# Florida Building Code, Fifth Edition (2014) - Energy Conservation

EnergyGauge Summit® Fla/Com-2015, Effective Date: June 30, 2015 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: Tampa Surgical Description: Tampa Surgical Suites

Owner: Tampa Surgical Suites

Address1: Example Street

City: Tampa

Address2:

State: FL

**Zip:** 33615

Type: Healthcare-Clinic Class: New Finished building

Jurisdiction: TAMPA, HILLSBOROUGH COUNTY, FL (391200)

Conditioned Area: 7500 SF

No of Stories: 1

Permit No: 0

Conditioned & UnConditioned Area: 7500 SF

Area entered from Plans 7500 SF

Max Tonnage 40

If different, write in:

Compliance Summary							
Component	Design	Criteria	Result				
Gross Energy Cost (in \$)	4,131.0	4,247.0	PASSED				
LIGHTING CONTROLS			PASSES				
EXTERNAL LIGHTING			PASSES				
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

1/1/2016

#### **CERTIFICATIONS**

	CERTIFICATIONS		
I hereby certify that the plans and Florida Energy Code	specifications covered by this calculation are	in compliance	e with the
Prepared By:	Thomas Tidwell Bu	ilding Official:	
Date:		Date:	
I certify that this building is in com	pliance with the FLorida Energy Efficiency Co	ode	
Owner Agent:		Date:	
If Required by Florida law, I herek Efficiency Code	oy certify (*) that the system design is in comp	oliance with the	e Florida Energy
Architect:	Mrs. Good Architect	Reg No:	F000000001
Electrical Designer:	Mr. Good E. Engineer	Reg No:	55555
Lighting Designer:	Mr. Good E. Engineer	Reg No:	55555
Mechanical Designer:	Mr. Good M. Engineer	Reg No:	77777
Plumbing Designer:	Mr. Good M. Engineer	Reg No:	77777
	lorida Law requires design to be performed by registration numbers may be used where all r		

1/1/2016

## **Building End Uses**

	1) Proposed	2) Baseline
al	263.00	318.10
	\$4,131	\$4,996
ELECTRICITY(MBtu/kWh/\$)	263.00	318.10
	77069	93218
	\$4,131	\$4,996
AREA LIGHTS	73.80	94.00
	21625	27556
	\$1,159	\$1,477
MISC EQUIPMT	61.30	61.30
	17967	17967
	<i>\$963</i>	\$963
PUMPS & MISC	0.10	0.10
	39	24
	\$2	\$1
SPACE COOL	105.30	108.80
	30867	31885
	\$1,654	\$1,709
SPACE HEAT	1.00	1.20
	284	357
	\$15	\$19
VENT FANS	21.50	52.70
	6287	15429
	<i>\$337</i>	\$827

Credits Applied: None

Passing Criteria = 4247

Design (including any credits) = 4131

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

Baseline cost. This Proposed Building is at 82.7%

**PASSES** 

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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 1	Walkways more that 10 feet wide	Yes	0.20	800.0	160	91		
Ext Light 2	Main entries	Yes	30.00	6.0	180	91		

Tradable Surfaces: 182.4 (W) Allowance for Tradable: 1640 (W)

**PASSES** 

All External Lighting: 182.4 (W)

Complicance check includes a excess/Base allowance of 1300.00(W)

