

Wrightsoft® Load Short Form
Entire House
HOGLE'S HEATING & AIR

Job: PERSONEL HOME
 Date: May 08, 2013
 By: W.D.HOGLE

13815 NW 39TH AVE, GAINESVILLE, FL 32606 Phone 352-332-1508 Fax: 352-332-1501 License CACO-58124

Project Information

For: THE BRADLEY RESIDENCE, BILL CASON BUIDERS
 FL

Design Information

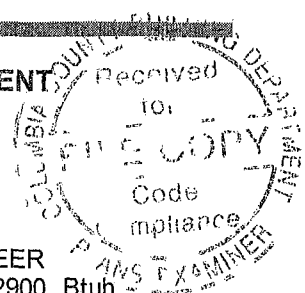
	Htg	Clg	Infiltration
Outside db (°F)	33	92	Method
Inside db (°F)	70	75	Construction quality
Design TD (°F)	37	17	Fireplaces
Daily range	-	M	
Inside humidity (%)	30	50	Simplified
Moisture difference (gr/lb)	11	52	Average
			0

HEATING EQUIPMENT

Make RHEEM
 Trade
 Model 13PJL48A01
 AHRI ref no3405590
 Efficiency 9 HSPF
 Heating input
 Heating output 45500 Btuh @ 47°F
 Temperature rise 26 °F
 Actual air flow 1600 cfm
 Air flow factor 0.050 cfm/Btuh
 Static pressure 0 in H2O
 Space thermostat

COOLING EQUIPMENT

Make RHEEM
 Trade
 Cond 13PJL48A01
 Coil RHLLHM4824JA
 AHRI ref no3405590
 Efficiency 14 SEER
 Sensible cooling 32900 Btuh
 Latent cooling 14100 Btuh
 Total cooling 47000 Btuh
 Actual air flow 1600 cfm
 Air flow factor 0.044 cfm/Btuh
 Static pressure 0 in H2O
 Load sensible heat ratio 0.85



ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
MASTER BATHROOM	156	2825	2800	141	123
MASTER BEDROOM	306	5158	4116	257	180
MASTER WIC	48	105	130	5	6
UTILITY ROOM	72	1469	505	73	22
REAR HALLWAY	64	1039	1262	52	55
KITCHEN/BRKFT	308	3198	4694	160	206
PANTRY	18	451	33	22	1
DINING ROOM	192	2893	3093	144	135
FOYER	72	1682	2205	84	97
GREATROOM	285	3730	7066	186	309
FRONT HALLWAY	32	49	58	2	3
HALL BATHROOM	54	118	146	6	6
BEDROOM 4	192	2893	3783	144	166
BEDROOM 3	176	2463	2882	123	126
BEDROOM 2 CLOSET	35	288	63	14	3
BEDROOM 2	168	2987	2860	149	125

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed

REAR HALF BATH	30	64	74	3	3
REAR HALL ENTRY	40	666	764	33	33
Entire House	2248	32078	36534	1600	1600
Other equip loads		0	0		
Equip. @ 0.97 RSM			35438		
Latent cooling			6497		
TOTALS	2248	32078	41934	1600	1600

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed

Project Information

For THE BRADLEY RESIDENCE, BILL CASON BUIDERS
FL

Design Conditions

Location:

Gainesville, FL, US
Elevation 151 ft
Latitude 30°N

Outdoor:

Dry bulb (°F)
Daily range (°F)
Wet bulb (°F)
Wind speed (mph)

Heating

33

15 0

Cooling

92
19 (M)

7.5

Indoor:

Indoor temperature (°F)
Design TD (°F)
Relative humidity (%)
Moisture difference (gr/lb)

Heating

70
37
30
10 6

Cooling

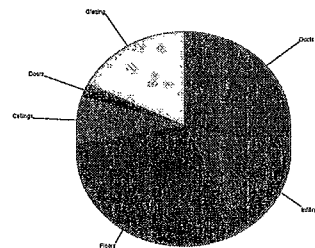
75
17
50
52 0

Infiltration:

Method	Simplified
Construction quality	Average
Fireplaces	0

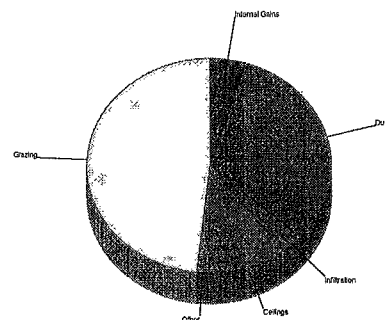
Heating

Component	Btuh/ft ²	Btuh	% of load
Walls	3.4	-1229	-3.8
Glazing	18.1	5858	18.3
Doors	18.3	769	2.4
Ceilings	1.2	2726	8.5
Floors	4.1	9551	29.8
Infiltration	0	5042	15.7
Ducts		9361	29.2
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	
Total		32078	100.0



Cooling

Component	Btuh/ft ²	Btuh	% of load
Walls	2 2	-802	-2 2
Glazing	55 7	17987	49 2
Doors	14 4	606	1 7
Ceilings	1.7	3878	10 6
Floors	0	0	0
Infiltration	0	1158	3 2
Ducts		11866	32 5
Ventilation		0	0
Internal gains		1840	5 0
Blower		0	0
Adjustments		0	
Total		36534	100.0



Latent Cooling Load = 6497 Btuh
Overall U-value = 0.104 Btuh/ft²-°F

ERROR: negative wall area in MASTER BATHROOM - check windows



Component Constructions
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FL

Design Conditions

Location:		Indoor:		Heating	Cooling
Gainesville, FL, US		Indoor temperature (°F)		70	75
Elevation 151 ft		Design TD (°F)		37	17
Latitude 30°N		Relative humidity (%)		30	50
Outdoor:		Moisture difference (gr/lb)		10.6	52.0
		Heating	Cooling		
Dry bulb (°F)		33	92		
Daily range (°F)		-	19 (M)		
Wet bulb (°F)		-	77		
Wind speed (mph)		15.0	7.5		
		Infiltration:			
		Method		Simplified	
		Construction quality		Average	
		Fireplaces		0	

Construction descriptions

Walls
(none)

Partitions
(none)

