

In accordance with ACCA Manual J

**Registered For:****The Adam French Residence****For:**

Adam French  
122 Anderson  
Sandborn, IN 47578

**Design Conditions:** Vincennes**Indoor:**

Summer temperature: 75  
Winter temperature: 69  
Relative humidity: 50

**Outdoor:**

Summer temperature: 92  
Winter temperature: 6  
Summer grains of moisture: 99  
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>3,244.2 sq.ft.</b>	<b>43,830</b>	<b>6,644</b>	<b>50,474 ( 4 tons )</b>	<b>165,585</b>
First Floor		19,134	3,639	22,773	97,825
Front Parlor	278 sq.ft.	4,744	587	5,331	22,189
Infiltration		461	587	1,048	3,419
- Tightness: Poor; Winter ACH: 1 ; Summer ACH: .5					
Fireplace		0	0	0	7,738
- Average - glass doors, damper					
Floor	277.5 sq.ft.	0	0	0	1,906
- Over enclosed crawl space; Carpeted; No insulation					
W Wall	129.2 sq.ft.	721	0	721	2,206
- Wood frame, with sheathing, siding or brick; None; none					
Window	39.6 sq.ft.	2,123	0	2,123	2,470
- Single pane; Wood frame; Clear glass					
- Draperies or blinds; Coating: None (clear glass); No outside shading.					
N Wall	188.3 sq.ft.	1,051	0	1,051	3,215
- Wood frame, with sheathing, siding or brick; None; none					
Window	19.8 sq.ft.	388	0	388	1,235
- Single pane; Wood frame; Clear glass					
- Draperies or blinds; Coating: None (clear glass); No outside shading.					
Entry Way	190 sq.ft.	1,149	587	1,736	6,829
Infiltration		461	587	1,048	3,419
- Tightness: Poor; Winter ACH: 1 ; Summer ACH: .5					
Floor	190 sq.ft.	0	0	0	1,305
- Over enclosed crawl space; Carpeted; No insulation					
W Wall	53 sq.ft.	296	0	296	905
- Wood frame, with sheathing, siding or brick; None; none					

Building Component		Sensible Gain (BTUH)	Latent Gain (BTUH)	Total Heat Gain (BTUH)	Total Heat Loss (BTUH)
Door	59.5 sq.ft.	392	0	392	1,200
- Wood; Solid; Metal storm					
Bath	36 sq.ft.	754	0	754	2,551
Infiltration		0	0	0	0
- Tightness: Poor; Winter ACH: 1 ; Summer ACH: .5					
Floor	36 sq.ft.	0	0	0	247
- Over enclosed crawl space; Carpeted; No insulation					
W Wall	67.5 sq.ft.	377	0	377	1,152
- Wood frame, with sheathing, siding or brick; None; none					
S Wall	67.5 sq.ft.	377	0	377	1,152
- Wood frame, with sheathing, siding or brick; None; none					
Music Room	303 sq.ft.	3,254	587	3,841	19,868
Infiltration		461	587	1,048	3,419
- Tightness: Poor; Winter ACH: 1 ; Summer ACH: .5					
Fireplace		0	0	0	7,738
- Average - glass doors, damper					
Floor	303.3 sq.ft.	0	0	0	2,083
- Over enclosed crawl space; Carpeted; No insulation					
W Wall	17.7 sq.ft.	99	0	99	302
- Wood frame, with sheathing, siding or brick; None; none					
Window	19.8 sq.ft.	1,061	0	1,061	1,235
- Single pane; Wood frame; Clear glass					
- Draperies or blinds; Coating: None (clear glass); No outside shading.					
N Wall	153.5 sq.ft.	857	0	857	2,621
- Wood frame, with sheathing, siding or brick; None; none					
Window	39.6 sq.ft.	776	0	776	2,470
- Single pane; Wood frame; Clear glass					
- Draperies or blinds; Coating: None (clear glass); No outside shading.					
Back Parlor	312 sq.ft.	2,819	616	3,435	19,498
Infiltration		484	616	1,100	3,590
- Tightness: Poor; Winter ACH: 1 ; Summer ACH: .5					
Fireplace		0	0	0	7,738
- Average - glass doors, damper					
Floor	312.1 sq.ft.	0	0	0	2,143
- Over enclosed crawl space; Carpeted; No insulation					
S Wall	159.2 sq.ft.	889	0	889	2,718
- Wood frame, with sheathing, siding or brick; None; none					
Window	39.6 sq.ft.	1,172	0	1,172	2,470
- Single pane; Wood frame; Clear glass					
- Draperies or blinds; Coating: None (clear glass); No outside shading.					
E Wall	22.1 sq.ft.	123	0	123	377
- Wood frame, with sheathing, siding or brick; None; none					
Door	22.9 sq.ft.	151	0	151	462

