FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Woods - Addition Street: 422 Steedley Drive City, State, Zip: Lake City, FL, Owner: Michael Woods Design Location: FL, Gainesville		Builder Name: Sparks Construction Permit Office: Columbia County Permit Number: Jurisdiction: Columbia (Florida Climate	Zone 2)
a. Slab-On-Grade Edge Insulation R=(b. N/A R= c. N/A R=		9. Wall Types (1120.0 sqft.) a. Concrete Block - Int Insul, Exterior b. N/A c. N/A d. N/A 10. Ceiling Types (900.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 11. Ducts a. Sup: Attic, Ret: Attic, AH: Main 12. Cooling systems a. Central Unit 13. Heating systems a. Electric Heat Pump 14. Hot water systems a. Electric b. Conservation features None 15. Credits	Insulation Area R=5.0 1120.00 ft² R= ft² R= ft² R= ft² Insulation Area R=38.0 900.00 ft² R= ft² R= ft² R= ft² R= ft² R= ft² A
Glass/Floor Area: 0.095	Total Baseline I		PASS
I hereby certify that the plans and specificathis calculation are in compliance with the Code. PREPARED BY: DATE: I hereby certify that this building, as design with the Florida Energy Code.	Florida Energy	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.	GREATSE TO THE

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

DATE:

BUILDING OFFICIAL:

OWNER/AGENT:_

DATE: _

				PROJE	СТ							
Title: Building Typ Owner Name # of Units: Builder Name Permit Office Jurisdiction: Family Type New/Existing Comment:	e: Michael Woods 1 e: Sparks Construct c: Columbia Count : Single-family	ction	Bedrooms Conditione Total Storic Worst Cas Rotate Ang Cross Ven Whole Hou	dArea: es: e: lle: tilation:	2 900 1 No 0 Yes No		Lot # Block PlatB Stree Coun	k/Subdivis look: et:	sion: 4. C o: L	treet Addre		
				CLIMA	TE							
	Design Location	TMY Site		97	esign Temp .5 % 2.5 %	Winte		ier Deg	eating ree Day		e Ra	Temp ange
	FL, Gainesville	FL_GAINESVILLE	_REGI		32 92	70	75	1	305.5	51	M	edium
				BLOC	KS							
Number	Name	Area	Volume									
1	Block1	900	8397									
				SPAC								
Number	Name	Area		Kitchen	Occupants	Bedroo			Finished			Heate
1	Main	900	8397	No	4	2	1		Yes	Yes		Yes
,				FLOO								
√ # 1	Floor Type Slab-On-Grade Edge I	Space	Peri ain 120	meter	R-Value 0	Area 900 ft ²				Tile Wo		rpet 1
'	Slab-On-Grade Edge i	insulation iv	am 120			900 11-				0 (,	'
				ROC								
√ #	Туре	Materials	Roof Area	Gabl Area		Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitc (de
1	Hip	Composition shing	les 948 ft²	0 ft²	Medium	Υ	0.96	No	0.9	No	0	18.
				ATTI	С							
√ #	Туре	Venti	ation	Vent Rat	io (1 in)	Area	RBS	IR	cc			
1	Full attic	Ven	ted	30	0	900 ft²	Υ	١	N			
				CEILI	NG							
√ #	Ceiling Type		Space	R-Valu	e Ins Ty	pe	Area	Fran	ning Fra	c Truss	Туре	
1	Under Attic (Ver	nted)	Main	38	Double E	Batt	900 ft ²		0.11	Wo	od	

