than 10 feet wide Main entries	Yes Yes	1.00 30.00	400.0	400	224 600	

Tradable Surfaces: 824 (W) Allowance for Tradable: 420 (W)

FAILS

All External Lighting: 824 (W)

Complicance check includes a excess/Base allowance of 20.00(W)

6/1/2015 Page 5 of 10

Space	Ashrae ID	Description	Area (sq.ft)	Height (ft)	No. of Spaces	Design (W)	Effective (W)	Allowance (W)
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling	37,000	24.0	1	37000	37000	41,070
Pr0Zo2Sp1	13,001	floor-to-ceiling	5,775	24.0	1	5775	5775	6,410
Pr0Zo3Sp1	13,001	(Manufacturing) General Low Bay < 25 ft floor-to-ceiling	5,775	24.0	1	5776	5776	6,410
Pr0Zo4Sp1	13,001	(Manufacturing) General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	24.0	1	5775	5775	6,410
Pr0Zo5Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	24.0	1	5775	5775	6,410
Interior	13,001	· •	37,000	24.0	1	37000	37000	41,070
Interior	13,001	•	37,000	24.0	1	37000	37000	41,070
Interior	13,001	·	25,900	24.0	1	25900	25900	28,749
Design : Effective:		60001 (W) 60001 (W)					PASSI	ES

Effective: 160001 (W)
Allowance: 177600 (W)

Passing requires Design to be at most 100% of Criteria

6/1/2015 Page 6 of 10

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli- ance
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Pr0Zo2Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	3	3	PASSES
Pr0Zo3Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Pr0Zo4Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Pr0Zo5Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	25,900	3	3	PASSES

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System Report Compliance

Pr0Sy1	System 1	Constant Volume Packaged	No. of Units
		System902	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	7487544	12.20	9.50	12.30	9.60	PASSES
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	13107540	90.00	80.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	242732	0.80	0.82			PASSES

Pr0Sy2 System 2 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	499642	12.20	9.80	12.30	9.90	PASSES
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	934050	90.00	80.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	17297	0.80	0.82			PASSES

Pr0Sy3 System 3 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	515018	12.20	9.80	12.30	9.90	PASSES
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	966500	90.00	80.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	17898	0.80	0.82			PASSES

6/1/2015 Page 8 of 10

Pr0Sy4 System 4				ant Volume m902	Packaged	N	No. of Units 1		
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance		
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	460540	12.20	9.80	12.30	9.90	PASSES		
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	854520	90.00	80.00			PASSES		
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	15824	0.80	0.82			PASSES		
Pr0Sy5 Sy	stem 5		Const	ant Volume	Packaged	N	Io. of Units		
		Capacity	Syste	ant Volume m902 Eff		IPLV	1		
Pr0Sy5 Sy Component	Stem 5 Category	Capacity		m902	Packaged Design IPLV				
	Category Air Conditioners Air Cooled 240000 to 760000 Btu/h	Capacity 530705	System Design	m902 Eff	Design	IPLV	Comp-		
Component	Category Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Warm Air Gas Furnace >=		Syster Design Eff	m902 Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance		
Component Cooling System Heating System Air Handling	Category Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	530705	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance PASSES		
Component Cooling System Heating System	Category Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Warm Air Gas Furnace >= 225000 Btu/h	530705 987430	Design Eff 12.20 90.00	Eff Criteria 9.80 80.00	Design IPLV	IPLV Criteria	Compliance PASSES PASSES		
Component Cooling System Heating System Air Handling	Category Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Warm Air Gas Furnace >= 225000 Btu/h Air Handler (Supply) -	530705 987430	Design Eff 12.20 90.00	Eff Criteria 9.80 80.00	Design IPLV	IPLV Criteria	Compliance PASSES PASSES		

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

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		Water Heater Compl	liance				
Description	Туре	Category	Design Eff	Min Eff	Design Loss	Max Comp Loss liance	
Water Heater 1	Gas Storage water heater	>75000 & <=155000 Btu/h; < 4000 (Btu/h)/gal	84.00	0.80		1,080.1 PASSES	5
						PASSES	S
		Piping System	ı Compli	iance			
Category		Pipe Dia Is Opera [inches] Runout? Tem [F]	p [Btu-i	n/hr T	Ins Thick [in]	-	mplian
						None	
Title: TAM Building Type: Manufacturin	g C1 ng Facility					None	
Project: Building C Fitle: TAM Building Type: Manufacturin WEA File: Orlando	g C1 ng Facility	Other Required (Complia	nce		None	

6/1/2015 Page 10 of 10

Project: Building C1 CZ2 Man

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
Appli includ	cations 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

PROJECT SUMMARY

Short Desc: Building C1 CZ2 Man **Description:** TAM Building C1

Owner: Enter Owner's name here

Address1:Enter Address hereCity:Enter city hereAddress2:Enter Address hereState:Enter state here

Zip: 0

Type: Manufacturing Facility Class: New Finished building

Jurisdiction: ORLANDO, ORANGE COUNTY, FL (582100)

Conditioned Area:160000 SFConditioned & UnConditioned Area:160000 SFNo of Stories:1Area entered from Plans160000 SFPermit No:0Max Tonnage624

If different, write in:

Compliance Summary								
Component	Design	Criteria	Result					
ENVELOPE PRESCRIPTIVE			FAILS					
Additional Effficiency Prescriptive Option			Failed					
LIGHTING POWER	160,001.0	208,000.0	PASSES					
LIGHTING CONTROLS			FAILS					
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					

IMPORTANT MESSAGE

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

6/1/2015

CERTIFICATIONS

Prepared By:	Building Official:
Date:	Date:
certify that this building is in compliance with the FLor	da Energy Efficiency Code
Owner Agent:	Date:
Owner Agent.	<i>Dute.</i>
	ystem design is in compliance with the Florida Energy
Required by Florida law, I hereby certify (*) that the s	
Required by Florida law, I hereby certify (*) that the s	/stem design is in compliance with the Florida Energy
Required by Florida law, I hereby certify (*) that the s fficiency Code Architect:	ystem design is in compliance with the Florida Energy Reg No:
Required by Florida law, I hereby certify (*) that the s fficiency Code Architect: Electrical Designer:	rystem design is in compliance with the Florida Energy Reg No: Reg No:

