

In accordance with ACCA Manual J

**Registered For:****The Ike J. van Cruyningen Residence****For:**

Guesthouse  
835 Westridge Dr  
Portola Valley, CA 94028

**Design Conditions:** San Jose**Indoor:**

Summer temperature: 75  
Winter temperature: 70  
Relative humidity: 50

**Outdoor:**

Summer temperature: 81  
Winter temperature: 33  
Summer grains of moisture: 67  
Daily temperature range: Medium

Building Component		Sensible Gain (BTUH)	Latent Gain (BTUH)	Total Heat Gain (BTUH)	Total Heat Loss (BTUH)
<b>Whole House</b>	<b>701.5 sq.ft.</b>	<b>8,081</b>	<b>43</b>	<b>8,124</b> <b>( 0.5 tons )</b>	<b>8,426</b>
Living Room and Kitchen		4,228	24	4,252	4,650
Living Room	364 sq.ft.	4,228	24	4,252	4,650
Infiltration		76	24	100	939
- Tightness: Best; Winter ACH: .4 ; Summer ACH: .2					
Duct		0	0	0	221
- Supply above 120; Enclosed in unheated space; R-6					
Floor	364.5 sq.ft.	0	0	0	250
- Over enclosed crawl space; Hardwood; R-30 (8 - 9 inch)					
S Wall	114.6 sq.ft.	50	0	50	191
- Wood frame, with sheathing, siding or brick; R-195 1/2 in.; R-5.01 in. Extruded poly board					
Window	30 sq.ft.	661	0	661	401
- Double pane; Wood frame; Low emittance					
- No inside shading; Coating: None (clear glass); 55% shaded.					
Window (2)	8.4 sq.ft.	185	0	185	112
- Double pane; Wood frame; Low emittance					
- No inside shading; Coating: None (clear glass); 55% shaded.					
Door	18 sq.ft.	116	0	116	446
- Wood; Panel; No storm					
W Wall	122.6 sq.ft.	53	0	53	204
- Wood frame, with sheathing, siding or brick; R-195 1/2 in.; R-5.01 in. Extruded poly board					

Building Component		Sensible Gain (BTUH)	Latent Gain (BTUH)	Total Heat Gain (BTUH)	Total Heat Loss (BTUH)
Window	57.4 sq.ft.	2,092	0	2,092	767
- Double pane; Wood frame; Low emittance					
- No inside shading; Coating: None (clear glass); 55% shaded.					
W Wall (2)	36 sq.ft.	16	0	16	60
- Wood frame, with sheathing, siding or brick; R-195 1/2 in.; R-5.01 in. Extruded poly board					
N Wall	104 sq.ft.	45	0	45	173
- Wood frame, with sheathing, siding or brick; R-195 1/2 in.; R-5.01 in. Extruded poly board					
Window	40 sq.ft.	650	0	650	536
- Double pane; Wood frame; Low emittance					
- No inside shading; Coating: None (clear glass); 55% shaded.					
Ceiling	364 sq.ft.	284	0	284	350
- Under ventilated attic; R-38 (10 inch); Dark					
Bedroom and Bathroom		3,852	20	3,872	3,776
Bedroom	265 sq.ft.	3,564	18	3,582	3,253
Infiltration		57	18	75	706
- Tightness: Best; Winter ACH: .4 ; Summer ACH: .2					
Duct		0	0	0	155
- Supply above 120; Enclosed in unheated space; R-6					
Floor	265 sq.ft.	0	0	0	181
- Over enclosed crawl space; Hardwood; R-30 (8 - 9 inch)					
S Wall	88.3 sq.ft.	38	0	38	147
- Wood frame, with sheathing, siding or brick; R-195 1/2 in.; R-5.01 in. Extruded poly board					
Window	28.7 sq.ft.	633	0	633	383
- Double pane; Wood frame; Low emittance					
- No inside shading; Coating: None (clear glass); 55% shaded.					
E Wall	122.6 sq.ft.	53	0	53	204
- Wood frame, with sheathing, siding or brick; R-195 1/2 in.; R-5.01 in. Extruded poly board					
Window	57.4 sq.ft.	2,092	0	2,092	767
- Double pane; Wood frame; Low emittance					
- No inside shading; Coating: None (clear glass); 55% shaded.					
N Wall	43.3 sq.ft.	19	0	19	72
- Wood frame, with sheathing, siding or brick; R-195 1/2 in.; R-5.01 in. Extruded poly board					
Window	28.7 sq.ft.	465	0	465	383
- Double pane; Wood frame; Low emittance					
- No inside shading; Coating: None (clear glass); 55% shaded.					
Ceiling	265 sq.ft.	207	0	207	255
- Under ventilated attic; R-38 (10 inch); Dark					
Bathroom	72 sq.ft.	288	2	290	523

Building Component		Sensible Gain (BTUH)	Latent Gain (BTUH)	Total Heat Gain (BTUH)	Total Heat Loss (BTUH)
Infiltration		5	2	7	67
- Tightness: Best; Winter ACH: .4 ; Summer ACH: .2					
Duct		0	0	0	25
- Supply above 120; Enclosed in unheated space; R-6					
Floor	72 sq.ft.	0	0	0	49
- Over enclosed crawl space; Hardwood; R-30 (8 - 9 inch)					
E Wall	36 sq.ft.	16	0	16	60
- Wood frame, with sheathing, siding or brick; R-19 1/2 in.; R-5.01 in. Extruded poly board					
N Wall	60.6 sq.ft.	26	0	26	101
- Wood frame, with sheathing, siding or brick; R-19 1/2 in.; R-5.01 in. Extruded poly board					
Window	11.4 sq.ft.	185	0	185	152
- Double pane; Wood frame; Low emittance					
- No inside shading; Coating: None (clear glass); 55% shaded.					
Ceiling	72 sq.ft.	56	0	56	69
- Under ventilated attic; R-38 (10 inch); Dark					
<b>Whole House</b>	<b>701.5 sq.ft.</b>	<b>8,081</b>	<b>43</b>	<b>8,124</b> <b>( 0.5 tons )</b>	<b>8,426</b>