



Load Short Form

Entire House

LoadCalcs

Job: 510 Bluebonnet Drive Res...
 Date: November 15, 2023
 By: Jake Worley
 Plan: 23-573

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

Project Information

For: 510 Bluebonnet Drive Residence
 510 Bluebonnet Drive, La Marque, TX 77568

Design Information

	Htg	Clg		Infiltration
Outside db (°F)	34	96	Method	Blower door
Inside db (°F)	70	75	Shielding / stories	3 (partial) / 1
Design TD (°F)	37	21	Pressure /ACH /AVF	50 Pa / 5.0 / 945 cfm
Daily range	-	L		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	32	46		

HEATING EQUIPMENT

Make	Carrier
Trade	PERFORMANCE 15 SEER2 HP
Model	25SPA542AC0300
AHRI ref	209693244
Efficiency	7.8 HSPF2
Heating input	
Heating output	42500 Btuh @ 47°F
Temperature rise	31 °F
Actual air flow	1259 cfm
Air flow factor	0.033 cfm/Btuh
Static pressure	0.60 in H2O
Space thermostat	
Capacity balance point = 32 °F	

Backup: Carrier KFCEH3101C15
 Input = 15 kW, Output = 51182 Btuh, 100 AFUE

COOLING EQUIPMENT

Make	Carrier
Trade	PERFORMANCE 15 SEER2 HP
Cond	25SPA542AC0300
Coil	FX4DNB049L
AHRI ref	209693244
Efficiency	12.5 EER2, 15.2 SEER2
Sensible cooling	33200 Btuh
Latent cooling	8300 Btuh
Total cooling	41500 Btuh
Actual air flow	1259 cfm
Air flow factor	0.043 cfm/Btuh
Static pressure	0.60 in H2O
Load sensible heat ratio	0.89

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Dining	147	5205	3702	171	160
Kitchen	156	4653	6282	153	272
Laundry	20	0	0	0	0
Bath 2	34	824	298	27	13
Bath	29	1053	1294	35	56
Bedroom	175	6400	3630	210	157
Wic	29	0	0	0	0
Wic 2	19	0	0	0	0
Bedroom 2	137	5173	3011	170	130
Hall Bath	49	1436	1213	47	52
Bedroom 3	134	3932	3829	129	166
Hallway	97	2131	523	70	23
Living Room	236	7557	5338	248	231

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



Entire House	1260	38364	29119	1259	1259
Other equip loads		0	0		
Equip. @ 1.00 RSM			29119		
Latent cooling			3593		
TOTALS	1260	38364	32712	1259	1259

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Building Analysis

Entire House

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Project Information

For: 510 Bluebonnet Drive Residence
 510 Bluebonnet Drive, La Marque, TX 77568

Design Conditions

Location:

Houston Hobby, TX, US
 Elevation: 44 ft
 Latitude: 30°N

Outdoor:

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

Heating

34
 -
 -
 15.0

Cooling

96
 16 (L)
 77
 7.5

Indoor:

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

Heating

70
 37
 50
 32.2

Cooling

75
 21
 50
 46.0

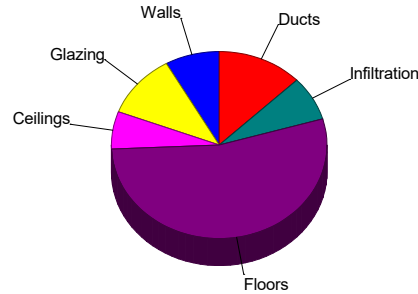
Infiltration:

Method
 Shielding / stories
 Pressure /ACH /AVF

Blower door
 3 (partial) / 1
 50 Pa / 5.0 / 945 cfm

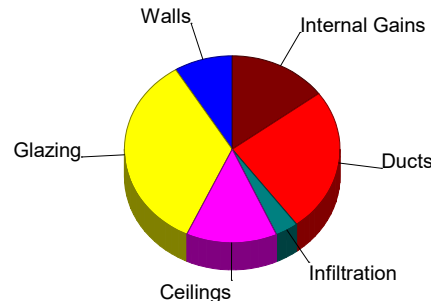
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	2.9	3130	8.2
Glazing	18.6	4243	11.1
Doors	0	0	0
Ceilings	2.0	2483	6.5
Floors	16.4	20650	53.8
Infiltration	2.3	2953	7.7
Ducts		4906	12.8
Piping		0	0
Humidification		0	0
Ventilation		0	0
Adjustments		0	0
Total		38364	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	2.4	2554	8.8
Glazing	43.9	9995	34.3
Doors	0	0	0
Ceilings	3.2	3974	13.6
Floors	0	0	0
Infiltration	0.8	1006	3.5
Ducts		7269	25.0
Ventilation		0	0
Internal gains		4320	14.8
Blower		0	0
Adjustments		0	0
Total		29119	100.0