6/1/2015

Prescriptive Envelope Compliance

Item	Zone	Description	Design	Criteria Meet Req.
Glass	IntA	Percent glass Max allowed (%)	.000	30.000 Yes
Skylights	IntA	Percent Skylight Max allowed (%)	8.649	3.000 No
Pr0Zo1Rf1	IntA	Exterior Roof UValue Max allowed	.040	0.048 Yes
Pr0Zo1Rf1	IntA	Exterior Roof Absorptance (3-year aged) Max	.400	0.450 Yes
TIOZOTKIT	IIItA	allowed	.400	0.430 168
Pr0Zo1Rf1	IntA	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Pr0Zo1Rf1Sk1	Pr0Zo1Rf1	Skylight: SHGC Max allowed	.250	0.350 Yes
Pr0Zo1Rf1Sk1	Pr0Zo1Rf1Sk1	Skylight: UValue Max allowed	1.000	0.650 No
Glass	PerA	Percent glass Max allowed (%)	13.333	30.000 Yes
Pr0Zo2Wa1	PerA	Exterior Wall: UValue Max allowed	.350	0.064 No
Pr0Zo2Wa1Wi1	Pr0Zo2Wa1	Exterior Window: SHGC Max allowed	.400	0.400 Yes
Pr0Zo2Wa1Wi1	Pr0Zo2Wa1	Exterior Window: UValue Max allowed	.600	0.500 No
Skylights	PerA	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo2Rf1	PerA	Exterior Roof UValue Max allowed	.040	0.048 Yes
Pr0Zo2Rf1	PerA	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450 Yes
Pr0Zo2Rf1	PerA	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	PerB	Percent glass Max allowed (%)	.000	30.000 Yes
Pr0Zo3Wa1	PerB	Exterior Wall: UValue Max allowed	.350	0.064 No
Skylights	PerB	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo3Rf1	PerB	Exterior Roof UValue Max allowed	.040	0.048 Yes
Pr0Zo3Rf1	PerB	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450 Yes
Pr0Zo3Rf1	PerB	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	PerC	Percent glass Max allowed (%)	.000	30.000 Yes
Pr0Zo4Wa1	PerC	Exterior Wall: UValue Max allowed	.350	0.064 No
Skylights	PerC	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo4Rf1	PerC	Exterior Roof UValue Max allowed	.040	0.048 Yes
Pr0Zo4Rf1	PerC	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450 Yes
Pr0Zo4Rf1	PerC	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	PerD	Percent glass Max allowed (%)	.000	30.000 Yes
Pr0Zo5Wa1	PerD	Exterior Wall: UValue Max allowed	.350	0.064 No
Skylights	PerD	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo5Rf1	PerD	Exterior Roof UValue Max allowed	.040	0.048 Yes
Pr0Zo5Rf1	PerD	Exterior Roof Absorptance (3-year aged) Max	.400	0.450 Yes
	-	allowed		
Pr0Zo5Rf1	PerD	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	IntB	Percent glass Max allowed (%)	.000	30.000 Yes
Skylights	IntB	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo1Rf1	IntB	Exterior Roof UValue Max allowed	.040	0.048 Yes

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Pr0Zo1Rf1	IntB	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450	Yes
Pr0Zo1Rf1	IntB	Exterior Roof Emissivity (3-year aged) Min	.900	0.750	Yes
Class	LuC	Required	000	20.000	37
Glass	IntC	Percent glass Max allowed (%)	.000	30.000	
Skylights	IntC	Percent Skylight Max allowed (%)	.000	3.000	Yes
Pr0Zo1Rf1	IntC	Exterior Roof UValue Max allowed	.040	0.048	Yes
Pr0Zo1Rf1	IntC	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450	Yes
Pr0Zo1Rf1	IntC	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750	Yes
Glass	IntD	Percent glass Max allowed (%)	.000	30.000	Yes
Skylights	IntD	Percent Skylight Max allowed (%)	.000	3.000	Yes
Pr0Zo1Rf1	IntD	Exterior Roof UValue Max allowed	.040	0.048	Yes
Pr0Zo1Rf1	IntD	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450	Yes
Pr0Zo1Rf1	IntD	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750	Yes

DOES NOT meet Prescriptive Envelope Requirements -- FAILS

Project: Building C1 CZ2 Man Title: TAM Building C1 Type: Manufacturing Facility (WEA File: Orlando.TMY)

	External Li	ghting C	omplianc	e		
Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 2	Walk way less than 10 feet wide	Yes	1.00	400.0	400	224
Ext Light 3	Main entries	Yes	30.00			600

FAILS

Tradable Surfaces: 824 (W) Allowance for Tradable: 420 (W)

All External Lighting: 824 (W)

Complicance check includes a excess/Base allowance of 20.00(W)

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Project: Building C1 CZ2 Man Title: TAM Building C1 Type: Manufacturing Facility (WEA File: Orlando.TMY)

Space	Ashrae ID	Description	Area (sq.ft)	Height (ft)	No. of Spaces	Design (W)	Effective (W)	Allowance (W)
					-			
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	24.0	1	37000	37000	48,100
Pr0Zo2Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling	5,775	24.0	1	5775	5775	7,508
Pr0Zo3Sp1	13,001	(Manufacturing) General Low Bay < 25 ft floor-to-ceiling	5,775	24.0	1	5776	5776	7,508
Pr0Zo4Sp1	13,001	floor-to-ceiling	5,775	24.0	1	5775	5775	7,508
Pr0Zo5Sp1	13,001	(Manufacturing) General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	24.0	1	5775	5775	7,508
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling	37,000	24.0	1	37000	37000	48,100
Interior	13,001	(Manufacturing) General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	24.0	1	37000	37000	48,100
Interior	13,001	•	25,900	24.0	1	25900	25900	33,670
Design : Effective:		60001 (W) 60001 (W)					PASSI	ES

Effective: 160001 (W) Allowance: 208000 (W)

Passing requires Design to be at most 100% of Criteria

6/1/2015 Page 6 of 10

Project: Building C1 CZ2 Man Title: TAM Building C1 Type: Manufacturing Facility (WEA File: Orlando.TMY)

Lighting	Controls	Compliance
	Commons	Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli- ance
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Pr0Zo2Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	3	3	PASSES
Pr0Zo3Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Pr0Zo4Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Pr0Zo5Sp1	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	5,775	1	3	FAILS
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	37,000	4	4	PASSES
Interior	13,001	General Low Bay < 25 ft floor-to-ceiling (Manufacturing)	25,900	3	3	PASSES

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Project: Building C1 CZ2 Man Title: TAM Building C1 Type: Manufacturing Facility (WEA File: Orlando.TMY)

System Report Compliance

Pr0Sy1	System 1	Constant Volume Packaged	No. of Units
		System902	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	7487544	12.20	9.70	12.30	9.80	PASSES
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	13107540	90.00	80.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	242732	0.80	0.82			PASSES

Pr0Sy2 System 2 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	499642	12.20	10.00	12.30	10.10	PASSES
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	934050	90.00	80.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	17297	0.80	0.82			PASSES

Pr0Sy3 System 3 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	515018	12.20	10.00	12.30	10.10	PASSES
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	966500	90.00	80.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	17898	0.80	0.82			PASSES

