

Application (Page 1 of 4)

PARTICIPANT INFORMATION

Company Name: Energy Panel Structures
Contact Name: Kevin Zadow
Address: 603 N. Van Gordon Ave
City: Graettinger State: IA Zip: 51342
Phone: (712) 859-3219
Email: Kzadow@epsbuildings.com Website: www.epsbuildings.com

CATEGORY ENTRY (check one category)

- | | |
|---|---|
| <input type="checkbox"/> Single Family Homes (over 3,000 sq. ft.) | <input type="checkbox"/> Commercial/Industrial/Institutional Buildings under 10,000 sq. ft. |
| <input checked="" type="checkbox"/> Single Family Homes (under 3,000 sq. ft.) | <input type="checkbox"/> Commercial/Industrial/Institutional Buildings over 10,000 sq. ft. |
| <input type="checkbox"/> Multifamily | <input type="checkbox"/> Renovations |
| <input type="checkbox"/> Agricultural | <input type="checkbox"/> Affordable Housing |

PROJECT INFORMATION

Project Name: Greystones Scattered Sites
Address: 1033 18th St. + other sites
City: Des Moines State: IA Zip: 50302
Date completed: 12/2012
Total cost of project (exclusive of land): \$190,000
Dimensions of building (all floors of multi-story building):

Asking price/purchase price (Affordable Housing only): \$660/mo.

Total sq. ft. of conditioned space: 2,000 sq. ft.

BUILT BY (if different than applicant)

Company Name: Koester Construction Company
Contact Name: Branton Smith Phone: (515) 986-5500
Address: 6810 Maryland Dr
City: Urbandale State: IA Zip: 50322

PANELS MANUFACTURED BY (members only)

Company Name: Energy Panel Structures

Continued

Application (Page 2 of 4)

DESIGNED BY (if different than applicant – SIPA will only recognize members)

Company Name: _____

Contact Name: _____

Phone: _____

Address: _____

City: _____

State: _____

Zip: _____

Please answer each question with as much detail as possible to help in the judging process.

Attach additional sheets if necessary

Describe the end use of the building:

Low income affordable single family homes, Rent to own for qualifying families only. In order to qualify to live in this housing families must meet some of the following restrictions:

- 1) Applicants must have credit in good standing
- 2) Priority is given to families
- 3) Applicants must make within the income restrictions set in place
- 4) Applicants must go through a home owner class & finish

How did SIP construction help you get this job?

SIP construction allowed us to save money on the HVAC equipment by down sizing to a 1.5 ton furnace & add one fresh air intake in lieu of the original (3). we also were able to cut down on the amount of manually installed insulation by installed the SIP's from the top of foundation to the top of the parapet wall ensuring that the entire envelope was sealed properly. Finally, we were able to better project the amount of savings from Mid American Energy, energy rebate program because the exterior envelope is much tighter than originally designed due to the SIP's.

SIP wall thickness and core material:

6 1/2"

SIP roof thickness and core material:

N/A

Describe the benefits of using SIPs on this project. Did SIPs help save time, labor, construction costs, or energy?

SIP's allowed the framing company to get the homes put up on schedule. Time was saved on the schedule during the insulation & sheetrock. This is because batt. insulation isn't needed to be stuffed in the exterior walls. The sheet rockers were able to lighten the screw pattern & use glue to quicken the installation process & to save money on installation & materials. The cost of energy to run temporary heat through the homes during construction was also much lower than originally projected. Due to the use of SIP's we were able to eliminate a geothermal well & downsize our HVAC equipment.

Describe any innovative design elements or structural engineering involved:

A flat "white" Kevlar roof was used on this project which allowed for lower heat gain through the roof. Also because of the flat roof EPS designed an insulated parapet wall to ensure that a constant unbroken exterior envelope of SIP's was used eliminating the need for a spray foamed or batt. insulated band joist.

Application (Page 3 of 4)

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:

(4) units qualified for Energy Star 2.5, (the 2012 Energy Star home rating) Mid American rebate program
(20) units qualified for Energy Star 2.0 (the 2013 Energy Star home rating) Mid American rebate program

HERS Index (residential projects):

See Attached

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

See Attached

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

See Attached

Describe the HVAC system used on the project:

A geothermal HVAC system - A combination of a conventional furnace heat & cooling system that uses a ground source heat pump to subsidize the energy usage from the conventional furnace system. This allows the furnace system to run without the need or use of emergency heat coils to help in the event that the ground source heat pump shuts down for any reason this is new version of geothermal HVAC allows the cost to be souly for the heat pump & the furnace.

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.

All of the windows used of this project are low "E" Argon Jeld-Win Windows & Doors with a U-Value of .30.
The ceiling is a blown in ceiling insulation with a R value of 40.

Please list any energy-efficient products or design features, such as lighting, hot water heating, appliances, passive solar:

- 1) White Kevlar roofing
- 2) Energy start rated Refrigerator, Dish Washer, Oven, Washer, Dryer, & Microwave
- 3) Water Sense fixtures: toilet, shower head, faucets, (40) gallon water heater, exterior hose bid
- 4) Mid American energy approved light fixture outdoor / indoor CFL bulbs used

Were any solar panels installed on the project? If so, indicate the size of the system:

No solar panels were used on this project

Application (Page 4 of 4)

Please list any sustainable materials or design features not listed above, such as recycled materials, low-VOC finishes, landscaping, etc.:

All lawn seed & plants are native to Iowa & will require less maintenance & water.

Any additional comments on the project:

The electricians & HVAC workers complimented the use of the SIP's, because it has allowed them to move through their rough-in stage much quicker than they have been able to vs. conventional stick framed construction.

CHECKLIST

- ☒ My company is a SIPA member. Panels for this project were manufactured by a SIPA member.
- ☒ I have answered ALL the questions completely
- ☒ I have enclosed the two required electronic images of the completed project meeting the requirements stated in the SIPA Building Excellence Awards guidelines
- ☒ I have indicated the HERS Index as determined by a RESNET certified home energy rater (residential projects)

PLEASE CONFIRM: I have read and understand the rules for this competition. This entry is structural insulated panel construction as defined in the SIPA Building Excellence Awards guidelines. I understand by making this submission that my pictures will be used by the Structural Insulated Panel Association (SIPA) to promote the use of structural insulated panels. I hereby give permission to SIPA to use the enclosed pictures for any use they see fit in that endeavor. I understand that where possible, SIPA will give credit for pictures used to my company as listed above.

Signature:

Kevin Zaid

Date:

3/11/13

Entries that do not contain all required materials or are received after March 12, 2013 will not be considered

Complete application and submit electronically to info@schwindcommunications.com

Or send hard copy applications to SIPA office:

P.O. Box 1699 Gig Harbor, WA 98335
For FedEx or UPS Deliveries ONLY:
6659 Kimball Drive NW, D-404
Gig Harbor, WA 98335
253.858.7472



Structural Insulated
Panel Association

Copyright © 2013 Structural Insulated Panel Association (SIPA). All rights reserved.

www.sips.org