Latent Cooling Load = 3593 Btuh
 Overall U-value = 0.367 Btuh/ft²-°F, Window / Floor Area = 18.1 %

Data entries checked.





Component Constructions

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Project Information

For: 510 Bluebonnet Drive Residence
 510 Bluebonnet Drive, La Marque, TX 77568

Design Conditions

Location: Houston Hobby, TX, US Elevation: 44 ft Latitude: 30°N	Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb)	Heating 70 37 50 32.2	Cooling 75 21 50 46.0
Outdoor: Dry bulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph)	Heating 34 - - 15.0	Cooling 96 16 (L) 77 7.5	Infiltration: Method Shielding / stories Pressure /ACH /AVF
		Blower door 3 (partial) / 1 50 Pa / 5.0 / 945 cfm	

Construction descriptions

	Or	Area ft²	U-value Btuh/ft²·°F	Insul R ft²·°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls								
Wood, R-13, Drywall	n	240	0.081	13.0	2.96	710	2.42	581
	e	286	0.081	13.0	2.96	845	2.42	692
	s	190	0.081	13.0	2.96	562	2.42	460
	w	314	0.081	13.0	2.96	929	2.42	761
	all	1030	0.081	13.0	2.96	3045	2.42	2494
Vinyl, R-19, Drywall	e	38	0.061	19.0	2.23	85	1.57	60

Partitions (none)

Windows

1 glazing, clr glz, mtl no brk frm mat, 1/8" thk; 1 glazing, clr glz, mtl no brk frm mat, 1/8" thk; NFRC rated (SHGC=0.65); 50% blinds 45°, medium; foreground = green grass (0.23); 1 ft overhang (5 ft window ht, 5.96 ft sep.); 6.85 ft head ht	n	15	0.510	0	18.6	279	20.1	302
1 glazing, clr glz, mtl no brk frm mat, 1/8" thk; 1 glazing, clr glz, mtl no brk frm mat, 1/8" thk; NFRC rated (SHGC=0.65); 50% blinds 45°, medium; foreground = green grass (0.23); 1 ft overhang (5 ft window ht, 7.56 ft sep.); 6.85 ft head ht	n	15	0.510	0	18.6	279	20.1	302
1 glazing, clr glz, mtl no brk frm mat, 1/8" thk; 1 glazing, clr glz, mtl no brk frm mat, 1/8" thk; NFRC rated (SHGC=0.65); 50% blinds 45°, medium; foreground = green grass (0.23); 1 ft overhang (3 ft window ht, 1.25 ft sep.); 6.85 ft head ht	e	9	0.510	0	18.6	168	61.8	557
	w	9	0.510	0	18.6	168	61.8	557
	all	18	0.510	0	18.6	335	61.8	1113
1 glazing, clr glz, mtl no brk frm mat, 1/8" thk; 1 glazing, clr glz, mtl no brk frm mat, 1/8" thk; NFRC rated (SHGC=0.65); 50% blinds 45°, medium; foreground = green grass (0.23); 1 ft overhang (5 ft window ht, 1.25 ft sep.); 6.85 ft head ht	e	45	0.510	0	18.6	838	61.8	2783
	w	30	0.510	0	18.6	558	61.8	1855
	all	75	0.510	0	18.6	1396	61.8	4638
1 glazing, clr glz, mtl no brk frm mat, 1/8" thk; 1 glazing, clr glz, mtl no brk frm mat, 1/8" thk; NFRC rated (SHGC=0.65); 50% blinds 45°, medium; foreground = new concrete (0.32); 8 ft overhang (5 ft window ht, 1.22 ft sep.); 6.85 ft head ht	s	60	0.510	0	18.6	1117	30.1	1807