INPUT SUMMARY CHECKLIST REPORT

								WA	LLS								
V #	01		djacent	14 /-11 1	T		Space	Cavity	Width		Height	A	Sheathi			Solar	Below
_ V #	Ornt N		Fo terior	Wall Con	rete Block - In	nt Insul	Main	R-Value 5	Ft 30	ln F	Et ln 4	Area 280.0 ft ²	R-Valu		O 0	Absor. 0.75	Grade ⁶ 0
·	W		terior		crete Block - In		Main	5	30	g		280.0 ft ²			0	0.75	C
 3	s		terior		crete Block - In		Main	5	30	g		280.0 ft ²			0	0.75	(
4	E		terior		crete Block - In		Main	5	30	g		280.0 ft ²			0	0.75	(
											•						
			_			_		ьо	ORS				\A# - 4 -		11-1-1-4		_
V	#		Ornt		Door Type	S	Space		S	storms	U-Valı	ue F	Width t In	Ft	Height t In		Area
	1		N		Insulated	1	Main			None	.46	3	3	6	8	:	20 ft²
WINDOWS Orientation shown is the entered, Proposed orientation.																	
/		\	Wall						,				rhang				
\vee	#			rame	Panes	N	IFRC	U-Factor	SHGC	Imp	Area		Separation	n l	nt Shad	e s	Screeni
	1	N	1 V	/inyl	Low-E Double	Э	Yes	0.36	0.25	Ν	36.0 ft ²	2 ft 0 in	0 ft 6 in		None		None
	2	N	1 V	/inyl	Low-E Double	Э	Yes	0.36	0.25	Ν	11.3 ft ²	2 ft 0 in	0 ft 6 in		None		None
	3	W	2 V	/inyl	Low-E Double	Э	Yes	0.36	0.25	Ν	20.0 ft ²	2 ft 0 in	0 ft 6 in		None		None
	4	S	3 V	/inyl	Low-E Double	Э	Yes	0.36	0.25	Ν	18.0 ft ²	2 ft 0 in	0 ft 6 in		None		None
						01.4			RATIO			4.011		011.50			
	scope	se	Met		H(50)	SLA		CFM 50	ELA	Ed	qLA	ACH	A	CH 50			
	scope	se l	Met Propose		H(50)	SLA .000296			ELA 38.42	Ec. 72	qLA 2.25	ACH .1186	A	CH 50 5			
				ed ACI	H(50)			CFM 50 699.8	ELA 38.42 3 SYST	Ec. 72	2.25		A			ock	Ducts
	elhous	Syst	Propose em Type	ed ACI	H(50)	.000296		CFM 50 699.8 HEATING	ELA 38.42 3 SYST	72 EM	2.25	.1186	A				
	blehous #	Syst	Propose em Type	ed ACI		.000296 Subtype	e	CFM 50 699.8 HEATING	ELA 38.42 3 SYST	EM fficiency SPF:8.2	2.25	.1186	A		ВІ		
	blehous #	Syst Elec	Propose em Type	ed ACI		.000296 Subtype	e	CFM 50 699.8 HEATING Speed Single	ELA 38.42 G SYST	EM fficiency SPF:8.2	2.25	.1186 Capacity ′.4 kBtu/hr	Ar sir Flow		BI 1		sys#1
	# 1	Syst Elec	Propose em Typo tric Hea	e t Pum		.000296 Subtype None	e	CFM 50 699.8 HEATING Speed Single COOLING	ELA 38.42 G SYST E H G SYST	EM fficiency SPF:8.2 EM	2.25 / 2 17	.1186 Capacity .4 kBtu/hr		5	BI 1	ock	sys#1
	# 1	Syst Elec	Propose em Typo tric Hea	e t Pum	np/None (Bas	.000296 Subtype None	e e	CFM 50 699.8 HEATING Speed Single COOLING	ELA 38.42 G SYST E H G SYST	EM fficiency SPF:8.2 EM ficiency :ER: 14	2.25 / 2 17 Capac	.1186 Capacity .4 kBtu/hr	sir Flow	5 SHR	BI 1	ock	sys#1
	# 1	Syst Elec Syst Cent	Propose em Typo tric Hea	e t Pum e /None	np/None (Bas	Subtype None	e e	CFM 50 699.8 HEATING Speed Single COOLING Subtype Single	ELA 38.42 G SYST E H G SYST	EM fficiency SPF:8.2 EM ficiency :ER: 14	2.25 / 2 17 Capac	.1186 Capacity .4 kBtu/hr	sir Flow 30 cfm	5 SHR 0.7	BI 1	ock	sys#1
	# 1 #	Syst Elec Syst Cent	em Type tric Hea em Type	e t Pum e /None	pp/None (Bas	Subtype None Subtype None	e e H	CFM 50 699.8 HEATING Speed Single COOLING Subtype Single	ELA 38.42 G SYST E H G SYST Ef SE	EM fficiency SPF:8.2 EM ficiency EER: 14	2.25 / 2 17 Capac 10.64 kB	.1186 Capacity 7.4 kBtu/hr sity A	sir Flow 30 cfm	5 SHR 0.7	BI 1 BI 1	ock	sys#1
	# 1 # 1	Syst Elec Syst Cent	em Type em Type em Type tral Unit	e t Pum e /None	pp/None (Bas e (Baseline as SubType	Subtype None Subtype None Locat	e H tion	CFM 50 699.8 HEATING Speed Single COOLING Subtype Single OT WATE	ELA 38.42 G SYST E H G SYST Ef SE ER SYS Cap 40 gal	EM fficiency SPF:8.2 EM ficiency ER: 14	Capac 10.64 kB	.1186 Capacity 7.4 kBtu/hr ity Atu/hr 3:	sir Flow 30 cfm	5 SHR 0.7	BI 1 1	ock	sys#1
	# 1 # 1	Syst Elec Syst Cent	em Type em Type em Type tral Unit	ed ACI	e (Baseline as SubType None	Subtype None Subtype None Locat	e H	CFM 50 699.8 HEATING Speed Single COOLING Subtype Single OT WATE EF 0.92	ELA 38.42 G SYST Ef SE ER SYS Cap 40 ga	EM fficiency SPF:8.2 EM ficiency ER: 14 TEM	Capac 10.64 kB	.1186 Capacity 7.4 kBtu/hr sity A tu/hr 3: SetPr 120 de	sir Flow 30 cfm	5 SHR 0.7	BI 1 1	ock vation e	Ducts sys#1 Ducts sys#1