Building Component		Sensible Gain (BTUH)	Latent Gain (BTUH)	Total Heat Gain (BTUH)	Total Heat Loss (BTUH)
- Wood; Solid; Metal storm					
Kitchen	294 sq.ft.	3,656	616	4,272	14,197
Infiltration		484	616	1,100	3,590
- Tightness: Poor; Winter ACH: 1 ; Summer ACH: .5					
Floor	294 sq.ft.	0	0	0	2,019
- Over enclosed crawl space; Carpeted; No insulation					
S Wall	196.7 sq.ft.	1,098	0	1,098	3,358
- Wood frame, with sheathing, siding or brick; None; none					
Window	39.6 sq.ft.	1,172	0	1,172	2,470
- Single pane; Wood frame; Clear glass					
- Draperies or blinds; Coating: None (clear glass); No outside shading.					
E Wall	134.6 sq.ft.	751	0	751	2,298
- Wood frame, with sheathing, siding or brick; None; none					
Door	22.9 sq.ft.	151	0	151	462
- Wood; Solid; Metal storm					
Back Entry	103 sq.ft.	640	225	865	3,432
Infiltration		177	225	402	1,311
- Tightness: Poor; Winter ACH: 1 ; Summer ACH: .5					
Floor	102.7 sq.ft.	0	0	0	705
- Over enclosed crawl space; Carpeted; No insulation					
N Wall	56 sq.ft.	312	0	312	954
- Wood frame, with sheathing, siding or brick; None; none					
Door	22.9 sq.ft.	151	0	151	462
- Wood; Solid; Metal storm					
Carol Room	132 sq.ft.	2,118	421	2,539	9,261
Infiltration		331	421	752	2,450
- Tightness: Poor; Winter ACH: 1 ; Summer ACH: .5					
Floor	132 sq.ft.	0	0	0	1,297
- Over enclosed crawl space; Hardwood or tile; No insulation					
E Wall	142.1 sq.ft.	793	0	793	2,426
- Wood frame, with sheathing, siding or brick; None; none					
Door	22.9 sq.ft.	151	0	151	462
- Wood; Solid; Metal storm					
N Wall	81.5 sq.ft.	455	0	455	1,391
- Wood frame, with sheathing, siding or brick; None; none					
Window	19.8 sq.ft.	388	0	388	1,235
- Single pane; Wood frame; Clear glass					
- Draperies or blinds; Coating: None (clear glass); No outside shading.					
Second Floor		24,694	3,005	27,699	67,763
Front Room	281 sq.ft.	5,060	558	5,618	12,796
Infiltration		438	558	996	3,248
- Tightness: Poor; Winter ACH: 1 ; Summer ACH: .5					

