FORM 1100A-08

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Performance Method A

Project Name:	Lilly Family Residence	Builder Name:	Richmond American
Street:		Permit Office:	
City, State, Zip:	, Fl ,	Permit Number:	
Owner:	Lilly	Jurisdiction:	
Design Location:	FL, Jacksonville		

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	4
5. Is this a worst case?	Yes
6. Conditioned floor area (ft²)	3290

7. Windows	Description	Area
a. U-Factor:	Sgl, U=0.59	557.00 ft²
SHGC:	SHGC=0.32	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		
e. U-Factor:	N/A	ft²
SHGC:		

8. Floor Types	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	1814.00 ft²
b. Raised Floor	R=19.0	204.00 ft²
c. N/A	R=	ft²

9. Wall Types	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	3266.40 ft²
b. Frame - Wood, Adjacent	R=13.0	416.17 ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types	Insulation	Area
a. Under Attic (Vented)	R=38.0	2018.00 ft²
b. Knee Wall (Vented)	R=19.0	134.00 ft²
c. N/A	R=	ft²

11. Ducts
a. Sup: Attic Ret: Attic AH: Interior Sup. R= 6, 658 ft²

12. Cooling systems (combined)
a. Central Unit — Cap: 60.0 kBtu/hr, SEER: 15

13. Heating systems (combined)
a. Electric Heat Pump — Cap: 60.0 kBtu/hr, HSPF: 8

14. Hot water systems
a. Electric — Cap: 50 gallons, EF: 0.9
b. Conservation features
None

15. Credits: None

Glass/Floor Area: 0.169

Total As-Built Modified Loads: 54.74
Total Baseline Loads: 67.99

PASS

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

PREPARED BY: _____
DATE: _____

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: _____

PROJECT

Title:	Lilly Family Residence	Bedrooms:	4	Adress Type:	Street Address
Building Type:	FLAsBuilt	Conditioned Area:	3290	Lot #	
Owner:	Lilly	Total Stories:	2	SubDivision:	
# of Units:	1	Worst Case:	Yes	PlatBook:	
Builder Name:	Richmond American	Rotate Angle:	0	Street:	
Permit Office:		Cross Ventilation:		County:	Duval
Jurisdiction:		Whole House Fan:		City, State, Zip:	,
Family Type:	Single-family				Fl ,
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, Jacksonville	FL_JACKSONVILLE_INT	2	32	93	75	70	1281	49	Medium

FLOORS

√	#	Floor Type	Perimeter	Perimeter R-Value	Area	Joist R-Value	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	220 ft	0	1814 ft²		0	0.25	0.75
_____	2	Raised Floor			204 ft²	19	0	0.25	0.75

ROOF

√	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	Tested	Deck Insul.	Pitch
_____	1	Hip	Composition shingles	2337 ft²	0 ft²	Medium	0.96	No	0	30.3 deg

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	2018 ft²	N	N

CEILING

√	#	Ceiling Type	R-Value	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	38	1272 ft²	0.11	Wood
_____	2	Under Attic (Vented)	38	746 ft²	0.11	Wood
_____	3	Knee Wall (Vented)	19	134 ft²	0.11	Wood

WALLS

√	#	Ornt	Adjacent To	Wall Type	Cavity R-Value	Area	Sheathing R-Value	Framing Fraction	Solar Absor.
_____	1	N	Exterior	Frame - Wood	13	170 ft²		0.23	0.75
_____	2	W	Exterior	Frame - Wood	13	220 ft²		0.23	0.75
_____	3	NW	Exterior	Frame - Wood	13	50 ft²		0.23	0.75
_____	4	W	Exterior	Frame - Wood	13	30 ft²		0.23	0.75
_____	5	NW	Exterior	Frame - Wood	13	42.5 ft²		0.23	0.75

WALLS

√	#	Ornt	Adjacent To	Wall Type	Cavity R-Value	Area	Sheathing R-Value	Framing Fraction	Solar Absor.
_____	6	N	Exterior	Frame - Wood	13	80 ft²		0.23	0.75
_____	7	NE	Exterior	Frame - Wood	13	42.5 ft²		0.23	0.75
_____	8	E	Exterior	Frame - Wood	13	742.5 ft²		0.23	0.75
_____	9	S	Garage	Frame - Wood	13	111.67 ft²		0.23	0.01
_____	10	W	Garage	Frame - Wood	13	19.17 ft²		0.23	0.01
_____	11	S	Garage	Frame - Wood	13	40 ft²		0.23	0.01
_____	12	SW	Garage	Frame - Wood	13	53.33 ft²		0.23	0.01
_____	13	SE	Garage	Frame - Wood	13	30 ft²		0.23	0.01
_____	14	SW	Exterior	Frame - Wood	13	70 ft²		0.23	0.75
_____	15	S	Exterior	Frame - Wood	13	80 ft²		0.23	0.75
_____	16	W	Exterior	Frame - Wood	13	380 ft²		0.23	0.75
_____	17	N	Exterior	Frame - Wood	13	315 ft²		0.23	0.75
_____	18	E	Exterior	Frame - Wood	13	432 ft²		0.23	0.75
_____	19	S	Garage	Frame - Wood	13	162 ft²		0.23	0.01
_____	20	S	Exterior	Frame - Wood	13	179.92 ft²		0.23	0.75
_____	21	W	Exterior	Frame - Wood	13	432 ft²		0.23	0.75

DOORS

√	#	Ornt	Door Type	Storms	U-Value	Area
_____	1	SW	Wood	None	0.460000	21.33333
_____	2	SW	Insulated	None	0.460000	42.66666