## **Lighting Controls Compliance**

A	A alassa a	Description	A	Davisas	M:	C1;
Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli- ance
225 OR		Operating Room (Hospital)	575	1	1	PASSES
226 OR	10,007	Operating Room (Hospital)	575	1	1	PASSES
238 BioHaz	31,001	Workshop	30	1	1	PASSES
213 Exam	10,004	Exam/Treatment (Hospital)	250	1	1	PASSES
217 Nurse	10,003	Nurse Station (Hospital)	155	1	1	PASSES
218 PACU	10,002	Recovery (Hospital)	500	1	1	PASSES
237 Toilet	6	Toilet and Washroom	80	1	1	PASSES
214 Recovery	10,002	Recovery (Hospital)	134	1	1	PASSES
202 Hall	5	Corridor	100	1	1	PASSES
240 Linen	30,002	Medium/Bulky Material Storage	43	1	1	PASSES
228 Elect	1	Electrical Mechanical Equipment	75	1	1	PASSES
		Room - General				
229 Elect	1	Electrical Mechanical Equipment Room - General	75	1	1	PASSES
230 Vacuum	1	Electrical Mechanical Equipment Room - General	205	1	1	PASSES
236 Toilet	6	Toilet and Washroom	104	1	1	PASSES
227 Corridor		Corridor	810	1		PASSES
221 Clean		Workshop	145	1		PASSES
222 Sterile		Fine Material Storage	96	1		PASSES
219 Recov		Recovery (Hospital)	140	1		PASSES
220 Soiled		Medium/Bulky Material Storage	145	1		PASSES
233 Dress		Toilet and Washroom	60	1		PASSES
234 Dress		Toilet and Washroom	60	1		PASSES
223 Storage		Medium/Bulky Material Storage	174	1		PASSES
231 Janitor		Electrical Mechanical Equipment	34	1		PASSES PASSES
		Room - General				
210 Janitor	1	Electrical Mechanical Equipment Room - General	26	1	1	PASSES
211 Hall	5	Corridor	125	2	1	PASSES
212 Dict	17	Office - Enclosed	64	1	1	PASSES
215 Recovery	10,002	Recovery (Hospital)	116	1	1	PASSES
216 Hall	5	Corridor	245	1	1	PASSES
232 Med Gas	30,002	Medium/Bulky Material Storage	50	1	1	PASSES
224 Storage	30,002	Medium/Bulky Material Storage	174	1	1	PASSES
239 Hall	5	Corridor	289	1	1	PASSES
235 Hall	5	Corridor	130	1	1	PASSES
203 PreOp	10,002	Recovery (Hospital)	610	1	1	PASSES
201 Consult		Exam/Treatment (Hospital)	64	1		PASSES
200 Waiting		Lobby (General) - Reception and Waiting	363	1		PASSES
205 Office	17	Office - Enclosed	80	1	1	PASSES
206 Office	17		80	1		PASSES
204 Recpt		Lobby (General) - Reception and Waiting	150	1		PASSES
209 Data	1	Electrical Mechanical Equipment Room - General	26	1	1	PASSES

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207 Hall	<ul><li>5 Corridor</li><li>8 Food Service - Leisure Dining</li></ul>	80	1	1 PASSES
208 Lounge		263	1	1 PASSES
			PASS	ES

### **System Report Compliance**

Constant Volume Air Cooled No. of Units Single Package System < 1

	65000 Rtu/hr									
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance			
Cooling System	Air Conditioners Air Cooled Single Pkg < 65000 Btu/h Cooling Capacity	49800	14.00	12.23	11.40		PASSES			
Heating System	Electric Furnace	34120	1.00	1.00			PASSES			
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	1200	0.41	0.82			PASSES			
Air Distribution System (Sup)	ADS System (Sup)		4.20				PASSES			
Air Distribution System (Ret)	ADS System (Ret)		4.20				PASSES			

#### RTU-1 40-ton VAV Unit

Variable Air Volume Packaged System 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	480000	10.00	10.00	10.10	10.10	PASSES
Air Handling System -Supply	Air Handler (Supply) - Variable Volume	8290	0.87	1.12			PASSES
Air Distribution System (Sup)	ADS System (Sup)		4.20				PASSES
Air Distribution System (Ret)	ADS System (Ret)		4.20				PASSES

**PASSES** 

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

WEA File: Tampa.tmy) Water Heater Compliance									
Description	Туре	Category	Design Eff	Min Eff	Design Loss	Max Com Loss lianc	-		
WH-1	Electric water heater	<= 12 [kW]	0.94	0.90		PASS	SES		
						PASS	ES		
		Piping Syst	em Compli	iance					
						Dog Ing	Complianc		
Category	Pipe [inc		rerating Ins C Femp [Btu-i [F] .SF.	in/hr T	Ins hick [in]	Req Ins Thick [in]	Сопрпан		

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## Mandatory Requirements (as applicable)

Mandatory requirements compiled by US Department of Energy and Pacific Northwest National Laboratory.

