

REScheck Software Version 4.4.3 **Compliance Certificate** 1210-20

Energy Code:

Location: Construction Type: Conditioned Floor Area: Glazing Area Percentage:

Heating Degree Days: Climate Zone:

2010 Florida Building Code, Energy Conservation

Lake City, Florida Single Family 2720 ft2

16% 1436

Construction Site:

363 SW Blaylock CT Lake City, FL 32024

Owner/Agent:

Brian & Britney Papka

Designer/Contractor: Jonathan Morris Design

Lake City, FL 32024 386-288-1188 jmorris89@att.net

Compliance: Envelope passes UA trade-off. Additional mandatory requirements apply. Complete the REScheck inspection checklist to determine compliance with these requirements.

Compliance: 31.9% Better Than Code

Maximum UA: 887

Your UA: 604

Maximum SHGC: 0.30 Your SHGC: 0.30

The % Better or Worse Than Code index reflects how close to compliance the house is based on code trade-off rules.

It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Glazing or Door U-Factor	UA
Ceiling 1: Flat Ceiling or Scissor Truss	1762	0.0	30.0		55
Ceiling 2: Flat Ceiling or Scissor Truss	958	0.0	30.0		30
Wall 1: Wood Frame, 16" o.c.	3602	19.0	0.0		189
Window 1: Vinyl Frame:Double Pane SHGC: 0.30	346			0.320	111
Door 1: Glass SHGC: 0.30	80			0.320	26
Door 2: Solid	20			0.260	5
Floor 1: Slab-On-Grade:Unheated Insulation depth: 2.0'	224		4.0		183
Floor 2: All-Wood Joist/Truss:Over Unconditioned Space Air Conditioner 1: Electric Central Air 13 SEER Heat Pump 1: Air Source 7.7 HSPF, 13 SEER	142	30.0	0.0		5

Compliance Statement: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2010 Florida Building Code, Energy Conservation requirements in REScheck Version 4.4.3 and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

Name - Title

Signature

Date



Project Title:

Report date: 08/15/12

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REScheck Software Version 4.4.3 Inspection Checklist

Energy Code: Location: Construction Type: Conditioned Floor Area: Glazing Area Percentage:

2010 Florida Building Code, Energy Conservation Lake City, Florida Single Family 2720 ft2 16%

Heating Degree Days: Climate Zone:

1436 2

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Ceilings:
Ceiling 1: Flat Ceiling or Scissor Truss, R-30.0 continuous insulation Comments:
Roof reflectance <= 0.25.
Ceiling 2: Flat Ceiling or Scissor Truss, R-30.0 continuous insulation Comments:
Roof reflectance <= 0.23.
Above-Grade Walls:
Wall 1: Wood Frame, 16" o.c., R-19.0 cavity insulation Comments:
Windows:
Window 1: Vinyl Frame:Double Pane, U-factor: 0.320, SHGC: 0.30,
For windows without labeled U-factors, describe features:
#Panes Frame Type Thermal Break? Yes No
Comments:
Doors:
Door 1: Glass, U-factor: 0.320, SHGC: 0.30,
Comments:
Door 2: Solid, U-factor: 0.260 Comments:
Floors:
Floor 1: Slab-On-Grade:Unheated, 2.0' insulation depth, R-4.0 continuous insulation Comments:
Slab insulation extends down from the top of the slab to at least 2.0 ft. OR down to at least the bottom of the slab then horizontally for a total distance of 2.0 ft.
Floor 2: All-Wood Joist/Truss:Over Unconditioned Space, R-30.0 cavity insulation
Comments:
Floor insulation is installed in permanent contact with the underside of the subfloor decking.
Heating and Cooling Equipment:
Air Conditioner 1: Electric Central Air: 13 SEER or higher
Make and Model Number:
Equipment minimum efficiency requirement as determined in Section 403.6 and Table 503.2.3(1-9):
Heat Pump 1: Air Source: 7.7 HSPF, 13 SEER or higher Make and Model Number:
Equipment minimum efficiency requirement as determined in Section 403.6 and Table 503.2.3(1-9):
Solar Heat Gain Coefficient:

Project Title: Report date: 08/15/12 Data filename: C:\Documents and Settings\jon\My Documents\My Dropbox\Brian & Britney Papka\Brian & Britney Papka.rck Page 2 of 5