WINDOWS

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

√	#	Ornt	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
_____	1	N	Metal	Low-E Single	Yes	0.59	0.32	N	120 ft²	14 ft 0 in	2 ft 0 in	HERS 2006	None
_____	2	W	Metal	Low-E Single	Yes	0.59	0.32	N	48 ft²	17 ft 0 in	2 ft 0 in	HERS 2006	None
_____	3	NW	Metal	Low-E Single	Yes	0.59	0.32	N	24 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None
_____	4	N	Metal	Low-E Single	Yes	0.59	0.32	N	36 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None
_____	5	E	Metal	Low-E Single	Yes	0.59	0.32	N	9 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None
_____	6	E	Metal	Low-E Single	Yes	0.59	0.32	N	11 ft²	1 ft 0 in	10 ft 0 in	HERS 2006	None
_____	7	E	Metal	Low-E Single	Yes	0.59	0.32	N	22 ft²	1 ft 0 in	10 ft 0 in	HERS 2006	None
_____	8	E	Metal	Low-E Single	Yes	0.59	0.32	N	6 ft²	1 ft 0 in	14 ft 10 in	HERS 2006	None
_____	9	E	Metal	Low-E Single	Yes	0.59	0.32	N	36 ft²	1 ft 0 in	9 ft 0 in	HERS 2006	None
_____	10	S	Metal	Low-E Single	Yes	0.59	0.32	N	15 ft²	8 ft 0 in	11 ft 0 in	HERS 2006	None
_____	11	S	Metal	Low-E Single	Yes	0.59	0.32	N	4.5 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None
_____	12	W	Metal	Low-E Single	Yes	0.59	0.32	N	36 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None
_____	13	N	Metal	Low-E Single	Yes	0.59	0.32	N	60 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None
_____	14	E	Metal	Low-E Single	Yes	0.59	0.32	N	15 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None
_____	15	E	Metal	Low-E Single	Yes	0.59	0.32	N	8 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None

WINDOWS

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

√	#	Ornt	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
_____	16	E	Metal	Low-E Single	Yes	0.59	0.32	N	20 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None
_____	17	S	Metal	Low-E Single	Yes	0.59	0.32	N	18 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None
_____	18	S	Metal	Low-E Single	Yes	0.59	0.32	N	4.5 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None
_____	19	W	Metal	Low-E Single	Yes	0.59	0.32	N	36 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None
_____	20	W	Metal	Low-E Single	Yes	0.59	0.32	N	20 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None
_____	21	W	Metal	Low-E Single	Yes	0.59	0.32	N	8 ft²	1 ft 0 in	1 ft 0 in	HERS 2006	None

INFILTRATION & VENTING

√	Method	SLA	CFM 50	ACH 50	ELA	EqLA	---- Forced Ventilation ---- Supply CFM	Exhaust CFM	Run Time Fraction	Fan Watts
_____	Default	0.00036	3107	5.96	170.6	320.8	0 cfm	0 cfm	0	0

GARAGE

√	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
_____	1	717.1 ft²	0 ft²	23 ft	10 ft	(invalid)

COOLING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Ducts
_____	1	Central Unit	None	SEER: 15	36 kBtu/hr	1080 cfm	0.75	sys#1
_____	2	Central Unit	None	SEER: 15	24 kBtu/hr	720 cfm	0.75	sys#0

HEATING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Ducts
_____	1	Electric Heat Pump	None	HSPF: 8	36 kBtu/hr	sys#1
_____	2	Electric Heat Pump	None	HSPF: 8	24 kBtu/hr	sys#0

HOT WATER SYSTEM

√	#	System Type	EF	Cap	Use	SetPnt	Conservation
_____	1	Electric	0.9	50 gal	70 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
_____	1	Attic	6	658 ft²	Attic	164.5 ft	Default Leakage	Interior	(Default)	(Default) %		

TEMPERATURES

Programable Thermostat: N

Ceiling Fans:

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

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	78	78	78	78
	PM	78	78	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	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68
Heating (WEH)	AM	68	68	68	68	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	68

FORM 1100A-08

Code Compliance Cheklist

Residential Whole Building Performance Method A - Details

ADDRESS:	PERMIT #:
, Fl,	

INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	N1106.AB.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	N1106.AB.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	N1106.AB.1.2.2	Penetrations/openings > 1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	N1106.AB.1.2.3	Between walls & ceilings; penetrations of ceiling plane to top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	N1106.AB.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	N1106.AB.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	N1106.AB.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	N1112.AB.3	Comply with efficiency requirements in Table N112.ABC.3. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	N1112.AB.2.3	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%. Heat pump pool heaters shall have a minimum COP of 4.0.	
Shower heads	N1112.AB.2.4	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	N1110.AB	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated and installed in accordance with the criteria of Section N1110.AB. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	N1107.AB.2	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	N1104.AB.1 N1102.B.1.1	Ceilings-Min. R-19. Common walls-frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 81

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

, , 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		4
5. Is this a worst case?		Yes
6. Conditioned floor area (ft²)		3290

7. Windows**	Description	Area
a. U-Factor: SHGC:	Sgl, U=0.59 SHGC=0.32	557.00 ft²
b. U-Factor: SHGC:	N/A	ft²
c. U-Factor: SHGC:	N/A	ft²
d. U-Factor: SHGC:	N/A	ft²
e. U-Factor: SHGC:	N/A	ft²

8. Floor Types	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	1814.00 ft²
b. Raised Floor	R=19.0	204.00 ft²
c. N/A	R=	ft²

9. Wall Types	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	3266.40 ft²
b. Frame - Wood, Adjacent	R=13.0	416.17 ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types	Insulation	Area
a. Under Attic (Vented)	R=38.0	2018.00 ft²
b. Knee Wall (Vented)	R=19.0	134.00 ft²
c. N/A	R=	ft²

