Frank Burrows 20

FORM 405-10

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	1211006	Builder Name:	Shore Builders
Street:		Permit Office:	
City, State, Zip:	Ft White , FL ,	Permit Number:	
Owner:	Frank Burrows	Jurisdiction:	22000
Design Location:	FL, Gainesville		

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	2
5. Is this a worst case?	Yes
6. Conditioned floor area above grade (ft²)	728
Conditioned floor area below grade (ft²)	0

7. Windows(60.0 sqft.)	Description	Area
a. U-Factor:	Dbl, U=0.35	60.00 ft²
SHGC:	SHGC=0.35	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		4.500 ft.
Area Weighted Average SHGC:		0.350

8. Floor Types (728.0 sqft.)	Insulation	Area
a. Raised Floor	R=18.0	728.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types (864.0 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	864.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types (728.0 sqft.)	Insulation	Area
a. Under Attic (Vented)	R=30.0	728.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts	R	ft²
a. Sup: Attic, Ret: Attic, AH: Attic	6	145.6

12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	20.0	SEER:14.00

13. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	20.0	HSPF:8.20

14. Hot water systems	
a. Electric	Cap: 40 gallons
	EF: 0.920
b. Conservation features	
None	
15. Credits	Pstat

Glass/Floor Area: 0.082

Total Proposed Modified Loads: 23.65

Total Standard Reference Loads: 29.51

PASS

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

PREPARED BY: EVAN BERNARD

DATE: 11/28/12

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

BUILDING OFFICIAL: _____

DATE: _____

GREAT SEAL OF THE STATE OF FLORIDA — IN GOD WE TRUST

- **Compliance requires completion of a Florida Air Barrier and Insulation Inspection Checklist**

COLUMBIA COUNTY BUILDING DEPARTMENT — Received for FILE COPY — Code Compliance — PLANS EXAMINER

PROJECT

Title:	1211006	Bedrooms:	2	Address Type:	Street Address
Building Type:	User	Conditioned Area:	728	Lot #	
Owner:	Frank Burrows	Total Stories:	1	Block/SubDivision:	
# of Units:	1	Worst Case:	Yes	PlatBook:	
Builder Name:	Shore Builders	Rotate Angle:	180	Street:	
Permit Office:		Cross Ventilation:		County:	columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	Ft White , FL ,
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

√	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	2	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	728	5824

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	728	5824	Yes	4	2	1	Yes	Yes	Yes

FLOORS

√	#	Floor Type	Space	R-Value	Area		Tile	Wood	Carpet
_____	1	Raised Floor	Main	----	----	728 ft²	18	0.3	0.3	0.4

ROOF

√	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Composition shingles	767 ft²	0 ft²	Dark	0.96	No	0.9	No	0	18.4

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	728 ft²	N	N

CEILING

√	#	Ceiling Type	Space	R-Value	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	30	728 ft²	0.11	Wood

WALLS

√	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
___	1	N=>S	Exterior	Frame - Wood	Main	13	26		8		208 ft²		0.23	0.75	0
___	2	E=>W	Exterior	Frame - Wood	Main	13	28		8		224 ft²		0.23	0.75	0
___	3	S=>N	Exterior	Frame - Wood	Main	13	26		8		208 ft²		0.23	0.75	0
___	4	W=>E	Exterior	Frame - Wood	Main	13	28		8		224 ft²		0.23	0.75	0

DOORS

√	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
_____	1	S=>N	Insulated	Main	None	0.4	3		6	8	20 ft²
_____	2	W=>E	Insulated	Main	None	0.400000	3		6	8	20 ft²

WINDOWS

Orientation shown is the entered orientation (=>) changed to Worst Case.

√	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
_____	1	E=>W	2	Metal	Low-E Double	Yes	0.35	0.35	15 ft²	1 ft 6 in	6 ft 0 in	None	None
_____	2	S=>N	3	Metal	Low-E Double	Yes	0.35	0.35	30 ft²	7 ft 6 in	1 ft 0 in	None	None
_____	3	W=>E	4	Metal	Low-E Double	Yes	0.35	0.35	15 ft²	1 ft 6 in	4 ft 0 in	None	None

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Best Guess	0.000699	1336.6	73.382	138.00	0.5389	13.770

HEATING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
_____	1	Electric Heat Pump	None	HSPF: 8.2	20 kBtu/hr	1	sys#1

COOLING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
_____	1	Central Unit	None	SEER: 14	20 kBtu/hr	600 cfm	0.75	1	sys#1