6/1/2015 Page 8 of 10

Pr0Sy4 Sy	stem 4			ant Volume n902	Packaged	No. of Units 1		
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	460540	12.20	10.00	12.30	10.10	PASSES	
Heating System	Warm Air Gas Furnace >= 225000 Btu/h	854520	90.00	80.00			PASSES	
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	15824	0.80	0.82			PASSES	
	stem 5		Const	ant Volume	Packaged	N	o. of Units	
		Capacity		ant Volume n902 Eff	Packaged Design	IPLV	o. of Units 1 Comp-	
Pr0Sy5 Sy	stem 5	Capacity	Syster	n902			1	
Pr0Sy5 Sy	Category Air Conditioners Air Cooled 240000 to 760000 Btu/h	Capacity 530705	System Design	n902 Eff	Design	IPLV	Comp-	
Pr0Sy5 Sy Component	Category Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Warm Air Gas Furnace >=		Syster Design Eff	n902 Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
Pr0Sy5 Sy Component Cooling System	Category Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	530705	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance PASSES	
Pr0Sy5 Sy Component Cooling System Heating System	Category Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Warm Air Gas Furnace >= 225000 Btu/h	530705 987430	Design Eff 12.20 90.00	Eff Criteria 10.00 80.00	Design IPLV	IPLV Criteria	Compliance PASSES PASSES	
Pr0Sy5 Sy Component Cooling System Heating System Air Handling	Category Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Warm Air Gas Furnace >= 225000 Btu/h Air Handler (Supply) -	530705 987430	Design Eff 12.20 90.00	Eff Criteria 10.00 80.00	Design IPLV	IPLV Criteria	Compliance PASSES PASSES	

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

6/1/2015 Page 9 of 10

		Water Heater Compl	liance				
Description	Туре	Category	Design Eff	Min Eff	Design Loss	Max Comp Loss liance	
Water Heater 1	Gas Storage water heater	>75000 & <=155000 Btu/h; < 4000 (Btu/h)/gal	84.00	0.80		1,080.1 PASSES	5
						PASSES	S
		Piping System	ı Compli	iance			
Category		Pipe Dia Is Opera [inches] Runout? Tem [F]	p [Btu-i	n/hr T	Ins Thick [in]	-	mplian
						None	
Title: TAM Building Type: Manufacturin	g C1 ng Facility					None	
Project: Building C Fitle: TAM Building Type: Manufacturin WEA File: Orlando	g C1 ng Facility	Other Required (Complia	nce		None	

6/1/2015 Page 10 of 10

Project: Building C1 CZ2 Man

DOE Based Sizing

PROJECT SUMMARY

Short Desc: Building C1 Description: TAM Building C1

Owner: Enter Owner's name here

Address1:Enter Address hereCity:Enter city hereAddress2:Enter Address hereState:Enter state here

Zip: 0

Type: Manufacturing Facility Class: New Finished building

Weather File: FL_ORLANDO_INTL_ARPT.tm3

Conditioned Area: 160000 SF

No of Stories: 1

Conditioned & UnConditioned Area: 160000 SF

Area entered from Plans 160000 SF

Permit No: 0 Max Tonnage 0

If different, write in:

5/30/2015 Page 1 of 3

CERTIFICATIONS

		authority of jurisdiction
	Building Official:	Prepared By:
	Date:	Date:
	quired by the authority of jurisdiction	rtify that this building is in compliance as required by the a
	Date:	Owner Agent:
	stem design is in compliance as required by the au	equired by law, I hereby certify (*) that the system design is ediction
ne authority of	Reg No:	sdiction
ne authority of	Reg No: Reg No:	Architect:
ne authority of	Reg No: Reg No: Reg No: Reg No:	Architect: Electrical Designer:

5/30/2015 Page 2 of 3

DOE 2.1 E Based Sized Parameters (Beta Feature)

<u>IdSystem</u>	System Name	System Type	
1	Pr0Sy1	System 1	
	<u>Component</u>	Sized Value	<u>Units</u>
	Cooling System	7487544	BTU/HR
	Heating System Air Handling System -Supply	1.310754E+07 242732	Btu/h CFM
	All Hariding dystem -dupply	242132	OI IVI
2	Pr0Sy2	System 2	
	Component	Sized Value	<u>Units</u>
	Cooling System	499642	BTU/HR
	Heating System Air Handling System -Supply	934050 17297	Btu/h CFM
	, in traineming dyelen. Cappy		·
3	Pr0Sy3	System 3	
	<u>Component</u>	Sized Value	<u>Units</u>
	Cooling System	515018	BTU/HR
	Heating System Air Handling System -Supply	966500 17898	Btu/h CFM
	7 th Harland Gystem Gappiy	17000	OI W
4	Pr0Sy4	System 4	
	Component	Sized Value	<u>Units</u>
	Cooling System	460540	BTU/HR
	Heating System Air Handling System -Supply	854520 15824	Btu/h CFM
	, iii Tidiidiiiig Cyotoiii Gappiy	10021	OI IVI
5	Pr0Sy5	System 5	
	Component	Sized Value	<u>Units</u>
	Cooling System	530705	BTU/HR
	Heating System Air Handling System -Supply	987430 18286	Btu/h CFM
	, an internaling cystem -ouppry	10200	OI IVI

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
Appli includ	cations 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, compliance 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

PROJECT SUMMARY

Short Desc: Building C1 CZ2 Ware Description: TAM Building C1

Owner: Enter Owner's name here

Address1:Enter Address hereCity:Enter city hereAddress2:Enter Address hereState:Enter state here

Zip: 0

Type: Warehouse Class: New Finished building

Jurisdiction: ORLANDO, ORANGE COUNTY, FL (582100)

Conditioned Area:160000 SFConditioned & UnConditioned Area:160000 SFNo of Stories:1Area entered from Plans160000 SFPermit No:0Max Tonnage600

If different, write in:

Compliance Summary							
Component	Design	Criteria	Result				
Gross Energy Cost (in \$)	100,732.0	76,402.0	FAILED				
LIGHTING CONTROLS			FAILS				
EXTERNAL LIGHTING			FAILS				
HVAC SYSTEM			FAILS				
PLANT			No Entry				
WATER HEATING SYSTEMS			PASSES				
PIPING SYSTEMS			No Entry				
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

		ereby certify that the plans and specificatior orida Energy Code
Official:		Prepared By:
Date:		Date:
	the FLorida Energy Effic	certify that this building is in compliance with
Date:		Owner Agent:
		Required by Florida law, I hereby certify (*) t
	that the system design is	Required by Florida law, I hereby certify (*) t
with the Florida Energy	that the system design is	Required by Florida law, I hereby certify (*) t
with the Florida Energy Reg No:	that the system design is	Required by Florida law, I hereby certify (*) tfficiency Code Architect:
with the Florida Energy Reg No: Reg No:	that the system design is	Required by Florida law, I hereby certify (*) tifficiency Code Architect: Electrical Designer:

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

Type: Warehouse

(WEA File: FL_ORLANDO_INTL_ARPT.tm3)

Building End Uses

	1) Proposed	2) Baseline
	6,378.40	4,883.20
	\$100,732	\$76,402
LECTRICITY(MBtu/kWh/\$)	6,378.40	4,883.20
	1868876	1430746
	\$100,732	\$76,402
AREA LIGHTS	1,672.30	1,103.80
	489992	323404
	\$26,411	\$17,270
MISC EQUIPMT	320.00	320.00
·	93763	93763
	\$5,054	\$5,007
PUMPS & MISC	0.30	0.30
	75	78
	\$4	\$4
SPACE COOL	1,509.40	1,994.40
	442258	584348
	\$23,838	\$31,204
SPACE HEAT	569.40	658.60
	166829	192958
	\$8,992	\$10,304
VENT FANS	2,307.00	806.10
	675959	236195
	<i>\$36,434</i>	\$12,613