			Adopted with permission	,	
Topic	Section	Component		Yes N/A Ex	
To be checked during Construction					
Air Leakage Air Leakage	C402.4.1,C402.4.2 C402.4.3,C402.4.4	Envelope	The building envelope contains a continuous air barrier that is sealed in an approved manner and either constructed or tested in an approved manner. Air barrier penetrations are sealed in an approved manner.  Factory-built fenestration and doors are labeled		
/	0.02,0.102		as meeting air leakage requirements.		
Air Leakage	C402.4.7	Envelope	Vestibules are installed on all building entrances.  Doors have self-closing devices.		
Air Leakage	C402.4.1.1	Envelope	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.		
Air Leakage	C402.4.6	Envelope	Weatherseals installed on all loading dock cargo doors.		
Air Leakage	C402.4.8	Envelope	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.		
Fenestration	C303.1.3	Envelope	Fenestration products rated in accordance with NFRC.		
Fenestration	C303.1.3	Envelope	Fenestration products are certified as to performance labels or certificates provided.		
Fenestration	C402.2.7	Envelope	U-factor of opaque doors associated with the building thermal envelope meets requirements.		
Insulation	C303.2	Envelope	Below-grade wall insulation installed per manufacturer's instructions.		
Insulation	C303.2	Envelope	Slab edge insulation installed per manufacturer's instructions.		
Insulation	C402.2.6	Envelope	Slab edge insulation depth/length. Slab insulation extending away from building is covered by pavement or >= 10 inches of soil.		
Insulation	C403.2.7,C408.2.8,C4	Envelope	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and		
Insulation	C402.4.2.1	Envelope	equipment maintenance activities. Roof R-value. For some ceiling systems, verification may need to occur during Framing		
Insulation	C303.2	Envelope	Inspection.  Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation		
Insulation	C402.2.1	Envelope	is installed only where the roof slope is <=3 in 12.  Skylight curbs are insulated to the level of roofs with insulation above deck or R-5.		
Insulation	C402.2.1.1	Envelope	High-albedo roofs satisfy one of the following: 3-year-aged solar reflectance >= 0.55 and thermal emittance >= 0.75, 3-year-aged solar reflectance index >= 64.0, initial year solar reflectance >= 0.70 and thermal emittance >= 0.75, or initial year solar		
Insulation	C303.2	Envelope	Above-grade wall insulation installed per manufacturer's instructions.		
Insulation	C303.2	Envelope	Floor insulation installed per manufacturer's instructions.		
Insulation	C303.1	Envelope	Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.		

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Insulation	C303.2.1	Envelope	Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during	
Insulation	C402.2.1	Envelope	Foundation Inspection. Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement	
Controls	C405.2.4	Exterior Lighting	compliant if insulation is installed accordingly.  Automatic lighting controls for exterior lighting installed.	
Wattage	C405.6	Exterior Lighting	Exterior grounds lighting over 100 W provides >60 Im/W unless on motion sensor or fixture is exempt	
Wattage	C405.6.2	Exterior Lighting	from scope of code or from external LPD.  Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or	
Controls	C405.2.2.1	Interior Lighting	equal to allowed watts.  Automatic controls to shut off all building lighting installed in all buildings.	
Controls	C405.2.1.1	Interior Lighting	Independent lighting controls installed per approved lighting plans and all manual controls	
Controls	C405.2.1.2	Interior Lighting	readily accessible and visible to occupants.  Lighting controls installed to uniformly reduce the lighting load by at least 50%.	
Controls	C405.2.2.3	Interior Lighting	Daylight zones provided with individual controls that control the lights independent of general area	
Controls	C405.2.3	Interior Lighting	lighting.  Sleeping units have at least one master switch at the main entry door that controls wired luminaires and switched receptacles.	
Controls	C405.2.2.2	Interior Lighting	Occupancy sensors installed in required spaces.	
Controls	C405.2.2.3	Interior Lighting	Primary sidelighted areas are equipped with required lighting controls.	
Controls	C405.2.2.3	Interior Lighting	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	
Controls	C405.2.3	Interior Lighting	Separate lighting control devices for specific uses installed per approved lighting plans.	
Controls	C405.3	Interior Lighting	Fluorescent luminaires within odd numbered lamp configurations that are with 10 feet center to center (if recess mounted) or are within 1 foot edge to edge (if pendant or surface mounted) shall be tandem wired.	
Wattage	C405.4	Interior Lighting	Exit signs do not exceed 5 watts per face.	
Wattage	C405.2.3	Interior Lighting	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated	
Wattage	C405.5.2	Interior Lighting	from general lighting. Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	
HVAC	C403.2.4.5	Mechanical	Freeze protection and snow/ice melting system sensors for future connection to controls.	
HVAC	C403.2.3	Mechanical	HVAC equipment efficiency verified.	
Air Leakage	C402.4.5.1	Envelope	Stair and elevator shaft vents have motorized dampers that automatically close.	
Air Leakage	C402.4.5.2	Envelope	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed.	
HVAC	C403.2.5.1	Mechanical	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	