Windows

10B-f 2 glazing, clr outr, air gas, insulated fiberglass frm mat, clr innr, 1/4" gap, 1/8" thk, 10 ft overhang (7 ft window ht, 3 ft sep)	nw	76	0.480	0	17.8	1350	24.1	1831
1E-c2fv 2 glazing, clr outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk, 2 ft overhang (4 ft window ht, 3 ft sep)	nw	16	0.560	0	20.7	332	54.0	864
1E-c2fv 2 glazing, clr outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 8 ft overhang (7 ft window ht, 3 ft sep)	nw	48	0.560	0	20.7	995	54.0	2591
4A4-2ov 2 glazing, clr outr, air gas, vnl frm mat, clr low-e innr, 1/4" gap, 1/8" thk; 2 ft overhang (5 ft window ht, 3 ft sep)	nw	30	0.470	0	17.4	522	38.3	1149
4A4-2ov 2 glazing, clr outr, air gas, vnl frm mat, clr low-e innr, 1/4" gap, 1/8" thk; 10 ft overhang (5 ft window ht, 3 ft sep)	nw	145	0.470	0	17.4	2522	38.3	5553
4A5-2ov 2 glazing, clr low-e outr, air gas, vnl frm mat, clr innr, 1/4" gap, 1/8" thk; 2 ft overhang (2 ft window ht, 3 ft sep)	nw	8	0.470	0	17.4	139	28.9	231

Doors

11D0 Door, wd sc type	nw	21	0.390	0	14.4	303	11.4	239
11J0 Door, mtl fbrgl type	nw	21	0.600	6.3	22.2	466	17.5	367

Ceilings

16B-30ad Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 5/8" gypsum board int fnsh		2302	0.032	30.0	1.18	2726	1.68	3878
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Floors

22A-tpl Bg floor, light dry soil, on grade depth		261	0.989	0	36.6	9551	0	0
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Wrightsoft®

Right-Suite® Universal 2012 12.0.07 RSU08963

C:\Users\hogle\Documents\Wrightsoft\HVAC\HOGAN.rup Calc = MJ8 Front Door faces: N

2013-Sep-25 07:20:59

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wrightsoft® **Project Summary**
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Notes

Design Information

Weather Gainesville, FL, US

Winter Design Conditions

Outside db	33 °F
Inside db	70 °F
Design TD	37 °F

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	52 gr/lb

Heating Summary

Structure	22717 Btuh
Ducts	9361 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	32078 Btuh

Sensible Cooling Equipment Load Sizing

Structure	24668 Btuh
Ducts	11866 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	35438 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft ²)	2248	2248
Volume (ft ³)	23356	23356
Air changes/hour	0.32	0.16
Equiv AVF (cfm)	125	62

Latent Cooling Equipment Load Sizing

Structure	3790 Btuh
Ducts	2707 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	6497 Btuh
Equipment total load	41934 Btuh
Req. total capacity at 0.70 SHR	4.2 ton

Heating Equipment Summary

Make	RHEEM
Trade	
Model	13PJL48A01
AHRI ref no	3405590
Efficiency	9 HSPF
Heating input	
Heating output	45500 Btuh @ 47°F
Temperature rise	26 °F
Actual air flow	1600 cfm
Air flow factor	0.050 cfm/Btuh
Static pressure	0 in H2O
Space thermostat	

Cooling Equipment Summary

Make	RHEEM
Trade	
Cond	13PJL48A01
Coil	RHLLHM4824JA
AHRI ref no	3405590
Efficiency	14 SEER
Sensible cooling	32900 Btuh
Latent cooling	14100 Btuh
Total cooling	47000 Btuh
Actual air flow	1600 cfm
Air flow factor	0.044 cfm/Btuh
Static pressure	0 in H2O
Load sensible heat ratio	0.85

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed



AED Assessment
Entire House
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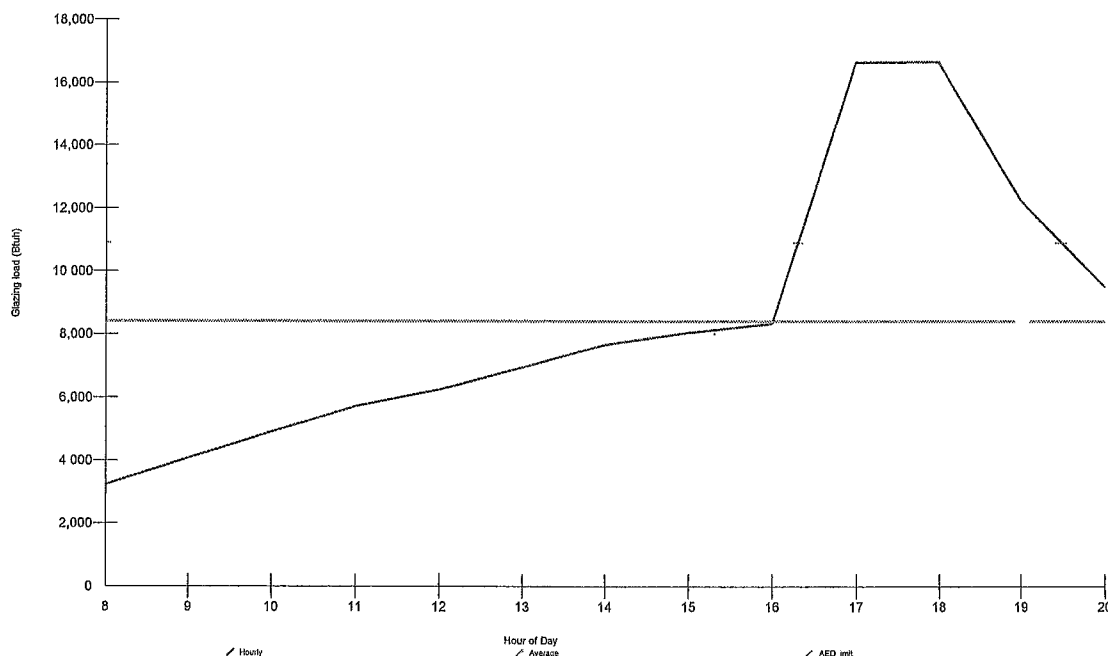
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FL

Design Conditions

Location:		Indoor:		Heating	Cooling
Gainesville, FL, US		Indoor temperature (°F)		70	75
Elevation 151 ft		Design TD (°F)		37	17
Latitude. 30°N		Relative humidity (%)		30	50
Outdoor:		Moisture difference (gr/lb)		10.6	52.0
		Heating	Cooling	Infiltration:	
Dry bulb (°F)		33	92		
Daily range (°F)		-	19 (M)		
Wet bulb (°F)		-	77		
Wind speed (mph)		15.0	7.5		

Test for Adequate Exposure Diversity

Hourly Glazing Load



Maximum hourly glazing load exceeds average by 98.7%.

House does not have adequate exposure diversity (AED), based on AED limit of 30%.