INPUT SUMMARY CHECKLIST REPORT

DUCTS															
/	#	Si Location	upply R-Value Area		Ref	turn Area	Looka	јеТуре	Air Handler	CFM 25 TOT	CFM2 OUT		RLF	HV/ Heat	AC # Cool
v	1	Attic	6 225 ft		ttic	45 ft²			Main				INLI	1	1
1 Attic 6 225 ft² Attic 45 ft² Default Leakage Main (Default) c(Default) c 1 1 TEMPERATURES															
Programa	ableTherm	nostat: Y			C	eiling Fans	:								
Cooling Heating Venting	[] Jan [X] Jan [] Jan	[X] Fel [X] Fe [X] Fel	o [] Mar b [X] Mar b [X] Mar	[] Apr Apr [X] Apr		[] May [] May [] May	[X] Jun [] Jun [] Jun	[X] Jul [] Jul [] Jul	[X] Aug [] Aug [] Aug	[X] Se [] Se [] Se	р [х р (х	Oct Oct Oct	[] Nov [X] Nov [X] Nov	$[\times]$	Dec Dec Dec
Thermostat Schedule T		: HERS 2	2006 Reference	2	3	4	5	6	ours 7	8	9	10	11	1	12
Cooling (WI	D)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	8	30 78
Cooling (Wi	EH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	7	78 78
Heating (W	D)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	6	88 86
Heating (W	EH)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	6	68 66
MASS															
Ма	ss Type			Area			Thickness		Furniture Fra	ction	;	Space			
Def	fault(8 lbs/	sq.ft.		0 ft²			0 ft		0.3			Main			

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 92

The lower the Energy Performance Index, the more efficient the home.

