

Florida Building Code, Seventh Edition (2020) - Energy Conservation

EnergyGauge Summit® Fla/Com-2020, Effective Date: Dec 31, 2020

C402.1.1: ASHRAE Energy Cost Budget Option



Check List

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

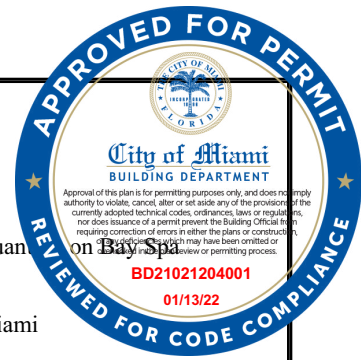
- This Checklist
- The full compliance report generated by the software that contains the project summary, compliance summary, certifications and detailed component compliance reports.
- The compliance report must include the full input report generated by the software as contiguous part of the compliance report.
- Boxes appropriately checked in the Mandatory Section of the compliance report.

WARNING: INPUT REPORT NOT GENERATED.

To include input report in final submission, go to the Project Form, Settings Tab and check the box - "Append Input Report to Compliance Output Report"

Then rerun your calculation

PROJECT SUMMARY



Short Desc: SPA

Owner:

Address1: Quantum on the Bay

Address2: 1900 North Bayshore Drive

Type: Healthcare-Clinic

Jurisdiction: MIAMI BEACH, MIAMI-DADE COUNTY, FL (232500)

Conditioned Area: 746 SF

No of Stories: 1

Permit No: 0

Description: Quantum on Bay Spa

City: Miami

State: FL

Zip: 0

Class: Renovation to existing building

Conditioned & UnConditioned Area: 746 SF

Area entered from Plans 746 SF

Max Tonnage 2.8

If different, write in: _____

Compliance Summary

Component	Design	Criteria	Result
Gross Energy Cost (in \$)	393.0	657.0	PASSED
LIGHTING CONTROLS			PASSES
EXTERNAL LIGHTING			No Entry
HVAC SYSTEM			PASSES
PLANT			No Entry
WATER HEATING SYSTEMS			Not Checked
PIPING SYSTEMS			PASSES
Met all required compliance from Check List?			Yes/No/NA
<p>IMPORTANT MESSAGE Info 5009 -- -- -- An input report of this design building must be submitted along with this Compliance Report</p>			



CERTIFICATIONS



I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code

Prepared By: **Jose** Digitally signed by Jose Ramos Building Official: _____
 Date: **Ramos** 2021.08.27 Date: _____
 18:55:07 -04'00'

I certify that this building is in compliance with the Florida Energy Efficiency Code

Owner Agent: _____ Date: _____

If Required by Florida law, I hereby certify (*) that the system design is in compliance with the Florida Energy Efficiency Code

Architect: _____	Reg No: _____
Electrical Designer: _____	Reg No: _____
Lighting Designer: _____	Reg No: _____
Mechanical Designer: _____	Reg No: _____
Plumbing Designer: _____	Reg No: _____

(*) Signature is required where Florida Law requires design to be performed by registered design professionals. Typed names and registration numbers may be used where all relevant information is contained on signed/sealed plans.

Project: SPA
 Title: Quantum on Bay Spa
 Type: Healthcare-Clinic
 (WEA File: FL_MIAMI_INTL_AP.tm3)



Building End Uses

	1) Proposed	2) Baseline
Total	25.30	42.00
	\$393	\$657
ELECTRICITY(MBtu/kWh/\$)	25.30	42.00
	7434	12330
	\$393	\$657
AREA LIGHTS	0.90	6.50
	276	1919
	\$15	\$102
MISC EQUIPMT	11.20	11.20
	3279	3279
	\$173	\$175
PUMPS & MISC	0.00	0.00
	1	2
	\$0	\$0
SPACE COOL	7.70	12.60
	2267	3684
	\$120	\$196
SPACE HEAT	0.00	0.00
	0	12
	\$0	\$1
VENT FANS	5.50	11.70
	1611	3434
	\$85	\$183

Credits Applied: None

Passing Criteria = 657

Design (including any credits) = 393

Passing requires Proposed Building cost to be at most 100% of Baseline cost. This Proposed Building is at 59.7%

PASSES



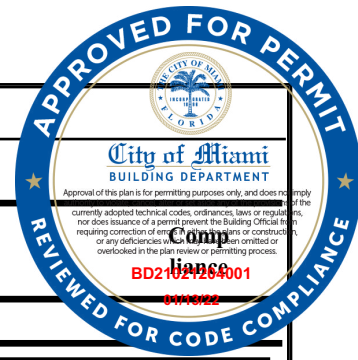
External Lighting Compliance				
Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)
None				

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Lighting Controls Compliance						
Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compliance
SPA	10,010	Physical Therapy (Hospital)	746	2	1	PASSES
PASSES						

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System Report Compliance							
FC-1	FC-1	Constant Volume Air Cooled Split System < 65000 Btu/hr				No. of Units	
						1	
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	Air Conditioners Air Cooled Split System < 65000 Btu/h Cooling Capacity	33510	14.00	13.00	8.00		PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) Split System < 65000 Btu/h Cooling Capacity	43740	8.20	8.20			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	1200	0.80	0.82			Not Required
PASSES							



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

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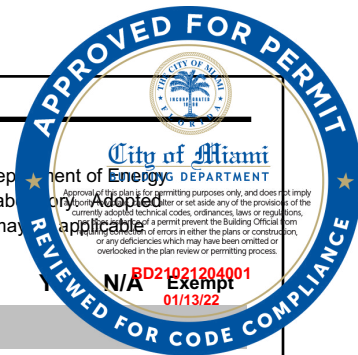
Water Heater Compliance							
Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Compliance
Water Heater 1	Electric Storage water heater	Unknown	0.92				Not Checked
							Not Checked

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Piping System Compliance								
Category	Pipe Dia [inches]	Is Runout?	Operating Temp [F]	Ins Cond [Btu-in/hr .SF.F]	Ins Thick [in]	Req Ins Thick [in]	Compliance	
Heating System (Steam, Steam Condensate, & Hot Water)	0.25	False	105.00	0.28	0.50	0.50	PASSES	
							PASSES	

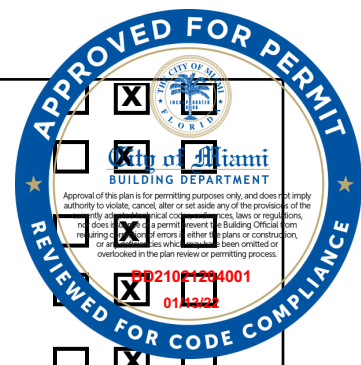
Mandatory Requirements (as applicable)

Requirements compiled by US Department of Energy and Pacific Northwest National Laboratory for FBC with permission. Not all may be applicable.