Credits Applied: None Passing Criteria = 76402

FAILS

Design (including any credits) = 100732

Passing requires Proposed Building cost to be at most 100% of

Baseline cost. This Proposed Building is at 131.8%

Type: Warehouse

(WEA File: FL_ORLANDO_INTL_ARPT.tm3)

	Enter in Eighting Companie								
Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)			
Ext Light 2 Ext Light 3	Walk way less than 10 feet wide Main entries	Yes Yes	1.00 30.00	400.0	400	224 600			

Tradable Surfaces: 824 (W) Allowance for Tradable: 420 (W)

FAILS

All External Lighting: 824 (W)

Complicance check includes a excess/Base allowance of 20.00(W)

Project: Building C1 CZ2 Ware Title: TAM Building C1

Type: Warehouse (WEA File: FL ORLANDO INTL ARPT.tm3)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli- ance
Interior		Storage & Warehouse - Bulky Active Storage	37,000	4	4	PASSES
Pr0Zo2Sp1		Storage & Warehouse - Bulky Active Storage	5,775	3	3	PASSES
Pr0Zo3Sp1		Storage & Warehouse - Bulky Active Storage	5,775	1	3	FAILS
Pr0Zo4Sp1		Storage & Warehouse - Bulky Active Storage	5,775	1	3	FAILS
Pr0Zo5Sp1		Storage & Warehouse - Bulky Active Storage	5,775	1	3	FAILS
Interior		Storage & Warehouse - Bulky Active Storage	37,000	4	4	PASSES
Interior		Storage & Warehouse - Bulky Active Storage	37,000	4	4	PASSES
Interior		Storage & Warehouse - Bulky Active Storage	25,900	3	3	PASSES

FAILS

6/1/2015

Type: Warehouse

(WEA File: FL_ORLANDO_INTL_ARPT.tm3)

Pr0Sy1	System 1	Constant Volume Packaged	No. of Units
		System902	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	7199740	12.20	9.50	12.30	9.80	PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity	12522350	3.00	3.20			FAILS
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	231895	0.80	0.82			PASSES

Pr0Sy2 System 2 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h	487043	12.20	9.50	12.30	9.60	PASSES
Heating System	Cooling Capacity Heat Pumps Air Cooled (Heating Mode) > 135000	915200	3.00	3.20			FAILS
Air Handling System -Supply	Btu/h Cooling Capacity Air Handler (Supply) - Constant Volume	16948	0.80	0.82			PASSES

Pr0Sy3 System 3 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	500022	12.20	9.50	12.30	9.60	PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity	942580	3.00	3.20			FAILS
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	17455	0.80	0.82			PASSES

6/1/2015 Page 6 of 8

			tant Volume m902	No. of Units			
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	458374	12.20	9.50	12.30	9.60	PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity	854680	3.00	3.20			FAILS
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	15827	0.80	0.82			PASSES
Pr0Sy5 System 5			Syste	m902			1
Component	Category	Capacity	Design	Eff	Design	IPLV	Comp-
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h	Capacity 526037			_		-
	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Heat Pumps Air Cooled (Heating Mode) > 135000		Eff	Criteria	IPLV	Criteria	liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Heat Pumps Air Cooled	526037	Eff 12.20	Criteria 9.50	IPLV	Criteria	liance PASSES
Cooling System Heating System Air Handling	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity Air Handler (Supply) -	526037 978770	12.20 3.00	9.50 3.20	IPLV	Criteria	PASSES FAILS

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

6/1/2015 Page 7 of 8

Project: Building C1 CZ2 Ware Title: TAM Building C1 Type: Warehouse (WEA File: FL_ORLANDO_INTL_ARPT.tm3) Water Heater Compliance Design Min Design Max Comp Description Type Category Eff Eff Loss Loss liance Water Heater 1 <= 75000 Btu/h; **PASSES** Gas Storage water 0.58 0.52 heater >= 20 Gal **PASSES Piping System Compliance** Pipe Dia Is Category Operating Ins Cond Ins Req Ins Compliance [inches] Runout? Temp [Btu-in/hr Thick [in] Thick [in] [F] .SF.F] None Project: Building C1 CZ2 Ware Title: TAM Building C1 Type: Warehouse (WEA File: FL_ORLANDO_INTL_ARPT.tm3) **Other Required Compliance** Category Section Requirement (write N/A in box if not applicable) Check Project: Building C1 CZ2 Ware

6/1/2015

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 includ	cations 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

PROJECT SUMMARY

Short Desc: Building C1 CZ2 Ware Description: TAM Building C1

Owner: Enter Owner's name here

Address1:Enter Address hereCity:Enter city hereAddress2:Enter Address hereState:Enter state here

Zip: 0

Type: Warehouse Class: New Finished building

Jurisdiction: ORLANDO, ORANGE COUNTY, FL (582100)

Conditioned Area:160000 SFConditioned & UnConditioned Area:160000 SFNo of Stories:1Area entered from Plans160000 SFPermit No:0Max Tonnage600

If different, write in:

Compliance Summary								
Component	Design	Criteria	Result					
Gross Energy Cost (in \$)	100,125.0	63,883.0	FAILED					
LIGHTING CONTROLS			FAILS					
EXTERNAL LIGHTING			FAILS					
HVAC SYSTEM			FAILS					
PLANT			No Entry					
WATER HEATING SYSTEMS			PASSES					
PIPING SYSTEMS			No Entry					
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

	ed by this calculation are in compliance	nereby certify that the plans and specifications cover lorida Energy Code
:	Building Official:	Prepared By:
::	Date:	Date:
	rida Energy Efficiency Code	certify that this building is in compliance with the FLo
::	Date:	Owner Agent:
he Florida Energy	system design is in compliance with the	
he Florida Energy o:		
	Reg No:	efficiency Code
:	Reg No:	Efficiency Code Architect:
x:	Reg No: Reg No: Reg No:	Electrical Designer:

6/1/2015

Type: Warehouse

(WEA File: FL_ORLANDO_INTL_ARPT.tm3)

Building End Uses

	1) Proposed	2) Baseline
	6,339.90	4,803.50
	\$100,125	\$75,156
ELECTRICITY(MBtu/kWh/\$)	6,339.90	4,803.50
	1857609	1407414
	\$100,125	\$75,156
AREA LIGHTS	1,672.30	1,003.40
	489992	293984
	\$26,411	\$15,699
MISC EQUIPMT	320.00	320.00
	93763	93763
	\$5,054	\$5,007
PUMPS & MISC	0.30	0.30
	75	79
	\$4	\$4
SPACE COOL	1,472.90	2,031.10
	431568	595120
	\$23,262	\$31,779
SPACE HEAT	594.70	629.30
	174261	184386
	\$9,393	\$9,846
VENT FANS	2,279.70	819.40
	667950	240082
	\$36,003	\$12,820

Credits Applied: None

FAILS

Passing Criteria = 63883

Design (including any credits) = 100125

Passing requires Proposed Building cost to be at most 85% of

Baseline cost. This Proposed Building is at 133.2%

Type: Warehouse

(WEA File: FL_ORLANDO_INTL_ARPT.tm3)

