



BUILDING FILE REPORT

File Name: BaseModel.blg

Date: August 08, 2006

Property/Builder:

Building Name: Typical SF New House
Owner's Name:
Prop. Address:
City,St,Zip: Santa Fe, NM
Phone No:

Bldr's Name: Typical Builder
Model: Typical
Development: Typical
Phone No:

General Building Information

Area of Cond. Space(sq ft): 2000
Floors on or Above-Grade: 1
Volume of Cond. Space: 16000
Number of Bedrooms: 3
Housing Type: Single-family detached
Level Type(Apartments Only): None
Foundation Type: Slab
Enclosed Crawl Space Type: N/A

Slab Floor Info:

1

Name

Library Type Uninsulated
Area(sq ft) 2000
Depth Below Grade(ft) 0.0
Full Perimeter(ft) 180
Exposed Perimeter(ft) 180
On-Grade Perimeter(ft) 180

Slab Floor: Uninsulated

Perimeter Insulation (R-Value): 0.0
Perimeter Insulation Depth (ft): 0.0
Under-Slab Insulation (R-Value): 0.0
Under-Slab Insulation Width (ft): 0.0
Radiant Slab: No
Note:

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Above-Grade Wall:	1		
Name	From SI		
Library Type	R-19		
Gross Area(sq ft)	1440.00		
Exterior Color	Light		
Location	Cond -> ambient		
Uo Value	0.060		

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Above-Grade Wall: R-19

Information From Quick Fill Screen:

Standard Wood Frame

Continuous Insulation (R-Value)	0.0
Frame Cavity Insulation (R-Value)	19.0
Frame Cavity Insulation Thickness (in)	5.5
Frame Cavity Insulation Grade	1
Stud Size (w x d, in)	1.5 x 5.5
Stud Spacing (in o.c.)	24.0
Framing Factor - (default)	0.1988
Gypsum Thickness (in)	0.5

Note:

Layers	Paths		
	Cavity	Framing	Grade
Inside Air Film	0.680	0.680	0.680
Gyp board	0.450	0.450	0.450
Air Gap/Frm	0.000	0.000	0.000
Cavity ins/Frm	19.000	6.875	1.030
Continuous ins	0.000	0.000	0.000
Ext Finish	0.940	0.940	0.940
	0.000	0.000	0.000
Outside Air Film	0.170	0.170	0.170
Total R-Value	21.240	9.115	3.270
U-Value	0.047	0.110	0.306
Relative Area	0.801	0.199	0.000
UA	0.038	0.022	0.000

Total Component UA: 0.060

Total Component Area: 1.0

Component Uo: 0.060

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Window Information:	1	2	3
Name			
Library Type	Double - Vinyl	Double - Vinyl	Double - Vinyl
U-Value	0.460	0.460	0.460
SHGC	0.570	0.570	0.570
Area(sq ft)	60.00	60.00	60.00
Orientation	South	North	East
Overhang Depth	0.0	0.0	0.0
Overhang To Top	1.0	1.0	1.0
Overhang To Bottom	4.0	4.0	4.0
Interior Winter Shading	0.70	0.10	0.40
Interior Summer Shading	0.70	0.10	0.70
Adjacent Winter Shading	None	None	None
Adjacent Summer Shading	Most	None	Most
Wall Assignment	AGWall 1	AGWall 1	AGWall 1

Window Information:	4		
Name			
Library Type	Double - Vinyl		
U-Value	0.460		
SHGC	0.570		
Area(sq ft)	60.00		
Orientation	West		
Overhang Depth	0.0		
Overhang To Top	1.0		
Overhang To Bottom	4.0		
Interior Winter Shading	0.40		
Interior Summer Shading	0.70		
Adjacent Winter Shading	None		
Adjacent Summer Shading	Most		
Wall Assignment	AGWall 1		

Window: Double - Vinyl	
U-Value:	0.460
Solar Heat Gain Coefficient:	0.570
Note:	

Door Information:	1		
Name	AG Frame		
Opaque Area(sq ft)	40.0		
Library Type	1-3/8 Wd solid core		
Wall Assignment	AGWall 1		
Uo Value	0.380		

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Door: 1-3/8 Wd solid core

R-Value of Opaque Area: 1.7
Storm Door: No
Note:

Roof Information:

1

Name	Attic
Library Type	R-38 Blown, Attic
Gross Area(sq ft)	2000.00
Color	Light
Radiant Barrier	No
Type(Attic)	Attic
Uo Value	0.026

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Ceiling: R-38 Blown, Attic

Information From Quick Fill Screen:

Continous Insulation (R-Value)	25.0
Cavity Insulation (R-Value)	13.0
Cavity Insulation Thickness (in)	3.5
Cavity Insulation Grade	1.0
Gypsum Thickness (in)	0.500
Bottom Chord/Rafter Size(w x h, in)	1.5 x 3.5
Bottom Chord/Rafter Spacing (in o.c.)	24.0
Framing Factor - (default)	0.1100
Ceiling Type	Attic

Note:

Layers	Paths	
	Framing	Cavity
Inside Air Film	0.610	0.610
Gyp board	0.450	0.450
Cavity Ins/Frm	4.375	13.000
Continuous ins	25.000	25.000
	0.000	0.000
	0.000	0.000
	0.000	0.000
Outside Air Film	0.610	0.610
Total R-Value	31.045	39.670
U-Value	0.032	0.025
Relative Area	0.110	0.890
UA	0.004	0.022

Total Component UA: 0.026

Total Component Area: 1.0

Component Uo: 0.026

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Skylight Information:		1		
Name				
Library Type		Triple - Vinyl		
U-Value		0.360		
SHGC		0.520		
Area(sq ft)		8.0		
Winter Shading		None		
Summer Shading		None		
Orientation		North		
Pitch[?/12]		1		
Ceiling Assignment		Roof 1		

Window: Triple - Vinyl	
U-Value:	0.360
Solar Heat Gain Coefficient:	0.520
Note:	

Mechanical Equipment: General	
Number of Mechanical Systems:	3
Heating SetPoint(F):	70.00
Heating Setback Thermostat:	Present
Cooling SetPoint(F):	75.00
Cooling Setup Thermostat:	Present

Heat: 80AFUE Gas Furn 48k	
SystemType:	Fuel-fired air distribution
Fuel Type:	Natural gas
Rated Output Capacity (kBtuh):	48.0
Seasonal Equipment Efficiency:	80.0 AFUE
Auxiliary Electric:	0 Eae
Note:	
Heater Location:	Conditioned area
Performance Adjustment:	75
Percent Load Served:	100
Number Of Units:	1

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Cooling Equipment: 13SEER A/C 1.5 ton

System Type: Air conditioner
Fuel Type: Electric
Rated Output Capacity (kBtuh): 18.0
Seasonal Equipment Efficiency: 13.0 SEER
Sensible Heat Fraction (SHF): 0.70
Note:
Performance Adjustment: 75
Percent Load Served: 100
Number Of Units: 1

Water Heating Equipment: 40 gal. 0.62EF Gas

Water Heater Type: Conventional
Fuel Type: Natural gas
Energy Factor: 0.62
Recovery Efficiency: 0.80
Water Tank Size (gallons): 40
Extra Tank Insulation (R-Value): 0.0
Note:
Location: Conditioned area
Percent Load Served: 100
Performance Adjustment: 100
Number Of Units: 1

Duct System Information:

Name
Heating System 80AFUE Gas Furn 48k
Cooling System 13SEER A/C 1.5 ton
Supply Area(sq ft) 540.0
Return Area(sq ft) 100.0
of Registers 1
Duct Leakage
Qualitative Assessment: RESNET/HERS default
Total Duct Leakage - Not Applicable
Supply Duct Leakage - Not Applicable
Return Duct Leakage - Not Applicable

Duct Information:

	1	2	
Type	Supply	Return	
Percent Area	100.0	100.0	
R-Value	0.0	0.0	
Location	Conditioned space	Conditioned space	

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Infiltration and Mechanical Ventilation

Whole House Infiltration

Measurement Type: Blower door test
 Heating Season Infiltration Value: 0.40 Natural ACH
 Cooling Season Infiltration Value: 0.40 Natural ACH

Mechanical Ventilation for IAQ

Type: Exhaust Only
 Rate(cfm): 200
 Sensible Recovery Efficiency(%): 0.00
 Total Recovery Efficiency(%): 0.00
 Hours per Day: 2.00
 Fan Power (watts): 26.00

Ventilation Strategy for Cooling

Cooling Season Ventilation: No Ventilation

Lights and Appliances

Detailed audit
 Light Fixture(s) 1670.3 kWh/use; 1.0 Uses/Year; Standard
 Light Fixture(s) 185.6 kWh/use; 1.0 Uses/Year; Standard
 Refrigerator 500.0 kWh/use; 1.0 Uses/Year; Energy Star
 Dishwasher 400.0 kWh/use; 1.0 Uses/Year; Standard
 Dishwasher 6.0 Gallons/use; 296.0 Uses/Year; Standard
 Ceiling Fan(s) 80.0 Watts; 176.2 Hours/Month; Standard
 Oven/Range 547.5 kWh/use; 1.0 Uses/Year; Standard
 Clothes Dryer 1200.0 kWh/use; 1.0 Uses/Year; Standard
 Clothes Washer 300.0 kWh/use; 1.0 Uses/Year; Standard
 Clothes Washer 12000.0 Gallons/use; 1.0 Uses/Year; Standard
 Shower/Bath 20.0 Gallons/use; 730.0 Uses/Year; Standard
 Plug Load(s) 2889.3 kWh/use; 1.0 Uses/Year; Standard

Added Mass: Drywall Thickness(in): 0.50

Added Mass Info:	1	2
Name	Floor	Floor2
Type	Concrete	Concrete
Area(sq ft)	100.0	1900.0
Thickness(in)	4.0	4.0
Location	Sunlit floor	Shaded floor

Notes

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Typical SF New House

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Single-story house

2000 sf

40'x50' Slab floor, R-5 perimeter, R-5 under