Florida Energy Efficiency Code For Building Construction Florida Department of Community Affairs FLA/COM 2004 v2.5, Effective Dec 8, 2006 -- Form 400A-2004R Method A: Whole Building Performance Method for Commercial Buildings

	PRO	JECT SUMMARY	
Short Desc:	ORTHODONTISTS OFFI	CE Description:	ORTHODONTISTS OFFICE
Owner:			
Address1:	EDGARCE ST	City:	PORT ST LUCIE
Address2:		State:	FLOIRDA
		Zip:	0
Туре:	Healthcare-Clinic	Class:	New Finished building
Jurisdiction:	FORT PIERCE, ST LUCIE	E COUNTY, FL (661100)	
Conditioned Area:	3510 SF	Conditioned & UnConditioned Area:	3510 SF
No of Stories:	1	Area entered from Plans	0 SF
Permit No:	0	Max Tonnage	5
		If different, write in:	

Component Gross Energy Cost	Design	Criteria	
Grags Energy Cost		Cinteria	Result
Closs Energy Cost	1,918.4	2,794.9	PASSES
LIGHTING CONTROLS			PASSES
EXTERNAL LIGHTING			PASSES
HVAC SYSTEM			PASSES
PLANT			No Entry
WATER HEATING SYSTEMS			PASSES
PIPING SYSTEMS			PASSES
Met all required compliance from Check List?			Yes/No/NA

CERTIFICATIONS								
I hereby certify that the plans Florida Energy Code	and specifications covere	d by this calculation are in co	ompliance with the					
Prepared By:	JAMES T WAMSLEY	Building Official:						
Date:		Date:						
I certify that this building is in a	compliance with the FLori	da Energy Efficiency Code						
Owner Agent:		Date:						
If Required by Florida law, I he Energy Efficiency Code	ereby certify (*) that the sy	/stem design is in complianc	e with the FLorida					
Architect:		Reg No:						
Electrical Designer:	STEPHEN B COTTON	Reg No:	60046					
Lighting Designer:	STEPHEN B COTTON	Reg No:	60046					
Mechanical Designer:	JAMES T WAMSLEY	Reg No:	50343					
Plumbing Designer:	JAMES T WAMSLEY	Reg No:	50343					
(*) Signature is required whe professionals. Typed names a contained on signed/sealed pl	ind registration numbers r							

ject: ORTHODONTISTS OFFICE le: ORTHODONTISTS OFFICE le: Healthcare-Clinic		
EA File: DAYTONABEACH.TMY) Buildin	g End Uses	
	Design	Reference
otal	122.50	177.20
	\$1,918	\$2,795
ELECTRICITY(MBtu/kWh/\$)	122.50 35858 \$1,918	177.20 51854 \$2,795
AREA LIGHTS	42.50 12452 \$666	48.10 14106 <i>\$760</i>
MISC EQUIPMT	21.50 6298 \$ <i>337</i>	21.50 6298 \$ <i>339</i>
PUMPS & MISC	0.20 61 \$3	0.20 60 \$3
SPACE COOL	37.80 11060 \$592	54.30 15900 \$857
SPACE HEAT	4.40 1258 \$67	9.60 2783 \$150
VENT FANS	16.10 4729 \$253	43.50 12707 \$685
dits & Penalties (if any): Modified Points:		PASSES

Project: ORTHODONTISTS OFFICE Title: ORTHODONTISTS OFFICE Type: Healthcare-Clinic