	Eater nur Er	Shums C	omphane	<u> </u>		
Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 2 Ext Light 3	Walk way less than 10 feet wide Main entries	Yes Yes	1.00 30.00	400.0	400	224 600

Tradable Surfaces: 824 (W) Allowance for Tradable: 420 (W)

FAILS

All External Lighting: 824 (W)

Complicance check includes a excess/Base allowance of 20.00(W)

Project: Building C1 CZ2 Ware Title: TAM Building C1

Type: Warehouse (WEA File: FL ORLANDO INTL ARPT.tm3)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli- ance
Interior		Storage & Warehouse - Bulky Active Storage	37,000	4	4	PASSES
Pr0Zo2Sp1		Storage & Warehouse - Bulky Active Storage	5,775	3	3	PASSES
Pr0Zo3Sp1		Storage & Warehouse - Bulky Active Storage	5,775	1	3	FAILS
Pr0Zo4Sp1		Storage & Warehouse - Bulky Active Storage	5,775	1	3	FAILS
Pr0Zo5Sp1		Storage & Warehouse - Bulky Active Storage	5,775	1	3	FAILS
Interior		Storage & Warehouse - Bulky Active Storage	37,000	4	4	PASSES
Interior		Storage & Warehouse - Bulky Active Storage	37,000	4	4	PASSES
Interior		Storage & Warehouse - Bulky Active Storage	25,900	3	3	PASSES

FAILS

6/1/2015

Type: Warehouse

(WEA File: FL_ORLANDO_INTL_ARPT.tm3)

Pr0Sy1	System 1	Constant Volume Packaged	No. of Units
		System902	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	7199740	12.20	9.50	12.30	9.80	PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity	12522350	3.00	3.20			FAILS
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	231895	0.80	0.82			PASSES

Pr0Sy2 System 2 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h	487043	12.20	9.50	12.30	9.60	PASSES
Heating System	Cooling Capacity Heat Pumps Air Cooled (Heating Mode) > 135000	915200	3.00	3.20			FAILS
Air Handling System -Supply	Btu/h Cooling Capacity Air Handler (Supply) - Constant Volume	16948	0.80	0.82			PASSES

Pr0Sy3 System 3 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	500022	12.20	9.50	12.30	9.60	PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity	942580	3.00	3.20			FAILS
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	17455	0.80	0.82			PASSES

6/1/2015 Page 6 of 8

		Constant Volume Packaged System902			No. of Units 1		
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	458374	12.20	9.50	12.30	9.60	PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity	854680	3.00	3.20			FAILS
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	15827	0.80	0.82			PASSES
			Syste	m902			1
Component	Category	Capacity	Design	Eff	Design	IPLV	Comp-
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h	Capacity 526037			_		-
	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Heat Pumps Air Cooled (Heating Mode) > 135000		Eff	Criteria	IPLV	Criteria	liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Heat Pumps Air Cooled	526037	Eff 12.20	Criteria 9.50	IPLV	Criteria	liance PASSES
Cooling System Heating System Air Handling	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity Air Handler (Supply) -	526037 978770	12.20 3.00	9.50 3.20	IPLV	Criteria	PASSES FAILS

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

6/1/2015 Page 7 of 8

Project: Building C1 CZ2 Ware Title: TAM Building C1 Type: Warehouse (WEA File: FL_ORLANDO_INTL_ARPT.tm3) Water Heater Compliance Design Min Design Max Comp Description Type Category Eff Eff Loss Loss liance Water Heater 1 <= 75000 Btu/h; **PASSES** Gas Storage water 0.58 0.52 heater >= 20 Gal **PASSES Piping System Compliance** Pipe Dia Is Category Operating Ins Cond Ins Req Ins Compliance [inches] Runout? Temp [Btu-in/hr Thick [in] Thick [in] [F] .SF.F] None Project: Building C1 CZ2 Ware Title: TAM Building C1 Type: Warehouse (WEA File: FL_ORLANDO_INTL_ARPT.tm3) **Other Required Compliance** Category Section Requirement (write N/A in box if not applicable) Check Project: Building C1 CZ2 Ware

6/1/2015

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
Appli includ	cations 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

PROJECT SUMMARY

Short Desc: Building C1 CZ2 Ware Description: TAM Building C1

Owner: Enter Owner's name here

Permit No: 0

Address1:Enter Address hereCity:Enter city hereAddress2:Enter Address hereState:Enter state here

Zip: 0

Type: Warehouse Class: New Finished building

Jurisdiction: ORLANDO, ORANGE COUNTY, FL (582100)

Conditioned Area:160000 SFConditioned & UnConditioned Area:160000 SFNo of Stories:1Area entered from Plans160000 SF

Max Tonnage 600

If different, write in:

Compliance Summary						
Component	Design	Criteria	Result			
ENVELOPE PRESCRIPTIVE			FAILS			
LIGHTING POWER	160,001.0	105,600.0	FAILS			
LIGHTING CONTROLS			FAILS			
EXTERNAL LIGHTING			FAILS			
HVAC SYSTEM			FAILS			
PLANT			No Entry			
WATER HEATING SYSTEMS			PASSES			
PIPING SYSTEMS			No Entry			
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

		rida Energy Code
	Building Official:	Prepared By:
	Date:	Date:
	ida Energy Efficiency Code	ertify that this building is in compliance with the FLor
	Date:	Owner Agent:
	ystem design is in compliance with the Florida	Required by Florida law, I hereby certify (*) that the s
lorida Energy		iciency Code
	Reg No:	Architect:
Iorida Energy		•
	Reg No:	Architect:
	Reg No:	Architect: Electrical Designer:

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

Type: Warehouse

(WEA File: FL_ORLANDO_INTL_ARPT.tm3)