Building Component		Sensible Gain (BTUH)	Latent Gain (BTUH)	Total Heat Gain (BTUH)	Total Heat Loss (BTUH)
Floor	281.1 sq.ft.	0	0	0	0
- Over conditioned space					
W Wall	106.6 sq.ft.	595	0	595	1,820
- Wood frame, with sheathing, siding or brick; None; none					
Window	37.8 sq.ft.	2,026	0	2,026	2,358
- Single pane; Wood frame; Clear glass					
- Draperies or blinds; Coating: None (clear glass); No outside shading.					
N Wall	153.5 sq.ft.	857	0	857	2,621
- Wood frame, with sheathing, siding or brick; None; none					
Window	19.1 sq.ft.	374	0	374	1,191
- Single pane; Wood frame; Clear glass					
- Draperies or blinds; Coating: None (clear glass); No outside shading.					
Ceiling	281 sq.ft.	770	0	770	1,558
- Under ventilated attic; R-11 (3 - 3.5 inch); Light					
Front Bath	40 sq.ft.	1,899	186	2,085	4,414
Infiltration		146	186	332	1,083
- Tightness: Poor; Winter ACH: 1 ; Summer ACH: .5					
Floor	40 sq.ft.	0	0	0	0
- Over conditioned space					
W Wall	75.3 sq.ft.	420	0	420	1,286
- Wood frame, with sheathing, siding or brick; None; none					
Window	18.9 sq.ft.	1,013	0	1,013	1,179
- Single pane; Wood frame; Clear glass					
- Draperies or blinds; Coating: None (clear glass); No outside shading.					
S Wall	37.7 sq.ft.	210	0	210	644
- Wood frame, with sheathing, siding or brick; None; none					
Ceiling	40 sq.ft.	110	0	110	222
- Under ventilated attic; R-11 (3 - 3.5 inch); Light					
Ravenna Room	204 sq.ft.	4,126	558	4,684	10,967
Infiltration		438	558	996	3,248
- Tightness: Poor; Winter ACH: 1 ; Summer ACH: .5					
Floor	204 sq.ft.	0	0	0	0
- Over conditioned space					
S Wall	122.2 sq.ft.	682	0	682	2,086
- Wood frame, with sheathing, siding or brick; None; none					
Window	37.8 sq.ft.	1,119	0	1,119	2,358
- Single pane; Wood frame; Clear glass					
- Draperies or blinds; Coating: None (clear glass); No outside shading.					
W Wall	18.8 sq.ft.	105	0	105	321
- Wood frame, with sheathing, siding or brick; None; none					
Window	18.9 sq.ft.	1,013	0	1,013	1,179
- Single pane; Wood frame; Clear glass					
- Draperies or blinds; Coating: None (clear glass); No outside shading.					

Building Component		Sensible Gain (BTUH)	Latent Gain (BTUH)	Total Heat Gain (BTUH)	Total Heat Loss (BTUH)
E Wall	37.7 sq.ft.	210	0	210	644
- Wood frame, with sheathing, siding or brick; None; none					
Ceiling	204 sq.ft.	559	0	559	1,131
- Under ventilated attic; R-11 (3 - 3.5 inch); Light					
Master Bedroom	314 sq.ft.	3,839	558	4,397	10,933
Infiltration		438	558	996	3,248
- Tightness: Poor; Winter ACH: 1 ; Summer ACH: .5					
Floor	314.5 sq.ft.	0	0	0	0
- Over conditioned space					
N Wall	122.2 sq.ft.	682	0	682	2,086
- Wood frame, with sheathing, siding or brick; None; none					
Window	37.8 sq.ft.	741	0	741	2,358
- Single pane; Wood frame; Clear glass					
- Draperies or blinds; Coating: None (clear glass); No outside shading.					
W Wall	18.8 sq.ft.	105	0	105	321
- Wood frame, with sheathing, siding or brick; None; none					
Window	18.9 sq.ft.	1,013	0	1,013	1,179
- Single pane; Wood frame; Clear glass					
- Draperies or blinds; Coating: None (clear glass); No outside shading.					
Ceiling	314 sq.ft.	860	0	860	1,741
- Under ventilated attic; R-11 (3 - 3.5 inch); Light					
3rd Bath	48 sq.ft.	1,151	186	1,337	3,491
Infiltration		146	186	332	1,083
- Tightness: Poor; Winter ACH: 1 ; Summer ACH: .5					
Floor	48 sq.ft.	0	0	0	0
- Over conditioned space					
S Wall	56.4 sq.ft.	315	0	315	963
- Wood frame, with sheathing, siding or brick; None; none					
Window	18.9 sq.ft.	559	0	559	1,179
- Single pane; Wood frame; Clear glass					
- Draperies or blinds; Coating: None (clear glass); No outside shading.					
Ceiling	48 sq.ft.	131	0	131	266
- Under ventilated attic; R-11 (3 - 3.5 inch); Light					
Venna Room	168 sq.ft.	3,479	372	3,851	8,989
Infiltration		292	372	664	2,165
- Tightness: Poor; Winter ACH: 1 ; Summer ACH: .5					
Floor	168 sq.ft.	0	0	0	0
- Over conditioned space					
S Wall	94 sq.ft.	525	0	525	1,607
- Wood frame, with sheathing, siding or brick; None; none					
Window	18.9 sq.ft.	559	0	559	1,179
- Single pane; Wood frame; Clear glass					
- Draperies or blinds; Coating: None (clear glass); No outside shading.					