AED excursion: 5769 Btuh (PFG - 1.3*AFG)

Right-J® Worksheet
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1	Room name					Entire House				MASTER BATHROOM				
2	Exposed wall					261 0 ft				26.0 ft				
3	Room height					10 4 ft				10 0 ft				
4	Room dimensions					2248 0 ft²				12 0 x 13 0 ft				
5	Room area					2248 0 ft²				156 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	nw	3.37	2.20	0	-365	-1229	-802	0	-24	-81	-53
	G	10B-f	0.480	nw	17 76	24.10	76	0	1350	1831	0	0	0	0
	G	1E-c2fv	0 560	nw	20 72	53 97	16	0	332	864	16	0	332	864
	G	1E-c2fv	0 560	nw	20.72	53.97	48	0	995	2591	0	0	0	0
11	G	4A4-2ov	0.470	nw	17 39	38.30	30	0	522	1149	0	0	0	0
	G	4A4-2ov	0 470	nw	17 39	38.30	145	0	2522	5553	0	0	0	0
	G	4A4-2ov	0 470	nw	0.00	0.00	0	0	0	0	0	0	0	0
	G	4A5-2ov	0 470	nw	17 39	28 87	8	0	139	231	8	0	139	231
	G	4A5-2ov	0 470	nw	0 00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0 390	nw	14.43	11 37	21	21	303	239	0	0	0	0
	D	11J0	0.600	nw	22.20	17 49	21	21	466	367	0	0	0	0
	C	16B-30ad	0 032	-	1 18	1 68	2302	2302	2726	3878	156	156	185	263
	F	22A-tpl	0 989	-	36 59	0.00	2302	261	9551	0	156	26	951	0
6	c) AED excursion									5769				467
	Envelope loss/gain								17675	21670			1526	1771
12	a) Infiltration								5042	1158			435	95
	b) Room ventilation								0	0			0	0
13	Internal gains					Occupants @ 230	8			1840	0	0		0
	Appliances/other									0				0
	Subtotal (lines 6 to 13)								22717	24668			1961	1866
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								22717	24668			1961	1866
15	Duct loads						41%	48%	9361	11866	44%	50%	864	933
	Total room load								32078	36534			2825	2800
	Air required (cfm)								1600	1600			141	123

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1	Room name					MASTER BEDROOM					MASTER WIC				
2	Exposed wall					53.0 ft					0 ft				
3	Room height					11.0 ft					10.0 ft				
4	Room dimensions					18.0 x 17.0 ft					8.0 x 6.0 ft				
5	Room area					306.0 ft²					48.0 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	nw	3.37	2.20	0	-30	-101	-66	0	0	0	0	
11	G	10B-f	0.480	nw	17.76	24.10	0	0	0	0	0	0	0	0	
	G	1E-c2fv	0.560	nw	20.72	53.97	0	0	0	0	0	0	0	0	
	G	1E-c2fv	0.560	nw	20.72	53.97	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.470	nw	17.39	38.30	30	0	522	1149	0	0	0	0	
	G	4A4-2ov	0.470	nw	17.39	38.30	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.470	nw	0.00	0.00	0	0	0	0	0	0	0	0	
	G	4A5-2ov	0.470	nw	17.39	28.87	0	0	0	0	0	0	0	0	
	G	4A5-2ov	0.470	nw	0.00	0.00	0	0	0	0	0	0	0	0	
	D	11D0	0.390	nw	14.43	11.37	0	0	0	0	0	0	0	0	
	D	11J0	0.600	nw	22.20	17.49	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.18	1.68	360	360	426	607	48	48	57	81	
F	22A-tpi	0.989	-	36.59	0.00	360	53	1939	0	48	0	0	0		
6	c) AED excursion									472				0	
	Envelope loss/gain								2786	2161			57	81	
12	a) Infiltration								795	123			16	6	
	b) Room ventilation								0	0			0	0	
13	Internal gains					Occupants @ 230	2			460	0			0	0
	Appliances/other									0				0	0
	Subtotal (lines 6 to 13)								3581	2744			73	87	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								3581	2744			73	87	
15	Duct loads						44%	50%	1577	1372	44%	50%	32	43	
	Total room load								5158	4116			105	130	
	Air required (cfm)								257	180			5	6	

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1	Room name					UTILITY ROOM					REAR HALLWAY				
2	Exposed wall					13 0 ft					5 0 ft				
3	Room height					10 0 ft					10 0 ft				
4	Room dimensions					12.0 x 6.0 ft					8 0 x 8.0 ft				
5	Room area					72 0 ft²					64 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	nw	3.37	2.20	0	-21	-71	-46	0	-21	-71	-46	
11	G	10B-f	0.480	nw	17.76	24.10	0	0	0	0	21	0	373	508	
	G	1E-c2fv	0.560	nw	20.72	53.97	0	0	0	0	0	0	0	0	
	G	1E-c2fv	0.560	nw	20.72	53.97	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.470	nw	17.39	38.30	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.470	nw	17.39	38.30	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.470	nw	0.00	0.00	0	0	0	0	0	0	0	0	
	G	4A5-2ov	0.470	nw	17.39	28.87	0	0	0	0	0	0	0	0	
	G	4A5-2ov	0.470	nw	0.00	0.00	0	0	0	0	0	0	0	0	
	D	11D0	0.390	nw	14.43	11.37	21	21	303	239	0	0	0	0	
	D	11J0	0.600	nw	22.20	17.49	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.18	1.68	72	72	85	121	64	64	76	108	
F	22A-tpl	0.989	-	36.59	0.00	72	13	476	0	64	5	183	0		
6	c) AED excursion									0				233	
	Envelope loss/gain								793	314			561	800	
12	a) Infiltration								226	23			160	41	
	b) Room ventilation								0	0			0	0	
13	Internal gains					Occupants @ 230	0				0	0			0
						Appliances/other					0				0
	Subtotal (lines 6 to 13)								1020	337			721	842	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								1020	337			721	842	
15	Duct loads						44%	50%	449	168	44%	50%	317	421	
	Total room load								1469	505			1039	1262	
	Air required (cfm)								73	22			52	55	