11. Ducts
a. Sup: Attic Ret: Attic AH: Interior Sup. R= 6, 658 ft²

12. Cooling systems (combined)
a. Central Unit — Cap: 60.0 kBtu/hr, SEER: 15

13. Heating systems (combined)
a. Electric Heat Pump — Cap: 60.0 kBtu/hr, HSPF: 8

14. Hot water systems
a. Electric — Cap: 50 gallons, EF: 0.9
b. Conservation features: None

15. Credits: None

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: The home's estimated Energy Performance Index is only available through the EnergyGauge USA - FlaRes2008 computer program. This is not a Building Energy Rating. If your Index is below 100, your home may qualify for incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at (321) 638-1492 or see the Energy Gauge web site at energygauge.com for information and a list of certified Raters. For information about Florida's Energy Efficiency Code for Building Construction, contact the Department of Community Affairs at (850) 487-1824.

**Label required by Section 13-104.4.5 of the Florida Building Code, Building, or Section B2.1.1 of Appendix G of the Florida Building Code, Residential, if not DEFAULT.

A/C Designs of St. Augustine, Inc.

Project Summary
Entire House
A/C Designs of St. Augustine Inc.

Job: Lilly Family Residence
Date: Sep 22, 2009
By:

Project Information

For: Lilly
FI

Notes: Custom Home

Design Information

Weather: Jacksonville, Cecil Field NAS, FL, US

Winter Design Conditions

Outside db	34	°F
Inside db	70	°F
Design TD	36	°F

Summer Design Conditions

Outside db	95	°F
Inside db	75	°F
Design TD	20	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	40	gr/lb

Heating Summary

Structure	44901	Btuh
Ducts	4860	Btuh
Central vent (112 cfm)	0	Btuh
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	49761	Btuh

Sensible Cooling Equipment Load Sizing

Structure	34472	Btuh
Ducts	5433	Btuh
Central vent (112 cfm)	0	Btuh
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	1.00	
Equipment sensible load	39905	Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	3290	3290
Volume (ft³)	31628	31628
Air changes/hour	0.28	0.15
Equiv. AVF (cfm)	148	79

Latent Cooling Equipment Load Sizing

Structure	2556	Btuh
Ducts	935	Btuh
Central vent (112 cfm)	0	Btuh
Equipment latent load	3492	Btuh
Equipment total load	43397	Btuh
Req. total capacity at 0.70 SHR	4.8	ton

Heating Equipment Summary

Make	n/a
Trade	n/a
Model	n/a

Efficiency	n/a	
Heating input		
Heating output	0	Btuh
Temperature rise	0	°F
Actual air flow	0	cfm
Air flow factor	0.000	cfm/Btuh
Static pressure	0.00	in H2O
Space thermostat	n/a	

Cooling Equipment Summary

Make	n/a
Trade	n/a
Cond	n/a
Coil	n/a

Efficiency	n/a	
Sensible cooling	0	Btuh
Latent cooling	0	Btuh
Total cooling	0	Btuh
Actual air flow	0	cfm
Air flow factor	0.000	cfm/Btuh
Static pressure	0.00	in H2O
Load sensible heat ratio	0.00	

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

Project Summary
Master Bdrm Zone
A/C Designs of St. Augustine Inc.

Job: Lilly Family Residence
Date: Sep 22, 2009
By:

Project Information

For: Lilly
FI

Notes: Custom Home

Design Information

Weather: Jacksonville, Cecil Field NAS, FL, US

Winter Design Conditions

Outside db	34	°F
Inside db	70	°F
Design TD	36	°F

Summer Design Conditions

Outside db	95	°F
Inside db	75	°F
Design TD	20	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	40	gr/lb

Heating Summary

Structure	11382	Btuh
Ducts	1108	Btuh
Central vent (29 cfm)	1139	Btuh
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	13629	Btuh

Sensible Cooling Equipment Load Sizing

Structure	10504	Btuh
Ducts	1166	Btuh
Central vent (29 cfm)	633	Btuh
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	1.00	
Equipment sensible load	12303	Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	747	747
Volume (ft³)	7470	7470
Air changes/hour	0.32	0.17
Equiv. AVF (cfm)	40	21

Latent Cooling Equipment Load Sizing

Structure	979	Btuh
Ducts	193	Btuh
Central vent (29 cfm)	785	Btuh
Equipment latent load	1957	Btuh
Equipment total load	14260	Btuh
Req. total capacity at 0.75 SHR	1.4	ton

Heating Equipment Summary

Make	Goodman Mfg.
Trade	GOODMAN, JANITROL, AMANA DISTINCTIONS, EVERREST, GOODMAN, JANITROL, AMANA DISTINCTIONS, INC, ERR
Model	SSZ140181A*
Efficiency	8.5 HSPF
Heating input	
Heating output	18000 Btuh @ 47°F
Temperature rise	26 °F
Actual air flow	633 cfm
Air flow factor	0.051 cfm/Btuh
Static pressure	0.00 in H2O
Space thermostat	

Cooling Equipment Summary

Make	Goodman Mfg.
Trade	GOODMAN, JANITROL, AMANA DISTINCTIONS, EVERREST, GOODMAN, JANITROL, AMANA DISTINCTIONS, INC, ERR
Cond	SSZ140181A*
Coil	AEPF183016C*++TXV
Efficiency	15 SEER
Sensible cooling	14250 Btuh
Latent cooling	4750 Btuh
Total cooling	19000 Btuh
Actual air flow	633 cfm
Air flow factor	0.054 cfm/Btuh
Static pressure	0.00 in H2O
Load sensible heat ratio	0.86

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

A/C Designs of St. Augustine, Inc.