į		,	Solar Heat Gain Coefficient (SHGC) values are determined in accordance with the NFRC test procedure or taken from the default table.
		Ai	r Leakage:
			Joints (including rim joist junctions), attic access openings, penetrations, and all other such openings in the building envelope that are sources of air leakage are sealed with caulk, gasketed, weatherstripped or otherwise sealed with an air barrier material, suitable film or solid material.
			Air barrier and sealing exists on common walls between dwelling units, on exterior walls behind tubs/showers, and in openings between window/door jambs and framing.
			Recessed lights in the building thermal envelope are 1) type IC rated and ASTM E283 labeled and 2) sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.
			Access doors separating conditioned from unconditioned space are weather-stripped and insulated (without insulation compression or damage) to at least the level of insulation on the surrounding surfaces. Where loose fill insulation exists, a baffle or retainer is installed to maintain insulation application.
			Wood-burning fireplaces have gasketed doors and outdoor combustion air. Automatic or gravity dampers are installed on all outdoor air intakes and exhausts.
	_	Aiı	r Sealing and Insulation:
			Building envelope air tightness and insulation installation complies by either 1) a post rough-in blower door test result of less than 7 ACH at 50 pascals OR 2) the following items have been satisfied:
			(a) Air barriers and thermal barrier: Installed on outside of air-permeable insulation and breaks or joints in the air barrier are filled or repaired.
			(b) Ceiling/attic: Air barrier in any dropped ceiling/soffit is substantially aligned with insulation and any gaps are sealed.
			(c) Above-grade walls: Insulation is installed in substantial contact and continuous alignment with the building envelope air barrier.
			(d) Floors: Air barrier is installed at any exposed edge of insulation.
			(e) Plumbing and wiring: Insulation is placed between outside and pipes. Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind piping and wiring.
			(f) Corners, headers, narrow framing cavities, and rim joists are insulated.
			(g) Shower/tub on exterior wall: Insulation exists between showers/tubs and exterior wall.
	1		aterials Identification and Installation:
			Materials and equipment are installed in accordance with the manufacturer's installation instructions.
			Materials and equipment are identified so that compliance can be determined. Manufacturer manuals for all installed heating and cooling equipment and service water heating equipment have been provided.
			Insulation R-values and glazing U-factors are clearly marked on the building plans or specifications.
	750	Du	act and Air handlers: Construction, Insulation, and Testing:
	o		Building framing cavities are not used as supply ducts.
			Ducts and air handling units are installed inside both the thermal and air barrier of the home.
			Ducts are insulated to R-6. Exceptions:
			Exhaust air ducts.
			Factory installed plenums, casings, or ductwork furnished as a part of tested and rated HVAC equipment.
			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, and are constructed and sealed in accordance with FBC, Mechanical Section 503.2.7.2.
			Duct tightness test has been performed by a Class 1 BERS rater according to Florida code section Section 403.2.2.1 and meets one of the following test criteria. Test report is attached.
			(1) Postconstruction leakage to outdoors test: Less than or equal to 81.6 cfm (3 cfm per 100 ft2 of conditioned floor area).
			(2) Postconstruction total leakage test (including air handler enclosure): Less than or equal to 244.8 cfm (9 cfm per 100 ft2 of conditioned floor area).
			(3) Rough-in total leakage test with air handler installed: Less than or equal to 108.8 cfm (4 cfm per 100 ft2 of conditioned floor area).
	7		mperature Controls:
			Where the primary heating system is a forced air-furnace, at least one programmable thermostat is installed to control the primary heating system and has set-points initialized at 70 degree F for the heating cycle and 78 degree F for the cooling cycle.
			Heat pumps having supplementary electric-resistance heat have controls that prevent supplemental heat operation when the compressor can meet the heating load.
			Humidistats used for comfort dehumidification have controls to prevent the use of fossil fuel or electricity to reduce humidities below 60 percent.
	ŀ	Нe	ating, Cooling, and Ventilation Equipment:

	Ejectric resistance is not used as the heat source for space heating	9.
	For systems serving multiple dwelling units documentation has been Conservation, Commercial	en submitted demonstrating compliance with 2010 FBC, Energy
	Buildings designed to operate at positive indoor pressure or have	mechanical ventilation meet the following criteria:
alteriale	(1) Maximum air-change-hour equal minimums from ASHRAE 62,	Ventilation for Acceptable Indoor Air Quality.
	(2) No ventilation or air-conditioning system make-up air provided spaces adjacent to swimming pools or spas.	from attics, crawlspaces, attached enclosed garages or outdoor
	(3) Air drawn from enclosed space(s) have walls insulated >= R-1	and ceiling >= R-19, space permitting, or R-10 otherwise.
	Service Hot Water Systems:	
	Water heating equipment meets minimum efficiency requirements Proposed efficiency: Required efficiency:	of FBC, Energy Conservation Section 403.4.3.2 and Table 403.4.3.2.
	Circulating service hot water pipes are insulated to R-2.	
	Automatic temperature controls, circulating pump manual switching present (as applicable) for operation when heating system is not in	g, electric power switching, combustion fuel line shutoff valves are all use,
	그 그들은 사용에 가게 되었습니다. 유민들은 경우 사용 사용 사용을 보고 있다면 하는데 얼마나 가득하는데 바라를 하는데 하는데 되었습니다. 이 사용을 하는데 되었습니다.	eal pipe risers have heat traps installed on both the inlets and outlets, radownward and upward bend of at least 3.5 inches in the hot and
1	Heating and Cooling Piping Insulation:	
	HVAC piping conveying fluids above 105 degrees F or chilled fluid	s below 55 degrees F are insulated to R-3.
,	Swimming Pools and Spas:	
	Heated pool/spas have a externally mounted on/off heater switch.	
	Heaters operating on natural gas have an electronic pilot light.	
	Fossil fueled heaters have a minimum 78% thermal efficiency ratin	g.
	Heat pump heaters have a minimum 4.0 COP (testing report require	red).
	Timer switches on pool heaters and pumps are present. Exceptions:	
	Where public health standards require continuous pump operat	ion.
	Where pumps operate within solar- and/or waste-heat-recovery	(1. Tr
	Heated swimming pools and inground permanently installed spass surface or a liquid cover or other means proven to reduce heat loss Exceptions:	
	Covers are not required when 70% of the heating energy is fror season).	n site-recovered energy or solar energy source (over full operating
	Pool pump motors are NOT split-phase, shaded-pole or capacitor s	start-induction run types.
	Pool pumps/motors >= 1 hp have variable speed capability. Low sp	peed has a rotation < 1/2 the motors maximum rotation rate.
	Pool pump motor controls have minimum 2 speeds with the low sp and with a higher speed override capability not to exceed the lesse Exceptions:	
	Solar heating systems may run at higher speeds during periods	of usable solar heat gain.
ı	Lighting Requirements:	
	A minimum of 50 percent of the lamps in permanently installed ligh	ting fixtures can be categorized as one of the following:
	(a) Compact fluorescent	
	(b) T-8 or smaller diameter linear fluorescent	
	(c) 40 lumens per watt for lamp wattage <= 15	
	(d) 50 lumens per watt for lamp wattage > 15 and <= 40	
	(e) 60 lumens per watt for lamp wattage > 40	
	Energy Performane Display Card:	
	An energy performance level (EPL) display card must be complete	d and certified by the builder before final approval of the building
	for occupancy. Florida law (Section 553.9085, Florida Statutes) rec	

TES TO FIELD: (Building I	Department Use Only)		
	1		
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REScheck Software Version 4.4.3

Compliance Certificate

Energy Code:

2010 Florida Building Code, Energy Conservation

Location: Construction Type:

Lake City, Florida

Conditioned Floor Area:

Single Family 2720 ft2

Glazing Area Percentage: Heating Degree Days:

16% 1436

Climate Zone:

Construction Site:

Owner/Agent:

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Designer/Contractor: Jonathan Morris Design

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Maximum UA: 887

Your UA: 604

Maximum SHGC: 0.30

Your SHGC: 0.30

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Window 1: Vinyl Frame:Double Pane SHGC: 0.30	346			0.320	111
Door 1: Glass SHGC: 0.30	80			0.320	26
Door 2: Solid	20			0.260	5
Floor 1: Slab-On-Grade:Unheated Insulation depth: 2.0'	224		4.0		183
Floor 2: All-Wood Joist/Truss:Over Unconditioned Space	142	30.0	0.0		5
Air Conditioner 1: Electric Central Air 13 SEER					2700
Heat Pump 1: Air Source 7.7 HSPF, 13 SEER					