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C403.2.8.1	Mechanical	Piping Insulation exposed to weather is protected from damage (due to sun, moisture, wind, etc.).	
C403.2.7	Mechanical	HVAC ducts and plenums insulated. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation	
C403.2.8	Mechanical	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	
C403.2.7	Mechanical	Ducts and plenums sealed based on static pressure and location.	
C408.2.2.1	Mechanical	Air outlets and zone terminal devices have means for air balancing.	
C403.2.6	Mechanical	Exhaust air energy recovery on systems meeting Table C403.2.6	
C403.2.11	Mechanical	Unenclosed spaces that are heated use only radiant heat.	
C403.2.4.1	Mechanical	Heating and cooling to each zone is controlled by a thermostat control.	
C403.2.4.2	Mechanical	Thermostatic controls have a 5 °F deadband.	
C403.2.4.2	Mechanical	Temperature controls have setpoint overlap restrictions.	
C403.2.4.3	Mechanical	Each zone equipped with setback controls using automatic time clock or programmable control system	
C403.2.4.3	Mechanical	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant	
C404.3	Mechanical	Temperature controls installed on service water heating systems (110 °F for dwelling units and lavatories in public restrooms and 90 °F for other	
C404.4	Mechanical	Automatic time switches installed to automatically switch off the recirculating hot-water system or	
C404.2	Mechanical	Heat traps installed on non-circulating storage water tanks.	
C403.2.3	Mechanical	PTAC and PTHP with sleeves 16 in. by 42 in. labeled for replacement only as per Footnote b to Table C403 2 3(3)	
C403.4.2	Mechanical	VAV fan >= 7.5 hp are driven by mechanical or electrical variable speed drive, or driven by vane-axial with variable speed blades, or operate with motor demand <=30% design kW at 50%	
C403.2.8	Mechanical	HVAC piping insulation thickness. Where piping is installed in or under a slab, verification may	
C403.2.7.1.3	Mechanical	Ductwork operating >3 in. water column requires air leakage testing.	
C403.3.1,C403.3.1.1	Mechanical	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during	
C403.3.1,C403.4.1	Mechanical	operation. Water economizers provided where required, meet the requirements for design capacity, maximum pressure drop and integrated	
C403.4.1.4	Mechanical	economizer control.  Economizer operation will not increase heating energy use during normal operation.	
C403.4.5	Mechanical	Zone controls can limit simultaneous heating and cooling and sequence heating and cooling to each	
C403.4.3.1	Mechanical	zone. Three-pipe hydronic systems using a common return for hot and chilled water are not used.	
	C403.2.7  C403.2.8  C403.2.7  C408.2.2.1  C403.2.6  C403.2.11  C403.2.4.1  C403.2.4.2  C403.2.4.3  C403.2.4.3  C404.4  C404.2  C403.2.3  C403.2.3  C403.2.3  C403.2.1  C403.2.1  C403.2.3  C403.2.1  C403.2.1  C403.2.3  C403.2.3	C403.2.7       Mechanical         C403.2.8       Mechanical         C403.2.7       Mechanical         C403.2.1       Mechanical         C403.2.6       Mechanical         C403.2.11       Mechanical         C403.2.4.1       Mechanical         C403.2.4.2       Mechanical         C403.2.4.3       Mechanical         C403.2.4.3       Mechanical         C403.2.4.3       Mechanical         C404.4       Mechanical         C404.2       Mechanical         C403.2.3       Mechanical         C403.2.3       Mechanical         C403.2.3       Mechanical         C403.2.8       Mechanical         C403.2.8       Mechanical         C403.2.7.1.3       Mechanical         C403.3.1,C403.3.1.1       Mechanical         C403.4.1.4       Mechanical         C403.4.5       Mechanical	from damage (due fo sun, moisture, wind, etc.).  C403.2.7 Mechanical HVAC ducts and plenums insulated. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.  C403.2.8 Mechanical Ducts and plenums sealed based on static pressure and location.  C403.2.7 Mechanical Ducts and plenums sealed based on static pressure and location.  C403.2.8 Mechanical Exhaust air energy recovery on systems meeting Table C403.2.6  C403.2.11 Mechanical Exhaust air energy recovery on systems meeting Table C403.2.6  C403.2.11 Mechanical Unenclosed spaces that are heated use only radiant heat.  C403.2.4.1 Mechanical Heating and cooling to each zone is controlled by a thermostat control.  C403.2.4.2 Mechanical Temperature controls have a 5 °F deadband.  C403.2.4.3 Mechanical Exhaust air energy recovery on systems meeting Table C403.2.4.2 Mechanical Temperature controls have a 5 °F deadband.  C403.2.4.3 Mechanical Exhaust air energy recovery on systems in the state of t