HOT WATER SYSTEM

√	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
_____	1	Electric	None	Main	0.92	40 gal	50 gal	120 deg	None

SOLAR HOT WATER SYSTEM

√	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
_____	None	None			ft²		

DUCTS

✓	#	---- Supply ---- Location	R-Value	Area	---- Return ---- Location	Area	Leakage Type	Air Handler	CFM 25	Percent Leakage	QN	RLF	HVAC # Heat	Cool
_____	1	Attic	6	145.6 ft	Attic	36.4 ft²	Default Leakage	Attic	(Default)	(Default) %			1	1

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cooling	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]	[X]	[X]	[ ]	[ ]	[ ]
Heating	[X]	[X]	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]
Venting	[ ]	[ ]	[X]	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]	[ ]

Thermostat Schedule: HERS 2006 Reference

Schedule Type		Hours 1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

FORM 405-10

Florida Code Compliance Checklist

Florida Department of Business and Professional Regulations
Residential Whole Building Performance Method

ADDRESS:	PERMIT #:
Ft White, FL,	

MANDATORY REQUIREMENTS SUMMARY - See individual code sections for full details.

COMPONENT	SECTION	SUMMARY OF REQUIREMENT(S)	CHECK
Air leakage	402.4	To be caulked, gasketed, weatherstripped or otherwise sealed. Recessed lighting IC-rated as meeting ASTM E 283. Windows and doors = 0.30 cfm/sq.ft. Testing or visual inspection required. Fireplaces: gasketed doors & outdoor combustion air. Must complete envelope leakage report or visually verify Table 402.4.2.	
Thermostat & controls	403.1	At least one thermostat shall be provided for each separate heating and cooling system. Where forced-air furnace is primary system, programmable thermostat is required. Heat pumps with supplemental electric heat must prevent supplemental heat when compressor can meet the load.	
Ducts	403.2.2 403.3.3	All ducts, air handlers, filter boxes and building cavities which form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section 503.2.7.2 of this code. Building framing cavities shall not be used as supply ducts.	
Water heaters	403.4	Heat trap required for vertical pipe risers. Comply with efficiencies in Table 403.4.3.2. Provide switch or clearly marked circuit breaker (electric) or shutoff (gas). Circulating system pipes insulated to = R-2 + accessible manual OFF switch.	
Mechanical ventilation	403.5	Homes designed to operate at positive pressure or with mechanical ventilation systems shall not exceed the minimum ASHRAE 62 level. No make-up air from attics, crawlspaces, garages or outdoors adjacent to pools or spas.	
Swimming Pools & Spas	403.9	Pool pumps and pool pump motors with a total horsepower (HP) of = 1 HP shall have the capability of operating at two or more speeds. Spas and heated pools must have vapor-retardant covers or a liquid cover or other means proven to reduce heat loss except if 70% of heat from site-recovered energy. Off/timer switch required. Gas heaters minimum thermal efficiency=78% (82% after 4/16/13). Heat pump pool heaters minimum COP= 4.0.	
Cooling/heating equipment	403.6	Sizing calculation performed & attached. Minimum efficiencies per Tables 503.2.3. Equipment efficiency verification required. Special occasion cooling or heating capacity requires separate system or variable capacity system. Electric heat >10kW must be divided into two or more stages.	
Ceilings/knee walls	405.2.1	R-19 space permitting.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 80

The lower the EnergyPerformance Index, the more efficient the home.

, Ft White, FL,

1. New construction or existing		New (From Plans)
2. Single family or multiple family		Single-family
3. Number of units, if multiple family		1
4. Number of Bedrooms		2
5. Is this a worst case?		Yes
6. Conditioned floor area (ft²)		728
7. Windows**	Description	Area
a. U-Factor: SHGC:	Dbl, U=0.35 SHGC=0.35	60.00 ft²
b. U-Factor: SHGC:	N/A	ft²
c. U-Factor: SHGC:	N/A	ft²
d. U-Factor: SHGC:	N/A	ft²
Area Weighted Average Overhang Depth:		4.500 ft.
Area Weighted Average SHGC:		0.350

8. Floor Types	Insulation	Area
a. Raised Floor	R=18.0	728.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	864.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types	Insulation	Area
a. Under Attic (Vented)	R=30.0	728.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts	R	ft²
a. Sup: Attic, Ret: Attic, AH: Attic	6	145.6

