

2006 IECC OVERALL BUILDING UA COMPLIANCE

Date:	October 08, 2007	Rating No.:	XYZ-22233
Building Name:		Rating Org.:	L.A. Raters
Owner's Name:	I.M. Smith	Phone No.:	303 222 1111
Property:	2342 Maybee Ave.	Rater's Name:	H.I. Scorer
Address:	Denver, CO 80333	Rater's No.:	303 333 2222
Builder's Name:	WeeBeeGood Builders	Rating Type:	Based on plans
Weather Site:	Denver, CO	Rating Date:	4/12/07
File Name:	HighEfficiency.blg		

The UA compliance compares the overall UA-value of the building described in REM/Rate™ to the overall UA-value for an identical home insulated to meet the minimum component performance requirements of the IECC 2006.

Elements

	Insulation Levels	
	2006 IECC	As Designed
Shell UA Check		
Ceilings:	33.0	22.1
Above-Grade Walls:	312.7	189.3
Windows and Doors:	84.0	79.5
Floors Over Uncond Crawl Space:	49.5	67.5
Overall UA (Design must be lower):	479.2	358.3
Window U-Value Check (per Section 402.6)		
Window U-Value (Design must be lower):	0.480	0.360

Insulation levels for the standard IECC home, and the REM "as designed" home are compared here.

This home MEETS the overall thermal performance requirements of the International Energy Conservation Code based on a climate zone of 5B. (Section 402, International Energy Conservation Code, 2006 edition.)

Building Elements	Type	U-Value	Area
Ceilings			
Roof	R-50 Blown, Attic	0.020	1100.0
Above-Grade Walls			
Wall	R-22, R-10 Cont.	0.036	821.3
Wall	R-22, R-10 Cont.	0.036	1061.3
Wall	R-22, R-10 Cont.	0.036	1061.3
Wall	R-22, R-10 Cont.	0.036	1061.3
Wall	R-22, R-10 Cont.	0.036	1061.3
Joist	Rim, Cond	0.044	145.0
Windows and Doors			
Window	Triple - Vinyl	0.360	55.0
Window	Triple - Vinyl	0.360	25.0
Window	Triple - Vinyl	0.360	65.0
Window	Triple - Vinyl	0.360	55.0
Door	Steel-urth w/brk	0.187	40.0
Floors Over Uncond. Crawl Space			
Floor	R-30	0.045	1500.0

2006 IECC ANNUAL ENERGY COST COMPLIANCE

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Weather Site:	Denver, CO	Rating Type:	Based on plans
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The 2006 IECC Performance Compliance report compares the total annual heating and cooling energy for the building design to a prescriptive version of the same building.

	Annual Energy Cost	
	2006 IECC	As Designed
Heating:	613	49
Cooling:	110	101
Water Heating:	125	0
Lights & Appliances:	813	806
Photovoltaics:	-0	-124
Service Charge:	120	120
Total:	1780	952 *
Window U-Value Check (per Section 402.6)		
Window U-Value (Design must be lower):	0.480	0.360

The annual energy cost for the standard IECC home, and the REM "As Designed" home are compared here.

This home MEETS the annual energy cost requirements in accordance with Section 404 of the 2006 International Energy Conservation Code based on a climate zone of 5B. In fact, this home surpasses the requirements by 46.5%.

* Design energy cost is based on the following systems:
 Heating: Fuel-fired air distribution, 32.0 kBtuh, 92.0 AFUE.
 Cooling: Air conditioner, 36.0 kBtuh, 14.0 SEER.
 Water Heating: Instant water heater, Gas, 0.80 EF.
 Window-to-Wall Area Ratio: 0.04
 Blower door test: Htg: 0.05 Clg: 0.05 ACHnat

In accordance with IECC, building inputs, such as setpoints, infiltration rates, and window shading may have been changed prior to calculating annual energy cost. Furthermore, the standard reference design HVAC system efficiencies are set to the "prevailing federal minimum standards" as of January, 2006. These standards are subject to change, and software updates should be obtained periodically to ensure the compliance calculations reflect current federal minimum standards.