1. New home or, addition	1. Addition	12. Ducts, location & insulation level					
2. Single-family or multiple-family	2. Single-family	a) Supply ducts R 6.0 b) Return ducts R 6.0 c) AHU location Main					
3. No. of units (if multiple-family)	31	c) Alto location Walli					
4. Number of bedrooms	42	13. Cooling system: Capacity 10.6 a) Split system SEER					
5. Is this a worst case? (yes/no)	5. <u>No</u>	b) Single package SEER c) Ground/water source SEER/COP					
6. Conditioned floor area (sq. ft.)	6900	d) Room unit/PTAC EER e) Other14.0					
7. Windows, type and area a) U-factor:(weighted average) b) Solar Heat Gain Coefficient (SHGC) c) Area	7a. 0.360 7b. 0.250 7c. 85.3	14. Heating system: Capacity 17.4 a) Split system heat pump HSPF b) Single package heat pump HSPF					
8. Skylights a) U-factor:(weighted average) b) Solar Heat Gain Coefficient (SHGC)	8a. <u>NA</u> 8b. <u>NA</u>	c) Electric resistance COP d) Gas furnace, natural gas AFUE e) Gas furnace, LPG AFUE f) Other 8.20					
9. Floor type, insulation level:a) Slab-on-grade (R-value)b) Wood, raised (R-value)c) Concrete, raised (R-value)	9a. 0.0 9b. 9c.	15. Water heating system a) Electric resistance EF 0.92 b) Gas fired, natural gas EF					
10. Wall type and insulation: A. Exterior: 1. Wood frame (Insulation R-value) 2. Masonry (Insulation R-value) B. Adjacent: 1. Wood frame (Insulation R-value)	10A1 10A25.0 10B1 10B2	c) Gas fired, LPG					
2. Masonry (Insulation R-value) 11. Ceiling type and insulation level a) Under attic b) Single assembly c) Knee walls/skylight walls d) Radiant barrier installed	11a. 38.0 11b. 11c. 11d. Yes	16. HVAC credits claimed (Performance Method) a) Ceiling fans b) Cross ventilation c) Whole house fan d) Multizone cooling credit e) Multizone heating credit f) Programmable thermostat Method Yes No No Yes					
*Label required by Section R303.1.3 of the F	lorida Building Code, Er	nergy Conservation, if not DEFAULT.					
I certify that this home has complied with the Florida Building Code, Energy Conservation, 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: 422 Steedley Drive		City/FL Zip: Lake City, FL					

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance 2017 Florida Building Code, Energy Conservation, 6th Edition

	Jurisdiction:	Permit #:							
Job	Information								
Bui	lder: Sparks Construction Community:	Lot: NA							
Add	dress: 422 Steedley Drive								
City	: Lake City Stat	e: FL Zip:							
Air	Air Leakage Test Results Passing results must meet either the Performance, Prescriptive, or ERI Method								
	changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Clir PERFORMANCE or ERI METHOD-The building or dwelling unit sh	all be tested and verified as having an air leakage rate of not exceeding							
the	e selected ACH(50) value, as shown on Form R405-2017 (Performance ACH(50) specified on Form R405-2017-Energy Ca	or R406-2017 (ERI), section labeled as infiltration, sub-section ACH50. old (Performance) or R406-2017 (ERI): 5.000							
Tes 489 pro Dur 1. E con 2. E mea 3. II 4. E 5. H	sting shall be conducted by either individuals as defined in Section 553. 0.105(3)(f), (g), or (i) or an approved third party. A written report of the revided to the official. Testing shall be performed at any time after creating testing: Exterior windows and doors, fireplace and stove doors shall be closed, Introl measures.	RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). 993(5) or (7F/Jorida Statues.or individuals licensed as set forth in Section esults of the test shall be signed by the party conducting the test and eation of all penetrations of the intended weatherstripping or other infiltration of the shall be closed, but not sealed beyond intended infiltration control tilators shall be closed and sealed. turned off.							
Te	Testing Company								
۱۲	ompany Name:	ance with the 2017 6th Edition Florida Building Code							
Si	gnature of Tester:	Date of Test:							
Pı	rinted Name of Tester:								
Li	cense/Certification #:	Issuing Authority:							

Residential System Sizing Calculation

Summary

Michael Woods 422 Steedley Drive Lake City, FL Project Title: Woods - Addition

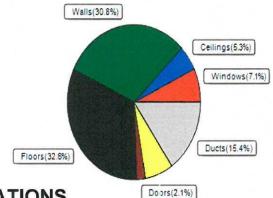
4/21/2020

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(51gr.)								
Winter design temperature(TMY3	399%) 30	F	Summer design temperature(TMY	3 99%) 94	F			
Winter setpoint	70	F	Summer setpoint	75	F			
Winter temperature difference	40	F	Summer temperature difference	19	F			
Total heating load calculation	17355	Btuh	Total cooling load calculation	10691	Btuh			
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh			
Total (Electric Heat Pump)	100.3	17400	Sensible (SHR = 0.70)	87.0	7451			
Heat Pump + Auxiliary(0.0kW)	100.3	17400	Latent	150.5	3193			
			Total (Electric Heat Pump)	99.6	10644			