Topic	Section	Component	Description			
1. To be checked by Designer or Engineer						
Insulation	5.8.1.2	Envelope	Below-grade wall insulation installed per manufacturer's instructions.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.2	Envelope	Slab edge insulation installed per manufacturer's instructions.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.5.3.5	Envelope	Slab edge insulation depth/length.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	6.4.4.1.5	Envelope	Bottom surface of floor structures incorporating radiant heating insulated to >=R-3.5.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.1, 6.5.1.1, 6.5.1.3, 6.5.1.4	Mechanical	Air economizers provided where required (and not exempted), 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 operation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.1, 6.5.1.2, 6.5.1.2.1, 6.5.1.3	Mechanical	Water economizers provided where required, meet the requirements for design capacity, maximum pressure drop and integrated economizer control. Capable if providing 100% of the expected system cooling load when outdoor air <= 50F.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.1.5	Mechanical	Economizer operation will not increase heating energy use during normal operation.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.2.2.1	Mechanical	Three-pipe hydronic systems using a common return for hot and chilled water are not used.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.2.2.3	Mechanical	Hydronic heat pump systems connected to a common water loop meet heat rejection and heat addition requirements.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.1.6	Mechanical	Water economizer specified on hydronic cooling and humidification systems designed to maintain inside humidity at >35 °F dewpoint if an economizer is required.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.3.1.1	Mechanical	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.3.1.2	Mechanical	HVAC fan motors not larger than the first available motor size greater than the bhp.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.6.1	Mechanical	Exhaust air energy recovery on systems meeting Tables 6.5.6.1-1, and 6.5.6.1-2.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.4.2	Mechanical	Service water heating equipment meets efficiency requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.5.2	Mechanical	Service water heating equipment used for space heating complies with the service water heating equipment requirements.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.2	Envelope	Above-grade wall insulation installed per manufacturer's instructions.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.2	Envelope	Floor insulation installed per manufacturer's instructions.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	10.4.3	Mechanical	Elevators are designed with the proper lighting, ventilation power, and standby mode.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7a	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=40.2 gpm/hp .	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7b	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=20.0 gpm/hp.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7c	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=16.1 gpm/hp.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

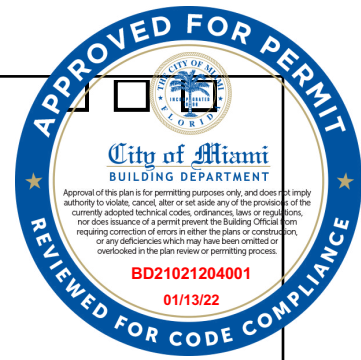
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7d	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement ≥ 7.0 gpm/hp	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.5.3	Mechanical	Centrifugal fan open-circuit cooling towers having combined rated capacity ≥ 1100 gpm meets minimum efficiency requirement: ≥ 38.2 gpm/hp.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7e	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement ≥ 176 kBtu/h-hp	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7f	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement ≥ 157 kBtu/h-hp w/ R-507A test fluid.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7g	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement ≥ 134 kBtu/h-hp w/ Ammonia test fluid..	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7h	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement ≥ 135 kBtu/h-hp w/ R-507A test fluid.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.1.1, 6.8.1-7i	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement ≥ 110 kBtu/h-hp w/ Ammonia test fluid.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.5.3	Mechanical	Gas-fired water-heating equipment installed in new buildings: where a singular piece of water-heating equipment $\geq 1,000$ kBtu/h serves the entire building, thermal efficiency must be ≥ 90 Et. Where multiple pieces of water-heating equipment serve the building with combined rating is $\geq 1,000$ kBtu/h, the combined input-capacity-weighted-average thermal efficiency, thermal efficiency must be ≥ 90 Et. Exclude input rating of equipment in individual dwelling units and equipment ≤ 100 kBtu/h.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.3.2.4	Mechanical	Return and relief fans used to meet Section 6.5.1.1.5 have relief air rate controlled to maintain building pressure through differential supply-return airflow tracking. Systems with supply fans allowed to control the relief system based on outdoor air damper position. Fans have variable speed control or other devices for managing total return/relief fan system demand per section threshold.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.2.6	Mechanical	Units that provide ventilation air to multiple zones and operate in conjunction with zone heating and cooling systems are prevented from using heating or heat recovery to warm supply air above 60°F when representative building loads or outdoor air temperature indicate that most zones demand cooling.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.4.7	Mechanical	Chilled-water cooling coils provide a 15°F or higher temperature difference between leaving and entering water temperatures and a minimum of 57°F leaving water temperature at design conditions	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.3.4	Mechanical	Parallel-flow fan-powered VAV air terminals have automatic controls to a) turn off the terminal fan except when space heating is required or if required for ventilation; b) turn on the terminal fan as the first stage of heating before the heating coil is activated; and c) during heating for warmup or setback temperature control, either operate the terminal fan and heating coil without primary air or reverse the terminal damper logic and provide heating from the central air handler through primary air.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>





SYSTEM_SPECIFIC	6.5.3.7	Mechanical	Required minimum outdoor air rate is the larger of minimum outdoor air rate or minimum exhaust air rate required by Standard 62.1, Standard 170, or applicable codes or accreditation standards. Outdoor air ventilation systems shall comply with one of the following: a) design minimum system outdoor air provided < 135% of the required minimum outdoor air rate, b) dampers, ductwork, and controls allow the system to supply <= the required minimum outdoor air rate with a single set-point adjustment., or c) system includes exhaust air energy recovery complying with Section 6.5.6.1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.8.1-15, 6.8.1-16	Mechanical	Electrically operated DX-DOAS units meet requirements per Tables 6.8.1-15 or 6.8.1-16.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. To be checked by Plan Reviewer						
Plan Review	4.2.2, 5.4.3.1.1, 5.7	Envelope	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan Review	4.2.2, 6.4.4.2.1, 6.7.2	Mechanical	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 acceptable engineering standards and handbooks.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan Review	4.2.2, 7.7.1, 10.4.2	Mechanical	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 manufacturer's sizing guide.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan Review	4.2.2, 8.4.1.1, 8.4.1.2, 8.7	Project	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan Review	4.2.2, 9.4.3, 9.7	Interior Lighting	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. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan Review	9.7	Exterior Lighting	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. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.7.3	Envelope	Insulation in contact with the ground has <=0.3% water absorption rate per ASTM C272.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Leakage	5.4.3.4	Envelope	Vestibules are installed where building entrances separate conditioned space from the exterior, and meet exterior envelope requirements. Doors have self-closing devices, and are >=7 ft apart (>= 16 ft apart for adjoining floor area >= 40000 sq.ft.). Vestibule floor area <=7 50 sq.ft. or 2 percent of the adjoining conditioned floor area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

