

Tax Credit Auto-Gen Test Results:  
(see RESNET Publication 001-16)

Software Name: EnergyGauge USA 6.0

User input data fields indicated by pale yellow

Reference Home Building Component	Test 1	Results	Test 2	Results	Test 3	Results	Test 4	Results
Above-grade walls ( $U_o$ )	0.082	0.082	0.082	0.082	0.082	0.082	0.06	0.06
Above-grade wall solar absorptance ( $\alpha$ )	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Above-grade wall infrared emittance ( $\epsilon$ )	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Basement walls ( $U_o$ )	n/a	n/a	n/a	n/a	n/a	n/a	0.059	0.059
Above-grade floors ( $U_o$ )	0.047	0.047	0.047	0.047	n/a	n/a	n/a	n/a
Slab insulation R-Value	n/a	n/a	n/a	n/a	0	0	0	0
Ceilings ( $U_o$ )	0.03	0.03	0.035	0.035	0.035	0.035	0.03	0.03
Roof solar absorptance ( $\alpha$ )	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Roof infrared emittance ( $\epsilon$ )	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Attic vent area* ( $\text{ft}^2$ )	5.13	5.13	5.13	5.13	5.13	5.13	5.13	5.13
Crawlspace vent area* ( $\text{ft}^2$ )	n/a	n/a	10.26	10.26	n/a	n/a	n/a	n/a
Exposed masonry floor area* ( $\text{ft}^2$ )	n/a	n/a	n/a	n/a	307.8	307.8	307.8	307.8
Carpet & pad R-Value	n/a	n/a	n/a	n/a	2	2	2	2
Door Area ( $\text{ft}^2$ )	40	40	40	40	40	40	40	40
Door U-Factor	0.4	0.4	0.65	0.65	1.2	1.2	0.35	0.35
North window area* ( $\text{ft}^2$ )	67.50	67.50	67.50	67.50	67.50	67.50	50.02	50.02
South window area* ( $\text{ft}^2$ )	67.50	67.50	67.50	67.50	67.50	67.50	50.02	50.02
East window area* ( $\text{ft}^2$ )	67.50	67.50	67.50	67.50	67.50	67.50	50.02	50.02
West window area* ( $\text{ft}^2$ )	67.50	67.50	67.50	67.50	67.50	67.50	50.02	50.02
Window U-Factor	0.40	0.40	0.65	0.65	1.20	1.20	0.35	0.35
Window SHGC <sub>o</sub> (heating)	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
Window SHGC <sub>o</sub> (cooling)	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
SLA <sub>o</sub> * ( $\text{ft}^2/\text{ft}^2$ )	0.00036	0.00036	0.00036	0.00036	0.00036	0.00036	0.00036	0.00036
Sensible Internal gains* (Btu/day)	55,470	55,481	52,794	52,801	48,111	48,117	83,103	83,116
Latent Internal gains* (Btu/day)	13,807	13,809	12,698	12,701	9,259	9,263	17,934	17,937
Labeled heating system rating and efficiency	AFUE = 78%	78%	HSPF = 7.7	7.7	HSPF = 7.7	7.7	AFUE = 78%	78
Labeled cooling system rating and efficiency	SEER = 13	13	SEER = 13	13	SEER = 13	13	SEER = 13	13
Air Distribution System Efficiency	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Thermostat Type	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual
Heating thermostat settings	68 F (all hours)	68	68 F (all hours)	68	68 F (all hours)	68	68 F (all hours)	68
Cooling thermostat settings	78 F (all hours)	78	78 F (all hours)	78	78 F (all hours)	78	78 F (all hours)	78
e-Ratio		1.000		0.998		0.998		1.000