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1 glazing, clr glz, mtl no brk frm mat, 1/8" thk; 1 glazing, clr glz, mtl no brk frm mat, 1/8" thk; NFRC rated (SHGC=0.65); 50% blinds 45°, medium; foreground = new concrete (0.32); 8 ft overhang (6.67 ft window ht, 1.4 ft sep.); 6.67 ft head ht	s	20	0.510	0	18.6	372	24.1	482
1 glazing, clr glz, mtl no brk frm mat, 1/8" thk; 1 glazing, clr glz, mtl no brk frm mat, 1/8" thk; NFRC rated (SHGC=0.65); 50% blinds 45°, medium; foreground = green grass (0.23); 1 ft overhang (2 ft window ht, 1.25 ft sep.); 6.85 ft head ht	w	6	0.510	0	18.6	112	61.8	371
1 glazing, clr glz, mtl no brk frm mat, 1/8" thk; 1 glazing, clr glz, mtl no brk frm mat, 1/8" thk; NFRC rated (SHGC=0.65); 50% blinds 45°, medium; foreground = new concrete (0.32); 1.5 ft overhang (6.67 ft window ht, 2 ft sep.); 7 ft head ht	w	19	0.510	0	18.6	352	51.9	981

Doors
(none)

Ceilings

Shingle, R-19, Drywall		1260	0.054	19.0	1.97	2483	3.15	3974
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Floors

Slab on Grade		1260	0.898	0	16.4	20650	0	0
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Project Summary

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Project Information

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510 Bluebonnet Drive, La Marque, TX 77568

Notes: It is the responsibility of the HVAC contractor to verify equipment being installed. Please review all documents accordingly.

Design Information

Weather: Houston Hobby, TX, US

Winter Design Conditions

Outside db 34 °F
Inside db 70 °F
Design TD 37 °F

Summer Design Conditions

Outside db 96 °F
Inside db 75 °F
Design TD 21 °F
Daily range L
Relative humidity 50 %
Moisture difference 46 gr/lb

Heating Summary

Structure 33459 Btuh
Ducts 4906 Btuh
Central vent (0 cfm)
(none) 0 Btuh
Humidification 0 Btuh
Piping 0 Btuh
Equipment load 38364 Btuh

Sensible Cooling Equipment Load Sizing

Structure 21850 Btuh
Ducts 7269 Btuh
Central vent (0 cfm)
(none) 0 Btuh
Blower 0 Btuh
Use manufacturer's data y
Rate/swing multiplier 1.00
Equipment sensible load 29119 Btuh

Infiltration

Method Blower door
Shielding / stories 3 (partial) / 1
Pressure /ACH /AVF 50 Pa / 5.0 / 945 cfm

Latent Cooling Equipment Load Sizing

Structure 2142 Btuh
Ducts 1451 Btuh
Central vent (0 cfm)
(none) 0 Btuh
Equipment latent load 3593 Btuh
Equipment Total Load (Sen+Lat) 32712 Btuh
Req. total capacity at 0.80 SHR 3.0 ton

	Heating	Cooling
Area (ft ²)	1260	1260
Volume (ft ³)	11340	11340
Air changes/hour	0.39	0.23
Equiv. AVF (cfm)	74	43

Heating Equipment Summary

Make Carrier
Trade PERFORMANCE 15 SEER2 HP
Model 25SPA542AC0300
AHRI ref 209693244
Efficiency 7.8 HSPF2
Heating input
Heating output 42500 Btuh @ 47°F
Temperature rise 31 °F
Actual air flow 1259 cfm
Air flow factor 0.033 cfm/Btuh
Static pressure 0.60 in H2O
Space thermostat
Capacity balance point = 32 °F
Backup: Carrier KFCEH3101C15
Input = 15 kW, Output = 51182 Btuh, 100 AFUE

Cooling Equipment Summary

Make Carrier
Trade PERFORMANCE 15 SEER2 HP
Cond 25SPA542AC0300
Coil FX4DNB049L
AHRI ref 209693244
Efficiency 12.5 EER2, 15.2 SEER2
Sensible cooling 33200 Btuh
Latent cooling 8300 Btuh
Total cooling 41500 Btuh
Actual air flow 1259 cfm
Air flow factor 0.043 cfm/Btuh
Static pressure 0.60 in H2O
Load sensible heat ratio 0.89