WINTER CALCULATIONS

Winter Heating Load (for 900 sqft)

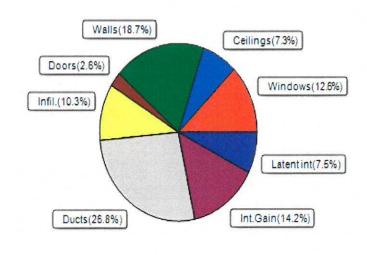
Load component			Load	
Window total	85	sqft	1228	Btuh
Wall total	1015	sqft	5340	Btuh
Door total	20	sqft	368	Btuh
Ceiling total	900	sqft	914	Btuh
Floor total	900	sqft	5664	Btuh
Infiltration	27	cfm	1163	Btuh
Duct loss			2679	Btuh
Subtotal		1	17355	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			17355	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 900 sqft)

Load component			Load	
Window total	85	sqft	1346	Btuh
Wall total	1015	sqft	2003	Btuh
Door total	20	sqft	276	Btuh
Ceiling total	900	sqft	777	Btuh
Floor total			0	Btuh
Infiltration	20	cfm	414	Btuh
Internal gain			1520	Btuh
Duct gain			2234	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			8569	Btuh
Latent gain(ducts)			634	Btuh
Latent gain(infiltration)			687	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occi	er)	800	Btuh	
Total latent gain		2122	Btuh	
TOTAL HEAT GAIN			10691	Btuh





PREPARED BY:
DATE:

DATE:

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Michael Woods 422 Steedley Drive Lake City, FL Project Title: Woods - Addition Building Type: User

4/21/2020

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 F (TMY3 99%)

Component Loads for Whole House

Window	Panes/Type	Frame	U	Orientation	Area(sqft) X	HTM=	Load
1	2, NFRC 0.25	Vinyl	0.36	N	36.0	14.4	518 Btuh
2	2, NFRC 0.25	Vinyl	0.36	N	11.3	14.4	162 Btuh
3	2, NFRC 0.25	Vinyl	0.36	W	20.0	14.4	288 Btuh
4	2, NFRC 0.25	Vinyl	0.36	S	18.0	14.4	259 Btuh
	Window Total	•			85.3(sqft)		1228 Btuh
Walls	Туре	Ornt. U	eff.	R-Value	Area X	HTM=	Load
				(Cav/Sh)			
1	Conc Blk,Hollow	- Ext (0).132)	5.0/0.0	213	5.26	1120 Btuh
2	Conc Blk,Hollow	- Ext (0).132)	5.0/0.0	260	5.26	1368 Btuh
3	Conc Blk,Hollow	- Ext (0).132)	5.0/0.0	262	5.26	1379 Btuh
4	Conc Blk,Hollow	- Ext (0).132)	5.0/0.0	280	5.26	1474 Btuh
	Wall Total	•	•		1015(sqft)		5340 Btuh
Doors	Туре	Storm	Ueff.		Area X	HTM=	Load
1	Insulated - Exteri	or, n (0	.460)		20	18.4	368 Btuh
	Door Total				20(sqft)		368Btuh
Ceilings	Type/Color/Surfa	ce U	eff.	R-Value	Area X	HTM=	Load
1	Vented Attic/L/Sh	ning (0.0)25)	38.0/0.0	900	1.0	914 Btuh
	Ceiling Total				900(sqft)		914Btuh
Floors	Type		Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	120.0 ft(pe	rim.) 47.2	5664 Btuh
	Floor Total				900 sqft		5664 Btuh
					Envelope Subt	otal:	13513 Btuh
Infiltration	Туре	Wholel	house A	CH Volume	(cuft) Wall Ra	tio CFM=	
	Natural			.19 839	,		1163 Btuh
Duct load	Average sealed,	R6.0, Su	pply(Att), Return(Att) (DLN	/I of 0.183)	2679 Btuh
All Zones				Sensible	Subtotal All	Zones	17355 Btuh

WHOLE HOUSE TOTALS

Manual J Winter Calculations

Residential Load - Component Details (continued) Project Title:

Michael Woods 422 Steedley Drive Lake City, FL

Project Title: Woods - Addition Building Type: User

4/21/2020

EQUIPMENT	

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

Michael Woods 422 Steedley Drive Lake City, FL Project Title: Woods - Addition

4/21/2020

Reference City: Gainesville, FL Temperature Difference: 19.0F(TMY3 99%) Humidity difference: 51gr.