		External Lighting	g Compliar	nce			
Description		Category Tradabl	e? Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)			CLP W)
Ext Light 1		Other (doors) than main entries Ye	s 20.00	21.0	2	420	3
Ext Light 2		Other (doors) than main entries Ye		42.0		840	10
Ext Light 4	1	Other (doors) than main entries Ye	s 20.00	21.0	2	420	3
All External Lig	ghting		~ /	Γ	-	PASSES	
Project: ORTHOD	ONTIST		e of 84.00(W	V)			
Fitle: ORTHODON Fype: Healthcare-C (WEA File: DAYTC	linic						
WEATING. DATI TO		Lighting Controls C	ompliance				
Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli- ance	
EXAM ROOMS	10,004	Exam/Treatment (Hospital)	116	2	2	PASSES	
WAITING RECEP		Lobby (General) - Reception and Waiting	989	4	1	PASSES	
STORAGE	30,001	Fine Material Storage	92	1	1	PASSES	
STERILIZATION		Exam/Treatment (Hospital)	122	1		PASSES	
		Food Service - Bar/Lounge	165	1		PASSES	
BREAK	-	Toilet and Washroom	100	2		PASSES	
RESTROOMS		Office - Enclosed	95	1		PASSES	
RESTROOMS OFFICE	17	Toilet and Washroom	40	1		PASSES	
RESTROOMS OFFICE HC TOILET	17 6					PASSES	
RESTROOMS OFFICE HC TOILET TC ROOM	17 6 10,004	Exam/Treatment (Hospital)	97	1			
RESTROOMS OFFICE HC TOILET TC ROOM EXAM	17 6 10,004 10,004	Exam/Treatment (Hospital) Exam/Treatment (Hospital)	97 114	1	1	PASSES	
RESTROOMS OFFICE HC TOILET TC ROOM EXAM EXAM AREA	17 6 10,004 10,004 10,004	Exam/Treatment (Hospital) Exam/Treatment (Hospital) Exam/Treatment (Hospital)	97 114 1,028	1 1 4	1 1	PASSES PASSES	
RESTROOMS OFFICE HC TOILET TC ROOM EXAM EXAM AREA IMAGING	17 6 10,004 10,004 10,004 10,011	Exam/Treatment (Hospital) Exam/Treatment (Hospital) Exam/Treatment (Hospital) Radiology (Hospital)	97 114 1,028 76	1 1 4 1	1 1 1	PASSES PASSES PASSES	
RESTROOMS OFFICE HC TOILET TC ROOM EXAM EXAM AREA IMAGING EXAM	17 6 10,004 10,004 10,004 10,011 10,004	Exam/Treatment (Hospital) Exam/Treatment (Hospital) Exam/Treatment (Hospital) Radiology (Hospital) Exam/Treatment (Hospital)	97 114 1,028 76 94	1 4 1	1 1 1	PASSES PASSES PASSES PASSES	
RESTROOMS OFFICE HC TOILET TC ROOM EXAM EXAM AREA IMAGING EXAM MECH	17 6 10,004 10,004 10,004 10,011 10,004 1	Exam/Treatment (Hospital) Exam/Treatment (Hospital) Exam/Treatment (Hospital) Radiology (Hospital) Exam/Treatment (Hospital) Electrical Mechanical Equipment Room - General	97 114 1,028 76 94 69	1 4 1 1 1	1 1 1 1	PASSES PASSES PASSES PASSES PASSES	
RESTROOMS OFFICE HC TOILET TC ROOM EXAM EXAM AREA IMAGING EXAM	17 6 10,004 10,004 10,004 10,011 10,004 1	Exam/Treatment (Hospital) Exam/Treatment (Hospital) Exam/Treatment (Hospital) Radiology (Hospital) Exam/Treatment (Hospital) Electrical Mechanical Equipment	97 114 1,028 76 94	1 4 1 1 1 2	1 1 1 1	PASSES PASSES PASSES PASSES	

Project: ORTHODONTISTS OFFICE Title: ORTHODONTISTS OFFICE Type: Healthcare-Clinic (WEA File: DAYTONABEACH.TMY)

System Report Compliance									
AHU-1 System 1				Constant Volume Packaged No. System					
Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance		
Cooling System	Air Conditioners Air Cooled < 65000 Btu/h Cooling Capacity	48000	18.00	12.23	8.00		PASSES		
Heating System Air Handling System -Supply	Electric Furnace Air Handler (Supply) - Constant Volume	23883 1440	1.00 0.38	1.00 0.90			PASSES PASSES		
Air Distribution System (Sup)	ADS System		6.00				PASSES		
AHU-2 Sys	stem 2		Cons Syste	tant Volun m	ne Packag	ged No	o. of Units 1		
AHU-2 Sys Component	stem 2 Category	Capacity	Syste		ne Packag Design IPLV	jed No IPLV Criteria	o. of Units 1 Comp- liance		
5	Category Air Conditioners Air Cooled < 65000 Btu/h Cooling	Capacity 60000	Syste Design	em Eff	Design	IPLV	1 Comp-		
Component Cooling System	Category Air Conditioners Air Cooled		Syste Design Eff	em Eff Criteria	Design IPLV	IPLV	1 Comp- liance		
Cooling System Cooling System Heating System Air Handling System -Supply	Category Air Conditioners Air Cooled < 65000 Btu/h Cooling Capacity	60000	Syste Design Eff 16.70	Eff Criteria 12.23	Design IPLV	IPLV	1 Comp- liance PASSES		
Cooling System Heating System Air Handling	Category Air Conditioners Air Cooled < 65000 Btu/h Cooling Capacity Electric Furnace Air Handler (Supply) -	60000	Syste Design Eff 16.70 1.00	Eff Criteria 12.23 1.00	Design IPLV	IPLV	1 Comp- liance PASSES PASSES		