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





Right-J® Worksheet

Entire House

LoadCalcs

Job: 510 Bluebonnet Drive Residen...
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1 Room name				Entire House				Dining						
2 Exposed wall				144.0 ft				24.3 ft						
3 Room height				9.0 ft				9.0 ft						
4 Room dimensions				1260.0 ft²				11.5 x 12.8 ft						
5 Room area				1260.0 ft²				146.6 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	Wood, R-13, Drywall	0.081	n	2.96	2.42	270	240	710	581	0	0	0	0
	G	1 glazing, dr glz	0.510	n	18.61	20.11	15	0	279	302	0	0	0	0
	G	1 glazing, dr glz	0.510	n	18.61	20.11	15	0	279	302	0	0	0	0
11	W	Vinyl, R-19, Drywall	0.061	e	2.23	1.57	47	38	85	60	0	0	0	0
	G	1 glazing, dr glz	0.510	e	18.61	61.85	9	0	168	557	0	0	0	0
	W	Wood, R-13, Drywall	0.081	e	2.96	2.42	331	286	845	692	0	0	0	0
	G	1 glazing, dr glz	0.510	e	18.61	61.85	45	0	838	2783	0	0	0	0
	W	Wood, R-13, Drywall	0.081	s	2.96	2.42	270	190	562	460	115	85	251	205
	G	1 glazing, dr glz	0.510	s	18.61	30.11	60	60	1117	1807	30	30	558	903
	G	1 glazing, dr glz	0.510	s	18.61	24.08	20	20	372	482	0	0	0	0
	W	Wood, R-13, Drywall	0.081	w	2.96	2.42	378	314	929	761	104	89	262	214
	G	1 glazing, dr glz	0.510	w	18.61	61.85	6	0	112	371	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	61.85	9	0	168	557	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	61.85	30	0	558	1855	15	0	279	928
	G	1 glazing, dr glz	0.510	w	18.61	51.89	19	0	352	981	0	0	0	0
	C	Shingle, R-19, Drywa	0.054	-	1.97	3.15	1260	1260	2483	3974	147	147	289	462
	F	Slab on Grade	0.898	-	16.39	0.00	1260	1260	20650	0	147	147	2403	0
6	c) AED excursion									0				-105
	Envelope loss/gain								30505	16523			4042	2608
12	a) Infiltration								2953	1006			497	169
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230			4			920	0			0
			Appliances/other							3400				0
	Subtotal (lines 6 to 13)								33459	21850			4539	2777
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								33459	21850			4539	2777
15	Duct loads						15%	33%	4906	7269	15%	33%	666	924
	Total room load								38364	29119			5205	3702
	Air required (cfm)								1259	1259			171	160

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



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Right-J® Worksheet

Entire House

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1 Room name				Kitchen		Laundry								
2 Exposed wall				13.3 ft		0 ft								
3 Room height				9.0 ft		9.0 ft								
4 Room dimensions				1.0 x 156.1 ft		3.3 x 6.0 ft								
5 Room area				156.1 ft²		19.5 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	Wood, R-13, Drywall	0.081	n	2.96	2.42	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	n	18.61	20.11	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	n	18.61	20.11	0	0	0	0	0	0	0	0
11	W	Vinyl, R-19, Drywall	0.061	e	2.23	1.57	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	e	18.61	61.85	0	0	0	0	0	0	0	0
	W	Wood, R-13, Drywall	0.081	e	2.96	2.42	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	e	18.61	61.85	0	0	0	0	0	0	0	0
	W	Wood, R-13, Drywall	0.081	s	2.96	2.42	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	s	18.61	30.11	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	s	18.61	24.08	0	0	0	0	0	0	0	0
	W	Wood, R-13, Drywall	0.081	w	2.96	2.42	119	94	279	229	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	61.85	6	0	112	371	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	61.85	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	61.85	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	51.89	19	0	352	981	0	0	0	0
	C	Shingle, R-19, Drywa	0.054	-	1.97	3.15	156	156	308	492	20	20	38	61
	F	Slab on Grade	0.898	-	16.39	0.00	156	156	2558	0	20	20	320	0
6	c) AED excursion								69					-62
	Envelope loss/gain								3608	2141			358	-1
12	a) Infiltration								272	93			0	0
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230		1			230	2000	0			0
			Appliances/other											500
	Subtotal (lines 6 to 13)								3879	4464			358	499
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								179	250			-358	-499
14	Subtotal								4058	4713			0	0
15	Duct loads						15%	33%	595	1568	15%	33%	0	0
	Total room load								4653	6282			0	0
	Air required (cfm)								153	272			0	0