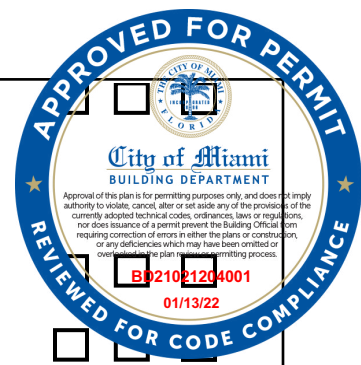
Plan Review	5.5.4.2.3	Envelope	In buildings > 2,500 ft2, any enclosed spaces directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage (including nonrefrigerated warehouse), gymnasium, fitness/exercise area, playing area, gymnasium seating area, convention exhibit/event space, courtroom, automotive service, fire station engine room, manufacturing corridor/transition and bay areas, retail, library reading and stack areas, distribution/sorting area, transportation baggage and seating areas, or workshop, the following requirements apply: The daylight zone under skylights is \geq half the floor area and (a) the skylight area to daylight zone is \geq 3 percent with a skylight VT \geq 0.40 or (b) the minimum skylight effective aperture \geq 1 percent. The skylights have a measured haze value > 90 percent.	<input type="checkbox"/>
Plan Review	5.5.4.2.3	Envelope	In buildings > 2,500 ft2, any enclosed spaces directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage (including nonrefrigerated warehouse), gymnasium, fitness/exercise area, playing area, gymnasium seating area, convention exhibit/event space, courtroom, automotive service, fire station engine room, manufacturing corridor/transition and bay areas, retail, library reading and stack areas, distribution/sorting area, transportation baggage and seating areas, or workshop, the following requirements apply: The daylight zone under skylights is \geq half the floor area and (a) the skylight area to daylight zone is \geq 3 percent with a skylight VT \geq 0.40 or (b) the minimum skylight effective aperture \geq 1 percent. The skylights have a measured haze value > 90 percent.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Plan Review	5.5.4.2.3	Envelope	In buildings > 2,500 ft2, any enclosed spaces directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage (including nonrefrigerated warehouse), gymnasium, fitness/exercise area, playing area, gymnasium seating area, convention exhibit/event space, courtroom, automotive service, fire station engine room, manufacturing corridor/transition and bay areas, retail, library reading and stack areas, distribution/sorting area, transportation baggage and seating areas, or workshop, the following requirements apply: The daylight zone under skylights is \geq half the floor area and (a) the skylight area to daylight zone is \geq 3 percent with a skylight VT \geq 0.40 or (b) the minimum skylight effective aperture \geq 1 percent. The skylights have a measured haze value > 90 percent.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Plan Review	5.5.4.2.3	Envelope	In buildings > 2,500 ft2, any enclosed spaces directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage (including nonrefrigerated warehouse), gymnasium, fitness/exercise area, playing area, gymnasium seating area, convention exhibit/event space, courtroom, automotive service, fire station engine room, manufacturing corridor/transition and bay areas, retail, library reading and stack areas, distribution/sorting area, transportation baggage and seating areas, or workshop, the following requirements apply: The daylight zone under skylights is \geq half the floor area and (a) the skylight area to daylight zone is \geq 3 percent with a skylight VT \geq 0.40 or (b) the minimum skylight effective aperture \geq 1 percent. The skylights have a measured haze value > 90 percent.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

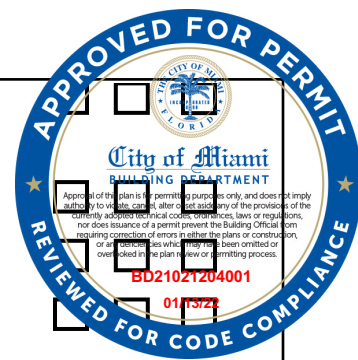




Plan Review	5.5.4.2.3	Envelope	In buildings > 2,500 ft2, any enclosed spaces directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage (including nonrefrigerated warehouse), gymnasium, fitness/exercise area, playing area, gymnasium seating area, convention exhibit/event space, courtroom, automotive service, fire station engine room, manufacturing corridor/transition and bay areas, retail, library reading and stack areas, distribution/sorting area, transportation baggage and seating areas, or workshop, the following requirements apply: The daylight zone under skylights is \geq half the floor area and (a) the skylight area to daylight zone is \geq 3 percent with a skylight VT \geq 0.40 or (b) the minimum skylight effective aperture \geq 1 percent. The skylights have a measured haze value > 90 percent.	<input type="checkbox"/>
Plan Review	5.5.4.2.3	Envelope	In buildings > 2,500 ft2, any enclosed spaces directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage (including nonrefrigerated warehouse), gymnasium, fitness/exercise area, playing area, gymnasium seating area, convention exhibit/event space, courtroom, automotive service, fire station engine room, manufacturing corridor/transition and bay areas, retail, library reading and stack areas, distribution/sorting area, transportation baggage and seating areas, or workshop, the following requirements apply: The daylight zone under skylights is \geq half the floor area and (a) the skylight area to daylight zone is \geq 3 percent with a skylight VT \geq 0.40 or (b) the minimum skylight effective aperture \geq 1 percent. The skylights have a measured haze value > 90 percent.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
HVAC	6.4.3.4.4	Mechanical	Ventilation fans >0.75 hp have automatic controls to shut off fan when not required.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
HVAC	6.4.3.8	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.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
HVAC	6.4.4.1.4	Mechanical	Thermally ineffective panel surfaces of sensible heating panels have insulation \geq R-3.5.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
HVAC	6.5.2.3	Mechanical	Dehumidification controls provided to prevent reheating, recooling, mixing of hot and cold airstreams or concurrent heating and cooling of the same airstream.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.3.1.3	Mechanical	Fans have efficiency grade (FEG) \geq 67. The total efficiency of the fan at the design point of operation \leq 15% of maximum total efficiency of the fan.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.3.6	Mechanical	Motors for fans \geq 1/12 hp and < 1 hp are electronically-commutated motors or have a minimum motor efficiency of 70%. These motors are also speed adjustable for either balancing or remote control.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.3.10	Mechanical	DDC system installed and capable of and configured to provide control logic including monitoring zone and system demand for fan pressure, pump pressure, heating, and cooling; transferring zone and system demand information from zones to air distribution system controllers and from air distribution systems to heating and cooling plant controllers; automatically detecting and alerting system operator when zones and systems excessively drive the reset logic; allow operator removal of zone(s) from the reset algorithm; AND capable of trending and graphically displaying input and output points.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