12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	20.0	SEER:14.00

13. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	20.0	HSPF:8.20

14. Hot water systems	
a. Electric	Cap: 40 gallons EF: 0.92
b. Conservation features None	
15. Credits	Pstat

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____

*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida EnergyGauge Rating. Contact the EnergyGauge Hotline at (321) 638-1492 or see the EnergyGauge web site at energygauge.com for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section 303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

Residential System Sizing Calculation

Summary

Frank Burrows

Ft White, FL

Project Title:
1211006

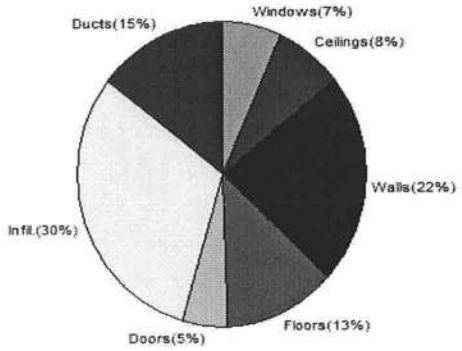
11/28/2012

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature(MJ8 99%)	33	F	Summer design temperature(MJ8 99%)	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**11169**	**Btuh**	**Total cooling load calculation**	**16793**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	179.1	20000	Sensible (SHR = 0.75)	113.1	15000
Heat Pump + Auxiliary(0.0kW)	179.1	20000	Latent	141.5	5000
			Total (Electric Heat Pump)	119.1	20000

WINTER CALCULATIONS

Winter Heating Load (for 728 sqft)

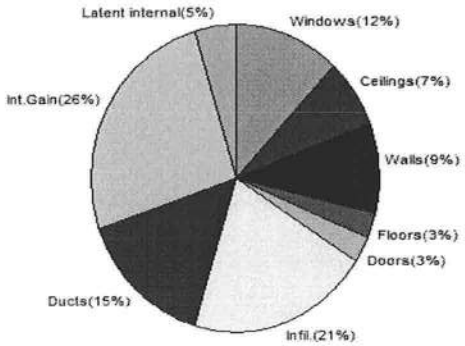
Load component			Load	
Window total	60	sqft	777	Btuh
Wall total	764	sqft	2509	Btuh
Door total	40	sqft	592	Btuh
Ceiling total	728	sqft	858	Btuh
Floor total	728	sqft	1406	Btuh
Infiltration	84	cfm	3391	Btuh
Duct loss			1636	Btuh
Subtotal			**11169**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**11169**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 728 sqft)

Load component			Load	
Window total	60	sqft	2031	Btuh
Wall total	764	sqft	1594	Btuh
Door total	40	sqft	448	Btuh
Ceiling total	728	sqft	1206	Btuh
Floor total			456	Btuh
Infiltration	63	cfm	1168	Btuh
Internal gain			4320	Btuh
Duct gain			2037	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			**13260**	**Btuh**
Latent gain(ducts)			439	Btuh
Latent gain(infiltration)			2294	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			800	Btuh
Total latent gain			**3533**	**Btuh**
TOTAL HEAT GAIN			**16793**	**Btuh**



Powered by ACCA MANUAL J 8th Edition

EnergyGauge® System Sizing
PREPARED BY: EVAN BRAMSLEY
DATE: 11/28/12

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Frank Burrows

Ft White, FL

Project Title:
1211006
Building Type: User

11/28/2012

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 37.0 F (MJ8 99%)
This calculation is for Worst Case. The house has been rotated 135 degrees.

Component Loads for Whole House

Window	Panes/Type	Frame	U	Orientation	Area(sqft) X	HTM=	Load
1	2, NFRC 0.35	Metal	0.35	SW	15.0	12.9	194 Btuh
2	2, NFRC 0.35	Metal	0.35	NW	30.0	12.9	388 Btuh
3	2, NFRC 0.35	Metal	0.35	NE	15.0	12.9	194 Btuh
	Window Total				60.0(sqft)		777 Btuh

Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	208	3.28	683 Btuh
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	209	3.28	686 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	158	3.28	519 Btuh
4	Frame - Wood	- Ext	(0.089)	13.0/0.0	189	3.28	621 Btuh
	Wall Total				764(sqft)		2509 Btuh

Doors	Type	Storm	Ueff.	Area X	HTM=	Load
1	Insulated - Exterior,	n	(0.400)	20	14.8	296 Btuh
2	Insulated - Exterior,	n	(0.400)	20	14.8	296 Btuh
	Door Total			40(sqft)		592Btuh