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1 Room name				Bath 2		Bath								
2 Exposed wall				0 ft		5.3 ft								
3 Room height				9.0 ft		9.0 ft								
4 Room dimensions				34.1 ft ² x 6.5 ft		28.9 ft ² x 5.5 ft								
5 Room area														
	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	Wood, R-13, Drywall	0.081	n	2.96	2.42	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	n	18.61	20.11	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	n	18.61	20.11	0	0	0	0	0	0	0	0
11	W	Vinyl, R-19, Drywall	0.061	e	2.23	1.57	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	e	18.61	61.85	0	0	0	0	0	0	0	0
	W	Wood, R-13, Drywall	0.081	e	2.96	2.42	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	e	18.61	61.85	0	0	0	0	0	0	0	0
	W	Wood, R-13, Drywall	0.081	s	2.96	2.42	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	s	18.61	30.11	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	s	18.61	24.08	0	0	0	0	0	0	0	0
	W	Wood, R-13, Drywall	0.081	w	2.96	2.42	0	0	0	0	47	38	113	93
	G	1 glazing, dr glz	0.510	w	18.61	61.85	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	61.85	0	0	0	0	9	0	168	557
	G	1 glazing, dr glz	0.510	w	18.61	61.85	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	51.89	0	0	0	0	0	0	0	0
	C	Shingle, R-19, Drywa	0.054	-	1.97	3.15	34	34	67	108	29	29	57	91
	F	Slab on Grade	0.898	-	16.39	0.00	34	34	559	0	29	29	473	0
6	c) AED excursion													194
	Envelope loss/gain							627	96				811	934
12	a) Infiltration							0	0				108	37
	b) Room ventilation							0	0				0	0
13	Internal gains:		Occupants @	230		0		0	0	0	0		0	0
			Appliances/other					0	0				0	0
	Subtotal (lines 6 to 13)							627	96				918	971
	Less external load							0	0				0	0
	Less transfer							0	0				0	0
	Redistribution							92	128				0	0
14	Subtotal							718	224				918	971
15	Duct loads					15%	33%	105	75	15%	33%		135	323
	Total room load							824	298				1053	1294
	Air required (cfm)							27	13				35	56

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



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...wgs510 Bluebonnet Drive Residence - 23-573.rup Calc = MJ8 Front Door faces: S



Right-J® Worksheet

Entire House

LoadCalcs

Job: 510 Bluebonnet Drive Residen...
 Date: November 15, 2023
 By: Jake Worley
 Plan: 23-573

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

1	Room name				Bedroom				Wic					
	Exposed wall				25.5 ft				3.5 ft					
	Room height				9.0 ft				9.0 ft					
4	Room dimensions				1.0 x 175.1 ft				8.3 x 3.5 ft					
5	Room area				175.1 ft²				28.9 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	Wood, R-13, Drywall	0.081	n	2.96	2.42	122	107	315	258	32	32	93	76
	G	1 glazing, dr glz	0.510	n	18.61	20.11	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	n	18.61	20.11	15	0	279	302	0	0	0	0
11	W	Vinyl, R-19, Drywall	0.061	e	2.23	1.57	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	e	18.61	61.85	0	0	0	0	0	0	0	0
	W	Wood, R-13, Drywall	0.081	e	2.96	2.42	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	e	18.61	61.85	0	0	0	0	0	0	0	0
	W	Wood, R-13, Drywall	0.081	s	2.96	2.42	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	s	18.61	30.11	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	s	18.61	24.08	0	0	0	0	0	0	0	0
	W	Wood, R-13, Drywall	0.081	w	2.96	2.42	108	93	275	225	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	61.85	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	61.85	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	61.85	15	0	279	928	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	51.89	0	0	0	0	0	0	0	0
	C	Shingle, R-19, Drywa	0.054	-	1.97	3.15	175	175	345	552	29	29	57	91
	F	Slab on Grade	0.898	-	16.39	0.00	175	175	2870	0	29	29	473	0
6	c) AED excursion									110				-21
	Envelope loss/gain								4363	2375			623	146
12	a) Infiltration								523	178			72	24
	b) Room ventilation								0	0			0	0
13	Internal gains:				Occupants @	230	0		0	0	0		0	0
					Appliances/other				0	0			0	0
	Subtotal (lines 6 to 13)								4886	2553			695	171
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								695	171			-695	-171
14	Subtotal								5581	2724			0	0
15	Duct loads						15%	33%	818	906	15%	33%	0	0
	Total room load								6400	3630			0	0
	Air required (cfm)								210	157			0	0