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1	Room name					UTILITY ROOM				REAR HALLWAY					
2	Exposed wall					13.0 ft				5.0 ft					
3	Room height					10.0 ft				10.0 ft					
4	Room dimensions					12.0 x 6.0 ft				8.0 x 8.0 ft					
5	Room area					72.0 ft²				64.0 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	nw	3.37	2.20	0	-21	-71	-46	0	-21	-71	-46	
11	G	10B-f	0.480	nw	17.76	24.10	0	0	0	0	21	0	373	506	
	G	1E-c2fv	0.560	nw	20.72	53.97	0	0	0	0	0	0	0	0	
	G	1E-c2fv	0.560	nw	20.72	53.97	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.470	nw	17.39	38.30	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.470	nw	17.39	38.30	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.470	nw	0.00	0.00	0	0	0	0	0	0	0	0	
	G	4A5-2ov	0.470	nw	17.39	28.87	0	0	0	0	0	0	0	0	
	G	4A5-2ov	0.470	nw	0.00	0.00	0	0	0	0	0	0	0	0	
	D	11D0	0.390	nw	14.43	11.37	21	21	303	239	0	0	0	0	
	D	11J0	0.600	nw	22.20	17.49	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.18	1.68	72	72	85	121	64	64	76	108	
	22A-tpl	0.989	-	36.59	0.00	72	13	476	0	64	5	183	0		
6	c) AED excursion									0				233	
	Envelope loss/gain								793	314			561	800	
12	a) Infiltration								226	23			160	41	
	b) Room ventilation								0	0			0	0	
13	Internal gains					Occupants @ 230		0		0	0			0	0
						Appliances/other				0				0	0
	Subtotal (lines 6 to 13)								1020	337			721	842	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								1020	337			721	842	
15	Duct loads							44%	50%	449	168	44%	50%	317	421
	Total room load									1469	505			1039	1262
	Air required (cfm)									73	22			52	55

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

Right-J® Worksheet
Entire House
HOGLE'S HEATING & AIR

Job: PERSONEL HOME
 Date: May 08, 2013
 By: W.D.HOGLE

13815 NW 39TH AVE, GAINESVILLE FL 32606 Phone 352-332-1508 Fax: 352-332-1501 License CACO-58124

1	Room name					KITCHEN/BRKFT					PANTRY					
2	Exposed wall					20 0 ft					9 0 ft					
3	Room height					10 0 ft					10 0 ft					
4	Room dimensions					14 0 x 22 0 ft					3 0 x 6 0 ft					
5	Room area					308.0 ft²					18 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	nw	3.37	2.20	0	-45	-152	-99	0	0	0	0		
11	G	10B-f	0.480	nw	17.76	24.10	0	0	0	0	0	0	0	0		
	G	1E-c2fv	0.560	nw	20.72	53.97	0	0	0	0	0	0	0	0		
	G	1E-c2fv	0.560	nw	20.72	53.97	0	0	0	0	0	0	0	0		
	G	4A4-2ov	0.470	nw	17.39	38.30	0	0	0	0	0	0	0	0		
	G	4A4-2ov	0.470	nw	17.39	38.30	45	0	783	1723	0	0	0	0		
	G	4A4-2ov	0.470	nw	0.00	0.00	0	0	0	0	0	0	0	0		
	G	4A5-2ov	0.470	nw	17.39	28.87	0	0	0	0	0	0	0	0		
	G	4A5-2ov	0.470	nw	0.00	0.00	0	0	0	0	0	0	0	0		
	D	11D0	0.390	nw	14.43	11.37	0	0	0	0	0	0	0	0		
	D	11J0	0.600	nw	22.20	17.49	0	0	0	0	0	0	0	0		
	C	16B-30ad	0.032	-	1.18	1.68	308	308	365	519	18	18	21	30		
F	22A-tp	0.989	-	36.59	0.00	308	20	732	0	18	9	329	0			
6	c) AED excursion									830				0		
	Envelope loss/gain									1728	2973			351	30	
12	a) Infiltration									493	156			100	2	
	b) Room ventilation									0	0			0	0	
13	Internal gains' Occupants @ 230 Appliances/other						0				0	0			0	0
	Subtotal (lines 6 to 13)									2220	3129			451	33	
	Less external load									0	0			0	0	
	Less transfer									0	0			0	0	
	Redistribution									0	0			0	0	
14	Subtotal									2220	3129			451	33	
15	Duct loads						44%	50%		978	1564		-0%	0%	0	0
	Total room load									3198	4694			451	33	
	Air required (cfm)									160	206			22	1	

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13815 NW 39TH AVE, GAINESVILLE, FL 32606 Phone 352-332-1508 Fax: 352-332-1501 License CACO-58124

1	Room name					DINING ROOM					FOYER					
2	Exposed wall					25.0 ft					6.0 ft					
3	Room height					10.0 ft					10.0 ft					
4	Room dimensions					16.0 x 12.0 ft					6.0 x 12.0 ft					
5	Room area					192.0 ft²					72.0 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	nw	3.37	2.20	0	-30	-101	-66	0	-33	-111	-73		
11	G	10B-f	0.480	nw	17.76	24.10	0	0	0	0	0	0	0	0		
	G	1E-c2fv	0.560	nw	20.72	53.97	0	0	0	0	0	0	0	0		
	G	1E-c2fv	0.560	nw	20.72	53.97	0	0	0	0	12	0	249	648		
	G	4A4-2ov	0.470	nw	17.39	38.30	0	0	0	0	0	0	0	0		
	G	4A4-2ov	0.470	nw	17.39	38.30	30	0	522	1149	0	0	0	0		
	G	4A4-2ov	0.470	nw	0.00	0.00	0	0	0	0	0	0	0	0		
	G	4A5-2ov	0.470	nw	17.39	28.87	0	0	0	0	0	0	0	0		
	G	4A5-2ov	0.470	nw	0.00	0.00	0	0	0	0	0	0	0	0		
	D	11D0	0.390	nw	14.43	11.37	0	0	0	0	0	0	0	0		
	D	11J0	0.600	nw	22.20	17.49	0	0	0	0	21	21	466	367		
	C	16B-30ad	0.032	-	1.18	1.68	192	192	227	323	72	72	85	121		
F	22A-tpl	0.989	*	36.59	0.00	192	25	915	0	72	6	220	0			
6	c) AED excursion									553				329		
	Envelope loss/gain									1563	1960			909	1393	
12	a) Infiltration									446	102			259	77	
	b) Room ventilation									0	0			0	0	
13	Internal gains							0			0	0			0	0
	Occupants @ Appliances/other 230										0				0	0
	Subtotal (lines 6 to 13)									2009	2062			1168	1470	
	Less external load									0	0			0	0	
	Less transfer									0	0			0	0	
	Redistribution									0	0			0	0	
14	Subtotal									2009	2062			1168	1470	
15	Duct loads							44%	50%	884	1031	44%	50%	514	735	
	Total room load									2893	3093			1682	2205	
	Air required (cfm)									144	135			84	97	

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13815 NW 39TH AVE, GAINESVILLE FL 32606 Phone 352-332-1508 Fax: 352-332-1501 License CACO-58124