Compliance Statement: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2010 Florida Building Code, Energy Conservation requirements in REScheck Version 4.4.3 and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

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REScheck Software Version 4.4.3

Inspection Checklist

Project Title:

2010 Florida Building Code, Energy Conservation Lake City, Florida Single Family 2720 ft2

Energy Code: Location: Construction Type:

Conditioned Floor Area: Glazing Area Percentage:

Heating Degree Days: Climate Zone:

1436

	Ceilings:
	Ceiling 1: Flat Ceiling or Scissor Truss, R-30.0 continuous insulation
	Comments:
	Roof reflectance <= 0.25.
	Ceiling 2: Flat Ceiling or Scissor Truss, R-30.0 continuous insulation Comments:
	Roof reflectance <= 0.25.
	Above-Grade Walls:
	Wall 1: Wood Frame, 16" o.c., R-19.0 cavity insulation
	Comments:
	Windows:
	Window 1: Vinyl Frame:Double Pane, U-factor: 0.320, SHGC: 0.30,
_	For windows without labeled U-factors, describe features:
	#Panes Frame Type Thermal Break? Yes No
	Comments:
	Doors:
	Door 1: Glass, U-factor: 0.320, SHGC: 0.30,
	Comments:
	Door 2: Solid, U-factor: 0.260
	Comments:
	Floors:
	Floor 1: Slab-On-Grade:Unheated, 2.0' insulation depth, R-4.0 continuous insulation
	Comments:
	Slab insulation extends down from the top of the slab to at least 2.0 ft. OR down to at least the bottom of the slab then horizontally for a total distance of 2.0 ft.
	Floor 2: All-Wood Joist/Truss:Over Unconditioned Space, R-30.0 cavity insulation
	Comments:
	Heating and Cooling Equipment:
	Air Conditioner 1: Electric Central Air: 13 SEER or higher
_	Make and Model Number:
	Equipment minimum efficiency requirement as determined in Section 403.6 and Table 503.2.3(1-9):
	Heat Pump 1: Air Source: 7.7 HSPF, 13 SEER or higher
	Make and Model Number:
	Equipment minimum efficiency requirement as determined in Section 403.6 and Table 503.2.3(1-9):
	Solar Heat Gain Coefficient:

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Report date: 08/15/12

٠		Solar Heat Gain Coefficient (SHGC) values are determined in accordance with the NFRC test procedure or taken from the default table
	Α	ir Leakage:
		Joints (including rim joist junctions), attic access openings, penetrations, and all other such openings in the building envelope that are sources of air leakage are sealed with caulk, gasketed, weatherstripped or otherwise sealed with an air barrier material, suitable film or solid material.
		Air barrier and sealing exists on common walls between dwelling units, on exterior walls behind tubs/showers, and in openings between window/door jambs and framing.
		Recessed lights in the building thermal envelope are 1) type IC rated and ASTM E283 labeled and 2) sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.
		Access doors separating conditioned from unconditioned space are weather-stripped and insulated (without insulation compression or damage) to at least the level of insulation on the surrounding surfaces. Where loose fill insulation exists, a baffle or retainer is installed to maintain insulation application.
		Wood-burning fireplaces have gasketed doors and outdoor combustion air. Automatic or gravity dampers are installed on all outdoor air intakes and exhausts.
	□ .	
		ir Sealing and Insulation:
		Building envelope air tightness and insulation installation complies by either 1) a post rough-in blower door test result of less than 7 ACH at 50 pascals OR 2) the following items have been satisfied:
		(a) Air barriers and thermal barrier: Installed on outside of air-permeable insulation and breaks or joints in the air barrier are filled or repaired.
		(b) Ceiling/attic: Air barrier in any dropped ceiling/soffit is substantially aligned with insulation and any gaps are sealed.
		(c) Above-grade walls: Insulation is installed in substantial contact and continuous alignment with the building envelope air barrier.
		(d) Floors: Air barrier is installed at any exposed edge of insulation.
		(e) Plumbing and wiring: Insulation is placed between outside and pipes. Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind piping and wiring.
		(f) Corners, headers, narrow framing cavities, and rim joists are insulated.
		(g) Shower/tub on exterior wall: Insulation exists between showers/tubs and exterior wall.
	M	aterials Identification and Installation:
		Materials and equipment are installed in accordance with the manufacturer's installation instructions.
		Materials and equipment are identified so that compliance can be determined.
		Manufacturer manuals for all installed heating and cooling equipment and service water heating equipment have been provided.
		Insulation R-values and glazing U-factors are clearly marked on the building plans or specifications.
	D	uct and Air handlers: Construction, Insulation, and Testing:
		Building framing cavities are not used as supply ducts.
200		Ducts and air handling units are installed inside both the thermal and air barrier of the home. Ducts are insulated to R-6.
	_	Exceptions:
		Exhaust air ducts.
		Factory installed plenums, casings, or ductwork furnished as a part of tested and rated HVAC equipment.
		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, and are constructed and sealed in accordance with FBC, Mechanical Section 503.2.7.2.
]	Duct tightness test has been performed by a Class 1 BERS rater according to Florida code section Section 403.2.2.1 and meets one of the following test criteria. Test report is attached.
		(1) Postconstruction leakage to outdoors test: Less than or equal to 81.6 cfm (3 cfm per 100 ft2 of conditioned floor area).
		(2) Postconstruction total leakage test (including air handler enclosure): Less than or equal to 244.8 cfm (9 cfm per 100 ft2 of conditioned floor area).
		(3) Rough-in total leakage test with air handler installed: Less than or equal to 108.8 cfm (4 cfm per 100 ft2 of conditioned floor area).
	Te	emperature Controls:
į		Where the primary heating system is a forced air-furnace, at least one programmable thermostat is installed to control the primary heating system and has set-points initialized at 70 degree F for the heating cycle and 78 degree F for the cooling cycle.
Į		Heat pumps having supplementary electric-resistance heat have controls that prevent supplemental heat operation when the compressor can meet the heating load.
[Humidistats used for comfort dehumidification have controls to prevent the use of fossil fuel or electricity to reduce humidities below 60 percent.
	He	eating, Cooling, and Ventilation Equipment:

· - 🔲 ·	Electric resistance is not used as the heat source for space heating.
	Heating and cooling equipment are sized based on building loads for the directional orientation of the building for which the load is calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies. Additional requirements per Section 403.6.1-2 are satisfied as applicable.
	For systems serving multiple dwelling units documentation has been submitted demonstrating compliance with 2010 FBC, Energy Conservation, Commercial
	Buildings designed to operate at positive indoor pressure or have mechanical ventilation meet the following criteria:
	(1) Maximum air-change-hour equal minimums from ASHRAE 62, Ventilation for Acceptable Indoor Air Quality.
	(2) No ventilation or air-conditioning system make-up air provided from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.
	(3) Air drawn from enclosed space(s) have walls insulated >= R-11 and ceiling >= R-19, space permitting, or R-10 otherwise.
5	Service Hot Water Systems:
	Water heating equipment meets minimum efficiency requirements of FBC, Energy Conservation Section 403.4.3.2 and Table 403.4.3.2 Proposed efficiency: Required efficiency:
	Circulating service hot water pipes are insulated to R-2.
	Automatic temperature controls, circulating pump manual switching, electric power switching, combustion fuel line shutoff valves are all present (as applicable) for operation when heating system is not in use,
	Storage water heaters without integral heat traps and having vertical pipe risers have heat traps installed on both the inlets and outlets. External heat traps are either a commercially available heat trap or a downward and upward bend of at least 3.5 inches in the hot and cold water lines located as close as possible to the storage tank.
H	Heating and Cooling Piping Insulation:
	HVAC piping conveying fluids above 105 degrees F or chilled fluids below 55 degrees F are insulated to R-3.
5	Swimming Pools and Spas:
	Heated pool/spas have a externally mounted on/off heater switch.
	Heaters operating on natural gas have an electronic pilot light.
	Fossil fueled heaters have a minimum 78% thermal efficiency rating.
	Heat pump heaters have a minimum 4.0 COP (testing report required).
	Portable electric spa standby power <= 5*(gallons * 0.66) watts.
	Timer switches on pool heaters and pumps are present. Exceptions:
	Where public health standards require continuous pump operation.
	Where pumps operate within solar- and/or waste-heat-recovery systems.
	Heated swimming pools and inground permanently installed spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss. Exceptions:
	Covers are not required when 70% of the heating energy is from site-recovered energy or solar energy source (over full operating season).
	Pool pump motors are NOT split-phase, shaded-pole or capacitor start-induction run types.
	Pool pumps/motors >= 1 hp have variable speed capability. Low speed has a rotation < 1/2 the motors maximum rotation rate.
	Pool pump motor controls have minimum 2 speeds with the low speed with default circulation speed set at residential filtration speed and with a higher speed override capability not to exceed the lesser of one normal cycle or 24 hours. Exceptions:
	Solar heating systems may run at higher speeds during periods of usable solar heat gain.
L	ighting Requirements:
	A minimum of 50 percent of the lamps in permanently installed lighting fixtures can be categorized as one of the following:
	(a) Compact fluorescent
	(b) T-8 or smaller diameter linear fluorescent
	(c) 40 lumens per watt for lamp wattage <= 15
	(d) 50 lumens per watt for lamp wattage > 15 and <= 40
	The individual contribution of the contributio
	(e) 60 lumens per watt for lamp wattage > 40
Е	nergy Performane Display Card:
	An energy performance level (EPL) display card must be completed and certified by the builder before final approval of the building for occupancy. Florida law (Section 553.9085, Florida Statutes) requires the EPL display card to be included as an addendum to each

