

Project Title..... Sample Run Date..12/14/10 21:16:30
 Project Address..... Address *****
 City *v8.1*
 Documentation Author... Sample Author *****
 Enercomp, Inc.
 1721 Arroyo Drive
 Auburn, CA 95603
 800-755-5908
 Climate Zone..... 10
 Compliance Method..... MICROPAS8 v8.1 for 2008 CEC Standards (r03)

Building Permit #
Plan Check / Date
Field Check/ Date

MICROPAS8 v8.1 File-SAMPLE Wth-CTZ10S08
 User#-MP0101 User-Enercomp, Inc. Run-2700ft2 Standard CZ12

MICROPAS8 ENERGY USE SUMMARY

Energy Use (kTDV/sf-yr)	Standard Design	Proposed Design	Compliance Margin	Percent Improvement
Space Heating.....	10.74	8.25	2.49	23.2%
Space Cooling.....	27.21	16.80	10.41	38.3%
Ventilation Fans.....	0.64	0.64	0.00	0.0%
Water Heating.....	14.02	10.67	3.35	23.9%
Total	52.61	36.36	16.25	30.9%

*** Building complies with Computer Performance ***
 *** HERS Verification Required for Compliance ***

GENERAL INFORMATION

HERS Verification..... Required
 Conditioned Floor Area..... 2700 sf
 Building Type..... Single Family Detached
 Construction Type New
 Natural Gas at Site Yes
 Building Front Orientation. Front Facing 0 deg (N)
 Number of Dwelling Units... 1
 Number of Building Stories. 2
 Weather Data Type..... FullYear

 Floor Construction Type.... Slab On Grade
 Number of Building Zones... 1
 Conditioned Volume..... 25750 cf
 Slab-On-Grade Area..... 1250 sf
 Glazing Percentage..... 17.3 % of floor area
 Average Glazing U-factor... 0.32 Btu/hr-sf-F
 Average Glazing SHGC..... 0.25
 Average Ceiling Height..... 9.5 ft

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BUILDING ZONE INFORMATION

Zone Type	Floor Area (sf)	Volume (cf)	# of Dwell Units	# of People	Cond- it- ioned	Thermo- stat Type	Vent Height (ft)	Vent Area (sf)	Verified Leakage or Housewrap
Residence	2700	25750	1.00	4.0	Yes	Setback	8.0	Standard	No

ATTIC AND ROOF DETAILS

Roof Type	Roof Mass (lb/sqft)	Roof Rise	Re- flect- ance	Emiss- ivity	Frame Depth (in.)	Frame Spac- ing (in.)	R- Value Above Deck	R- Value Below Deck	Vent Area Ratio	Vent High
Asphalt	Light	5:12	0.20	0.85	3.5	24 oc	0.00	0.00	1/150	0.30

OPAQUE SURFACES

Surface	Frame Type	Area (sf)	U- fact- or	Cavity R-val	Sheath- ing R-val	Act Azm	Tilt	Solar Gains	Appendix JA4 Reference	Location/ Comments
1 Wall	Wood	501	0.072	13	4	0	90	Yes	4.3.1 C3	
2 Wall	Wood	541	0.072	13	4	90	90	Yes	4.3.1 C3	
3 Wall	Wood	541	0.072	13	4	180	90	Yes	4.3.1 C3	
4 Wall	Wood	541	0.072	13	4	270	90	Yes	4.3.1 C3	
5 AtticRad	Wood	1450	0.026	38	0	n/a	0	Yes	4.2.1 A9	
6 Door	Wood	40	0.500	0	0	0	90	Yes	4.5.1 A4	
7 FloorExt	Wood	200	0.048	19	0	n/a	0	No	4.4.2 A4	

PERIMETER LOSSES

Surface	Length (ft)	F2 Factor	Insul R-val	Solar Gains	Appendix JA4 Reference	Location/ Comments
8 SlabEdge	158	0.730	R-0/0in	No	4.4.7 A1	Standard Slab Edge

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FENESTRATION SURFACES

Orientation	Area (sf)	U-factor	Act SHGC	Act Azm	Act Tilt	Exterior Shade Type	Location/Comments
1 Wind Front (N)	117.0	0.320	0.250	0	90	Standard	F1/Standard Hot Climate
2 Wind Left (E)	117.0	0.320	0.250	90	90	Standard	L1/Standard Hot Climate
3 Wind Back (S)	117.0	0.320	0.250	180	90	Standard	B1/Standard Hot Climate
4 Wind Right (W)	117.0	0.320	0.250	270	90	Standard	R1/Standard Hot Climate

SLAB SURFACES

Slab Type	Area (sf)
Standard Slab	1250

HVAC SYSTEMS

System Type	Minimum Efficiency	Verified EER	Verified Refrig or CID	Verified Charge	Verified Adequate Airflow	Verified Fan Watt Draw	Verified Maximum Cooling Capacity
Furnace	0.900 AFUE	n/a	n/a	n/a	n/a	n/a	n/a
ACSplit	13.00 SEER	No	Yes	Yes	Yes	Yes	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	36651	n/a	n/a	n/a
ACSplit	n/a	25318	30458	n/a

Sizing Location..... RIVERSIDE EXP STA
 Winter Outside Design..... 29 F
 Winter Inside Design..... 70 F
 Summer Outside Design..... 101 F
 Summer Inside Design..... 75 F
 Summer Range..... 36 F

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DUCT SYSTEMS

System Type	Duct Location	Duct R-value	Verified Duct Leakage	Verified Surface Area	Verified Buried Ducts
Furnace	Attic	R-6	Yes	No	No
ACSplit	Attic	R-6	Yes	No	No

FAN SYSTEMS

System Type	Flow (cfm)	Power (W/cfm)
Standard	57	.25

WATER HEATING SYSTEMS

Tank Type	Heater Type	Distribution Type	Number in System	Energy Factor	Tank Size (gal)	External Insulation R-value
1 SmallTankless	Gas	Standard	1	0.80	n/a	R-n/a

SPECIAL FEATURES AND MODELING ASSUMPTIONS

*** Items in this section should be documented on the plans, ***
 *** installed to manufacturer and CEC specifications, and ***
 *** verified during plan check and field inspection. ***

This building incorporates a Radiant Barrier.

This building incorporates a Cool Roof.

This building incorporates a non-standard Water Heating System.

HERS REQUIRED VERIFICATION

*** Items in this section require field testing and/or ***
 *** verification by a certified home energy rater under ***
 *** the supervision of a CEC-approved HERS provider using ***
 *** CEC approved testing and/or verification methods and ***
 *** must be reported on the CF-4R installation certificate. ***

This building incorporates a HERS verified Improved Refrigerant Charge test or the installation of a HERS verified Charge Indicator Display (CID). If a cooling system is not installed, then HERS verification is not necessary.

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HERS REQUIRED VERIFICATION

This building incorporates HERS verified Air Handler Fan Watt Draw. If a cooling system is not installed, then HERS verification is not necessary.

This building incorporates HERS verified Cooling Coil Airflow. If a cooling system is not installed, then HERS verification is not necessary.

This building incorporates HERS verified Duct Leakage. Target leakage is calculated and documented on the CF-4R. If the measured CFM is above the target, then corrective action must be taken to reduce the duct leakage and then must be retested. Alternatively, the compliance calculations could be redone without duct testing. If ducts are not installed, then HERS verification is not necessary.

REMARKS