1	Room name				GREATROOM				FRONT HALLWAY					
2	Exposed wall				15 0 ft				0 ft					
3	Room height				12.0 ft				10 0 ft					
4	Room dimensions				15 0 x 19 0 ft				8 0 x 4 0 ft					
5	Room area				285.0 ft ²				32.0 ft ²					
	Ty	Construction number	U-value (Btuh/ft ² ·°F)	Or	HTM (Btuh/ft ²)		Area (ft ²) or perimeter (ft)		Load (Btuh)		Area (ft ²) 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	nw	3.37	2.20	0	-71	-239	-156	0	0	0	0
11	G	10B-f	0.480	nw	17.76	24.10	35	0	622	843	0	0	0	0
	G	1E-c2fv	0.560	nw	20.72	53.97	0	0	0	0	0	0	0	0
	G	1E-c2fv	0.560	nw	20.72	53.97	36	0	746	1943	0	0	0	0
	G	4A4-2ov	0.470	nw	17.39	38.30	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.470	nw	17.39	38.30	0	0	0	0	0	0	0	0
	G	4A4-2ov	0.470	nw	0.00	0.00	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	nw	17.39	28.87	0	0	0	0	0	0	0	0
	G	4A5-2ov	0.470	nw	0.00	0.00	0	0	0	0	0	0	0	0
	D	11D0	0.390	nw	14.43	11.37	0	0	0	0	0	0	0	0
	D	11J0	0.600	nw	22.20	17.49	0	0	0	0	0	0	0	0
	C	16B-30ad	0.032	-	1.18	1.68	285	285	337	480	32	32	38	54
F	22A-tp	0.989	-	36.59	0.00	285	15	549	0	32	0	0	0	
6	c) AED excursion									1374				0
	Envelope loss/gain								2015	4484			38	54
12	a) Infiltration								575	227			11	4
	b) Room ventilation								0	0			0	0
13	Internal gains		Occupants @	230			0			0	0			0
			Appliances/other							0				0
	Subtotal (lines 6 to 13)								2590	4711			49	58
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								2590	4711			49	58
15	Duct loads						44%	50%	1140	2355	-0%	0%	0	0
	Total room load								3730	7066			49	58
	Air required (cfm)								186	309			2	3

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13815 NW 39TH AVE GAINESVILLE, FL 32606 Phone 352-332-1508 Fax: 352-332-1501 License CACO-58124

1	Room name					HALL BATHROOM					BEDROOM 4				
2	Exposed wall					0 ft					25 0 ft				
3	Room height					10 0 ft					10 0 ft				
4	Room dimensions					6 0 x 9 0 ft					16.0 x 12.0 ft				
5	Room area					54 0 ft²					192 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	12G-0sw	0.091	nw	3.37	2.20	0	0	0	0	0	-30	-101	-66	
11	G	10B-f	0.480	nw	17.76	24.10	0	0	0	0	0	0	0	0	
	G	1E-c2fv	0.560	nw	20.72	53.97	0	0	0	0	0	0	0	0	
	G	1E-c2fv	0.560	nw	20.72	53.97	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.470	nw	17.39	38.30	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.470	nw	17.39	38.30	0	0	0	0	30	0	522	1149	
	G	4A4-2ov	0.470	nw	0.00	0.00	0	0	0	0	0	0	0	0	
	G	4A5-2ov	0.470	nw	17.39	28.87	0	0	0	0	0	0	0	0	
	G	4A5-2ov	0.470	nw	0.00	0.00	0	0	0	0	0	0	0	0	
	D	11D0	0.390	nw	14.43	11.37	0	0	0	0	0	0	0	0	
	D	11J0	0.600	nw	22.20	17.49	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.18	1.68	54	54	64	91	192	192	227	323	
F	22A-tpi	0.989	-	36.59	0.00	54	0	0	0	192	25	915	0		
6	c) AED excursion								0				553		
	Envelope loss/gain								64	91			1563	1960	
12	a) Infiltration								18	7			446	102	
	b) Room ventilation								0	0			0	0	
13	Internal gains Occupants @ 230 Appliances/other						0			0	2			460	0
	Subtotal (lines 6 to 13)								82	98			2009	2522	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								82	98			2009	2522	
15	Duct loads						44%	50%	36	49	44%	50%	884	1261	
	Total room load								118	146			2893	3783	
	Air required (cfm)								6	6			144	166	

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13815 NW 39TH AVE, GAINESVILLE, FL 32606 Phone 352-332-1508 Fax: 352-332-1501 License CACO-58124

1	Room name					BEDROOM 3					BEDROOM 2 CLOSET					
2	Exposed wall					23 0 ft					5 0 ft					
3	Room height					10 0 ft					10 0 ft					
4	Room dimensions					11 0 x 16.0 ft					7 0 x 5 0 ft					
5	Room area					176.0 ft²					35 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	nw	3.37	2.20	0	-20	-67	-44	0	0	0	0		
		10B-f	0 480	nw	17 76	24 10	0	0	0	0	0	0	0	0		
		1E-c2fv	0 560	nw	20.72	53 97	0	0	0	0	0	0	0	0		
		1E-c2fv	0 560	nw	20.72	53.97	0	0	0	0	0	0	0	0		
		4A4-2ov	0 470	nw	17 39	38.30	0	0	0	0	0	0	0	0		
		4A4-2ov	0 470	nw	17 39	38.30	20	0	348	766	0	0	0	0		
		4A4-2ov	0 470	nw	0 00	0.00	0	0	0	0	0	0	0	0		
		4A5-2ov	0 470	nw	17 39	28.87	0	0	0	0	0	0	0	0		
		4A5-2ov	0 470	nw	0 00	0.00	0	0	0	0	0	0	0	0		
		11D0	0 390	nw	14.43	11 37	0	0	0	0	0	0	0	0		
		11J0	0 600	nw	22.20	17 49	0	0	0	0	0	0	0	0		
C	16B-30ad	0 032	-	1 18	1 68	176	176	208	297	35	35	41	59			
	F	22A-tpi	0 989	-	36 59	0 00	176	23	842	0	35	5	183	0		
6	c) AED excursion									369				0		
	Envelope loss/gain									1330	1387			224	59	
12	a) Infiltration									380	74			64	4	
	b) Room ventilation									0	0			0	0	
13	Internal gains					Occupants @	230	2			460	0			0	0
						Appliances/other					0				0	
	Subtotal (lines 6 to 13)									1710	1921			288	63	
14	Less external load									0	0			0	0	
	Less transfer									0	0			0	0	
	Redistribution									0	0			0	0	
	Subtotal									1710	1921			288	63	
15	Duct loads							44%	50%	753	961	-0%	0%	0	0	
	Total room load									2463	2882			288	63	
	Air required (cfm)									123	126			14	3	

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Right-J® Worksheet

Entire House

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13815 NW 39TH AVE GAINESVILLE, FL 32606 Phone 352-332-1508 Fax: 352-332 1501 License CACO-58124

