



Final Testing and Completion Report (SV3)

Site Walk Date: 2014-12-22

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Building Code MN Code
File Number #43254
Site Walk Date 2014-12-22

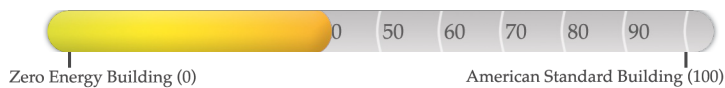


Home	Builder	Model
801 3rd St SE	Habitat for Humanity - Rochester Area	Production
Kasson, MN 55944	1530 Greenview Drive SW Suite 107 Rochester, MN 55902	Type: Single-family detached Size: 1881 ft ²

ENERGY STAR Requirements NO

Checklists Completed	Checklists Signed	Meets Testing Standards
No	No	Yes

HERS Index 45



RESNET Ratings provide a relative energy use index called the HERS Index, which represents the home's energy usage as a percentage of the energy usage of the "American Standard Building."

Beats 2006 IECC standard by 66.27%

0
TBC Failures need correcting

2
Issues could use improvement

0
Exceptional building practices identified

Insulation Features	
Worst Insulation Grade	III/NR
Rim	Grade: I
Ceiling Flat	R = 50.0 (Grade I)
Vaulted Ceiling	n/a
Above Grade Walls	R = 24.0 (Grade I)
Foundation Walls	R = 23.0 (Grade I)
Framed Floors	n/a
Slab	R = 23.0 Edge, 23.0 Under (Grade III/NR)
Duct	Uninsulated
Window	U = 0.270, SHGC = 0.290

Blower Door Test Results	
Tested CFM50	477
CFM50 / ft ² surface area	0.11
CFM50 / ft ² floor area	0.25
ACH50	1.72

Ventilation Flow Test Results	
Target Flow (CFM)	Unknown
Actual Flow (CFM)	100
Rated Flow (CFM)	0.0
Duct Leakage to Outside	122

	Heat	Cooling	Hot Water	Ventilation	Thermostat
Efficiency	96.5 (AFUE)	(SEER)	0.67		
Brand / Make	Carrier	Not Installed	Rheem	Venmar	Pro1
Model	59TP5A040E141110	NA	PROG40-40N RH67 PV	Venmar	Pro1
Size	39.0 BTU	BTU	40 Gal		



Opportunities for Quality Improvement

Items and pictures listed in this section do not require corrective action. These items are opportunities for additional improvement.

1

Air leakage pathways

Unintentional air leakage pathways can result in unconditioned air moving through enclosed building cavities leading to reduced insulation effective R-value, building durability, uneven interior surface temperatures, structural air leakage, occupant discomfort, and high utility costs. Apply solid drafts top or foam/caulk gaps and penetrations to seal potential pathways at the framing stage.



Figure 1.1



Figure 1.2

2

Attic hatch leakage

Leakage at the attic access can lead to durability issues, uneven interior surface temperatures, occupant discomfort, and high utility costs. Install an insulated hatch that is fully gasketed or sealed in place.



Figure 2.1



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Confidentiality

XRG Concepts respects the privacy of Habitat for Humanity - Rochester Area and will keep all of this information confidential and not disclose this or any other information without expressed written consent. Thank you for the opportunity to assist you in the construction of your homes.

Sincerely,
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XRG Concepts

XRG Concepts is an independent building performance testing and certification company following RESNET guidelines. RESNET sets the standards of quality for the building energy performance certification industry (Home Energy Rating System -- HERS Rating). The EPA requires homes to meet its strict standards for the ENERGY STAR® certification following RESNET guidelines.