Project Summary
Down & Upstairs
A/C Designs of St. Augustine Inc.

Job: Lilly Family Residence
Date: Sep 22, 2009
By:

Project Information

For: Lilly
FI

Notes: Custom Home

Design Information

Weather: Jacksonville, Cecil Field NAS, FL, US

Winter Design Conditions

Outside db	34	°F
Inside db	70	°F
Design TD	36	°F

Summer Design Conditions

Outside db	95	°F
Inside db	75	°F
Design TD	20	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	40	gr/lb

Heating Summary

Structure	33519	Btuh
Ducts	3752	Btuh
Central vent (83 cfm)	3290	Btuh
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	40561	Btuh

Sensible Cooling Equipment Load Sizing

Structure	24428	Btuh
Ducts	4339	Btuh
Central vent (83 cfm)	1828	Btuh
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	1.00	
Equipment sensible load	30595	Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	2543	2543
Volume (ft³)	24158	24158
Air changes/hour	0.27	0.14
Equiv. AVF (cfm)	108	58

Latent Cooling Equipment Load Sizing

Structure	1577	Btuh
Ducts	742	Btuh
Central vent (83 cfm)	2266	Btuh
Equipment latent load	4585	Btuh
Equipment total load	35180	Btuh
Req. total capacity at 0.75 SHR	3.4	ton

Heating Equipment Summary

Make	Goodman Mfg.
Trade	GOODMAN, JANITROL, AMANA DISTINCTIONS, EVERREST, GOODMAN, JANITROL, AMANA DISTINCTIONS, INTELLIGENT
Model	SSZ140361A*

Efficiency	9 HSPF	
Heating input		
Heating output	34600	Btuh @ 47°F
Temperature rise	26	°F
Actual air flow	1200	cfm
Air flow factor	0.032	cfm/Btuh
Static pressure	0.00	in H2O
Space thermostat		

Cooling Equipment Summary

Make	Goodman Mfg.
Trade	GOODMAN, JANITROL, AMANA DISTINCTIONS, EVERREST, GOODMAN, JANITROL, AMANA DISTINCTIONS, INTELLIGENT
Cond	SSZ140361A*
Coil	AEPF313716A*++TXV

Efficiency	15 SEER	
Sensible cooling	27000	Btuh
Latent cooling	9000	Btuh
Total cooling	36000	Btuh
Actual air flow	1200	cfm
Air flow factor	0.042	cfm/Btuh
Static pressure	0.00	in H2O
Load sensible heat ratio	0.87	

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A/C Designs of St. Augustine, Inc.

Right-J Worksheet
Entire House
A/C Designs of St. Augustine Inc.

Job: Lilly Family Residence
Date: Sep 22, 2009
By:

							Entire House				Master Bdrm Zone			
1	Room name													
2	Exposed wall						220.0 ft				76.0 ft			
3	Ceiling height						9.6 ft				10.0 ft			
4	Room dimensions													
5	Room area						3290.0 ft²				747.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12C-0sw	0.091	n	3.28	2.41	170	50	164	121	0	0	0	0
.	└G	61B	0.740	n	26.64	21.65	120	0	3197	2598	0	0	0	0
.	W	12C-0sw	0.091	n	3.28	2.41	80	56	183	135	80	56	183	135
.	└G	61A	0.740	n	26.64	21.65	24	0	639	520	24	0	639	520
11	W	12C-0sw	0.091	n	3.28	2.41	315	255	835	615	0	0	0	0
	└G	61A	0.740	n	26.64	21.65	60	0	1598	1299	0	0	0	0
	W	12C-0sw	0.091	ne	3.28	2.41	43	43	139	102	43	43	139	102
	W	12C-0sw	0.091	e	3.28	2.41	743	659	2157	1588	412	370	1212	892
	├G	61A	0.740	e	26.64	46.46	9	0	240	418	9	0	240	418
	├G	61A	0.740	e	26.64	46.46	11	0	293	511	11	0	293	511
	├G	61A	0.740	e	26.64	46.46	22	0	586	1022	22	0	586	1022
	├G	61A	0.740	e	26.64	46.46	6	0	160	279	0	0	0	0
	└G	61A	0.740	e	26.64	46.46	36	0	959	1672	0	0	0	0
	W	12C-0sw	0.091	e	3.28	2.41	432	389	1274	938	0	0	0	0
	├G	61A	0.740	e	26.64	46.46	15	0	400	697	0	0	0	0
	├G	61A	0.740	e	26.64	46.46	8	0	213	372	0	0	0	0
	└G	61A	0.740	e	26.64	46.46	20	0	533	929	0	0	0	0
	W	12C-0sw	0.091	s	3.28	2.41	80	61	198	146	0	0	0	0
	├G	61A	0.740	s	26.64	21.65	15	15	400	325	0	0	0	0
	└G	61A	0.740	s	26.64	21.65	5	5	120	97	0	0	0	0
	W	12C-0sw	0.091	s	3.28	2.41	180	157	516	380	0	0	0	0
	├G	61A	0.740	s	26.64	22.30	18	13	480	401	0	0	0	0
	└G	61A	0.740	s	26.64	21.65	5	5	120	97	0	0	0	0
	W	12C-0sw	0.091	sw	3.28	2.41	70	27	90	66	0	0	0	0
	└D	11J0	0.600	sw	21.60	18.90	43	43	921	806	0	0	0	0
	W	12C-0sw	0.091	w	3.28	2.41	220	172	563	415	220	172	563	415
	└G	61C	0.740	w	26.64	21.65	48	48	1279	1039	48	48	1279	1039
	W	12C-0sw	0.091	w	3.28	2.41	30	30	98	72	30	30	98	72
	W	12C-0sw	0.091	w	3.28	2.41	380	344	1127	830	0	0	0	0
	└G	61A	0.740	w	26.64	46.46	36	0	959	1672	0	0	0	0
	W	12C-0sw	0.091	w	3.28	2.41	432	368	1206	887	0	0	0	0
	├G	61A	0.740	w	26.64	46.46	36	0	959	1672	0	0	0	0
	├G	61A	0.740	w	26.64	46.46	20	0	533	929	0	0	0	0
	└G	61A	0.740	w	26.64	46.46	8	0	213	372	0	0	0	0
	W	12C-0sw	0.091	nw	3.28	2.41	50	26	85	63	50	26	85	63
	└G	61A	0.740	nw	26.64	36.90	24	0	639	886	24	0	639	886
	W	12C-0sw	0.091	nw	3.28	2.41	43	43	139	102	43	43	139	102
	P	12C-0sw	0.091	-	3.28	1.51	112	112	366	169	0	0	0	0
	P	12C-0sw	0.091	-	3.28	1.51	19	19	63	29	0	0	0	0
	P	12C-0sw	0.091	-	3.28	1.51	40	40	131	60	0	0	0	0
	P	12C-0sw	0.091	-	3.28	1.51	53	32	105	48	0	0	0	0
	└D	11D0	0.390	n	14.04	12.28	21	21	299	262	0	0	0	0
	P	12C-0sw	0.091	-	3.28	1.51	30	30	98	45	0	0	0	0
	P	12C-0sw	0.091	-	3.28	1.51	162	162	531	245	0	0	0	0
	C	16B-38ad	0.026	-	0.94	1.43	2018	2018	1889	2886	0	0	0	0
	C	16B-19ad	0.049	-	1.76	2.69	134	134	236	361	0	0	0	0
	F	22A-tph	1.358	-	48.89	0.00	3290	220	10755	0	747	76	3715	0
	F	20P-19t	0.050	-	1.80	0.75	204	0	367	153	0	0	0	0
6	c) AED excursion									0				459
	Envelope loss/gain								39056	29333			9813	6637
12	a) Infiltration								5845	1740			1569	467
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @	500				2			1000	2			1000
		Appliances @	1200				2			2400	2			2400
	Subtotal (lines 6 to 13)								44901	34472			11382	10504
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								44901	34472			11382	10504
15	Duct loads						11%	16%	4860	5433	10%	11%	1108	1166
	Total room load								49761	39905			12490	11670
	Air required (cfm)								1833	1833			633	633

