

Iowa 2012 Performance Compliance

**Property**

250 Howard Ave NW
Swisher, IA 52338

Ralston Eco Home Passive House
As-Designed

Organization

Heartland Energy Consultan
Michael Boerst
651-666-0428

Builder

Todd Richardson
Construction

Inspection Status

Results are projected










This report is based on a proposed design and does not confirm field enforcement of design elements.

Annual Energy Cost

Design	Iowa 2012 Performance	As Designed
Heating	\$1,717	\$430
Cooling	\$54	\$83
Water Heating	\$105	\$102
SubTotal - Used to determine compliance	\$1,875	\$615
Lights & Appliances	\$636	\$690
Onsite generation	\$0	\$0
Total	\$2,511	\$1,306

Source Energy Exception: The proposed home uses 136 MBtu LESS source energy than the reference home.

Requirements

	R405.3	Performance-based compliance passes by 67.2%	The proposed house meets the Iowa 2012 Performance reference energy bill requirement by \$1259.98 (136.0 MBtu), but a post construction blower door test is required for confirmation.
	R402.4.1.2	Air Leakage Testing	A post construction blower door test is required to verify the air leakage meets the requirement.
	R402.5	Area-weighted average fenestration SHGC	Area-weighted average fenestration SHGC is 0.4. The maximum allowed value is [No Limit].
	R402.5	Area-weighted average fenestration U-Factor	
	R403.2.2	Duct Testing	
	R404.1	Lighting Equipment	
	R403.5.1	Mechanical Ventilation Efficacy	
	Mandatory Checklist	Mandatory code requirements that are not checked by Ekotrope must be met.	2012 IECC Mandatory Checklist must be checked as complete.
	R405.2	Duct Insulation	All ducts outside the thermal envelope must be insulated to at least R6.0.

Design exceeds requirements for Iowa 2012 Performance compliance by 67.2%.

As a 3rd party extension of the code jurisdiction utilizing these reports, I certify that this energy code compliance document has been created in accordance with the requirements of Chapter 4 of the adopted International Energy Conservation Code based on JOHNSON County. If rating is Projected, I certify that the building design described herein is consistent with the building plans, specifications, and other calculations submitted with the permit application. If rating is Confirmed, I certify that the address referenced above has been inspected/tested and that the mandatory provisions of the IECC have been installed to meet or exceed the intent of the IECC or will be verified as such by another party.

Name: Michael Boerst
Organization: Heartland Energy Consultants LLC

Signature: Michael Boerst
Digitally signed: 11/12/25 at 10:51 AM

Ekotrope RATER - Version 5.0.0.3747

Iowa 2012 Performance compliance results calculated using Ekotrope RATER's energy and code compliance algorithm, including appropriate amendments.
Ekotrope RATER is a RESNET Accredited HERS Rating Tool. All results are based on data entered by Ekotrope users.
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