Project Title..... Your Name's Residence Date..04/29/08 23:55:27
Project Address..... Your Street, *******
Your City, CA 00000. *v7.20*
Documentation Author... Kathleen Taylor *******
Taylor Design & Drafting
P.O. Box 905
Rocklin, CA 95677
916-624-1649
Climate Zone..... 12
Compliance Method..... MICROPAS7 v7.20 for 2005 Standards by Enercomp, Inc.

| Building Permit # |
| Plan Check / Date |
| Field Check/ Date |

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MICROPAS7 ENERGY USE SUMMARY

Energy Use (kTDV/sf-yr)	Standard Design	Proposed Design	Compliance Margin
Space Heating.....	23.19	22.15	1.04
Space Cooling.....	25.06	24.16	0.90
Water Heating.....	8.60	8.26	0.34
Total	56.85	54.57	2.28

*** Building complies with Computer Performance ***

GENERAL INFORMATION

HERS Verification..... Not Required
Conditioned Floor Area..... 3109 sf
Building Type..... Single Family Detached
Construction Type ..... New
Fuel Type ..... NaturalGas
Building Front Orientation. Front Facing 0 deg (N)
Number of Dwelling Units... 1
Number of Building Stories. 1
Weather Data Type..... FullYear

Floor Construction Type.... Raised Floor
Number of Building Zones... 1
Conditioned Volume..... 31960 cf
Slab-On-Grade Area..... 0 sf
Glazing Percentage..... 22.4 % of floor area
Average Glazing U-factor... 0.4 Btu/hr-sf-F
Average Glazing SHGC..... 0.35
Average Ceiling Height..... 10.3 ft

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BUILDING ZONE INFORMATION

Zone Type	Floor Area (sf)	Volume (cf)	# of Dwell Units	# of Peop-le	Cond-it-ioned	Thermo-stat Type	Vent Height (ft)	Vent Area (sf)	Verified Leakage or Housewrap
Residence	3109	31960	1.00	2.0	Yes	Setback	2.0	Standard	No

OPAQUE SURFACES

Surface	Frame Type	Area (sf)	U-fact-or	Cavity R-val	Sheath-ing R-val	Act Azm	Tilt	Solar Gains	Appendix IV Reference	Location/ Comments
1 Wall	Wood	533	0.074	19	0	0	90	Yes	IV.9 A5	
2 Wall	Wood	124	0.074	19	0	0	90	No	IV.9 A5	
3 Wall	Wood	481	0.074	19	0	90	90	Yes	IV.9 A5	
4 Wall	Wood	93	0.074	19	0	90	90	No	IV.9 A5	
5 Wall	Wood	828	0.074	19	0	180	90	Yes	IV.9 A5	
6 Wall	Wood	26	0.074	19	0	180	90	No	IV.9 A5	
7 Wall	Wood	413	0.074	19	0	270	90	Yes	IV.9 A5	
8 Wall	Wood	108	0.074	19	0	45	90	Yes	IV.9 A5	Corner Wall
9 Wall	Wood	230	0.074	19	0	45	90	No	IV.9 A5	Corner Wall
10 Wall	Wood	195	0.074	19	0	135	90	No	IV.9 A5	Corner Wall
11 Roof	Wood	3109	0.025	38	0	n/a	0	Yes	IV.1 A18	
12 Floor	Wood	3109	0.037	19	0	n/a	0	No	IV.20 A4	
13 Door	Other	48	0.500	0	0	0	90	Yes	IV.5 A4	

PERIMETER LOSSES

Surface	Length (ft)	F2 Factor	Insul R-val	Solar Gains	Appendix IV Reference	Location/ Comments
14 SlabEdge	154	0.730	R-0	No	IV.26 A1	

FENESTRATION SURFACES

Orientation	Area (sf)	U-factor	SHGC	Act Azm	Tilt	Exterior Shade Type	Location/Comments
1 Wind Front (N)	13.5	0.400	0.350	0	90	Standard	F1/Vinyl/Wood Operable L
2 Wind Front (N)	13.5	0.400	0.350	0	90	Standard	F2/Vinyl/Wood Operable L
3 Wind Front (N)	30.0	0.400	0.350	0	90	Standard	F3/Vinyl/Wood Operable L
4 Wind Front (N)	2.3	0.400	0.350	0	90	Standard	F4/Vinyl/Wood Fixed Low