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

Right-J Worksheet
Entire House
A/C Designs of St. Augustine Inc.

Job: Lilly Family Residence
Date: Sep 22, 2009
By:

1	Room name						Down & Upstairs								
2	Exposed wall						144.0 ft								
3	Ceiling height						9.5 ft								
4	Room dimensions														
5	Room area						2543.0 ft²								
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area or perimeter		Load	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12C-0sw	0.091	n	3.28	2.41	170	50	164	121				
.	└─G	61B	0.740	n	26.64	21.65	120	0	3197	2598				
.	W	12C-0sw	0.091	n	3.28	2.41	0	0	0	0				
.	└─G	61A	0.740	n	26.64	21.65	0	0	0	0				
11	W	12C-0sw	0.091	n	3.28	2.41	315	255	835	615				
	└─G	61A	0.740	n	26.64	21.65	60	0	1598	1299				
	W	12C-0sw	0.091	ne	3.28	2.41	0	0	0	0				
	W	12C-0sw	0.091	e	3.28	2.41	331	289	945	696				
	├─G	61A	0.740	e	26.64	46.46	0	0	0	0				
	├─G	61A	0.740	e	26.64	46.46	0	0	0	0				
	├─G	61A	0.740	e	26.64	46.46	0	0	0	0				
	├─G	61A	0.740	e	26.64	46.46	6	0	160	279				
	└─G	61A	0.740	e	26.64	46.46	36	0	959	1672				
	W	12C-0sw	0.091	e	3.28	2.41	432	389	1274	938				
	├─G	61A	0.740	e	26.64	46.46	15	0	400	697				
	├─G	61A	0.740	e	26.64	46.46	8	0	213	372				
	└─G	61A	0.740	e	26.64	46.46	20	0	533	929				
	W	12C-0sw	0.091	s	3.28	2.41	80	61	198	146				
	├─G	61A	0.740	s	26.64	21.65	15	15	400	325				
	└─G	61A	0.740	s	26.64	21.65	5	5	120	97				
	W	12C-0sw	0.091	s	3.28	2.41	180	157	516	380				
	├─G	61A	0.740	s	26.64	22.30	18	13	480	401				
	└─G	61A	0.740	s	26.64	21.65	5	5	120	97				
	W	12C-0sw	0.091	sw	3.28	2.41	70	27	90	66				
	└─D	11J0	0.600	sw	21.60	18.90	43	43	921	806				
	W	12C-0sw	0.091	w	3.28	2.41	0	0	0	0				
	└─G	61C	0.740	w	26.64	21.65	0	0	0	0				
	W	12C-0sw	0.091	w	3.28	2.41	0	0	0	0				
	W	12C-0sw	0.091	w	3.28	2.41	380	344	1127	830				
	└─G	61A	0.740	w	26.64	46.46	36	0	959	1672				
	W	12C-0sw	0.091	w	3.28	2.41	432	368	1206	887				
	├─G	61A	0.740	w	26.64	46.46	36	0	959	1672				
	├─G	61A	0.740	w	26.64	46.46	20	0	533	929				
	└─G	61A	0.740	w	26.64	46.46	8	0	213	372				
	W	12C-0sw	0.091	nw	3.28	2.41	0	0	0	0				
	└─G	61A	0.740	nw	26.64	36.90	0	0	0	0				
	W	12C-0sw	0.091	nw	3.28	2.41	0	0	0	0				
	P	12C-0sw	0.091	-	3.28	1.51	112	112	366	169				
	P	12C-0sw	0.091	-	3.28	1.51	19	19	63	29				
	P	12C-0sw	0.091	-	3.28	1.51	40	40	131	60				
	P	12C-0sw	0.091	-	3.28	1.51	53	32	105	48				
	└─D	11D0	0.390	n	14.04	12.28	21	21	299	262				
	P	12C-0sw	0.091	-	3.28	1.51	30	30	98	45				
	P	12C-0sw	0.091	-	3.28	1.51	162	162	531	245				
	C	16B-38ad	0.026	-	0.94	1.43	2018	2018	1889	2886				
	C	16B-19ad	0.049	-	1.76	2.69	134	134	236	361				
	F	22A-tph	1.358	-	48.89	0.00	2543	144	7040	0				
	F	20P-19t	0.050	-	1.80	0.75	204	0	367	153				
6	c) AED excursion									0				
	Envelope loss/gain								29244	23155				
12	a) Infiltration								4276	1272				
	b) Room ventilation								0	0				
13	Internal gains:	Occupants @ 500					0			0				
		Appliances @ 1200					0			0				
	Subtotal (lines 6 to 13)								33519	24428				
	Less external load								0	0				
	Less transfer								0	0				
	Redistribution								0	0				
14	Subtotal								33519	24428				
15	Duct loads						11%	18%	3752	4339				
	Total room load								37271	28767				
	Air required (cfm)								1200	1200				