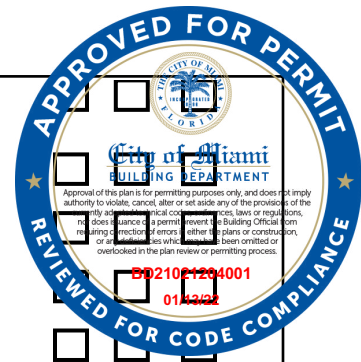
SYSTEM_SPECIFIC	6.5.3.2.3	Mechanical	Reset static pressure setpoint for DDC controlled VAV boxes reporting to central controller based on the zones requiring the most pressure. Controls provide: zone damper monitoring or indicator of static pressure need; autodetection, alarm, and operator override of zones excessively triggering reset logic.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.3.3	Mechanical	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.3.5	Mechanical	Multiple zone HVAC systems have supply air temperature reset controls.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.4.1	Mechanical	System turndown requirement met through multiple single-input boilers, one or more modulating boilers, or a combination of single-input and modulating boilers. Boiler input between 1.0 MBtu/h and 5 MBtu/h has 3:1 turndown ratio, boiler input between 5.0 MBtu/h and 10 MBtu/h has 4:1 turndown ratio, boiler input > 10.0 MBtu/h has 5:1 turndown ratio.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.4.2	Mechanical	HVAC pumping systems with >= 3 control values designed for variable fluid flow (see section details).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.4.3, 6.5.4.3.1, 6.5.4.3.2	Mechanical	Fluid flow shutdown in pumping systems to multiple chillers or boilers when systems are shut down.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.4.4	Mechanical	Temperature reset by representative building loads in pumping systems >10 hp for chiller and boiler systems >300,000 Btu/h.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.4.5.1	Mechanical	Two-position automatic valve interlocked to shut off water flow when hydronic heat pump with pumping system >10 hp is off.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.4.5.2	Mechanical	Hydronic heat pumps and water-cooled unitary air conditioners with pump systems >5 hp have controls or devices to reduce pump motor demand.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.5.2.1	Mechanical	Fan systems with motors or array of motors (including the motor service factor) with connected power totaling >=5 hp associated with heat rejection equipment to have controls and/or devices that result in fanmotor demand of <= 30% of design wattage at 50% of design airflow and automatically modulates fan speed to control the leaving fluid temperature or condensing temp/pressure of heat rejection device.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.5.2.2	Mechanical	Multicell heat rejection equipment with variable-speed fan drives installed that operate the maximum number of fans allowed that comply with manufacturers specs and control all fans to the same fan speed required for the instantaneous cooling duty.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.7.1	Mechanical	Conditioned supply air to space with mechanical exhaust <= the greater of criteria of supply flow, required ventilation rate, exhaust flow minus the available transfer air (see section details).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.7.2.1	Mechanical	Kitchen hoods >5,000 cfm have make up air >=50% of exhaust air volume.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.7.2.2	Mechanical	Kitchen hoods with a total exhaust airflow rate >5000 cfm meet replacement air, ventilation system, or energy recovery requirements shown in Table 6.5.7.1.3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.7.2.3	Mechanical	Kitchen hoods with a total exhaust airflow rate >5000 cfm meet replacement air, ventilation system, or energy recovery requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.7.2	Mechanical	Fume hoods exhaust systems >=5,000 cfm have VAV hood exhaust and supply systems, direct make-up air or heat recovery.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.8.1	Mechanical	Unenclosed spaces that are heated use only radiant heat.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



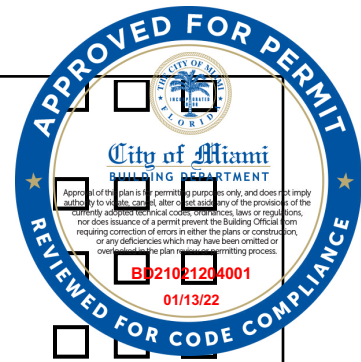


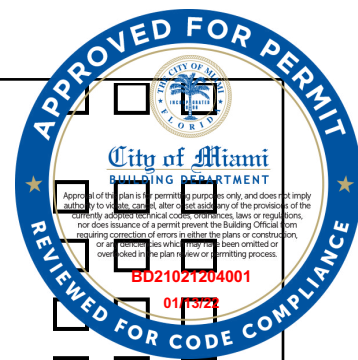
SYSTEM_SPECIFIC	7.5.1	Mechanical	Combined space and water heating system not allowed unless standby loss less than calculated maximum. AHJ has approved or combined connected load <150 kBtu/h.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Equipment	10.4.1	Mechanical	Electric motors meet requirements where applicable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.3.3.2	Mechanical	Setback controls allow automatic restart and temporary operation as required for maintenance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.3.3.3	Mechanical	Systems with setback controls and DDC include optimum start controls. Optimum start algorithm considers mass radiant slab floor temperature.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.3.3.4	Mechanical	Zone isolation devices and controls.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wattage	9.4.2	Exterior Lighting	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	9.4.1.4d	Exterior Lighting	Outdoor parking area luminaires $\geq 78W$ and ≤ 24 ft height controlled to reduce wattage by 50% when area unoccupied over 15 minutes. Controlled power limited to $\leq 1500W$.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	9.4.1.2a	Interior Lighting	Parking garage lighting is equipped with automatic shutoff controls per Section 9.4.1.1(i).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	9.4.1.2b	Interior Lighting	Parking garage luminaire power is automatically reduced by $\geq 30\%$ when zone < 3600 ft ² has no occupancy after 20 minutes.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	9.4.1.2c	Interior Lighting	Parking garage luminaires in or around covered entrances/exits between building and garage automatically reduced by $\geq 50\%$ from sunset to sunrise.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	9.4.1.2d	Interior Lighting	Parking garage: Power to luminaires ≤ 20 ft of any perimeter wall that has a net opening-to-wall ratio $\geq 40\%$ and no exterior obstructions within 20 ft, is automatically reduced in response to daylight $\geq 50\%$.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Equipment	6.8.1-14	Mechanical	Vapor compression based indoor pool dehumidifiers (single package (indoor air/water cooled or w/out air-cooled condenser) or split system indoor air-cooled) have a minimum 3.5 MRE efficiency rating.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	6.4.3.3.5	Mechanical	Hotels/motel w/ > 50 guest rooms have automatic controls for the HVAC equipment serving each room configured per Section 6.4.3.3.5 subsections 1-3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. To be checked by Inspector						
Insulation	5.8.1.7	Envelope	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.3.7	Mechanical	Freeze protection and snow/ice melting system sensors for future connection to controls.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Leakage	5.4.3.1	Envelope	Continuous air barrier is wrapped, sealed, caulked, gasketed, and/or taped in an approved manner, except in semiheated spaces in climate zones 1-6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air Leakage	5.4.3.2	Envelope	Factory-built and site-assembled fenestration and doors are labeled or certified as meeting air leakage requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fenestration	5.8.2.1, 5.8.2.3, 5.8.2.4, 5.8.2.5	Envelope	Fenestration products rated (U-factor, SHGC, and VT) in accordance with NFRC or energy code defaults are used.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fenestration	5.8.2.2	Envelope	Fenestration and door products are labeled, or a signed and dated certificate listing the U-factor, SHGC, VT, and air leakage rate has been provided by the manufacturer.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.4.4.1	Mechanical	Temperature controls installed on service water heating systems ($\leq 120^\circ F$ to maximum temperature for intended use).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SYSTEM_SPECIFIC	7.4.4.2	Mechanical	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.4.6	Mechanical	Heat traps installed on non-circulating storage water tanks.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.1.4, 6.4.1.5	Mechanical	HVAC equipment efficiency verified. Non-NAECA HVAC equipment labeled as meeting 90.1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.1.5.2	Mechanical	PTAC and PTHP with sleeves 16 in. by 42 in. labeled for replacement only.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.3.4.1	Mechanical	Stair and elevator shaft vents have motorized dampers that automatically close.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.3.4.2, 6.4.3.4.3	Mechanical	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.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.3.4.5	Mechanical	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.3.2.1	Mechanical	DX cooling systems ≥ 75 kBtu/h (≥ 65 kBtu/h effective 1/2016) and chilled-water and evaporative cooling fan motor hp $\geq \frac{1}{4}$ designed to vary supply fan airflow as a function of load and comply with operational requirements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.4.1.1	Mechanical	Insulation exposed to weather protected from damage. Insulation outside of the conditioned space and associated with cooling systems is vapor retardant.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.4.1.2	Mechanical	HVAC ducts and plenums insulated per Table 6.8.2. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.4.1.3	Mechanical	HVAC piping insulation thickness. Where piping is installed in or under a slab, verification may need to occur during Foundation Inspection.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.4.2.1	Mechanical	Ducts and plenums having pressure class ratings are Seal Class A construction.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.4.2.2	Mechanical	Ductwork operating >3 in. water column requires air leakage testing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.2.1	Mechanical	Zone controls can limit reheating, recooling, simultaneous heating and cooling and sequence heating and cooling to each zone.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.3.11.1	Mechanical	Electric motor driven chilled-water plants have measurement devices installed and measure the electricity use and efficiency	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.3.11.2	Mechanical	Electricity use and efficiency are trended every 15 minutes and graphically displayed, including hourly, daily, monthly, and annual data. Data are preserved for 36 months or more.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.2.2.2	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 temperature to ≤ 30 °F.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.2.4.1	Mechanical	Humidifiers with airstream mounted preheating jackets have preheat auto-shutoff value set to activate when humidification is not required.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.2.4.2	Mechanical	Humidification system dispersion tube hot surfaces in the airstreams of ducts or air-handling units insulated $\geq R-0.5$.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.2.5	Mechanical	Preheat coils controlled to stop heat output whenever mechanical cooling, including economizer operation, is active.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.3.2.2	Mechanical	VAV fans have static pressure sensors positioned so setpoint ≤ 1.2 in. w.c. design pressure.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.4.6	Mechanical	Chilled-water and condenser water piping sized according to design flow rate and total annual hours of operation (Table 6.5.4.6).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