1	Room name					BEDROOM 2					REAR HALF BATH				
2	Exposed wall					31 0 ft					0 ft				
3	Room height					10 0 ft					10 0 ft				
4	Room dimensions					12 0 x 14 0 ft					6 0 x 5 0 ft				
5	Room area					168 0 ft²					30 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	nw	3.37	2.20	0	-20	-67	-44	0	0	0	0	
11	G	10B-f	0.480	nw	17.76	24.10	0	0	0	0	0	0	0	0	
	G	1E-c2fv	0.560	nw	20.72	53.97	0	0	0	0	0	0	0	0	
	G	1E-c2fv	0.560	nw	20.72	53.97	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.470	nw	17.39	38.30	0	0	0	0	0	0	0	0	
	G	4A4-2ov	0.470	nw	17.39	38.30	20	0	348	766	0	0	0	0	
	G	4A4-2ov	0.470	nw	0.00	0.00	0	0	0	0	0	0	0	0	
	G	4A5-2ov	0.470	nw	17.39	28.87	0	0	0	0	0	0	0	0	
	G	4A5-2ov	0.470	nw	0.00	0.00	0	0	0	0	0	0	0	0	
	D	11D0	0.390	nw	14.43	11.37	0	0	0	0	0	0	0	0	
	D	11J0	0.600	nw	22.20	17.49	0	0	0	0	0	0	0	0	
	C	16B-30ad	0.032	-	1.18	1.68	168	168	199	283	30	30	36	51	
F	22A-tpl	0.989	-	36.59	0.00	168	31	1134	0	30	0	0	0		
6	c) AED excursion								369				0		
	Envelope loss/gain								1614	1374			36	51	
12	a) Infiltration								460	73			10	4	
	b) Room ventilation								0	0			0	0	
13	Internal gains					Occupants @ 230	2			460	0			0	0
	Appliances/other								0				0	0	
	Subtotal (lines 6 to 13)								2074	1907			46	54	
	Less external load								0	0			0	0	
	Less transfer								0	0			0	0	
	Redistribution								0	0			0	0	
14	Subtotal								2074	1907			46	54	
15	Duct loads						44%	50%	913	953	40%	36%	18	19	
	Total room load								2987	2860			64	74	
	Air required (cfm)								149	125			3	3	

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed

Right-J® Worksheet **Entire House** **HOGLE'S HEATING & AIR**

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13815 NW 39TH AVE, GAINESVILLE, FL 32606 Phone 352-332-1508 Fax: 352-332-1501 License CACO-58124

1	Room name						REAR HALL ENTRY								
2	Exposed wall						5 0 ft								
3	Room height						10 0 ft				heat/cool				
4	Room dimensions						5 0 x 8 0 ft								
5	Room area						40 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	nw	3.37	2.20	0	-20	-67	-44					
11	G	10B-f	0.480	nw	17.76	24.10	20	0	355	482					
	G	1E-c2fv	0.560	nw	20.72	53.97	0	0	0	0					
	G	1E-c2fv	0.560	nw	20.72	53.97	0	0	0	0					
	G	4A4-2ov	0.470	nw	17.39	38.30	0	0	0	0					
	G	4A4-2ov	0.470	nw	17.39	38.30	0	0	0	0					
	G	4A4-2ov	0.470	nw	0.00	0.00	0	0	0	0					
	G	4A5-2ov	0.470	nw	17.39	28.87	0	0	0	0					
	G	4A5-2ov	0.470	nw	0.00	0.00	0	0	0	0					
	D	11D0	0.390	nw	14.43	11.37	0	0	0	0					
	D	11J0	0.600	nw	22.20	17.49	0	0	0	0					
	C	16B-30ad	0.032	-	1.18	1.68	40	40	47	67					
F	22A-tpi	0.989	-	36.59	0.00	40	5	183	0						
6	c) AED excursion									222					
	Envelope loss/gain								518	727					
12	a) Infiltration								148	37					
	b) Room ventilation								0	0					
13	Internal gains						Occupants @ 230	0			0				
							Appliances/other				0				
	Subtotal (lines 6 to 13)								666	764					
14	Less external load								0	0					
	Less transfer								0	0					
	Redistribution								0	0					
15	Subtotal								666	764					
	Duct loads							-0%	0%	0	0				
	Total room load								666	764					
	Air required (cfm)								33	33					

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed



Loads for Multiple Orientations
Entire House
HOGLE'S HEATING & AIR

Job: PERSONEL HOME
Date: May 08, 2013
By: W.D.HOGLE

13815 NW 39TH AVE GAINESVILLE, FL 32606 Phone 352-332-1508 Fax: 352-332-1501 License CACO-58124

Project Information

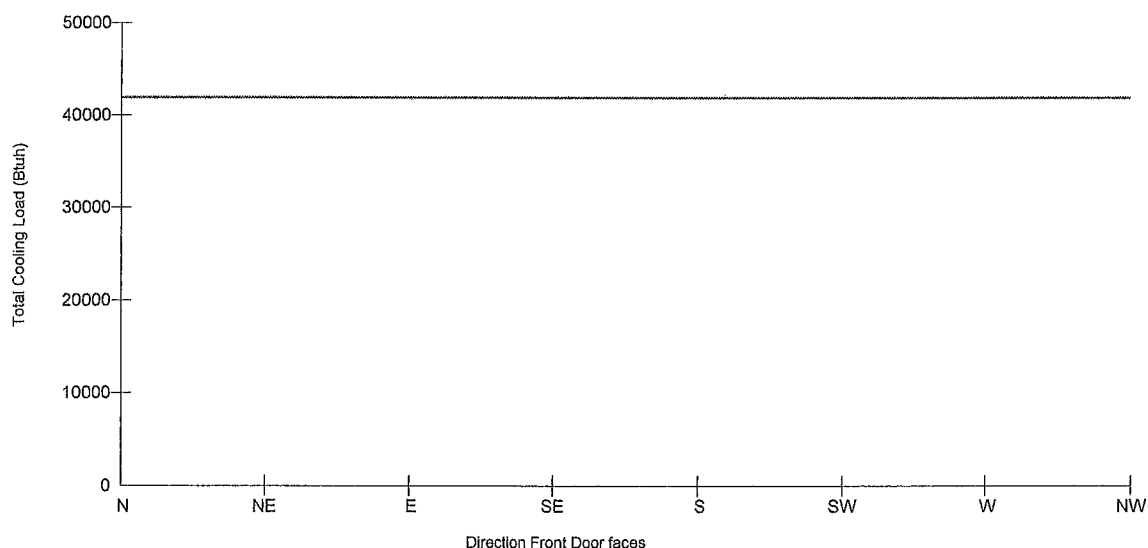
For THE BRADLEY RESIDENCE, BILL CASON BUIDERS
FL