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



Right-Suite® Universal 2023 23.0.04 RSU30006

2023-Nov-15 12:27:11

...wgs510 Bluebonnet Drive Residence - 23-573.rup Calc = MJ8 Front Door faces: S

Page 4



Right-J® Worksheet

Entire House

LoadCalcs

Job: 510 Bluebonnet Drive Residen...
 Date: November 15, 2023
 By: Jake Worley
 Plan: 23-573

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

1 Room name				Wic2		Bedroom 2								
2 Exposed wall				2.3 ft		22.8 ft								
3 Room height				9.0 ft		9.0 ft								
4 Room dimensions				8.3 x 2.3 ft		1.0 x 137.4 ft								
5 Room area				18.6 ft²		137.4 ft²								
6	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	Wood, R-13, Drywall	0.081	n	2.96	2.42	20	20	60	49	97	82	242	198
	G	1 glazing, dr glz	0.510	n	18.61	20.11	0	0	0	0	15	0	279	302
	G	1 glazing, dr glz	0.510	n	18.61	20.11	0	0	0	0	0	0	0	0
11	W	Vinyl, R-19, Drywall	0.061	e	2.23	1.57	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	e	18.61	61.85	0	0	0	0	0	0	0	0
	W	Wood, R-13, Drywall	0.081	e	2.96	2.42	0	0	0	0	108	93	275	225
	G	1 glazing, dr glz	0.510	e	18.61	61.85	0	0	0	0	15	0	279	928
	W	Wood, R-13, Drywall	0.081	s	2.96	2.42	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	s	18.61	30.11	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	s	18.61	24.08	0	0	0	0	0	0	0	0
	W	Wood, R-13, Drywall	0.081	w	2.96	2.42	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	61.85	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	61.85	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	61.85	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	51.89	0	0	0	0	0	0	0	0
	C	Shingle, R-19, Drywa	0.054	-	1.97	3.15	19	19	37	59	137	137	271	433
	F	Slab on Grade	0.898	-	16.39	0.00	19	19	304	0	137	137	2252	0
6	c) AED excursion									-14				-95
	Envelope loss/gain								401	94			3598	1991
12	a) Infiltration								46	16			467	159
	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)								447	110			4065	2150
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								-447	-110			447	110
14	Subtotal								0	0			4512	2259
15	Duct loads						15%	33%	0	0	15%	33%	662	752
	Total room load								0	0			5173	3011
	Air required (cfm)								0	0			170	130

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



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...wgs510 Bluebonnet Drive Residence - 23-573.rup Calc = MJ8 Front Door faces: S



Right-J® Worksheet

Entire House

LoadCalcs

Job: 510 Bluebonnet Drive Residen...
 Date: November 15, 2023
 By: Jake Worley
 Plan: 23-573