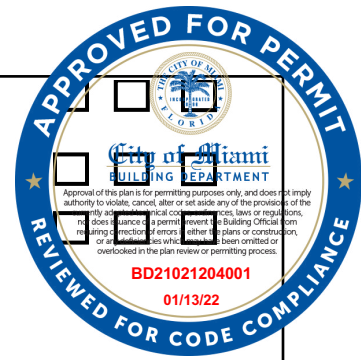
SYSTEM_SPECIFIC	6.5.6.2	Mechanical	Condenser heat recovery system that can heat water to 85 °F or provide 60% of peak heat rejection is installed for preheating of service hot water.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.5.7.2.4	Mechanical	Approved field test used to evaluate design air flow rates and demonstrate proper capture and containment of kitchen exhaust systems.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.5.9	Mechanical	Hot gas bypass limited to: <=240 kBtu/h – 15% >240 kBtu/h – 10%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.3.9	Mechanical	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	6.5.10	Mechanical	Doors separating conditioned space from the outdoors have controls that disable/reset heating and cooling system when open.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	9.4.1.1 except(g)	Interior Lighting	Automatic control requirements prescribed in Table 9.6.1, for the appropriate space type, are installed. Mandatory lighting controls (labeled as 'REQ') and optional choice controls (labeled as 'ADD1' and 'ADD2') are implemented.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	9.4.1.1 except(g)	Interior Lighting	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	9.4.1.1f	Interior Lighting	Daylight areas under skylights and roof monitors that have more than 150 W combined input power for general lighting are controlled by photocontrols.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	9.4.1.4	Exterior Lighting	Automatic lighting controls for exterior lighting installed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controls	9.4.1.3	Interior Lighting	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wattage	9.6.2	Interior Lighting	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wattage	9.6.4	Interior Lighting	Where space LPD requirements are adjusted based on room cavity ratios, dimensions are consistent with approved plans.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	4.2.4	Envelope	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.2, 5.8.1.3	Envelope	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the ceiling slope is <= 3:12.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.1	Envelope	Building envelope insulation is labeled with R-value or insulation certificate has been provided listing R-value and other relevant data.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.9	Envelope	Building envelope insulation extends over the full area of the component at the proposed rated R or U value.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.4	Envelope	Eaves are baffled to deflect air to above the insulation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.5	Envelope	Insulation is installed in substantial contact with the inside surface separating conditioned space from unconditional space.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.6	Envelope	Recessed equipment installed in building envelope assemblies does not compress the adjacent insulation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.7.1	Envelope	Attics and mechanical rooms have insulation protected where adjacent to attic or equipment access.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insulation	5.8.1.7.2	Envelope	Foundation vents do not interfere with insulation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>





Insulation	5.8.1.8	Envelope	Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.3.1.1	Mechanical	Heating and cooling to each zone is controlled by a thermostat control.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.3.1.2	Mechanical	Thermostatic controls have a 5 °F deadband.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.3.2	Mechanical	Temperature controls have setpoint overlap restrictions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.3.3.1	Mechanical	HVAC systems equipped with at least one automatic shutdown control.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.3.5	Mechanical	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	6.4.3.12	Mechanical	Air economizer has a fault detection and diagnostics (FDD) system (see details for configuration and operational requirements).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HVAC	6.4.3.6	Mechanical	When humidification and dehumidification are provided to a zone, simultaneous operation is prohibited. Humidity control prohibits the use of fossil fuel or electricity to produce RH > 30% in the warmest zone humidified and RH < 60% in the coldest zone dehumidified.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.4.4.3	Mechanical	Public lavatory faucet water temperature <=110°F.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.4.4.4	Mechanical	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.4.5.1	Mechanical	Pool heaters are equipped with on/off switch and no continuously burning pilot light.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.4.5.2	Mechanical	Pool covers are provided for heated pools and pools heated to >90°F have a cover >=R-12.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.4.5.3	Mechanical	Time switches are installed on all pool heaters and pumps.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wattage	9.2.2.3	Interior 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.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.4.3	Mechanical	All piping in recirculating system insulated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.4.3	Mechanical	First 8 ft of outlet piping in nonrecirculating storage system, or branch piping connected to recirculated, heat traced, or impedance heated piping is insulated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SYSTEM_SPECIFIC	7.4.3	Mechanical	All heat traced or externally heated piping insulated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wattage	9.4.4	Interior Lighting	At least 75% of all permanently installed lighting fixtures in dwelling units have >= 55 lm/W efficacy or a >= 45 lm/W total luminaire efficacy.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. To be checked by Inspector at Project Completion and Prior to Issuance of Certificate of Occupancy						
Plan Review	6.7.2.4	Mechanical	Detailed instructions for HVAC systems commissioning included on the plans or specifications for projects >=50,000 ft2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan Review	6.7.2.4	Mechanical	Detailed instructions for HVAC systems commissioning included on the plans or specifications for projects >=50,000 ft2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Post Construction	6.7.2.1	Mechanical	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Post Construction	6.7.2.2	Mechanical	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Post Construction	6.7.2.3	Mechanical	An air and/or hydronic system balancing report is provided for HVAC systems serving zones >5,000 ft2 of conditioned area.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

HVAC	6.7.2.4	Mechanical	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.
Post Construction	8.7.1	Interior Lighting	Furnished as-built drawings for electric power systems within 30 days of system acceptance.
Post Construction	8.7.2	Interior Lighting	Furnished O&M instructions for systems and equipment to the building owner or designated representative.