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FENESTRATION SURFACES

Orientation	Area (sf)	U-factor	SHGC	Act Azm	Tilt	Exterior Shade Type	Location/Comments
5 Wind Front (N)	2.3	0.400	0.350	0	90	Standard	F5/Vinyl/Wood Fixed Low
6 Wind Front (N)	2.3	0.400	0.350	0	90	Standard	F6/Vinyl/Wood Fixed Low
7 Wind Front (N)	30.0	0.400	0.350	0	90	Standard	F7/Vinyl/Wood Operable L
8 Wind Front (N)	4.0	0.400	0.350	0	90	Standard	F8/Vinyl/Wood Operable L
9 Wind Front (N)	4.0	0.400	0.350	0	90	Standard	F9/Vinyl/Wood Operable L
10 Wind Left (E)	4.0	0.400	0.350	90	90	Standard	L1/Vinyl/Wood Operable L
11 Wind Left (E)	4.0	0.400	0.350	90	90	Standard	L2/Vinyl/Wood Operable L
12 Wind Left (E)	4.0	0.400	0.350	90	90	Standard	L3/Vinyl/Wood Operable L
13 Wind Left (E)	8.0	0.400	0.350	90	90	Standard	L4/Vinyl/Wood Operable L
14 Wind Left (E)	4.0	0.400	0.350	90	90	Standard	L5/Vinyl/Wood Operable L
15 Door Left (E)	48.0	0.400	0.350	90	90	Standard	L6/Vinyl/Wood Patio Door
16 Wind Left (E)	20.0	0.400	0.350	90	90	Standard	L7/Vinyl/Wood Operable L
17 Wind Back (S)	4.0	0.400	0.350	180	90	Standard	B1/Vinyl/Wood Operable L
18 Wind Back (S)	24.0	0.400	0.350	180	90	Standard	B2/Vinyl/Wood Operable L
19 Wind Back (S)	24.0	0.400	0.350	180	90	Standard	B3/Vinyl/Wood Operable L
20 Wind Back (S)	24.0	0.400	0.350	180	90	Standard	B4/Vinyl/Wood Operable L
21 Wind Back (S)	8.0	0.400	0.350	180	90	Standard	B5/Vinyl/Wood Fixed Low
22 Wind Back (S)	8.0	0.400	0.350	180	90	Standard	B6/Vinyl/Wood Fixed Low
23 Wind Back (S)	8.0	0.400	0.350	180	90	Standard	B7/Vinyl/Wood Fixed Low
24 Wind Back (S)	24.0	0.400	0.350	180	90	Standard	B8/Vinyl/Wood Operable L
25 Wind Back (S)	24.0	0.400	0.350	180	90	Standard	B9/Vinyl/Wood Operable L
26 Wind Back (S)	24.0	0.400	0.350	180	90	Standard	B10/Vinyl/Wood Operable
27 Wind Back (S)	24.0	0.400	0.350	180	90	Standard	B11/Vinyl/Wood Fixed Low
28 Wind Back (S)	24.0	0.400	0.350	180	90	Standard	B12/Vinyl/Wood Fixed Low
29 Wind Back (S)	24.0	0.400	0.350	180	90	Standard	B13/Vinyl/Wood Fixed Low
30 Wind Back (S)	8.0	0.400	0.350	180	90	Standard	B14/Vinyl/Wood Operable
31 Wind Back (S)	20.0	0.400	0.350	180	90	Standard	B15/Vinyl/Wood Operable
32 Wind Back (S)	20.0	0.400	0.350	180	90	Standard	B16/Vinyl/Wood Operable
33 Wind Right (W)	30.0	0.400	0.350	270	90	Standard	R1/Vinyl/Wood Operable L
34 Wind Right (W)	8.0	0.400	0.350	270	90	Standard	R2/Vinyl/Wood Operable L
35 Door Right (W)	48.0	0.400	0.350	270	90	Standard	R3/Vinyl/Wood Patio Door
36 Wind Right (W)	12.0	0.400	0.350	270	90	Standard	R4/Vinyl/Wood Fixed Low
37 Wind Right (W)	24.0	0.400	0.350	270	90	Standard	R5/Vinyl/Wood Operable L
38 Wind Right (W)	8.0	0.400	0.350	270	90	Standard	R6/Vinyl/Wood Fixed Low
39 Wind Front (NE)	18.0	0.400	0.350	45	90	Standard	C1/Vinyl/Wood Operable L
40 Door Front (NE)	40.0	0.400	0.350	45	90	Standard	C2/Vinyl/Wood Patio Door
41 Wind Front (NE)	24.0	0.400	0.350	45	90	Standard	C3/Vinyl/Wood Operable L