Design Conditions

Location:			Indoor:	Heating	Cooling
Gainesville, FL, US			Indoor temperature (°F)	70	75
Elevation 151 ft			Design TD (°F)	37	17
Latitude 30°N			Relative humidity (%)	30	50
			Moisture difference (gr/lb)	10.6	52.0
Outdoor:	Heating	Cooling	Infiltration:		
Dry bulb (°F)	33	92			
Daily range (°F)	-	19 (M)			
Wet bulb (°F)	-	77			
Wind speed (mph)	15.0	7.5			

Front Door	North	Northeast	East	Southeast	South	Southwest	West	Northwest
Sensible Load (Btuh)	35438	35438	35438	35438	35438	35438	35438	35438
Latent Load (Btuh)	6497	6497	6497	6497	6497	6497	6497	6497
Total Load (Btuh)	41934	41934	41934	41934	41934	41934	41934	41934
Heating AVF (cfm)	1600	1600	1600	1600	1600	1600	1600	1600
Cooling AVF (cfm)	1600	1600	1600	1600	1600	1600	1600	1600

Building Orientation Cooling Load



Current Orientation: Front Door faces North
Highest Cooling Load: Front Door faces North

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed



Right-Suite® Universal 2012 12.0.07 RSU08963

C:\Users\hogle\Documents\Wrightsoft HVAC\HOGAN.rup Calc = MJ8 Front Door faces: N

2013-Sep-25 07:24:59

Page 1

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 75

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

, , FL,

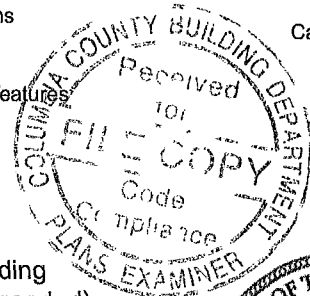
1 New construction or existing	New (From Plans)
2 Single family or multiple family	Single-family
3 Number of units, if multiple family	1
4 Number of Bedrooms	4
5 Is this a worst case?	No
6 Conditioned floor area (ft ²)	2250
7 Windows**	Description Area
a U-Factor	Dbl, U=0.34 279.22 ft ²
SHGC	SHGC=0.32
b U-Factor	N/A ft ²
SHGC	
c U-Factor	N/A ft ²
SHGC	
d U-Factor	N/A ft ²
SHGC	
Area Weighted Average Overhang Depth	6.290 ft
Area Weighted Average SHGC	0.320
8 Floor Types	Insulation Area
a Slab-On-Grade Edge Insulation	R=0.0 2250.00 ft ²
b N/A	R= ft ²
c N/A	R= ft ²

9 Wall Types	Insulation Area
a Frame - Wood, Exterior	R=13.0 2050.00 ft ²
b Frame - Wood, Adjacent	R=13.0 430.00 ft ²
c N/A	R= ft ²
d N/A	R= ft ²
10 Ceiling Types	Insulation Area
a Under Attic (Vented)	R=30.0 2250.00 ft ²
b Knee Wall (Vented)	R=30.0 556.00 ft ²
c N/A	R= ft ²
11 Ducts	R ft ²
a Sup Attic, Ret Attic, AH Garage	6 450
12 Cooling systems	kBtu/hr Efficiency
a Central Unit	47.0 SEER 14.00
13 Heating systems	kBtu/hr Efficiency
a Electric Heat Pump	45.5 HSPF 9.00
14 Hot water systems	Cap 1 gallons
a Natural Gas	EF 0.59
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: 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.

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
MECHANICAL VENTILATION													
Type		Supply CFM	Exhaust CFM	Fan Watts	HRV	Heating System				Run Time	Cooling System		
None		0	0		0	1 - Electric Heat Pump				0%	1 - Central Unit		

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Best Guess	0 000500	2950 8	162 00	304 66	0 3850	7 8690

HEATING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
_____	(Invalid)	Electric Heat Pump	None	HSPF 9	45 5 kBtu/hr	1	sys#1

COOLING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
_____	(Invalid)	Central Unit	None	SEER 14	47 kBtu/hr	1410 cfm	0 75	1	sys#1

HOT WATER SYSTEM

✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
_____	1	Natural Gas	Tankless	Main	0 59	1 gal	70 gal	120 deg	None

SOLAR HOT WATER SYSTEM

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

DUCTS

✓	#	Location	Supply R-Value	Supply Area	Location	Return Area	Leakage Type	Air Handler	CFM25 IN	CFM25 OUT	QN	RLF	HVAC # Heat	HVAC # Cool
_____	(Invalid)	Attic	6	450 ft²	Attic	112 5 ft	Default Leakage	Garage	(invalid) c	(Default)			1	1

TEMPERATURES

Programable Thermostat				None												Ceiling Fans											
Cooling	☐	Jan	☐	Feb	☐	Mar	☐	Apr	☐	May	☒	Jun	☒	Jul	☒	Aug	☒	Sep	☐	Oct	☐	Nov	☒	Dec			
Heating	☒	Jan	☒	Feb	☒	Mar	☐	Apr	☐	May	☐	Jun	☐	Jul	☐	Aug	☐	Sep	☐	Oct	☒	Nov	☒	Dec			
Venting	☒	Jan	☒	Feb	☒	Mar	☒	Apr	☐	May	☐	Jun	☐	Jul	☐	Aug	☐	Sep	☒	Oct	☒	Nov	☒	Dec			

WALLS

✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
1	NE	Exterior	Frame - Wood	Main	13	45	10	450 0 ft²		0 23	0 75	0
2	SE	Exterior	Frame - Wood	Main	13	36	10	360.0 ft²		0.23	0 75	0
3	SW	Exterior	Frame - Wood	Main	13	72	10	720 0 ft²		0 23	0 75	0
4	NW	Exterior	Frame - Wood	Main	13	52	10	520 0 ft²		0.23	0 75	0
5	SE	Garage	Frame - Wood	Main	13	20	10	200 0 ft²		0 23	0 75	0
6	NE	Garage	Frame - Wood	Main	13	23	10	230 0 ft²		0 23	0 75	0

DOORS

✓ #	Ornt	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area
1	NE	Insulated	Main	None	0.460000	3	6 8	20 ft²
2	SW	Insulated	Main	None	0.460000	3	6 8	20 ft²
3	SW	Insulated	Main	None	0 460000	3	6 8	20 ft²
4	SW	Insulated	Main	None	0 460000	1	6 8	6 666666
5	SW	Insulated	Main	None	0 460000	1	6 8	6 666666
6	NE	Insulated	Main	None	0 460000	3	6 8	20 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation

✓ #	Ornt	Wall ID	Frame	Panels	NFRC	U-Factor	SHGC	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
1	NE	1	Vinyl	Low-E Double	Yes	0 34	0 32	60 0 ft²	8 ft 0 in	2 ft 0 in	Drapes/blinds	None
2	NE	1	Vinyl	Low-E Double	Yes	0.34	0 32	13 3 ft²	8 ft 0 in	2 ft 0 in	Drapes/blinds	None
3	NE	1	Vinyl	Low-E Double	Yes	0 34	0 32	12 0 ft²	1 ft 0 in	2 ft 0 in	Drapes/blinds	None
4	SE	2	Vinyl	Low-E Double	Yes	0 34	0 32	16 0 ft²	1 ft 0 in	6 ft 0 in	Drapes/blinds	None
5	SE	2	Vinyl	Low-E Double	Yes	0 34	0 32	8 0 ft²	1 ft 0 in	6 ft 0 in	Drapes/blinds	None
6	SW	3	Vinyl	Low-E Double	Yes	0 34	0 32	30.0 ft²	1 ft 0 in	7 ft 0 in	Drapes/blinds	None
7	SW	3	Vinyl	Low-E Double	Yes	0 34	0 32	45 0 ft²	9 ft 0 in	2 ft 0 in	Drapes/blinds	None
8	SW	3	Vinyl	Low-E Double	Yes	0 34	0 32	36 0 ft²	12 ft 0 in	2 ft 0 in	Drapes/blinds	None
9	SW	3	Vinyl	Low-E Double	Yes	0 34	0 32	18 9 ft²	12 ft 0 in	2 ft 0 in	Drapes/blinds	None
10	SW	3	Vinyl	Low-E Double	Yes	0 34	0 32	20 0 ft²	1 ft 0 in	2 ft 0 in	Drapes/blinds	None
11	NW	4	Vinyl	Low-E Double	Yes	0 34	0 32	20 0 ft²	1 ft 0 in	8 ft 0 in	Drapes/blinds	None

GARAGE

✓ #	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg Wall Height	Exposed Wall Insulation
1	632 5 ft²	632 5 ft²	61 ft	10 ft	1

PROJECT

Title:	Cason Bradley	Bedrooms	4	Address Type	Street Address
Building Type	User	Conditioned Area	2250	Lot #	
Owner:	Bradley	Total Stories	1	Block/SubDivision	
# of Units	1	Worst Case	No	PlatBook	
Builder Name	Cason Builders	Rotate Angle	0	Street	
Permit Office		Cross Ventilation		County	Columbia
Jurisdiction		Whole House Fan		City, State, Zip.	, 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	2250	22500

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	2250	22500	Yes	4	4	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	263 ft	0	2250 ft²		0.22	0	0.78

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor	SA Tested	Emitt	Emitt Tested	Deck Insul	Pitch (deg)
_____	1	Gable or shed	Composition shingles	2516 ft²	564 ft²	Medium	0.96	No	0.9	No	0	26.6

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	2250 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	30	2250 ft²	0.11	Wood
_____	2	Knee Wall (Vented)	Main	30	556 ft²	0.11	Wood

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

<table style="width: 100%;"> <tr> <td style="width: 30%;">Project Name</td> <td>Cason Bradley</td> </tr> <tr> <td>Street</td> <td></td> </tr> <tr> <td>City, State, Zip</td> <td>, FL ,</td> </tr> <tr> <td>Owner</td> <td>Bradley</td> </tr> <tr> <td>Design Location</td> <td>FL, Gainesville</td> </tr> </table>	Project Name	Cason Bradley	Street		City, State, Zip	, FL ,	Owner	Bradley	Design Location	FL, Gainesville	<table style="width: 100%;"> <tr> <td style="width: 30%;">Builder Name</td> <td>Cason Builders</td> </tr> <tr> <td>Permit Office</td> <td></td> </tr> <tr> <td>Permit Number</td> <td></td> </tr> <tr> <td>Jurisdiction</td> <td></td> </tr> </table>	Builder Name	Cason Builders	Permit Office		Permit Number		Jurisdiction	
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Glass/Floor Area: 0.124	Total Proposed Modified Loads: 38.05	PASS
	Total Standard Reference Loads: 50.62	

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: _____
--	---

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



Certificate of Product Ratings

AHRI Certified Reference Number: 3405590

Date: 9/25/2013

Product: Split System: Heat Pump with Remote Outdoor Unit-Air-Source

Outdoor Unit Model Number: 13PJL48

Indoor Unit Model Number: RHLL-HM4824+RCSL-H*4824

Manufacturer: RHEEM MANUFACTURING COMPANY

Trade/Brand name: RHEEM 13PJL SERIES

Manufacturer responsible for the rating of this system combination is RHEEM MANUFACTURING COMPANY

Rated as follows in accordance with AHRI Standard 210/240-2008 for Unitary Air-Conditioning and Air-Source Heat Pump Equipment and subject to verification of rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (Btuh):	47000
EER Rating (Cooling):	11.50
SEER Rating (Cooling):	14.00
Heating Capacity(Btuh) @ 47 F:	45500
Region IV HSPF Rating (Heating):	9.00
Heating Capacity(Btuh) @ 17 F:	29800

* Ratings followed by an asterisk (*) indicate a voluntary rerate of previously published data, unless accompanied with a WAS, which indicates an involuntary rerate

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Air-Conditioning, Heating,
and Refrigeration Institute

Certificate of Product Ratings

AHRI Certified Reference Number: 3405590

Date: 9/25/2013

Product: Split System: Heat Pump with Remote Outdoor Unit-Air-Source

Outdoor Unit Model Number: 13PJL48

Indoor Unit Model Number: RHLL-HM4824+RCSL-H*4824

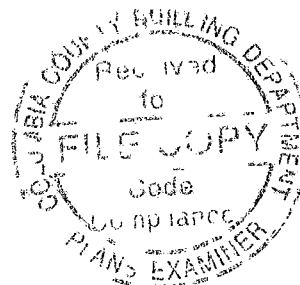
Manufacturer: RHEEM MANUFACTURING COMPANY

Trade/Brand name: RHEEM 13PJL SERIES

Manufacturer responsible for the rating of this system combination is RHEEM MANUFACTURING COMPANY

Rated as follows in accordance with AHRI Standard 210/240-2008 for Unitary Air-Conditioning and Air-Source Heat Pump Equipment and subject to verification of rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (Btuh):	47000
EER Rating (Cooling):	11.50
SEER Rating (Cooling):	14.00
Heating Capacity(Btuh) @ 47 F:	45500
Region IV HSPF Rating (Heating):	9.00
Heating Capacity(Btuh) @ 17 F:	29800



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