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Right-J Worksheet
Master Bdrm Zone
A/C Designs of St. Augustine Inc.

Job: Lilly Family Residence
Date: Sep 22, 2009
By:

							Master Bdrm Zone 76.0 ft 10.0 ft 747.0 ft²				Master Bedroom 76.0 ft 10.0 ft heat/cool 747.0 x 1.0 ft 747.0 ft²			
1	Room name													
2	Exposed wall													
3	Ceiling height													
4	Room dimensions													
5	Room area													
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12C-0sw	0.091	n	3.28	2.41	0	0	0	0	0	0	0	0
.	└G	61B	0.740	n	26.64	21.65	0	0	0	0	0	0	0	0
.	W	12C-0sw	0.091	n	3.28	2.41	80	56	183	135	80	56	183	135
.	└G	61A	0.740	n	26.64	21.65	24	0	639	520	24	0	639	520
11	W	12C-0sw	0.091	n	3.28	2.41	0	0	0	0	0	0	0	0
	└G	61A	0.740	n	26.64	21.65	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	ne	3.28	2.41	43	43	139	102	43	43	139	102
	W	12C-0sw	0.091	e	3.28	2.41	412	370	1212	892	412	370	1212	892
	├G	61A	0.740	e	26.64	46.46	9	0	240	418	9	0	240	418
	├G	61A	0.740	e	26.64	46.46	11	0	293	511	11	0	293	511
	├G	61A	0.740	e	26.64	46.46	22	0	586	1022	22	0	586	1022
	├G	61A	0.740	e	26.64	46.46	0	0	0	0	0	0	0	0
	└G	61A	0.740	e	26.64	46.46	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	e	3.28	2.41	0	0	0	0	0	0	0	0
	├G	61A	0.740	e	26.64	46.46	0	0	0	0	0	0	0	0
	├G	61A	0.740	e	26.64	46.46	0	0	0	0	0	0	0	0
	└G	61A	0.740	e	26.64	46.46	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	s	3.28	2.41	0	0	0	0	0	0	0	0
	├G	61A	0.740	s	26.64	24.09	0	0	0	0	0	0	0	0
	└G	61A	0.740	s	26.64	24.09	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	s	3.28	2.41	0	0	0	0	0	0	0	0
	├G	61A	0.740	s	26.64	24.09	0	0	0	0	0	0	0	0
	└G	61A	0.740	s	26.64	24.09	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	sw	3.28	2.41	0	0	0	0	0	0	0	0
	└D	11J0	0.600	sw	21.60	18.90	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	w	3.28	2.41	220	172	563	415	220	172	563	415
	└G	61C	0.740	w	26.64	46.46	48	48	1279	1039	48	48	1279	1039
	W	12C-0sw	0.091	w	3.28	2.41	30	30	98	72	30	30	98	72
	W	12C-0sw	0.091	w	3.28	2.41	0	0	0	0	0	0	0	0
	└G	61A	0.740	w	26.64	46.46	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	w	3.28	2.41	0	0	0	0	0	0	0	0
	├G	61A	0.740	w	26.64	46.46	0	0	0	0	0	0	0	0
	├G	61A	0.740	w	26.64	46.46	0	0	0	0	0	0	0	0
	└G	61A	0.740	w	26.64	46.46	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	nw	3.28	2.41	50	26	85	63	50	26	85	63
	└G	61A	0.740	nw	26.64	36.90	24	0	639	886	24	0	639	886
	W	12C-0sw	0.091	nw	3.28	2.41	43	43	139	102	43	43	139	102
	P	12C-0sw	0.091	-	3.28	1.51	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	3.28	1.51	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	3.28	1.51	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	3.28	1.51	0	0	0	0	0	0	0	0
	└D	11D0	0.390	n	14.04	12.28	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	3.28	1.51	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	3.28	1.51	0	0	0	0	0	0	0	0
	C	16B-38ad	0.026	-	0.94	1.43	0	0	0	0	0	0	0	0
	C	16B-19ad	0.049	-	1.76	2.69	0	0	0	0	0	0	0	0
	F	22A-tph	1.358	-	48.89	0.00	747	76	3715	0	747	76	3715	0
	F	20P-19t	0.050	-	1.80	0.75	0	0	0	0	0	0	0	0
6	c) AED excursion									459				459
	Envelope loss/gain								9813	6637			9813	6637
12	a) Infiltration								1569	467			1569	467
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @ 500					2			1000	2			1000
		Appliances @ 1200					2			2400	2			2400
	Subtotal (lines 6 to 13)								11382	10504			11382	10504
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								11382	10504			11382	10504
15	Duct loads						10%	11%	1108	1166	10%	11%	1108	1166
	Total room load								12490	11670			12490	11670
	Air required (cfm)								633	633			633	633

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Right-J Worksheet
Down & Upstairs
A/C Designs of St. Augustine Inc.