EnergyGauge Summit® v7.00
INPUT DATA REPORT

Project Information

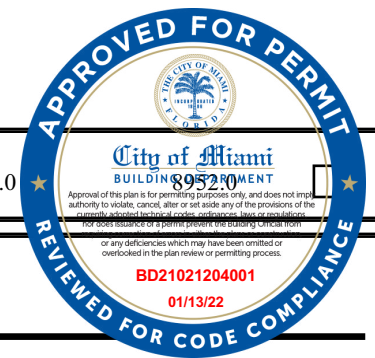
Project Name: SPA	Orientation: 0 Deg Clockwise. Walls & Windows will be rotated accordingly
Project Title: Quantum on Bay Spa	Building Type: Healthcare-Clinic
Address: Quantum on the Bay 1900 North Bayshore Drive	Building Classification: Renovation to existing building
State: FL	No.of Stories: 1
Zip: 0	GrossArea: 746 SF
Owner:	

Zones

No	Acronym	Description	Type	Area [sf]	Multiplier	Total Area [sf]	
1	SPA	SPA	CONDITIONED	746.0	1	746.0	<input type="checkbox"/>

Spaces

No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Multi plier	Total Area [sf]	Total Volume [cf]
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In Zone:	SPA											
	1	SPA	SPA	Physical Therapy (Hospital)	29.84	25.00	12.00	1	746.0			

Lighting

No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No. of Ctrl pts		
In Zone:	SPA								
In Space:	SPA								
	1	Recessed Fluorescent - No vent	General Lighting	6	15	90	Manual On/Off	2	<input type="checkbox"/>

Walls (Walls will be rotated clockwise by building rotation value)

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Orientation	Conductance [Btu/hr. sf. F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone:	SPA											
1	N WALL	5/8" stucco /8"CMU/3/4"ISO BTWN24"oc/.5" Gyp	35.00	12.00	1	420.0	North	0.2067	5.731	34.65	4.8	<input type="checkbox"/>
2	E WALL	5/8" stucco /8"CMU/3/4"ISO BTWN24"oc/.5" Gyp	19.00	12.00	1	228.0	East	0.2067	5.731	34.65	4.8	<input type="checkbox"/>
3	SE WALL	5/8" stucco /8"CMU/3/4"ISO BTWN24"oc/.5" Gyp	13.00	12.00	1	156.0	SouthEast	0.2067	5.731	34.65	4.8	<input type="checkbox"/>

Windows (Windows will be rotated clockwise by building rotation value)

No	Description	Orientation	Shaded	U [Btu/hr sf F]	SHGC	Vis.Tra	W [ft]	H (Effec) [ft]	Multi plier	Total Area [sf]
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In Zone:
In Wall:

Doors

No	Description	Type	Shaded?	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Dens. [lb/cf]	Heat Cap. [Btu/sf. F]	R-Value [h.sf.F/Btu]
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In Zone:
In Wall:

Roofs

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg]	Cond. [Btu/hr. Sf. F]	Heat Cap [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]
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In Zone:

Skylights

No	Description	Type	U [Btu/hr sf F]	SHGC	Vis.Trans	W [ft]	H (Effec) [ft]	Multiplier	Area [Sf]	Total Area [Sf]
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In Zone:
In Roof:

Floors

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Heat Cap. [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]
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In Zone: SPA



1	FLOOR	1 ft. soil, concrete floor, carpet and rubber pad	25.00	29.84	1	746.0	0.2681	34.00	11	3
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Systems

FC-1	FC-1	Constant Volume Air Cooled Split System < 65000 Btu/hr					No. Of Units	1
Component	Category	Capacity	Efficiency	IPLV				
1	Cooling System	33510.00	14.00	8.00			<input type="checkbox"/>	
2	Heating System	43740.00	8.20				<input type="checkbox"/>	
3	Air Handling System -Supply	1200.00	0.80				<input type="checkbox"/>	

Plant

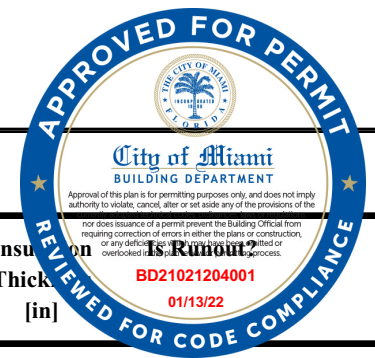
Equipment	Category	Size	Inst.No	Eff.	IPLV	
						<input type="checkbox"/>

Water Heaters

W-Heater Description	Capacity Cap.Unit	I/P Rt.	Efficiency	Loss	
1 Electric Storage water heater	3 [Gal]	8 [kW]	0.9200 [Ef]	[Btu/h]	<input type="checkbox"/>

Ext-Lighting

Description	Category	No. of Luminaires	Watts per Luminaire	Area/Len/No. of units [sf/ft/No]	Control Type	Wattage [W]
						<input type="checkbox"/>



Piping							
No	Type	Operating Temperature [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Insulation	
1	Heating System (Steam, Steam Condensate, & Hot Water)	105.00	0.28	0.25	0.50	No	<input type="checkbox"/>

Fenestration Used					
Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SHGC	VLT

Materials Used									
Mat No	Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thickness [ft]	Conductivity [Btu/h.ft.F]	Density [lb/cf]	SpecificHeat [Btu/lb.F]	
187	Mat1187	GYP OR PLAS BOARD, 1/2IN	No	0.4533	0.0417	0.0920	50.00	0.2000	<input type="checkbox"/>
178	Mat1178	CARPET W/RUBBER PAD	Yes	1.2300					<input type="checkbox"/>
265	Mat1265	Soil, 1 ft	No	2.0000	1.0000	0.5000	100.00	0.2000	<input type="checkbox"/>
48	Mat148	6 in. Heavyweight concrete	No	0.5000	0.5000	1.0000	140.00	0.2000	<input type="checkbox"/>
268	Mat1268	0.625" stucco	No	0.1302	0.0521	0.4000	16.00	0.2000	<input type="checkbox"/>
42	Mat142	8 in. Lightweight concrete block	No	2.0212	0.6670	0.3300	38.00	0.2000	<input type="checkbox"/>
269	Mat1269	.75" ISO BTWN24" oc	No	2.2321	0.0625	0.0280	4.19	0.3000	<input type="checkbox"/>

Constructs Used



No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.s.f.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.s.f.F/Btu]	
1011	5/8" stucco /8"CMU/3/4"ISO BTWN24"oc/.5" Gyp	No	No	0.21	5.73			<input type="checkbox"/>
	Layer	Material No.	Material	Thickness [ft]	Framing Factor			
	1	268	0.625" stucco	0.0521	0.000			<input type="checkbox"/>
	2	42	8 in. Lightweight concrete block	0.6670	0.000			<input type="checkbox"/>
	3	269	.75" ISO BTWN24" oc	0.0625	0.000			<input type="checkbox"/>
	4	187	GYP OR PLAS BOARD,1/2IN	0.0417	0.000			<input type="checkbox"/>
No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.s.f.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.s.f.F/Btu]	
1057	1 ft. soil, concrete floor, carpet and rubber pad	No	No	0.27	34.00	113.33	3.7	<input type="checkbox"/>
	Layer	Material No.	Material	Thickness [ft]	Framing Factor			
	1	265	Soil, 1 ft	1.0000	0.000			<input type="checkbox"/>
	2	48	6 in. Heavyweight concrete	0.5000	0.000			<input type="checkbox"/>
	3	178	CARPET W/RUBBER PAD		0.000			<input type="checkbox"/>