Component Loads for Whole House

	Type*				Overhang Wir			dow Area(sqft)		НТМ		Load		
Window	Panes	SHGC U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2 NFRC	0.25, 0.36	No	No	N	2.0ft.	0.5ft.	36.0	0.0	36.0	12	12	436	Btuh
2	2 NFRC	0.25, 0.36	No	No	Ν	2.0ft.	0.5ft.	11.3	0.0	11.3	12	12	136	Btuh
3		0.25, 0.36	No	No	W	2.0ft.	0.5ft.	20.0	5.8	14.2	12	31	510	Btuh
4		0.25, 0.36	No	No	S	2.0ft.	0.5ft.	18.0	18.0	0.0	12	14	218	
	Excursio												47	
	Windov	w Total						85 (s					1346	Btuh
Walls	Type				U	-Valu	e R-∖	/alue	Area	(sqft)		HTM	Load	
							Cav/S							
1	Concrete	Blk,Hollow	/- Ext			0.13	5.0/0	0.0		2.8		2.0	420	Btuh
2	Concrete Blk,Hollow- Ext				0.13 5.0/0							2.0	513	
3	Concrete Blk,Hollow- Ext			0.13 5.0/0.							2.0	517		
4	Concrete Blk,Hollow- Ext			0.13 5.0/0.0			0.0	280.0			2.0		Btuh	
	Wall Total							1015 (sqft)				2003	Btuh	
Doors	Type								Area	(sqft)		HTM	Load	
1	Insulated	d - Exterior							20	0.0		13.8	276	Btuh
	Door T	otal							2	(sqft)			276	Btuh
Ceilings	Type/C	color/Surf	ace		U	-Valu	е	R-Valu	e Area	(sqft)		HTM	Load	
1	Vented A	Attic/Light/Sh	ningle/F	RB		0.025	;	38.0/0.0	90	0.0		0.86	777	Btuh
	Ceiling	Total							90	00 (sqft)			777	Btuh
Floors	Туре						R-V	/alue	Si	ze		HTM	Load	
1	Slab On Grade					0.0			90	900 (ft-perimeter) 0.0			0	Btuh
	Floor Total						900.0 (sqft)					0	Btuh	
									Envelope Subtotal:				4401	Btuh
Infiltration	Type				Aver	age A	кСН	Volume(cuft) Wall R		atio	CFM=	Load		
	Natural				9- /	0.14		8397 1			19.9		Btuh	
Internal						Stuh/occupant Appliance			Load					
gain						Joou	4	,	X 23	•	,	600		Btuh
yanı							-							
	Sensible Envelope Load:								6335	Btuh				
Duct load	d Average sealed,Supply(R6.0-A				-Attic), Return(R6.0-Attic)				(DGM of 0.353)				2234	Btuh
	Sensible Load All Zones									8569	Btuh			

Manual J Summer Calculations

Residential Load - Component Details (continued)

Michael Woods 422 Steedley Drive Lake City, FL

Project Title: Woods - Addition Climate:FL GAINESVILLE REGIONAL A

4/21/2020

WHOLE HOUSE TOTALS								
	Sensible Envelope Load All Zones	6335	Btuh					
	Sensible Duct Load	2234	Btuh					
	Total Sensible Zone Loads	8569	Btuh					
	Sensible ventilation	0	Btuh					
	Blower	0	Btuh					
Whole House	Total sensible gain	8569	Btuh					
Totals for Cooling	Latent infiltration gain (for 51 gr. humidity difference)	687	Btuh					
	Latent ventilation gain	0	Btuh					
	Latent duct gain	634	Btuh					
	Latent occupant gain (4.0 people @ 200 Btuh per person)	800	Btuh					
	Latent other gain	0	Btuh					
	Latent total gain	2122	Btuh					

EQUIPMENT							
1. Central Unit	#	10644 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

TOTAL GAIN

For Roller shades: Assume translucent, half closed

(IS - Insect screen: none(N), Full(F) or Half(1/2))

(Ornt - compass orientation)



10691 Btuh