Job: Lilly Family Residence
Date: Sep 22, 2009
By:

							Down & Upstairs				Living			
1	Room name													
2	Exposed wall						144.0 ft				144.0 ft			
3	Ceiling height						9.5 ft				10.0 ft			heat/cool
4	Room dimensions										1271.0 x 1.0 ft			
5	Room area						2543.0 ft²				1271.0 ft²			
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area (ft²) or perimeter (ft)		Load (Btuh)	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12C-0sw	0.091	n	3.28	2.41	170	50	164	121	170	50	164	121
.	└G	61B	0.740	n	26.64	21.65	120	0	3197	2598	120	0	3197	2598
.	W	12C-0sw	0.091	n	3.28	2.41	0	0	0	0	0	0	0	0
.	└G	61A	0.740	n	26.64	21.65	0	0	0	0	0	0	0	0
11	W	12C-0sw	0.091	n	3.28	2.41	315	255	835	615	0	0	0	0
	└G	61A	0.740	n	26.64	21.65	60	0	1598	1299	0	0	0	0
	W	12C-0sw	0.091	ne	3.28	2.41	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	e	3.28	2.41	331	289	945	696	331	289	945	696
	├G	61A	0.740	e	26.64	46.46	0	0	0	0	0	0	0	0
	├G	61A	0.740	e	26.64	46.46	0	0	0	0	0	0	0	0
	├G	61A	0.740	e	26.64	46.46	0	0	0	0	0	0	0	0
	├G	61A	0.740	e	26.64	46.46	6	0	160	279	6	0	160	279
	└G	61A	0.740	e	26.64	46.46	36	0	959	1672	36	0	959	1672
	W	12C-0sw	0.091	e	3.28	2.41	432	389	1274	938	0	0	0	0
	├G	61A	0.740	e	26.64	46.46	15	0	400	697	0	0	0	0
	├G	61A	0.740	e	26.64	46.46	8	0	213	372	0	0	0	0
	└G	61A	0.740	e	26.64	46.46	20	0	533	929	0	0	0	0
	W	12C-0sw	0.091	s	3.28	2.41	80	61	198	146	80	61	198	146
	├G	61A	0.740	s	26.64	24.09	15	15	400	325	15	15	400	325
	└G	61A	0.740	s	26.64	24.09	5	5	120	97	5	5	120	97
	W	12C-0sw	0.091	s	3.28	2.41	180	157	516	380	0	0	0	0
	├G	61A	0.740	s	26.64	24.09	18	13	480	401	0	0	0	0
	└G	61A	0.740	s	26.64	24.09	5	5	120	97	0	0	0	0
	W	12C-0sw	0.091	sw	3.28	2.41	70	27	90	66	70	27	90	66
	└D	11J0	0.600	sw	21.60	18.90	43	43	921	806	43	43	921	806
	W	12C-0sw	0.091	w	3.28	2.41	0	0	0	0	0	0	0	0
	└G	61C	0.740	w	26.64	46.46	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	w	3.28	2.41	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	w	3.28	2.41	380	344	1127	830	380	344	1127	830
	└G	61A	0.740	w	26.64	46.46	36	0	959	1672	36	0	959	1672
	W	12C-0sw	0.091	w	3.28	2.41	432	368	1206	887	0	0	0	0
	├G	61A	0.740	w	26.64	46.46	36	0	959	1672	0	0	0	0
	├G	61A	0.740	w	26.64	46.46	20	0	533	929	0	0	0	0
	└G	61A	0.740	w	26.64	46.46	8	0	213	372	0	0	0	0
	W	12C-0sw	0.091	nw	3.28	2.41	0	0	0	0	0	0	0	0
	└G	61A	0.740	nw	26.64	36.90	0	0	0	0	0	0	0	0
	W	12C-0sw	0.091	nw	3.28	2.41	0	0	0	0	0	0	0	0
	P	12C-0sw	0.091	-	3.28	1.51	112	112	366	169	112	112	366	169
	P	12C-0sw	0.091	-	3.28	1.51	19	19	63	29	19	19	63	29
	P	12C-0sw	0.091	-	3.28	1.51	40	40	131	60	40	40	131	60
	P	12C-0sw	0.091	-	3.28	1.51	53	32	105	48	53	32	105	48
	└D	11D0	0.390	n	14.04	12.28	21	21	299	262	21	21	299	262
	P	12C-0sw	0.091	-	3.28	1.51	30	30	98	45	30	30	98	45
	P	12C-0sw	0.091	-	3.28	1.51	162	162	531	245	0	0	0	0
	C	16B-38ad	0.026	-	0.94	1.43	2018	2018	1889	2886	746	746	698	1067
	C	16B-19ad	0.049	-	1.76	2.69	134	134	236	361	134	134	236	361
	F	22A-tph	1.358	-	48.89	0.00	2543	144	7040	0	1271	144	7040	0
	F	20P-19t	0.050	-	1.80	0.75	204	0	367	153	204	0	367	153
6	c) AED excursion									0				0
	Envelope loss/gain								29244	23155			18643	11503
12	a) Infiltration								4276	1272			1844	549
	b) Room ventilation								0	0			0	0
13	Internal gains:	Occupants @	500				0			0	0			0
		Appliances @	1200				0			0	0			0
	Subtotal (lines 6 to 13)								33519	24428			20487	12051
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								33519	24428			20487	12051
15	Duct loads						11%	18%	3752	4339	11%	16%	2221	1872
	Total room load								37271	28767			22708	13924
	Air required (cfm)								1200	1200			731	581

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Right-J Worksheet
Down & Upstairs
A/C Designs of St. Augustine Inc.