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OVERHANGS

Surface	Area (sf)	Window Width	Window Height	Overhang Depth	Overhang Height	Left Extension	Right Extension
1 Window	13.5	3.0	4.5	1.5	2.0	n/a	n/a
2 Window	13.5	3.0	4.5	1.5	2.0	n/a	n/a
3 Window	30.0	5.0	6.0	2.5	10.0	n/a	n/a
4 Window	2.3	1.5	1.5	1.5	13.0	n/a	n/a
5 Window	2.3	1.5	1.5	1.5	13.0	n/a	n/a
6 Window	2.3	1.5	1.5	1.5	13.0	n/a	n/a
7 Window	30.0	5.0	6.0	2.5	10.0	n/a	n/a
8 Window	4.0	2.0	2.0	1.5	2.0	n/a	n/a
9 Window	4.0	2.0	2.0	1.5	2.0	n/a	n/a
10 Window	4.0	2.0	2.0	1.5	2.0	n/a	n/a
11 Window	4.0	2.0	2.0	1.5	2.0	n/a	n/a
12 Window	4.0	2.0	2.0	1.5	2.0	n/a	n/a
13 Window	8.0	2.0	8.0	1.5	2.0	n/a	n/a
14 Window	4.0	2.0	2.0	1.5	2.0	n/a	n/a
15 Door	48.0	6.0	8.0	25.0	4.0	n/a	n/a
16 Window	20.0	4.0	5.0	25.0	4.0	n/a	n/a
17 Window	4.0	2.0	2.0	1.5	2.0	n/a	n/a
18 Window	24.0	4.0	6.0	1.5	4.0	n/a	n/a
19 Window	24.0	4.0	6.0	1.5	4.5	n/a	n/a
20 Window	24.0	4.0	6.0	1.5	4.0	n/a	n/a
21 Window	8.0	4.0	2.0	1.5	2.0	n/a	n/a
22 Window	8.0	4.0	2.0	1.5	2.5	n/a	n/a
23 Window	8.0	4.0	2.0	1.5	2.0	n/a	n/a
24 Window	24.0	4.0	6.0	1.5	4.0	n/a	n/a
25 Window	24.0	4.0	6.0	1.5	4.0	n/a	n/a
26 Window	24.0	4.0	2.0	1.5	2.5	n/a	n/a
27 Window	24.0	4.0	3.0	1.5	2.5	n/a	n/a
28 Window	24.0	4.0	2.0	1.5	2.5	n/a	n/a
29 Window	24.0	4.0	6.0	1.5	4.0	n/a	n/a
30 Window	8.0	2.0	4.0	1.5	13.0	n/a	n/a
31 Window	20.0	4.0	5.0	1.5	2.0	n/a	n/a
32 Window	20.0	4.0	5.0	1.5	2.0	n/a	n/a
33 Window	30.0	6.0	5.0	1.5	2.0	n/a	n/a
34 Window	8.0	4.0	2.0	1.5	2.0	n/a	n/a
35 Door	48.0	6.0	8.0	25.0	4.0	n/a	n/a
36 Window	12.0	6.0	2.0	25.0	4.0	n/a	n/a
37 Window	24.0	4.0	6.0	25.0	4.0	n/a	n/a
38 Window	8.0	4.0	2.0	25.0	4.0	n/a	n/a
39 Window	18.0	4.0	4.5	13.0	2.0	n/a	n/a
40 Door	40.0	5.0	8.0	13.0	2.0	n/a	n/a
41 Window	24.0	4.0	6.0	13.0	2.0	n/a	n/a