. , sales contract for bo "FBC, Energy Conse	sales contract for both presold and nonpresold residential buildings. A copy of the EPL card form can be found in Appendix C of the "FBC, Energy Conservation".							
NOTES TO FIELD: (Building Department Use Only)								
					2			

Design Indoor Cooling Temp. : 72 °F

Gainsville Airport, FL

Design Indoor Heating Temp. : 70

Design Outdoor Heating Temp. : 33 °

Temp. Difference Heating :37° F

Design Outdoor Cooling Temp. : 92 ° F
Temp. Difference Cooling :20°F

Indoor Humidity: 50 Y Grains difference: 54

Whole House Load Calulator

sq. fl & cubic fl. c	T	kngth>		(115	height	Calculate	105	
Calculate Load		100000000000000000000000000000000000000	d's Cooling 957	Sensible Load 39201	Latent Loa 2756		Btu's Heatir 29763	ng
Conditioned - Sq. ft.:	2708	Cubic Ft	26242	Construction very tight	n 🗡 Duet	system: attic Y R-6	[♥] ver	ry tigh
Number of People	8					17/		
Number of Appliances	5							
Ceiling	1:1762	2 958			Help			
Floor - (linear ft. if slab)	1 224	2 142						
Sky Lights	N:0	S 0	E-W: 0	NE-NW 0	SE-SW 0			
Outside Wall. SE & SW	1:291	2:	Windows [🛩	1 0 2 0	Glass Doors [~	1 0 2 0	Doors	20
Outside Wall: NE & NW	1 260	2:	Windows x	1 42 2 0	Glass Doors x	1 20 2 0	Doors	0
Outside Wall: E & W	1 800	2 570	Windows [~	1 176 2 76	Glass Doors 1	1 20 2 0	Doors	0
Outside Wall South	1 428	2 354	Windows I 💌	1 12 2 6	Glass Doors 1	1 40 2 0	Doors	0
Outside Wall North	1 545	2 354	Windows x	1 34 2 0	Glass Doors x	1 0 2 0	Doors	0
D. Cool 20 Heat 37	Sq. ft ty	oes 1 and 2	shading	Sq. ft - types 1 and 2	shading	Sq. ft - types 1 and 2		Sq. f

chis.

equal

To change the structure & start over click here

Calculate

Btu breakdown

cubic ft .--

mehes

air change calculator

melies to fee

	Sensible	Latent	Heating
walls	4807		7940
windows	13954		7297
ceilings	4787.2		3220.48
doors	291.4		347.8
floors	81.1104		5043.37
appliances	6000		
people	1840	1600	
glass doors	2422		1776
skylights	0		0
infiltration	577	964	1958.09
duct load	4441	192	2180
Totals	39201	2756	29763

Structure types

Outside Walls 1: Siding or Stucco R19 insulation Outside Walls 2: Siding or Stucco R19 insulation

Windows 1: double pane - blinds Windows 2: double pane - blinds

Glass Doors 1: double pane no internal shade

Glass Doors 2: double pane no internal shade

Floors 1: Concrete slab R-5 edge insulation

Floor 2: closed or vented crawl R-30 insulation

Ceiling 1: Ceiling under attic space R-30

Ceiling 2: Ceiling under attic space R-30

Doors: Wood hollow core

Skylights:

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comments or suggestions

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