Participant information

Extreme Panel Tech., Inc.
Perry Penske
P.O. Box 435
Cottonwood, MN 56229

Phone: 800-977-2635

Email Address: info@extremepanel.com

Website: extremepanel.com

Category

Affordable Housing

Project information

Parkside Villas
South Main Street & 9th Street
Charles City, IA 50616

Date Completed: late 2013

Total cost of project (exclusive of land): --

Dimensions of building (all floors of multi-story building): ---

Asking price/purchase price (Affordable Housing only): $150,000.00 - maximum

Total sq. ft. of conditioned space: 1,200 sq. ft for single family homes

Built By (if different than applicant)

Andy Houg Construction
Andy Houg
1002 500th Street
Northwood, IA 50459

Phone: 507-383-2052

Panels Manufactured By

Company Name (members only): Extreme Panel Tech., Inc.

Designed By (if different than applicant - SIPA will only recognize members)

William J. Ludwig & Associates, LTD
Matthew D. Floden, Registered Architect
1444 NW 124th Court
Des Moines, IA 50325

Phone: 515-273-1116

Describe the end use of the building: To be sold to people with a limited income

How did SIP construction help you get this job? Due to energy modeling, SIP construction made this whole project possible

SIP wall thickness and core material: 4" Wall Panels for Garage
6" Wall Panels for House

SIP roof thickness and core material: ---

Describe the benefits of using SIPs on this project. Did SIPs help save time, labor, construction costs, or energy? Time and labor savings -- it took one day with four guys to erect the walls using no extra equipment..
Energy modeling allowed them to decrease the size of the heating and cooling units

Describe any innovative design elements or structural engineering involved:

Please list any certifications the project received, such as ENERGY STAR, LEED, National Green Building Standard, or local

green building programs. Only list certifications that are completed:

HERS Index (residential projects):

Blower door test results (ACH50) (residential projects): 006

Energy use intensity in kBtu/ft2 (commercial projects):

Additional Information or Explanation: The community has a pump house with shelter to run geothermal pumps and to provide power for two electric cars the community can rent --

Describe the HVAC system used on the project: Mini-split air source heat pumps. Geo-thermal for heating only.

Describe any other energy-saving materials used in the building envelope other than SIPs. List U-values of windows used and the R-value of any insulation materials: Energy Star Advanced Lighting Package

Please list any energy-efficient products or design features, such as lighting, hot water heating, appliances, passive solar: Air source water heater
Toilets 1.3 GPF or less, showerheads 1.75 GPM or less, kitchen faucets 2.0 GPM or less, bathroom
faucets 1.5 GPM or less

Were any solar panels installed on the project? If so, indicate the size of the system: Geothermal PV Solar Panels - 4KW solar on roof

Please list any sustainable materials or design features not listed in the previous pages, such as recycled materials, low-VOC finishes, landscaping, etc.: Low VOC paints and primers.
No irrigation systems on lawns, except watering tubes for trees.
Rain barrels installed to capture, retain the first 1.25 inches of rain that fall in a 24-hour period.

Any additional comments on the project: Energy -- in IA this winter, they received a $19.00 utility bill for one month.

AIR LEAKAGE TEST RESULTS

Date of Test: 11/20/2013
Technician:

Test File: Charles City
Project Number: 1

Test Performed For: Charles City

Test Results

1. Measured Leakage: **11 sq. in. (199 CFM @ 50 Pa)**

   This leakage area represents the cumulative size of all holes and cracks in the exterior of your house through which unconditioned outside air enters your home and conditioned air escapes.

2. Est. Annual Air Change Rate: **0.06 air changes/hour (3.4 CFM/person) ***

3. Est. Cost of Air Leakage **$ 9 per year (heating and cooling) ***

Additional Information

If some of the house leakage is located in the forced air duct system, both the leakage rate and energy costs will tend to be higher than reported above. Duct leaks result in much greater air leakage because they are subjected to much higher pressures than typical house leaks. Duct leaks can also seriously degrade indoor air quality.

Many factors contribute to indoor air quality including ventilation rates, sources and locations of pollutants, proper operation of combustion appliances and occupant behavior. Additional testing is needed to fully evaluate the air quality in your house.

* The estimated annual air change rate is based on ASHRAE Standard 136-93 and assumes no mechanical ventilation. Actual air change rates and costs may differ from these estimates by a factor of 2 or more.

Parkside Villas
· Green Certified Construction
· Super Energy Efficient
· Geothermal · PV Solar Panels
· Homeowners Association
· Greenspace
$37,500.00
Down Payment Assistance*
· Energy Tax Credits
STEWART
REALTY COMPANY
641.228.1111
STEWARTREALTYSELLS.COM