Prescriptive Envelope Compliance

Item	Zone	Description	Design	Criteria Meet Req.
Glass	Building C1 CZ2	East glass area must be less than or equal to	.000	1,280.000 Yes
		South glass area		
Glass	Building C1 CZ2	West glass area must be less than or equal to South glass area	.000	1,280.000 Yes
Glass	IntA	Percent glass Max allowed (%)	.000	40.000 Yes
Skylights	IntA	Percent Skylight Max allowed (%)	8.649	5.000 No
Pr0Zo1Rf1	IntA	Exterior Roof UValue Max allowed	.040	0.048 Yes
Pr0Zo1Rf1Sk1	Pr0Zo1Rf1	Skylight: SHGC Max allowed	.250	0.190 No
Pr0Zo1Rf1Sk1	Pr0Zo1Rf1Sk1	Skylight: UValue Max allowed	1.000	1.360 Yes
Glass	PerA	Percent glass Max allowed (%)	13.333	40.000 Yes
Pr0Zo2Wa1	PerA	Exterior Wall: UValue Max allowed	.350	0.089 No
Pr0Zo2Wa1Wi1	Pr0Zo2Wa1	Exterior Window: SHGC Max allowed	.176	0.250 Yes
Pr0Zo2Wa1Wi1	Pr0Zo2Wa1	Exterior Window: UValue Max allowed	.600	0.750 Yes
Skylights	PerA	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo2Rf1	PerA	Exterior Roof UValue Max allowed	.040	0.048 Yes
Glass	PerB	Percent glass Max allowed (%)	.000	40.000 Yes
Pr0Zo3Wa1	PerB	Exterior Wall: UValue Max allowed	.350	0.089 No
Skylights	PerB	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo3Rf1	PerB	Exterior Roof UValue Max allowed	.040	0.048 Yes
Glass	PerC	Percent glass Max allowed (%)	.000	40.000 Yes
Pr0Zo4Wa1	PerC	Exterior Wall: UValue Max allowed	.350	0.089 No
Skylights	PerC	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo4Rf1	PerC	Exterior Roof UValue Max allowed	.040	0.048 Yes
Glass	PerD	Percent glass Max allowed (%)	.000	40.000 Yes
Pr0Zo5Wa1	PerD	Exterior Wall: UValue Max allowed	.350	0.089 No
Skylights	PerD	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo5Rf1	PerD	Exterior Roof UValue Max allowed	.040	0.048 Yes
Glass	IntB	Percent glass Max allowed (%)	.000	40.000 Yes
Skylights	IntB	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo1Rf1	IntB	Exterior Roof UValue Max allowed	.040	0.048 Yes
Glass	IntC	Percent glass Max allowed (%)	.000	40.000 Yes
Skylights	IntC	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo1Rf1	IntC	Exterior Roof UValue Max allowed	.040	0.048 Yes
Glass	IntD	Percent glass Max allowed (%)	.000	40.000 Yes
Skylights	IntD	Percent Skylight Max allowed (%)	.000	5.000 Yes
Pr0Zo1Rf1	IntD	Exterior Roof UValue Max allowed	.040	0.048 Yes

DOES NOT meet Prescriptive Envelope Requirements -- FAILS

6/1/2015 Page 4 of 9

Type: Warehouse

(WEA File: FL_ORLANDO_INTL_ARPT.tm3)

	External El	gnung C	omphane			
Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 2 Ext Light 3	Walk way less than 10 feet wide Main entries	Yes Yes	1.00 30.00	400.0	400	224 600

Tradable Surfaces: 824 (W) Allowance for Tradable: 420 (W)

FAILS

All External Lighting: 824 (W)

Complicance check includes a excess/Base allowance of 20.00(W)

Project: Building C1 CZ2 Ware Title: TAM Building C1 Type: Warehouse

(WEA File: FL_ORLANDO_INTL_ARPT.tm3)

Lighting Power Compliance

		8			1			
Space	Ashrae ID	Description	Area (sq.ft)	Height (ft)	No. of Spaces	Design (W)	Effective (W)	Allowance (W)
Interior	3	Storage & Warehouse - Bulky Active Storage	37,000	24.0	1	37000	37000	24,420
Pr0Zo2Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	24.0	1	5775	5775	3,812
Pr0Zo3Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	24.0	1	5776	5776	3,812
Pr0Zo4Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	24.0	1	5775	5775	3,812
Pr0Zo5Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	24.0	1	5775	5775	3,812
Interior	3	Storage & Warehouse - Bulky Active Storage	37,000	24.0	1	37000	37000	24,420
Interior	3	Storage & Warehouse - Bulky Active Storage	37,000	24.0	1	37000	37000	24,420
Interior	3	Storage & Warehouse - Bulky Active Storage	25,900	24.0	1	25900	25900	17,094

Design : 160001 (W) Effective: 160001 (W) **FAILS**

Effective: 160001 (W) Allowance: 105600 (W)

Passing requires Design to be at most 100% of Criteria

6/1/2015 Page 5 of 9

Type: Warehouse

(WEA File: FL_ORLANDO_INTL_ARPT.tm3)

Lighting	Controls	Com	nliance
	COLLEGE	~ ~ ~ ~ ~	Jiiwiice

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli- ance
Interior	3	Storage & Warehouse - Bulky Active Storage	37,000	4	4	PASSES
Pr0Zo2Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	3	3	PASSES
Pr0Zo3Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	1	3	FAILS
Pr0Zo4Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	1	3	FAILS
Pr0Zo5Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	1	3	FAILS
Interior	3	Storage & Warehouse - Bulky Active Storage	37,000	4	4	PASSES
Interior	3	Storage & Warehouse - Bulky Active Storage	37,000	4	4	PASSES
Interior	3	Storage & Warehouse - Bulky Active Storage	25,900	3	3	PASSES
			Г	FAI	LS]

Type: Warehouse

(WEA File: FL_ORLANDO_INTL_ARPT.tm3)

System Report Compliance

Pr0Sy1	System 1	Constant Volume Packaged No. of U	Jnits
		System902	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	7199740	12.20	9.50	12.30	9.80	PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity	12522350	3.00	3.20			FAILS
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	231895	0.80	0.82			PASSES

Pr0Sy2 System 2 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h	487043	12.20	9.50	12.30	9.60	PASSES
Heating System	Cooling Capacity Heat Pumps Air Cooled	915200	3.00	3.20			FAILS
	(Heating Mode) > 135000 Btu/h Cooling Capacity	,					
Air Handling	Air Handler (Supply) -	16948	0.80	0.82			PASSES
System -Supply	Constant Volume						

Pr0Sy3 System 3 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	500022	12.20	9.50	12.30	9.60	PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity	942580	3.00	3.20			FAILS
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	17455	0.80	0.82			PASSES

6/1/2015 Page 7 of 9

			ant Volume m902	No. of Unit			
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	458374	12.20	9.50	12.30	9.60	PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity	854680	3.00	3.20			FAILS
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	15827	0.80	0.82			PASSES
	Pr0Sy5 System 5			tant Volume m902	Packaged	N	Io. of Units
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h	Capacity 526037	_		_		-
	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Heat Pumps Air Cooled (Heating Mode) > 135000		Eff	Criteria	IPLV	Criteria	liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Heat Pumps Air Cooled	526037	Eff 12.20	Criteria 9.50	IPLV	Criteria	liance PASSES
Cooling System Heating System Air Handling	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity Air Handler (Supply) -	526037 978770	12.20 3.00	9.50 3.20	IPLV	Criteria	PASSES FAILS

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

6/1/2015 Page 8 of 9

Project: Building C1 CZ2 Ware Title: TAM Building C1 Type: Warehouse (WEA File: FL_ORLANDO_INTL_ARPT.tm3) Water Heater Compliance Design Min Design Max Comp Description Type Category Eff Eff Loss Loss liance Water Heater 1 <= 75000 Btu/h; **PASSES** Gas Storage water 0.58 0.52 heater >= 20 Gal **PASSES Piping System Compliance** Pipe Dia Is Category Operating Ins Cond Ins Req Ins Compliance [inches] Runout? Temp [Btu-in/hr Thick [in] Thick [in] [F] .SF.F] None Project: Building C1 CZ2 Ware Title: TAM Building C1 Type: Warehouse (WEA File: FL_ORLANDO_INTL_ARPT.tm3) **Other Required Compliance** Category Section Requirement (write N/A in box if not applicable) Check

6/1/2015 Page 9 of 9

Project: Building C1 CZ2 Ware

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
Appli includ	cations 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