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HVAC SYSTEMS

System Type	Number of Systems	Minimum Efficiency	Verified EER	Verified Refrig Charge or TXV	Verified Adequate Airflow	Verified Fan Watt Draw	Verified Maximum Cooling Capacity
Furnace	1	0.900 AFUE	n/a	n/a	n/a	n/a	n/a
ACSplit	1	14.00 SEER	No	No	No	No	No

HVAC SIZING

System Type	Total Heating Load (Btu/hr)	Sensible Cooling Load (Btu/hr)	Design Cooling Capacity (Btu/hr)	Verified Maximum Cooling Capacity (Btu/hr)
Furnace	71481	n/a	n/a	n/a
ACSplit	n/a	39992	47958	n/a

Sizing Location..... ORANGEVALE
Winter Outside Design..... 24 F
Winter Inside Design..... 70 F
Summer Outside Design..... 100 F
Summer Inside Design..... 75 F
Summer Range..... 36 F

DUCT SYSTEMS

System Type	Duct Location	Duct R-value	Verified Duct Leakage	Verified Surface Area	Verified Buried Ducts
Furnace	Attic	R-4.2	No	No	No
ACSplit	Attic	R-4.2	No	No	No

WATER HEATING SYSTEMS

Tank Type	Heater Type	Distribution Type	Number in System	Energy Factor	Tank Size (gal)	External Insulation R-value
1 Storage	Gas	Standard	1	0.60	50	R- n/a

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REMARKS

_____

_____

_____

COMPLIANCE STATEMENT

This certificate of compliance lists the building features and performance specifications needed to comply with Title-24, Parts 1 and 6 of the California Code of Regulations, and the administrative regulations to implement them. This certificate has been signed by the individual with overall design responsibility.

DESIGNER or OWNER	DOCUMENTATION AUTHOR
Name.... Kathleen Taylor	Name.... Kathleen Taylor
Company. Taylor Design&Drafting Se	Company. Taylor Design & Drafting
Address. P.O.Box 905	Address. P.O. Box 905
Rocklin, CA 95677.	Rocklin, CA 95677
Phone... (916)624-1649	Phone... 916-624-1649
License. #000469	
Signed.. _____ (date)	Signed.. _____ (date)

ENFORCEMENT AGENCY

Name.... _____
Title... _____
Agency.. _____
_____
Phone... _____

Signed.. _____
(date)

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Note: Lowrise residential buildings subject to the Standards must contain these measures regardless of the compliance approach used. More stringent compliance requirements from the Certificate of Compliance supersede the items marked with an asterisk (*). When this checklist is incorporated into the permit documents, the features noted shall be considered by all parties as minimum component performance specifications for the mandatory measures whether they are shown elsewhere in the documents or on this checklist only.

BUILDING ENVELOPE MEASURES	n/a	De-signer	En-force-ment
*150(a): Minimum R-19 insulation in wood framed ceiling or equivalent U-factor in metal frame ceiling	____	____	____
150(b): Loose fill insulation manufacturer's labeled R-Value	____	____	____
*150(c): Minimum R-13 wall insulation in wood framed walls or equivalent U-factor in metal frame walls (does not apply to exterior mass walls)	____	____	____
*150(d): Minimum R-13 raised floor insulation in framed floors or equivalent U-factor	____	____	____
150(e): Installation of Fireplaces, Decorative Gas Appliances and Gas Logs			
1. Masonry and factory-built fireplaces have:			
a. Closeable metal or glass door covering the entire opening of the firebox	____	____	____
b. Outside air intake with damper and control, flue damper and control	____	____	____
2. No continuous burning gas pilot lights allowed	____	____	____
150(f): Air retarding wrap installed to comply with Sec. 151 meets requirements specified in ACM Residential Manual	____	____	____
150(g): Vapor barriers mandatory in Climate Zones 14,16 only	____	____	____
150(l): Slab edge insulation - water absorption rate for the insulation material without facings no greater than 0.3%, water vapor permeance rate no greater than 2.0 perm/inch	____	____	____
118: Insulation specified or installed meets insulation quality standards. Indicate type and include CF-6R form	____	____	____
116-17: Fenestration Products, Exterior Doors and Infiltration/ Exfiltration Controls			
1. Doors and windows between conditioned and unconditioned spaces designed to limit air leakage	____	____	____
2. Fenestration products (except field-fabricated) have			

