

SIPA Building Excellence Application (Page 1 of 4)



PARTICIPANT INFORMATION

Company Name: ENERGY PANEL STRUCTURES, INC.
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 checked="" type="checkbox"/> Single Family Homes (over 3,000 sq. ft.) | <input type="checkbox"/> Commercial/Industrial/Institutional Buildings under 10,000 sq. ft. |
| <input 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: SPRINGMAN LAKE HOME RESIDENCE
Address: 24201 178TH ST.
City: OKOBOJI State: IA Zip: 51355
Date completed: 6-15-14
Total cost of project (exclusive of land): \$1,000,000 -
Dimensions of building (all floors of multi-story building):

38.5' x 96'

Asking price/purchase price (Affordable Housing only):

Total sq. ft. of conditioned space:

6110 SQ. FT.

BUILT BY (if different than applicant)

Company Name: SCHOELERMAN CONTRACTING
Contact Name: JOE SCHOELERMAN Phone: 712-260-4595
Address: 1530 370TH ST.
City: ROYAL State: IA Zip: 51357

PANELS MANUFACTURED BY (members only)

Company Name: ENERGY PANEL STRUCTURES, INC.

Continued



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

Company Name: O'Keefe Design Associates

Contact Name: Patrick O'Keefe

Phone: 952-447-5046

Address: 15191 Fairlawn Trail St.

City: Prior Lake

State: MN

Zip: 55372

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:

This is a retirement home for Bob and Nancy Springman. It is also a vacation getaway for their children and grandchildren at the Iowa Great Lakes.

How did SIP construction help you get this job?

Energy efficiency and design flexibility helped with the job acquisition. However, the speed and accuracy that SIPs allowed for in such a tight job site, was the biggest factor in landing the job.

SIP wall thickness and core material:

6 5/8 EPS Type 1 7/16 OSB / 5 5/8" EPS / 7/16 OSB

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?

The lot that this home was built upon had setbacks of 5 feet along each side of the house to the property line. SIPs allowed for the home to be constructed in fewer steps and in a more "neighbor-friendly" manner. Additionally, the ability to erect a structure and immediately be able to heat it during the winter for subcontractors to work on the mechanics of the house, is a great asset of the SIP construction.

Describe any innovative design elements or structural engineering involved:

The second story of the home is an engineered in-room truss with four separate dormers. Several girder trusses were upwards of 1,000 pounds to carry the load of the upper level ridge beams. These allowed for a completely vaulted second story lounge with 13 foot ceilings. The roof engineering and truss work is second to none!

Continued



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):

41

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

0.98

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

Describe the HVAC system used on the project:

The heating system is composed of a hydronic heating system along with 2 forced air units. The hydronic heat is located in the basement and garage and is powered by a natural gas 112KBtu/h, 95% EFO dual boiler. The two forced air units have 58KBtu/h and 77KBtu/h 96.1 AFUE heating system with a 36KBtu/h and 30KBtu/h cooling system, respectively.

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.

- Andersen windows 400 series (U-0.30)
- Sprayfoamed roof deck (R-35)
- ICF basement walls (R-25)
- Floor slab insulation (R-10)
- Complete thermal envelope of all concrete
- Rim joists foam (R-22)

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

- LED lighting
- Dual purpose hydronic boiler
- Programmable thermostat

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

N/A

Continued



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

- low-VOC paint and primer

Any additional comments on the project:

It was an honor to build this home for a customer who took pride in building an energy efficient home. It was a tremendous experience to lead such a complex and logistically challenging build with the support of Energy Panel Structures (EPS), along the way. Located in a new estate area with a variety of new homes, this one stands out for its complexity and style paired with the energy efficiencies that only a SIP home could provide.

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:

[Handwritten Signature] - BUILDER
Kevin E. Zedler / EPS

Date:

1-9-17

1-22-17

Entries that do not contain all required materials or are received after January 16, 2017 will not be considered

Complete application and submit electronically to info@sips.org

Or send hard copy applications to SIPA office: P.O. Box 39848, Ft. Lauderdale, FL 33339



Structural Insulated
Panel Association