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SYSTEM_SPECIFIC	C403.4.3.2	Mechanical	Two-pipe hydronic systems using a common distribution system have controls to allow a deadband >=15 °F, allow operation in one mode for at least 4 hrs before changeover, and have rest controls to limit heating and cooling supply	
SYSTEM_SPECIFIC	C403.4.3.3.1	Mechanical	temperature to <=30 °F. Hydronic heat pump systems connected to a common water loop meet heat rejection and heat	
SYSTEM_SPECIFIC	C408.2.2.2	Mechanical	addition requirements.  HVAC hydronic heating and cooling coils have means to balance and have pressure test	
SYSTEM_SPECIFIC	C403.2.10.1	Mechanical	connections.  HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	
SYSTEM_SPECIFIC	C403.2.10.2	Mechanical	HVAC fan motors not larger than allowable limits.	
SYSTEM_SPECIFIC	C403.4.2	Mechanical	VAV fan motors >=7.5 hp to be driven by variable speed drive, have a vane-axial fan with variable pitch blades, or have controls to limit fan motor	
SYSTEM_SPECIFIC	C403.4.2.1	Mechanical	demand.  VAV fans have static pressure sensors positioned so setpoint <=1/3 total design pressure.	
SYSTEM_SPECIFIC	C403.4.2.2	Mechanical	Reset static pressure setpoint for DDC controlled VAV boxes reporting to central controller based on the zones requiring the most pressure.	
SYSTEM_SPECIFIC	C403.4.5.4	Mechanical	Multiple zone HVAC systems have supply air temperature reset controls.	
SYSTEM_SPECIFIC	C403.4.3.4	Mechanical	Hydronic systems greater than 300,000 Btu/h designed for variable fluid flow.	
SYSTEM_SPECIFIC	C403.4.3.5	Mechanical	Reduce flow in pumping systems >10 hp to multiple chillers or boilers when others are shut down.	
SYSTEM_SPECIFIC	C403.4.3.4	Mechanical	Temperature reset by representative building loads in pumping systems for chiller and boiler systems >300,000 Btu/h.	
SYSTEM_SPECIFIC	C403.4.3.3.3	Mechanical	Two-position automatic valve interlocked to shut off water flow when hydronic heat pump with	
SYSTEM_SPECIFIC	C403.4.4	Mechanical	pumping system >10 hp is off.  Fan systems with motors >=7.5 hp associated with heat rejection equipment to have capability to operate at 2/3 of full-speed and auto speed controls to control the leaving fluid temperature or condensing temp/pressure of heat rejection device.	
SYSTEM_SPECIFIC	C403.4.6	Mechanical	Condenser heat recovery system that can heat water to 85 °F or provide 60% of peak heat rejection is installed for preheating of service hot water in 24/7 facility, water cooled systems reject	
SYSTEM_SPECIFIC	C403.4.7	Mechanical	>6 MMBtu, SHW load >=1 MMBtu. Hot gas bypass limited to: <=240 kBtu/h – 50% >240 kBtu/h – 25%	
SYSTEM_SPECIFIC	C404.2	Mechanical	Service water heating equipment meets efficiency requirements.	
SYSTEM_SPECIFIC	C403.2.4.2	Mechanical	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed	
SYSTEM_SPECIFIC	C403.2.4.3.3	Mechanical	humidification/dehumidification system. Systems include optimum start controls.	
SYSTEM_SPECIFIC	C403.2.4.1.1	Mechanical	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	
SYSTEM_SPECIFIC	C404.3	Mechanical	Public lavatory faucet water temperature <=110°F.	
SYSTEM_SPECIFIC	C404.5	Mechanical	All piping in circulating system insulated	
SYSTEM_SPECIFIC	C404.5	Mechanical	First 8 ft of outlet piping is insulated	