Profiles



0	0	No Classification	No Classification	
	201	People	2	Fractional Null Schedule
	202	Lighting	2	Fractional Null Schedule
	203	Infiltration	2	Fractional Null Schedule
	204	Equipment	2	Fractional Null Schedule
	205	Sources	2	Fractional Null Schedule
	206	HeatTemp	202	Set Point 55
	207	CoolTemp	201	Set Point 99
	208	Hot Water Schedule	2	Fractional Null Schedule
	1,001	Heating Schedule	1	ON-OFF Null Schedule
	1,002	Cooling Schedule	1	ON-OFF Null Schedule
	1,003	Fan Operation Schedule	1	ON-OFF Null Schedule
501	501	ACM-NonRes	ACM Nonres	
	201	People	519	ACM Nonres People
	202	Lighting	507	ACM Nonres Lights
	203	Infiltration	516	ACM Nonres Infiltration
	204	Equipment	510	ACM Nonres Equipment
	205	Sources	2	Fractional Null Schedule
	206	HeatTemp	501	ACM Nonres Heating
	207	CoolTemp	504	ACM Nonres Cooling
	208	Hot Water Schedule	522	ACM Nonres Hot Water
	1,001	Heating Schedule	410	Always ON
	1,002	Cooling Schedule	410	Always ON
	1,003	Fan Operation Schedule	513	ACM Nonres Fans

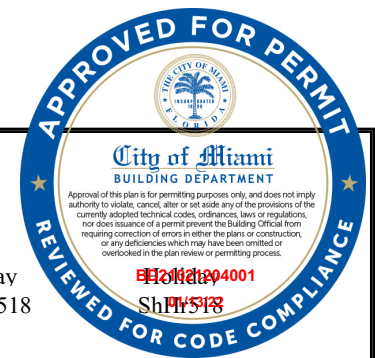
Schedules



1	1	On/Off	ON-OFF Null Schedule						
Hourly Sch. for: 12/31/1989	Monday ShHr1	Tuesday ShHr1	Wednesday ShHr1	Thursday ShHr1	Friday ShHr1	Saturday ShHr1	Sunday ShHr1	Holiday ShHr1	
2	2	Fraction	Fractional Null Schedule						
Hourly Sch. for: 12/31/1989	Monday ShHr2	Tuesday ShHr2	Wednesday ShHr2	Thursday ShHr2	Friday ShHr2	Saturday ShHr2	Sunday ShHr2	Holiday ShHr2	
44	44	Absolute	SetPt78						
Hourly Sch. for: 12/31/1989	Monday ShHr179	Tuesday ShHr179	Wednesday ShHr179	Thursday ShHr179	Friday ShHr179	Saturday ShHr179	Sunday ShHr179	Holiday ShHr179	
45	45	Absolute	Set Point 70						
Hourly Sch. for: 12/31/1989	Monday ShHr180	Tuesday ShHr180	Wednesday ShHr180	Thursday ShHr180	Friday ShHr180	Saturday ShHr180	Sunday ShHr180	Holiday ShHr180	
201	201	Absolute	Set Point 99						
Hourly Sch. for: 12/31/1989	Monday ShHr201	Tuesday ShHr201	Wednesday ShHr201	Thursday ShHr201	Friday ShHr201	Saturday ShHr201	Sunday ShHr201	Holiday ShHr201	
202	202	Absolute	Set Point 55						
Hourly Sch. for: 12/31/1989	Monday ShHr202	Tuesday ShHr202	Wednesday ShHr202	Thursday ShHr202	Friday ShHr202	Saturday ShHr202	Sunday ShHr202	Holiday ShHr202	



410	410	On/Off	Always ON						
Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	
12/31/1989	ShHr410	ShHr410	ShHr410	ShHr410	ShHr410	ShHr410	ShHr410	ShHr410	
412	412	Absolute	Florida Commercial Electric Rate						
Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	
3/31/1989	ShHr413	ShHr413	ShHr413	ShHr413	ShHr413	ShHr415	ShHr415	ShHr415	
10/31/1989	ShHr412	ShHr412	ShHr412	ShHr412	ShHr412	ShHr412	ShHr414	ShHr414	
12/31/1989	ShHr413	ShHr413	ShHr413	ShHr413	ShHr413	ShHr415	ShHr415	ShHr415	
501	501	Absolute	ACM Nonres Heating						
Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	
12/31/1989	ShHr501	ShHr501	ShHr501	ShHr501	ShHr501	ShHr502	ShHr503	ShHr503	
504	504	Absolute	ACM Nonres Cooling						
Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	
12/31/1989	ShHr504	ShHr504	ShHr504	ShHr504	ShHr504	ShHr505	ShHr506	ShHr506	
507	507	Fraction	ACM Nonres Lights						
Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	
12/31/1989	ShHr507	ShHr507	ShHr507	ShHr507	ShHr507	ShHr508	ShHr509	ShHr509	
510	510	Fraction	ACM Nonres Equipment						
Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	
12/31/1989	ShHr510	ShHr510	ShHr510	ShHr510	ShHr510	ShHr511	ShHr512	ShHr512	
513	513	On/Off	ACM Nonres Fans						
Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday	
12/31/1989	ShHr513	ShHr513	ShHr513	ShHr513	ShHr513	ShHr514	ShHr515	ShHr515	



516	516	Fraction	ACM Nonres Infiltration						
Hourly Sch. for: 12/31/1989	Monday ShHr516	Tuesday ShHr516	Wednesday ShHr516	Thursday ShHr516	Friday ShHr516	Saturday ShHr517	Sunday ShHr518		
519	519	Fraction	ACM Nonres People						
Hourly Sch. for: 12/31/1989	Monday ShHr519	Tuesday ShHr519	Wednesday ShHr519	Thursday ShHr519	Friday ShHr519	Saturday ShHr520	Sunday ShHr521	Holiday ShHr521	
522	522	Fraction	ACM Nonres Hot Water						
Hourly Sch. for: 12/31/1989	Monday ShHr522	Tuesday ShHr522	Wednesday ShHr522	Thursday ShHr522	Friday ShHr522	Saturday ShHr523	Sunday ShHr524	Holiday ShHr524	
1,001	1,001	Absolute	Absolute null schedule						
Hourly Sch. for: 12/31/1989	Monday ShHr10001	Tuesday ShHr10001	Wednesday ShHr10001	Thursday ShHr10001	Friday ShHr10001	Saturday ShHr10001	Sunday ShHr10001	Holiday ShHr10001	
1,002	1,002	Absolute	Absolute null schedule						
Hourly Sch. for: 12/31/1989	Monday ShHr10002	Tuesday ShHr10002	Wednesday ShHr10002	Thursday ShHr10002	Friday ShHr10002	Saturday ShHr10002	Sunday ShHr10002	Holiday ShHr10002	