PROJECT SUMMARY

Short Desc: Building C1 CZ2 Ware **Description:** TAM Building C1

Owner: Enter Owner's name here

Address1: Enter Address here City: Enter city here Address2: Enter Address here State: Enter state here

Zip: 0

Type: Warehouse Class: New Finished building

Jurisdiction: ORLANDO, ORANGE COUNTY, FL (582100)

Conditioned Area: 160000 SF Conditioned & UnConditioned Area: 160000 SF No of Stories: 1 Area entered from Plans 160000 SF Permit No: 0

If different, write in:

Max Tonnage 600

Compliance Summary							
Component	Design	Criteria	Result				
ENVELOPE PRESCRIPTIVE			FAILS				
Additional Effficiency Prescriptive Option			Failed				
LIGHTING POWER	160,001.0	96,000.0	FAILS				
LIGHTING CONTROLS			FAILS				
EXTERNAL LIGHTING			FAILS				
HVAC SYSTEM			FAILS				
PLANT			No Entry				
WATER HEATING SYSTEMS			PASSES				
PIPING SYSTEMS			No Entry				
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

6/1/2015

CERTIFICATIONS

Prepared By:	Building Official:
Date:	Date:
certify that this building is in compliance with the FLor	da Energy Efficiency Code
Owner Agent:	Date:
Owner Agent.	<i>Dute.</i>
	ystem design is in compliance with the Florida Energy
Required by Florida law, I hereby certify (*) that the s	
Required by Florida law, I hereby certify (*) that the s	/stem design is in compliance with the Florida Energy
Required by Florida law, I hereby certify (*) that the s fficiency Code Architect:	ystem design is in compliance with the Florida Energy Reg No:
Required by Florida law, I hereby certify (*) that the s fficiency Code Architect: Electrical Designer:	rystem design is in compliance with the Florida Energy Reg No: Reg No:

6/1/2015

Type: Warehouse

(WEA File: FL_ORLANDO_INTL_ARPT.tm3)

Prescriptive Envelope Compliance

Item	Zone	Description	Design	Criteria Meet Req.
Glass	IntA	Percent glass Max allowed (%)	.000	30.000 Yes
Skylights	IntA	Percent Skylight Max allowed (%)	8.649	3.000 No
Pr0Zo1Rf1	IntA	Exterior Roof UValue Max allowed	.040	0.048 Yes
Pr0Zo1Rf1	IntA	Exterior Roof Absorptance (3-year aged) Max	.400	0.450 Yes
TIUZUIKII	mix	allowed	.400	0.430 168
Pr0Zo1Rf1	IntA	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Pr0Zo1Rf1Sk1	Pr0Zo1Rf1	Skylight: SHGC Max allowed	.250	0.350 Yes
Pr0Zo1Rf1Sk1	Pr0Zo1Rf1Sk1	Skylight: UValue Max allowed	1.000	0.650 No
Glass	PerA	Percent glass Max allowed (%)	13.333	30.000 Yes
Pr0Zo2Wa1	PerA	Exterior Wall: UValue Max allowed	.350	0.064 No
Pr0Zo2Wa1Wi1	Pr0Zo2Wa1	Exterior Window: SHGC Max allowed	.400	0.400 Yes
Pr0Zo2Wa1Wi1	Pr0Zo2Wa1	Exterior Window: UValue Max allowed	.600	0.500 No
Skylights	PerA	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo2Rf1	PerA	Exterior Roof UValue Max allowed	.040	0.048 Yes
Pr0Zo2Rf1	PerA	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450 Yes
Pr0Zo2Rf1	PerA	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	PerB	Percent glass Max allowed (%)	.000	30.000 Yes
Pr0Zo3Wa1	PerB	Exterior Wall: UValue Max allowed	.350	0.064 No
Skylights	PerB	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo3Rf1	PerB	Exterior Roof UValue Max allowed	.040	0.048 Yes
Pr0Zo3Rf1	PerB	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450 Yes
Pr0Zo3Rf1	PerB	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	PerC	Percent glass Max allowed (%)	.000	30.000 Yes
Pr0Zo4Wa1	PerC	Exterior Wall: UValue Max allowed	.350	0.064 No
Skylights	PerC	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo4Rf1	PerC	Exterior Roof UValue Max allowed	.040	0.048 Yes
Pr0Zo4Rf1	PerC	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450 Yes
Pr0Zo4Rf1	PerC	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	PerD	Percent glass Max allowed (%)	.000	30.000 Yes
Pr0Zo5Wa1	PerD	Exterior Wall: UValue Max allowed	.350	0.064 No
Skylights	PerD	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo5Rf1	PerD	Exterior Roof UValue Max allowed	.040	0.048 Yes
Pr0Zo5Rf1	PerD	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450 Yes
Pr0Zo5Rf1	PerD	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750 Yes
Glass	IntB	Percent glass Max allowed (%)	.000	30.000 Yes
Skylights	IntB	Percent Skylight Max allowed (%)	.000	3.000 Yes
Pr0Zo1Rf1	IntB	Exterior Roof UValue Max allowed	.040	0.048 Yes

Pr0Zo1Rf1	IntB	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450	Yes
Pr0Zo1Rf1	IntB	Exterior Roof Emissivity (3-year aged) Min	.900	0.750	Yes
Glass	IntC	Required Percent glass Max allowed (%)	.000	30.000	Yes
Skylights	IntC	Percent Skylight Max allowed (%)	.000	3.000	
Pr0Zo1Rf1	IntC	Exterior Roof UValue Max allowed	.040	0.048	Yes
Pr0Zo1Rf1	IntC	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450	Yes
Pr0Zo1Rf1	IntC	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750	Yes
Glass	IntD	Percent glass Max allowed (%)	.000	30.000	Yes
Skylights	IntD	Percent Skylight Max allowed (%)	.000	3.000	Yes
Pr0Zo1Rf1	IntD	Exterior Roof UValue Max allowed	.040	0.048	Yes
Pr0Zo1Rf1	IntD	Exterior Roof Absorptance (3-year aged) Max allowed	.400	0.450	Yes
Pr0Zo1Rf1	IntD	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750	Yes

DOES NOT meet Prescriptive Envelope Requirements -- FAILS

Project: Building C1 CZ2 Ware

Title: TAM Building C1
Type: Warehouse

(WEA File: FL_ORLANDO_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 2 Ext Light 3	Walk way less than 10 feet wide Main entries	Yes Yes	1.00 30.00	400.0	400	224 600			

FAILS

Tradable Surfaces: 824 (W) Allowance for Tradable: 420 (W)

All External Lighting: 824 (W)

Complicance check includes a excess/Base allowance of 20.00(W)

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Type: Warehouse

(WEA File: FL_ORLANDO_INTL_ARPT.tm3)

