

 AJ

 Site ID: 11915
 Heating: 22,800 BTU/hr

 Area: 1,635 ft<sup>2</sup>
 Cooling: 14,300 BTU/hr

 Climate: Berkeley
 Latent: 100 BTU/hr

# **Site Information**

Contractor Name	Bryce Nesbitt	Contractor Company	Obviously Inspects
Project Name	AJ	Subdivision	
Address 1	5885 Chabot Court	Lot Number	
Address 2		Plan/Model Number	
State/Province	California	Builder	
Zip/Postal Code	94618	Year	1911
Default Insulation Level	Existing Average Insulated	Weather Location	Berkeley

# **Component Loads**



## **Room Data and Loads**

Room Name	Suggested Ducts	Actual Ducts	Duct Size C	FM/Duct	Actual CFM Measured	Floor Area	Ext. Length	Height Override	Uncond Ceiling	Uncond Floor	Heating Load	Cooling Load
Upstairs	4	1	4	451		551	70.0	8.0	0 %	0 %	5,340	3,292
Kitchen	6	1	4	712		551	70.0	9.0	0 %	100 %	8,432	4,973
Living	7	2	4	429		533	68.0	9.0	100 %	100 %	9,072	5,994
Total	17	4				1,635					22,845	14,258

## **Required Heating**



## **Required Cooling**







# **HVAC Design and Actual System Data**



	Manufacturer	Model	Nominal size (BTU/hr)
Furnace	Fujitsu	AOUG36LMAS1	40,000
Heat Pump or AC Condenser			
Fan Coil			

Calculated	Specified
22,800	0
14,300	38,000
100	41,700
0.99	0.48
Heating	Cooling
mouting	oconing
2,000	2,021
	Calculated 22,800 14,300 100 0.99 Heating

# **Building Characteristics**

Conditioned Floor Area (sqrt)	1,635	
Total Room Area	1,635	
Wall Height	9.0	Unconditioned
Bedrooms	3	



#### Window Orientation

Room Name	$\uparrow N$	⊅ NE	$ ightarrow \mathbf{E}$	∿ <b>SE</b>	$\downarrow$ S	∠ SW	$W \rightarrow$	$^{\rm NW}$	Door	Skylight
Upstairs	16.0				16.0		30.0			
Kitchen	16.0				16.0		60.0		32.0	
Living	16.0		60.0		16.0				32.0	

 Total Window Square Footage (sqrt)
 310

 Total Room (Floor) Square Footage (sqrt)
 1,635

 Total Window to Floor Ratio (%)
 19.0 %

# **Duct Characteristics**

Duct Material	Wire Helix (flex)		Blower CFM	2,000
Attic %	0		Max CFM/Register	125
Conditioned Area %	0		Friction Rate	0.00
TEL Calculated	103		Unconditioned Basement or Crawl Space %	100
TEL Override	0			

### **Building Data**

	Selected	Override		Selected	Override
Heating 99% Dry Bulb	40		Additional Blower Load	1707	0
Cooling 1% Dry Bulb	80		Internal Shade Coefficient	1.0	0.80
Winter Thermostat Setpoint (°F)	70		Ceiling U-Value	0.049	None
Summer Thermostat Setpoint (°F)	75		Floor U-Value	0.047	Frame Floor R-0
Daily Range	Medium	None	Wall U-Value	0.097	R-0 + R-3 Board
Summer Design Grains	-6		Basement Wall U-Value	0.093	R-0
Elevation (ft)	345		Basement Floor U-Value	0.025	Basement, R-0
Latitude (°N)	38		Slab U-Value	1.180	None
Indoor RH	50		Door U-Value	0.200	
Number of People	4	2	Window U-Value	0.700	1.000
Appliance/Lighting Load (BTU/hr)	2,400		Window SHGC	0.580	0.550
Internal Gains	3,320	2,860	Duct Insulation	(R-4)	(R-8)
Ventilation CFM	31	0	Duct Leakage	Semi Lea	Tight
Heating Duct Multiplier	4 %		Heating ACH	0.500	0.350
Cooling Duct Multiplier	4 %		Cooling ACH	0.250	0.350
% Basement Below Grade	75 %	40 %			
ASHRAE 152 Duct area default Heated slab on grade					

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