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	n/a	Design-er	Enforcement
label with certified U-factor, certified Solar Heat Gain Coefficient (SHGC), and infiltration certification	____	____	____
3. Exterior doors and windows weatherstripped; all joints and penetrations caulked and sealed	____	____	____
SPACE CONDITIONING, WATER HEATING AND PLUMBING SYSTEM MEASURES			
110-113: HVAC equipment, water heaters, showerheads and faucets certified by the Energy Commission	____	____	____
150(h): Heating and/or cooling loads calculated in accordance with ASHRAE, SMACNA or ACCA	____	____	____
150(i): Setback thermostat on all applicable heating and/or cooling systems	____	____	____
150(j): Water system pipe and tank insulation and cooling systems line insulation			
1. Storage gas water heaters rated with an Energy Factor less than 0.58 must be externally wrapped with insulation having an installed thermal resistance of R12 or greater	____	____	____
2. Back-up tanks for solar system, unfired storage tanks, or other indirect hot water tanks have R-12 external insulation or R-16 internal and indicated on the exterior of the tank showing the R-value	____	____	____
3. The following piping is insulated according to Table 150-A/B or Equation 150-A Insulation Thickness:			
1. First 5 feet of hot and cold water pipes closest to water heater tank, non-recirculating systems, and entire length of recirculating sections of hot water pipes shall be insulated to Table 150B	____	____	____
2. Cooling system piping (suction, chilled water, or brine lines), piping insulated between heating source and indirect hot water tank shall be insulated to Table 150-B and Equation 150-A	____	____	____
4. Steam hydronic heating systems or hot water systems >15 psi, meet requirements of Table 123-A	____	____	____
5. Insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance and wind	____	____	____
6. Insulation for chilled water piping and refrigerant suction piping includes a vapor retardant or is enclosed entirely in conditioned space	____	____	____
7. Solar water-heating systems/collectors are certified by the Solar Rating and Certification Corporation	____	____	____
*150(m): Ducts and Fans			
1. All ducts and plenums installed, sealed and insulated to meet the requirements of the CMC Sections 601, 602, 603, 604, 605 and Standard 6-5; supply-air and return-air ducts and plenums are insulated to a minimum installed level of R-4.2 or enclosed entirely in conditioned space. Openings shall be sealed with mastic, tape, or other duct-closure system that meets the applicable requirements of UL 181,			

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UL 181A, or UL 181B or aerosol sealant that meets the requirements of UL 723. If mastic or tape is used to seal openings greater than 1/4 inch, the combination of mastic and either mesh or tape shall be used	____	____	____
2. Building cavities, support platforms for air handlers, and plenums defined or constructed with materials other than sealed sheet metal, duct board or flexible duct shall not be used for conveying conditioned air. Building cavities and support platforms may contain ducts. Ducts installed in cavities and support platforms shall not be compressed to cause reductions in the cross-sectional area of the ducts	____	____	____
3. Joints and seams of duct systems and their components shall not be sealed with cloth backed rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands	____	____	____
4. Exhaust fan systems have back draft or automatic dampers	____	____	____
5. Gravity ventilating systems serving conditioned space have either automatic or readily accessible, manually operated dampers	____	____	____
6. Protection of Insulation. Insulation shall be protected from damage due to sunlight, moisture, equipment maintenance and wind. Cellular foam insulation shall be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation that can cause degradation of the material	____	____	____
7. Flexible ducts cannot have porous inner cores	____	____	____
114: Pool and Spa Heating Systems and Equipment			
1. A thermal efficiency that complies with the Appliance Efficiency Regulations, on-off switch mounted outside of the heater, weatherproof operating instructions, no electric resistance heating and no pilot light	____	____	____
2. System is installed with:			
a. At least 36 inches of pipe between filter and heater for future solar heating			
b. Cover for outdoor pools or outdoor spas.	____	____	____
3. Pool system has directional inlets and a circulation pump time switch	____	____	____
115: Gas-fired central furnaces, pool heaters, spa heaters or household cooking appliances have no continuously burning pilot light (Exception: Non-electrical cooking appliances with pilot < 150 Btu/hr)	____	____	____
118(i): Cool Roof material meets specified criteria	____	____	____