	Lighting Power Compliance										
Space	Ashrae ID	Description	Area (sq.ft)	Height (ft)	No. of Spaces	Design (W)	Effective (W)	Allowance (W)			
Interior	3	Storage & Warehouse - Bulky Active Storage	37,000	24.0	1	37000	37000	22,200			
Pr0Zo2Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	24.0	1	5775	5775	3,465			
Pr0Zo3Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	24.0	1	5776	5776	3,465			
Pr0Zo4Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	24.0	1	5775	5775	3,465			
Pr0Zo5Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	24.0	1	5775	5775	3,465			
Interior	3	Storage & Warehouse - Bulky Active Storage	37,000	24.0	1	37000	37000	22,200			
Interior	3	Storage & Warehouse - Bulky Active Storage	37,000	24.0	1	37000	37000	22,200			
Interior	3	Storage & Warehouse - Bulky Active Storage	25,900	24.0	1	25900	25900	15,540			

FAILS

Design : 160001 (W) Effective: 160001 (W)

Allowance: 96000 (W)

Passing requires Design to be at most 100% of Criteria

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Type: Warehouse

(WEA File: FL_ORLANDO_INTL_ARPT.tm3)

Lighting Controls Compliand	Lighting	Controls	Com	olianco
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Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min Compl CP ance
Interior	3	Storage & Warehouse - Bulky Active Storage	37,000	4	4 PASSES
Pr0Zo2Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	3	3 PASSES
Pr0Zo3Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	1	3 FAILS
Pr0Zo4Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	1	3 FAILS
Pr0Zo5Sp1	3	Storage & Warehouse - Bulky Active Storage	5,775	1	3 FAILS
Interior	3	Storage & Warehouse - Bulky Active Storage	37,000	4	4 PASSES
Interior	3	Storage & Warehouse - Bulky Active Storage	37,000	4	4 PASSES
Interior	3	Storage & Warehouse - Bulky Active Storage	25,900	3	3 PASSES
				FAI	LS

Type: Warehouse

(WEA File: FL_ORLANDO_INTL_ARPT.tm3)

Pr0Sy1	System 1	Constant Volume Packaged	No. of Units
		System902	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	7199740	12.20	9.50	12.30	9.80	PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity	12522350	3.00	3.20			FAILS
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	231895	0.80	0.82			PASSES

Pr0Sy2 System 2 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h	487043	12.20	9.50	12.30	9.60	PASSES
Heating System	Cooling Capacity Heat Pumps Air Cooled	915200	3.00	3.20			FAILS
Treating bystem	(Heating Mode) > 135000	713200	5.00	3.20			TAILS
Air Handling	Btu/h Cooling Capacity Air Handler (Supply) -	16948	0.80	0.82			PASSES
System -Supply	Constant Volume						

Pr0Sy3 System 3 Constant Volume Packaged No. of Units System--902 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	500022	12.20	9.50	12.30	9.60	PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity	942580	3.00	3.20			FAILS
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	17455	0.80	0.82			PASSES

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Pr0Sy4 System 4				ant Volume m902	Packaged	No. of Units 1		
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance	
Cooling System	Air Conditioners Air Cooled 240000 to 760000 Btu/h Cooling Capacity	458374	12.20	9.50	12.30	9.60	PASSES	
Heating System	Heat Pumps Air Cooled (Heating Mode) > 135000 Btu/h Cooling Capacity	854680	3.00	3.20			FAILS	
Air Handling	Air Handler (Supply) -	15827	0.80	0.82			PASSES	
Air Handling System -Supply Pr0Sy5 Sys	Constant Volume			ant Volume	Packaged	N	o. of Units	
System -Supply	Constant Volume	Capacity		ant Volume m902 Eff	Packaged Design	N IPLV	o. of Units 1 Comp-	
System -Supply Pr0Sy5 Sys	Constant Volume	Capacity	Syster	m902			1	
System -Supply Pr0Sy5 Sys	Category Air Conditioners Air Cooled 240000 to 760000 Btu/h	Capacity 526037	System Design	m902 Eff	Design	IPLV	Comp-	
System -Supply Pr0Sy5 Sys Component	Constant Volume Stem 5 Category Air Conditioners Air Cooled		Syster Design Eff	m902 Eff Criteria	Design IPLV	IPLV Criteria	Compliance	

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

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Project: Building C1 CZ2 Ware Title: TAM Building C1 Type: Warehouse (WEA File: FL_ORLANDO_INTL_ARPT.tm3) Water Heater Compliance Design Min Design Max Comp Description Type Category Eff Eff Loss Loss liance Water Heater 1 <= 75000 Btu/h; **PASSES** Gas Storage water 0.58 0.52 heater >= 20 Gal **PASSES Piping System Compliance** Pipe Dia Is Category Operating Ins Cond Ins Req Ins Compliance [inches] Runout? Temp [Btu-in/hr Thick [in] Thick [in] [F] .SF.F] None Project: Building C1 CZ2 Ware Title: TAM Building C1 Type: Warehouse (WEA File: FL_ORLANDO_INTL_ARPT.tm3) **Other Required Compliance** Category Section Requirement (write N/A in box if not applicable) Check Project: Building C1 CZ2 Ware

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DOE Based Sizing

PROJECT SUMMARY

Short Desc: Building C1 Description: TAM Building C1

Owner: Enter Owner's name here

Address1:Enter Address hereCity:Enter city hereAddress2:Enter Address hereState:Enter state here

Zip: 0

Type: Warehouse Class: New Finished building

Weather File: FL_ORLANDO_INTL_ARPT.tm3

Conditioned Area: 160000 SF

No of Stories: 1

Conditioned & UnConditioned Area: 160000 SF

Area entered from Plans 160000 SF

Permit No: 0 Max Tonnage 0

If different, write in:

5/30/2015 Page 1 of 3

CERTIFICATIONS

		ereby certify that the plans and specifications covered be authority of jurisdiction		
	Building Official:	Prepared By:		
	Date:	Date:		
I certify that this building is in compliance as required by the authority of jurisdiction				
	Date:	Owner Agent:		
	n design is in compliance as required by the au	required by law, I hereby certify (*) that the system designisdiction		
e authority of	Reg No:	risdiction		
e authority of	Reg No: Reg No:	Architect:		
e authority of	Reg No: Reg No: Reg No:	Architect: Electrical Designer:		

5/30/2015

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DOE 2.1 E Based Sized Parameters (Beta Feature)

<u>IdSystem</u>	System Name	System Type	
1	Pr0Sy1	System 1	
	Component Cooling System Heating System Air Handling System -Supply	<u>Sized Value</u> 7199740 1.252235E+07 231895	<u>Units</u> BTU/HR Btu/h CFM
2	Pr0Sy2	System 2	
	Component Cooling System Heating System Air Handling System -Supply	<u>Sized Value</u> 487043 915200 16948	<u>Units</u> BTU/HR Btu/h CFM
3	Pr0Sy3	System 3	
	Component Cooling System Heating System Air Handling System -Supply	<u>Sized Value</u> 500022 942580 17455	Units BTU/HR Btu/h CFM
4	Pr0Sy4	System 4	
	Component Cooling System Heating System Air Handling System -Supply	<u>Sized Value</u> 458374 854680 15827	Units BTU/HR Btu/h CFM
5	Pr0Sy5	System 5	
	Component Cooling System Heating System Air Handling System -Supply	<u>Sized Value</u> 526037 978770 18125	<u>Units</u> BTU/HR Btu/h CFM