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

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Title: ORTHODO Type: Healthcare-(
Water Heater Compliance										
Description	Туре	C	ategory	D	esign Eff	Min Eff	Design Loss			•
Water Heater 1	Electric water hea	iter <=	= 12 [kW]	0.	98	0.86			PAS	SES
								Р	ASS	SES
Title: ORTHODO! Type: Healthcare-((WEA File: DAYT)		Р	iping S	ystem C	ompl	ianc	e			
Category		Pipe Dia [inches]	Is Runout?	Operating Temp [F]	Ins Co [Btu-ir .SF.I	1/hr T	Ins `hick [in]			Compliance
Domestic and Serv Systems	vice Hot Water	1.50	False	120.00	0.2	28	1.50	1.	00	PASSES
							Р	ASSE	S	

Project: ORTHODONTISTS OFFICE Title: ORTHODONTISTS OFFICE Type: Healthcare-Clinic (WEA File: DAYTONABEACH.TMY)

Other Required Compliance

Category	Section	Requirement (write N/A in box if not applicable)	Check
Report	13-101	Input Report Print-Out from EnergyGauge FlaCom attached	
Operations Manual	13-102.1, 13-410, 13-413	Operations manual provided to owner	
Windows & Doors	13-406.AB.1.1	Glazed swinging entrance & revolving doors: max. 1.0 cfm/ft ² ; all other products: 0.4 cfm/ft ²	
Joints/Cracks	13-406.AB.1.2	To be caulked, gasketed, weather-stripped or otherwise sealed	
Dropped Ceiling Cavity	13-406.AB.3	Vented: seal & insulated ceiling. Unvented seal & insulate roof & side walls	
System	13-407	HVAC Load sizing has been performed	
Reheat	13-407.B	Electric resistance reheat prohibited	
HVAC Efficiency	13-407, 13-408	Minimum efficiences: Cooling Tables 13-407.AB.3.2.1A-D; Heating Tables 13-407.AB.3.2.1B, 13-407.AB.3.2.1D, 13-408.AB.3.2.1E, 13-408.AB.3.2F	
HVAC Controls	13-407.AB.2	Zone controls prevent reheat (exceptions); simultaneous heating and cooling in each zone; combined HAC deadband of at least 5°F	
Ventilation Controls	13-409.AB.3	(exceptions) Motorized dampers reqd, except gravity dampers OK in: 1) exhaust systems and 2) systems with design outside air intake or exhaust capacity \leq 300 cfm	
ADS	13-410	Duct sizing and Design have been performed	
HVAC Ducts	13-410.AB	Air ducts, fittings, mechanical equipment & plenum chambers shall be mechanically attached, sealed, insulated & installed per Sec. 13-410 Air Distribution Systems	
Balancing	13-410.AB.4	HVAC distribution system(s) tested & balanced. Report in construction documents	
Piping Insulation	13-411.AB	In accordance with Table 13-411.AB.2	
Water Heaters	13-412.AB	Performance requirements in accordance with Table 13-412.AB.3. Heat trap required	
Swimming Pools	13-412.AB.2.6	Cover on heated swimming pools: Time switch (exceptions); Readily accessible on/off switch	
Hot Water Pipe Insulation	13-411.AB.3	Table 13-411.AB.2 for circulating systems, first 8 feet of outlet pipe from storage tank and between inlet pipe and heat trap	
Water Fixtures	13-412.AB.2.5	Shower hot water flow restricted to 2.5 gpm at 80 psi. Public lavatory fixture how water flow 0.5 gpm max; if self-closing valve 0.25 gallon recirculating, 0.5 gallon non recirculating	
Motors	13-414	Motor efficiency criteria have been met	
Lighting Controls	13-415.AB	Automatic control required for interior lighting in buildings >5,000 s.f.; Space control; Exterior photo sensor; Tandom wiring with 1 or 3 linear fluorescent lamps>30W	