Job: Lilly Family Residence
Date: Sep 22, 2009
By:

1	Room name					Bedrooms									
2	Exposed wall					0.0 ft									
3	Ceiling height					9.0 ft				heat/cool					
4	Room dimensions					1272.0 x 1.0 ft									
5	Room area					1272.0 ft²									
	Ty	Construction number	U-value (Btuh/ft²-°F)	Or	HTM (Btuh/ft²)		Area (ft²) or perimeter (ft)		Load (Btuh)		Area or perimeter		Load	
					Heat	Cool	Gross	N/P/S	Heat	Cool	Gross	N/P/S	Heat	Cool
6	W	12C-0sw	0.091	n	3.28	2.41	0	0	0	0				
.	└G	61B	0.740	n	26.64	21.65	0	0	0	0				
.	W	12C-0sw	0.091	n	3.28	2.41	0	0	0	0				
.	└G	61A	0.740	n	26.64	21.65	0	0	0	0				
11	W	12C-0sw	0.091	n	3.28	2.41	315	255	835	615				
	└G	61A	0.740	n	26.64	21.65	60	0	1598	1299				
	W	12C-0sw	0.091	ne	3.28	2.41	0	0	0	0				
	W	12C-0sw	0.091	e	3.28	2.41	0	0	0	0				
	├G	61A	0.740	e	26.64	46.46	0	0	0	0				
	├G	61A	0.740	e	26.64	46.46	0	0	0	0				
	├G	61A	0.740	e	26.64	46.46	0	0	0	0				
	├G	61A	0.740	e	26.64	46.46	0	0	0	0				
	└G	61A	0.740	e	26.64	46.46	0	0	0	0				
	W	12C-0sw	0.091	e	3.28	2.41	432	389	1274	938				
	├G	61A	0.740	e	26.64	46.46	15	0	400	697				
	├G	61A	0.740	e	26.64	46.46	8	0	213	372				
	└G	61A	0.740	e	26.64	46.46	20	0	533	929				
	W	12C-0sw	0.091	s	3.28	2.41	0	0	0	0				
	├G	61A	0.740	s	26.64	24.09	0	0	0	0				
	└G	61A	0.740	s	26.64	24.09	0	0	0	0				
	W	12C-0sw	0.091	s	3.28	2.41	180	157	516	380				
	├G	61A	0.740	s	26.64	24.09	18	13	480	401				
	└G	61A	0.740	s	26.64	24.09	5	5	120	97				
	W	12C-0sw	0.091	sw	3.28	2.41	0	0	0	0				
	└D	11J0	0.600	sw	21.60	18.90	0	0	0	0				
	W	12C-0sw	0.091	w	3.28	2.41	0	0	0	0				
	└G	61C	0.740	w	26.64	46.46	0	0	0	0				
	W	12C-0sw	0.091	w	3.28	2.41	0	0	0	0				
	W	12C-0sw	0.091	w	3.28	2.41	0	0	0	0				
	└G	61A	0.740	w	26.64	46.46	0	0	0	0				
	W	12C-0sw	0.091	w	3.28	2.41	432	368	1206	887				
	├G	61A	0.740	w	26.64	46.46	36	0	959	1672				
	├G	61A	0.740	w	26.64	46.46	20	0	533	929				
	└G	61A	0.740	w	26.64	46.46	8	0	213	372				
	W	12C-0sw	0.091	nw	3.28	2.41	0	0	0	0				
	└G	61A	0.740	nw	26.64	36.90	0	0	0	0				
	W	12C-0sw	0.091	nw	3.28	2.41	0	0	0	0				
	P	12C-0sw	0.091	-	3.28	1.51	0	0	0	0				
	P	12C-0sw	0.091	-	3.28	1.51	0	0	0	0				
	P	12C-0sw	0.091	-	3.28	1.51	0	0	0	0				
	P	12C-0sw	0.091	-	3.28	1.51	0	0	0	0				
	└D	11D0	0.390	n	14.04	12.28	0	0	0	0				
	P	12C-0sw	0.091	-	3.28	1.51	0	0	0	0				
	P	12C-0sw	0.091	-	3.28	1.51	162	162	531	245				
	C	16B-38ad	0.026	-	0.94	1.43	1272	1272	1191	1819				
	C	16B-19ad	0.049	-	1.76	2.69	0	0	0	0				
	F	22A-tph	1.358	-	48.89	0.00	1272	0	0	0				
	F	20P-19t	0.050	-	1.80	0.75	0	0	0	0				
6	c) AED excursion									0				
	Envelope loss/gain								10601	11653				
12	a) Infiltration								2432	724				
	b) Room ventilation								0	0				
13	Internal gains:	Occupants @ 500					0			0				
		Appliances @ 1200					0			0				
	Subtotal (lines 6 to 13)								13032	12376				
	Less external load								0	0				
	Less transfer								0	0				
	Redistribution								0	0				
14	Subtotal								13032	12376				
15	Duct loads						12%	20%	1531	2467				
	Total room load								14563	14843				
	Air required (cfm)								469	619				

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