Ceilings	Type/Color/Surface	Ueff.	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shing	(0.032)	30.0/0.0	728	1.2	858 Btuh
	Ceiling Total			728(sqft)		858Btuh

Floors	Type	Ueff.	R-Value	Size X	HTM=	Load
1	Raised - Open	(0.052)	18.0	728.0 sqft	1.9	1406 Btuh
	Floor Total			728 sqft		1406 Btuh

	Envelope Subtotal:	6142 Btuh

Infiltration	Type	Wholehouse ACH	Volume(cuft)	Wall Ratio	CFM=	
	Natural	0.86	5824	1.00	83.7	3391 Btuh

Duct load	Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.172)	1636 Btuh
All Zones	**Sensible Subtotal All Zones**	**11169 Btuh**

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss	11169 Btuh
	Ventilation Sensible Heat Loss	0 Btuh
	Total Heat Loss	11169 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Frank Burrows

Ft White, FL

Project Title:
1211006
Building Type: User

11/28/2012

EQUIPMENT		
1. Electric Heat Pump	#	20000 Btuh

Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values)
or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)
U - (Window U-Factor)
HTM - (ManualJ Heat Transfer Multiplier)

Version 8

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Frank Burrows

Project Title:
1211006

Ft White, FL

11/28/2012

Reference City: Gainesville, FL Temperature Difference: 17.0F(MJ8 99%) Humidity difference: 54gr.

This calculation is for Worst Case. The house has been rotated 135 degrees.

Component Loads for Whole House

	Type*					Overhang		Window Area(sqft)			HTM		Load
Window	Panes	SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2 NFRC	0.35, 0.35		No	No	SW	1.5ft	6.0ft	15.0	0.0	15.0	13	31	465 Btuh
2	2 NFRC	0.35, 0.35		No	No	NW	7.5ft	1.0ft	30.0	0.0	30.0	13	29	884 Btuh
3	2 NFRC	0.35, 0.35		No	No	NE	1.5ft	4.0ft	15.0	0.0	15.0	13	29	442 Btuh
	Excursion													240 Btuh
	Window Total								60 (sqft)					2031 Btuh

Walls	Type	U-Value	R-Value Cav/Sheath	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	0.09	13.0/0.0	208.0	2.1	434 Btuh
2	Frame - Wood - Ext	0.09	13.0/0.0	209.0	2.1	436 Btuh
3	Frame - Wood - Ext	0.09	13.0/0.0	158.0	2.1	330 Btuh
4	Frame - Wood - Ext	0.09	13.0/0.0	189.0	2.1	394 Btuh
	Wall Total			764 (sqft)		1594 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	20.0	11.2	224 Btuh
2	Insulated - Exterior	20.0	11.2	224 Btuh
	Door Total	40 (sqft)		448 Btuh

Ceilings	Type/Color/Surface	U-Value	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	0.032	30.0/0.0	728.0	1.66	1206 Btuh
	Ceiling Total			728 (sqft)		1206 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Raised - Open	18.0	728 (sqft)	0.6	456 Btuh
	Floor Total		728.0 (sqft)		456 Btuh

	Envelope Subtotal:	5735 Btuh

Infiltration	Type	Average ACH	Volume(cuft)	Wall Ratio	CFM=	Load
	Natural	0.65	5824	1	62.8	1168 Btuh

Internal gain	Occupants	Btuh/occupant		Appliance	Load
	4	X 230	+	3400	4320 Btuh

	Sensible Envelope Load:	11223 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic) (DGM of 0.182)	2037 Btuh
	Sensible Load All Zones	**13260 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Frank Burrows

Project Title: 1211006

Climate:FL_GAINESVILLE_REGIONAL_A

Ft White, FL

11/28/2012

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**11223 Btuh**
	Sensible Duct Load	2037 Btuh
	Total Sensible Zone Loads	**13260 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**13260 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	2294 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	439 Btuh
	Latent occupant gain (4.0 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**3533 Btuh**
	TOTAL GAIN	**16793 Btuh**

EQUIPMENT

1. Central Unit	#	20000 Btuh

*Key: Window types (Panes - Number and type of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value)
(U - Window U-Factor)
(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))
- For Blinds: Assume medium color, half closed
For Draperies: Assume medium weave, half closed
For Roller shades: Assume translucent, half closed
(IS - Insect screen: none(N), Full(F) or Half(½))
(Ornt - compass orientation)

Version 8