Hourly Schedules

Id	Acronym	Type	Values	Hours 1 thru 8								
				Hours 9 - 16	Hours 17 - 24							
1	ShHr1	On/Off	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
			On-Off Null Schedule	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
				OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
2	ShHr2	Fraction	0	0	0	0	0	0	0	0	0	
			Fraction Null Schedule	0	0	0	0	0	0	0	0	0
				0	0	0	0	0	0	0	0	0
3	ShHr3	Absolute	0	0	0	0	0	0	0	0	0	
			Absolute Null Schedule	0	0	0	0	0	0	0	0	0
				0	0	0	0	0	0	0	0	0
179	ShHr179	Absolute	78	78	78	78	78	78	78	78	78	
			Set point 78 F All Day	78	78	78	78	78	78	78	78	78
				78	78	78	78	78	78	78	78	78
180	ShHr180	Absolute	70	70	70	70	70	70	70	70	70	
			Set Point 70 F All Day	70	70	70	70	70	70	70	70	70
				70	70	70	70	70	70	70	70	70
201	ShHr201	Absolute	99	99	99	99	99	99	99	99	99	
			Set point 99	99	99	99	99	99	99	99	99	99
				99	99	99	99	99	99	99	99	99
202	ShHr202	Absolute	45	45	45	45	45	45	45	45	45	
			Set Point 55	45	45	45	45	45	45	45	45	45
				45	45	45	45	45	45	45	45	45
410	ShHr410	On/Off	ON	ON	ON	ON	ON	ON	ON	ON	ON	
			Always On schedule	ON	ON	ON	ON	ON	ON	ON	ON	ON
				ON	ON	ON	ON	ON	ON	ON	ON	ON
411	ShHr411	On/Off	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
			Always Off Schedule	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
				OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
412	ShHr412	Absolute	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	
			Florida Avg. Week Day Summer Elec	0.03804	0.03804	0.03804	0.0686	0.0686	0.0686	0.0686	0.0686	0.0686
				0.0686	0.0686	0.0686	0.0686	0.0686	0.03804	0.03804	0.03804	0.03804



413	ShHr413	Absolute	0.03804	0.03804	0.03804	0.03804	0.03804	0.0686	0.0686	0.0686
	Florida Avg. Week Day Winter Electri		0.0686	0.0686	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804
			0.03804	0.0686	0.0686	0.0686	0.0686	0.0686	0.03804	0.03804
414	ShHr414	Absolute	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804
	Florida Avg. Week End Summer Elect		0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804
			0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804
415	ShHr415	Absolute	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804
	Florida Avg. Week End Winter Electri		0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804
			0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804
501	ShHr501	Absolute	60	60	60	60	60	65	65	70
	ACM Nonres Heating Weekday		70	70	70	70	70	70	70	70
			70	70	65	60	60	60	60	60
502	ShHr502	Absolute	60	60	60	60	60	65	65	65
	ACM Nonres Heating Saturday		65	65	65	65	65	65	65	65
			60	60	60	60	60	60	60	60
503	ShHr503	Absolute	60	60	60	60	60	65	65	65
	ACM Nonres Heating Sunday		65	65	65	65	65	65	65	65
			60	60	60	60	60	60	60	60
504	ShHr504	Absolute	77	77	77	77	77	73	73	73
	ACM Nonres Cooling Weekday		73	73	73	73	73	73	73	73
			73	73	77	77	77	77	77	77
505	ShHr505	Absolute	77	77	77	77	77	73	73	73
	ACM Nonres Cooling Saturday		73	73	73	73	73	73	73	73
			73	73	77	77	77	77	77	77
506	ShHr506	Absolute	77	77	77	77	77	73	73	73
	ACM Nonres Cooling Sunday		73	73	73	73	73	73	73	73
			73	73	77	77	77	77	77	77
507	ShHr507	Fraction	0.05	0.05	0.05	0.05	0.1	0.2	0.4	0.7
	ACM Nonres Lights Weekday		0.8	0.85	0.85	0.85	0.85	0.85	0.85	0.85
			0.85	0.8	0.35	0.1	0.1	0.1	0.1	0.1
508	ShHr508	Fraction	0.05	0.05	0.05	0.05	0.05	0.1	0.15	0.25
	ACM Nonres Lights Saturday		0.25	0.25	0.25	0.25	0.25	0.25	0.2	0.2
			0.2	0.15	0.1	0.1	0.1	0.1	0.1	0.1
509	ShHr509	Fraction	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.15
	ACM Nonres Lights Sunday		0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
			0.15	0.1	0.1	0.1	0.05	0.05	0.05	0.05



510	ShHr510	Fraction	0.15	0.15	0.15	0.15	0.15	0.2	0.35	0.6
	ACM Nonres Equipment	Weekday	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
			0.65	0.45	0.3	0.2	0.2	0.15	0.15	0.15
511	ShHr511	Fraction	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.2
	ACM Nonres Equipment	Saturday	0.25	0.25	0.25	0.25	0.25	0.25	0.2	0.2
			0.2	0.15	0.15	0.15	0.15	0.15	0.15	0.15
512	ShHr512	Fraction	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.2
	ACM Nonres Equipment	Sunday	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
			0.2	0.15	0.15	0.15	0.15	0.15	0.15	0.15
513	ShHr513	On/Off	OFF	OFF	OFF	OFF	OFF	ON	ON	ON
	ACM Nonres Fans	Weekday	ON	ON	ON	ON	ON	ON	ON	ON
			ON	ON	ON	ON	OFF	OFF	OFF	OFF
514	ShHr514	On/Off	OFF	OFF	OFF	OFF	OFF	ON	ON	ON
	ACM Nonres Fans	Saturday	ON	ON	ON	ON	ON	ON	ON	OFF
			OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
515	ShHr515	On/Off	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	ACM Nonres Fans	Sunday	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
			OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
516	ShHr516	Fraction	1	1	1	1	1	0	0	0
	ACM Nonres Infiltration	Weekday	0	0	0	0	0	0	0	0
			0	0	0	0	1	1	1	1
517	ShHr517	Fraction	1	1	1	1	1	0	0	0
	ACM Nonres Infiltration	Saturday	0	0	0	0	0	0	0	1
			1	1	1	1	1	1	1	1
518	ShHr518	Fraction	1	1	1	1	1	1	1	1
	ACM Nonres Infiltration	Sunday	1	1	1	1	1	1	1	1
			1	1	1	1	1	1	1	1
519	ShHr519	Fraction	0	0	0	0	0.05	0.1	0.25	0.65
	ACM Nonres People	Weekday	0.65	0.65	0.65	0.6	0.6	0.65	0.65	0.65
			0.65	0.4	0.25	0.1	0.05	0.05	0.05	0
520	ShHr520	Fraction	0	0	0	0	0	0	0.05	0.15
	ACM Nonres People	Saturday	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
			0.15	0.05	0.05	0.05	0	0	0	0
521	ShHr521	Fraction	0	0	0	0	0	0	0	0.05
	ACM Nonres People	Sunday	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
			0.05	0.05	0.05	0.05	0	0	0	0

522	ShHr522	Fraction	0	0	0	0	0.1	0.1	0.5	0.5
ACM Nonres Hot Water Weekday			0.5	0.5	0.7	0.9	0.9	0.5	0.5	0.7
			0.5	0.5	0.5	0.1	0.1	0.1	0.1	0.1
523	ShHr523	Fraction	0	0	0	0	0	0	0.1	0.2
ACM Nonres Hot Water Saturday			0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
			0.2	0.1	0.1	0.1	0	0	0	0
524	ShHr524	Fraction	0	0	0	0	0	0	0	0.1
ACM Nonres Hot Water Sunday			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
			0.1	0.1	0.1	0.1	0	0	0	0
0,001	ShHr10001	Absolute	0	0	0	0	0	0	0	0
Absolute Null Schedule			0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
0,002	ShHr10002	Absolute	0	0	0	0	0	0	0	0
Absolute Null Schedule			0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0