RESIDENTIAL LIGHTING MEASURES	n/a	De-sign-er	En-force-ment
150(k)1: HIGH EFFICACY LUMINAIRES OTHER THAN OUTDOOR HID: contain only high efficacy lamps as outlined in Table 150-C, and do not contain a medium screw base socket (E24/E26). Ballast for lamps 13 watts or greater are electronic and have an output frequency no less than 20 kHz	____	____	____

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150(k)1: HIGH EFFICACY LUMINAIRES - OUTDOOR HID: contain only high efficacy lamps as outlined in Table 150-C, luminaire has factory installed HID ballast	____	____	____
150(k)2: Permanently installed luminaires in kitchens shall be high efficacy luminaires. Up to 50 percent of the wattage, as determined in Sec. 130(c), of permanently installed luminaires in kitchens may be in luminaires that are not high efficacy luminaires, provided that these luminaires are controlled by switches separate from those controlling the high efficacy luminaires	____	____	____
150(k)3: Permanently installed luminaires in bathrooms, garages, laundry rooms, utility rooms shall be high efficacy luminaires OR are controlled by an occupant sensor(s) certified to comply with Section 119(d) that does not turn on automatically or have an always on option	____	____	____
150(k)4: Permanently installed luminaires located other than in kitchens, bathrooms, garages, laundry rooms, and utility rooms shall be high efficacy luminaires (except closets less than 70 ft2), OR are controlled by a dimmer switch OR are controlled by an occupant sensor(s) that complies with Section 119(d) that does not turn on automatically or have an always on option	____	____	____
150(k)5: Luminaires that are recessed into insulated ceilings are approved for zero clearance insulation cover (IC) and are certified air tight to ASTM E283 and labeled as air tight (AT) to less than 2.0 CFM at 75 Pascals	____	____	____
150(k)6: Luminaires providing outdoor lighting and permanently mounted to a residential building or to other buildings on the same lot shall be high efficacy luminaires (not in-cluding lighting around swimming pools/water features or other Article 680 locations) OR are controlled by occupant sensors with integral photo control certified to comply with Section 119(d)	____	____	____
150(k)7: Lighting for parking lots for 8 or more vehicles shall have lighting that complies with Sec. 130, 132, and 147. Lighting for parking garages for 8 or more vehicles shall have lighting that complies with Sec. 130, 131, and 146	____	____	____
150(k)8: Permanently installed lighting in the enclosed, non-dwelling spaces of low-rise residential buildings with four or more dwelling units shall be high efficacy luminaires OR are controlled by an occupant sensor(s) certified to comply with Section 119(d)	____	____	____

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Compliance Method..... MICROPAS7 v7.20 for 2005 Standards by Enercomp, Inc.

| Building Permit # |
| Plan Check / Date |
| Field Check/ Date |

MICROPAS7 v7.20 File-Name Wth-CTZ12S05 Program-HVAC SIZING
User#-MP2078 User-Taylor Design & Drafting Run-Sample

GENERAL INFORMATION

Floor Area..... 3109 sf
Volume..... 31960 cf
Front Orientation..... Front Facing 0 deg (N)
Sizing Location..... ORANGEVALE
Latitude..... 38.7 degrees
Winter Outside Design..... 24 F
Winter Inside Design..... 70 F
Summer Outside Design..... 100 F
Summer Inside Design..... 75 F
Summer Range..... 36 F
Interior Shading Used..... Yes
Exterior Shading Used..... Yes
Overhang Shading Used..... Yes
Latent Load Fraction..... 0.19

HEATING AND COOLING LOAD SUMMARY

Description	Heating (Btu/hr)	Cooling (Btu/hr)
Opaque Conduction and Solar.....	30281	9229
Glazing Conduction and Solar.....	12839	15537
Infiltration.....	13764	4624
Internal Gain.....	n/a	2060
Ducts.....	14596	8542
Sensible Load.....	71481	39992
Latent Load.....	n/a	7966
Minimum Total Load	71481	47958

Note: The loads shown are only one of the criteria affecting the selection of HVAC equipment. Other relevant design factors such as air flow requirements, outside air, outdoor design temperatures, coil sizing, availability of equipment, oversizing safety margin, etc., must also be considered. It is the HVAC designer's responsibility to consider all factors when selecting the HVAC equipment.