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SYSTEM_SPECIFIC	C404.5	Mechanical	All heat traced or externally heated piping insulated		
SYSTEM_SPECIFIC	C404.6	Mechanical	Controls are installed that limit the operation of a recirculation pump installed to maintain		
SYSTEM_SPECIFIC	C404.7.1	Mechanical	temperature of a storage tank.  Pool heaters are equipped with on/off switch and no continuously burning pilot light.		
SYSTEM_SPECIFIC	C404.7.3	Mechanical	Vapor retardant pool covers are provided for heated pools and permanently installed spas.		
SYSTEM_SPECIFIC	C404.7.2	Mechanical	Time switches are installed on all pool heaters and pumps.		
SYSTEM_SPECIFIC	C403.2.3	Mechanical	Centrifugal fan open-circuit cooling towers having combined rated capacity >= 1100 gpm meets minimum efficiency requirement: >=38.2 gpm/hp.		
Testing	C408.2.3.2	Mechanical	HVAC control systems have been tested to ensure proper operation, calibration and		
Mandatory Additional Eff	C406	Project	adjustment of controls.  Efficient HVAC performance, efficient lighting system, or on-site supply of renewable energy		
Insulation	C402.2.8	Project	consistent with what is shown the approved plans. Bottom surface of floor structures incorporating radiant heating insulated to >=R-3.5.		
	1	o be checke	d during Plan Review		
Plan Review	C103.2	Envelope	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where		
Plan Review	C103.2	Exterior Lighting	exceptions to the standard are claimed.  Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed.		
Plan Review	C103.2	Interior Lighting	Information provided shoul Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed.		
Plan Review	C103.2	Mechanical	Information provided shoul Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per		
Plan Review	C103.2	Mechanical	acceptable engineering st Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufact		
Plan Review	C406	Project	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency		
Plan Review	C402.3.2.2	Envelope	package options.  Skylights in office, storage, automotive service, manufacturing, non-refrigerated warehouse, retail store, and distribution/sorting area have a measured haze value > 90 percent unless designed to exclude direct sunlight.		
To be checked Post Construction Prior to Issuance of Certificate of Occupancy					
Post Construction	C408.3	Exterior Lighting	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and		
Post Construction	C408.2.5.1	Interior Lighting	operation. Furnished as-built drawings for electric power systems within 30 days of system acceptance.		

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Post Construction	C303.3,C408.2.5.2	Interior Lighting	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	
Post Construction	C408.3	Interior Lighting	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	
Post Construction	C408.2.5.1	Mechanical	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	
Post Construction	C303.3,C408.2.5.2	Mechanical	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	
Post Construction	C408.2.5.3	Mechanical	An air and/or hydronic system balancing report is provided for HVAC systems.	
Post Construction	C408.2.1	Mechanical	Commissioning plan developed by registered design professional or approved agency.	
Post Construction	C408.2.4	Mechanical	Preliminary commissioning report completed and certified by registered design professional or approved agency.	
Post Construction	C408.2.5.4	Mechanical	Final commissioning report due to building owner within 90 days of receipt of certificate of	
Post Construction	C408.2.3.1	Mechanical	occupancy.  HVAC equipment has been tested to ensure proper operation.	
Post Construction	C408.2.3.3	Mechanical	Economizers have been tested to ensure proper operation.	

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