Building Component		Sensible Gain (BTUH)	Latent Gain (BTUH)	Total Heat Gain (BTUH)	Total Heat Loss (BTUH)
E Wall	113 sq.ft.	630	0	630	1,928
- Wood frame, with sheathing, siding or brick; None; none					
Window	18.9 sq.ft.	1,013	0	1,013	1,179
- Single pane; Wood frame; Clear glass					
- Draperies or blinds; Coating: None (clear glass); No outside shading.					
Ceiling	168 sq.ft.	460	0	460	931
- Under ventilated attic; R-11 (3 - 3.5 inch); Light					
Elevator Room	132 sq.ft.	2,190	362	2,552	7,609
Infiltration		284	362	646	2,108
- Tightness: Poor; Winter ACH: 1 ; Summer ACH: .5					
Floor	132 sq.ft.	0	0	0	0
- Over conditioned space					
E Wall	85.6 sq.ft.	478	0	478	1,461
- Wood frame, with sheathing, siding or brick; None; none					
Door	18 sq.ft.	171	0	171	522
- Wood; Solid; No storm					
N Wall	94 sq.ft.	525	0	525	1,607
- Wood frame, with sheathing, siding or brick; None; none					
Window	18.9 sq.ft.	370	0	370	1,179
- Single pane; Wood frame; Clear glass					
- Draperies or blinds; Coating: None (clear glass); No outside shading.					
Ceiling	132 sq.ft.	362	0	362	732
- Under ventilated attic; R-11 (3 - 3.5 inch); Light					
Back Hall	136 sq.ft.	1,204	186	1,390	3,979
Infiltration		146	186	332	1,083
- Tightness: Poor; Winter ACH: 1 ; Summer ACH: .5					
Floor	136 sq.ft.	0	0	0	0
- Over conditioned space					
N Wall	56.4 sq.ft.	315	0	315	963
- Wood frame, with sheathing, siding or brick; None; none					
Window	18.9 sq.ft.	370	0	370	1,179
- Single pane; Wood frame; Clear glass					
- Draperies or blinds; Coating: None (clear glass); No outside shading.					
Ceiling	136 sq.ft.	373	0	373	754
- Under ventilated attic; R-11 (3 - 3.5 inch); Light					
Main Hall	195 sq.ft.	534	0	534	1,081
Infiltration		0	0	0	0
- Tightness: Poor; Winter ACH: 1 ; Summer ACH: .5					
Floor	195 sq.ft.	0	0	0	0
- Over conditioned space					
Ceiling	195 sq.ft.	534	0	534	1,081
- Under ventilated attic; R-11 (3 - 3.5 inch); Light					
Stairwell	78 sq.ft.	1,212	39	1,251	3,504

Building Component		Sensible Gain (BTUH)	Latent Gain (BTUH)	Total Heat Gain (BTUH)	Total Heat Loss (BTUH)
Infiltration		31	39	70	228
- Tightness: Poor; Winter ACH: 1 ; Summer ACH: .5					
Floor	78 sq.ft.	0	0	0	0
- Over conditioned space					
S Wall	152 sq.ft.	849	0	849	2,595
- Wood frame, with sheathing, siding or brick; None; none					
Window	4 sq.ft.	118	0	118	249
- Single pane; Wood frame; Clear glass					
- Draperies or blinds; Coating: None (clear glass); No outside shading.					
Ceiling	78 sq.ft.	214	0	214	432
- Under ventilated attic; R-11 (3 - 3.5 inch); Light					
<b>Whole House</b>	<b>3,244.2 sq.ft.</b>	<b>43,830</b>	<b>6,644</b>	<b>50,474 ( 4 tons )</b>	<b>165,585</b>