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

1	Room name				Hall Bath				Bedroom 3					
	Exposed wall				5.3 ft				10.5 ft					
	Room height				9.0 ft				9.0 ft					
4	Room dimensions				5.3 x 9.3 ft				1.0 x 134.3 ft					
5	Room area				48.6 ft²				134.3 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	Wood, R-13, Drywall	0.081	n	2.96	2.42	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	n	18.61	20.11	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	n	18.61	20.11	0	0	0	0	0	0	0	0
11	W	Vinyl, R-19, Drywall	0.061	e	2.23	1.57	47	38	85	60	0	0	0	0
	G	1 glazing, dr glz	0.510	e	18.61	61.85	9	0	168	557	0	0	0	0
	W	Wood, R-13, Drywall	0.081	e	2.96	2.42	0	0	0	0	95	65	191	156
	G	1 glazing, dr glz	0.510	e	18.61	61.85	0	0	0	0	30	0	558	1855
	W	Wood, R-13, Drywall	0.081	s	2.96	2.42	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	s	18.61	30.11	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	s	18.61	24.08	0	0	0	0	0	0	0	0
	W	Wood, R-13, Drywall	0.081	w	2.96	2.42	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	61.85	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	61.85	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	61.85	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	51.89	0	0	0	0	0	0	0	0
	C	Shingle, R-19, Drywa	0.054	-	1.97	3.15	49	49	96	153	134	134	265	423
	F	Slab on Grade	0.898	-	16.39	0.00	49	49	796	0	134	134	2200	0
6	c) AED excursion									104				365
	Envelope loss/gain								1144	873			3214	2800
12	a) Infiltration								108	37			215	73
	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)								1252	910			3429	2873
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								0	0			0	0
14	Subtotal								1252	910			3429	2873
15	Duct loads						15%	33%	184	303	15%	33%	503	956
	Total room load								1436	1213			3932	3829
	Air required (cfm)								47	52			129	166

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



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Right-Suite® Universal 2023 23.0.04 RSU30006

...wgs510 Bluebonnet Drive Residence - 23-573.rup Calc = MJ8 Front Door faces: S



Right-J® Worksheet

Entire House

LoadCalcs

Job: 510 Bluebonnet Drive Residen...
 Date: November 15, 2023
 By: Jake Worley
 Plan: 23-573

Lancaster, KY40444 Phone: 813-539-5118 Email: info@lcalcs.com Web: www.lcalcs.com

1 Room name				Hallway 0 ft				Living Room 31.5 ft						
2 Exposed wall				9.0 ft heat/cool				9.0 ft heat/cool						
3 Room height				1.0 x 96.5 ft				1.0 x 235.5 ft						
4 Room dimensions				96.5 ft²				235.5 ft²						
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	Wood, R-13, Drywall	0.081	n	2.96	2.42	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	n	18.61	20.11	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	n	18.61	20.11	0	0	0	0	0	0	0	0
11	W	Vinyl, R-19, Drywall	0.061	e	2.23	1.57	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	e	18.61	61.85	0	0	0	0	0	0	0	0
	W	Wood, R-13, Drywall	0.081	e	2.96	2.42	0	0	0	0	128	128	379	311
	G	1 glazing, dr glz	0.510	e	18.61	61.85	0	0	0	0	0	0	0	0
	W	Wood, R-13, Drywall	0.081	s	2.96	2.42	0	0	0	0	155	105	311	255
	G	1 glazing, dr glz	0.510	s	18.61	30.11	0	0	0	0	30	30	558	903
	G	1 glazing, dr glz	0.510	s	18.61	24.08	0	0	0	0	20	20	372	482
	W	Wood, R-13, Drywall	0.081	w	2.96	2.42	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	61.85	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	61.85	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	61.85	0	0	0	0	0	0	0	0
	G	1 glazing, dr glz	0.510	w	18.61	51.89	0	0	0	0	0	0	0	0
	C	Shingle, R-19, Drywa	0.054	-	1.97	3.15	97	97	190	304	236	236	464	743
	F	Slab on Grade	0.898	-	16.39	0.00	97	97	1581	0	236	236	3859	0
6	c) AED excursion													
	Envelope loss/gain								1772	271			5945	2195
12	a) Infiltration								0	0			646	220
	b) Room ventilation								0	0			0	0
13	Internal gains:		Occupants @	230		0			0	0	3		690	900
			Appliances/other						0	0			0	0
	Subtotal (lines 6 to 13)								1772	271			6591	4005
	Less external load								0	0			0	0
	Less transfer								0	0			0	0
	Redistribution								87	121			0	0
14	Subtotal								1859	392			6591	4005
15	Duct loads						15%	33%	273	130	15%	33%	966	1333
	Total room load								2131	523			7557	5338
	Air required (cfm)								70	23			248	231

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



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