

## Application (Page 1 of 4)

### PARTICIPANT INFORMATION

Company Name: Energy Panel Structures

Contact Name: Chris Spaeth

Address: 603 N. Van Gordon Ave

City: Orættinger

State: IA

Zip: 51342

Phone: (712) 859-3219

Email: CSpaeth@epsbuildings.com

Website: www.epsbuildings.com

### CATEGORY ENTRY (check one category)

- Single Family Homes (over 3,000 sq. ft.)
- Single Family Homes (under 3,000 sq. ft.)
- Multifamily
- Renovations
- Agricultural
- Commercial/Industrial/Institutional Buildings under 10,000 sq. ft.
- Commercial/Industrial/Institutional Buildings over 10,000 sq. ft.
- Affordable Housing

### PROJECT INFORMATION

Project Name: Becker-Finn Residence

Address: 3033 Victoria St N

City: Roseville

State: MN

Zip: 55113

Date completed: 8-29-12

Total cost of project (exclusive of land): \$288,000

Dimensions of building (all floors of multi-story building): This is an "L-shaped" home. The front section is 35'x26', the back section is 26'x27' with the basement having the same dimensions. The garage is 28'x24'.

Asking price/purchase price (Affordable Housing only)

Total sq. ft. of conditioned space: 1633 (main) + 1633 (basement) = 3266 conditioned SF

### BUILT BY (if different than applicant)

Company Name: Arvola Homes, Inc.

Contact Name: Ryan Arvola

Address: PO Box 727

City: Annandale

Phone: 320-274-7002

State: MN

Zip: 55362

### PANELS MANUFACTURED BY (members only)

Company Name: EPS Buildings, Inc.

Continued

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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: Our homeowners (customers) purchased a foreclosed home that was approx. 50 years old that had a lot of water damage (fall down condition). We tore it down & rebuilt a very air-tight home in its place. It is now home to a couple & their child.

How did SIP construction help you get this job?

The homeowners wanted to build an energy efficient - green home. We built a SIPs home for their friends a few years ago which they are very happy with the energy efficiency of the home overall. They referred them to us as a great quality, energy efficient builder.

SIP wall thickness and core material: 6.5", expanded polystyrene

SIP roof thickness and core material: we used roof trusses

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

The exterior walls went up quite a bit quicker so it saved time, labor & construction costs. Our Energy Star report states the home beats 2004 IECC standard by 51.9%. Also I've received feedback from the homeowners that to their surprise they have not yet turned the AC on since moving in even though it got as hot as 96 degrees outside & they also appreciate how warm it's been inside this winter. So yes SIPs helped with energy savings.

Describe any innovative design elements or structural engineering involved.

The homeowner's brother is in a wheelchair so parts of the home were designed around him. The floor trusses were designed to be in the ground so the garage floor & front steps are level with the main floor.

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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:

Energy Star Certified  
Roseville (MN) Green Building Remodeling Award 2012

HERS Index (residential projects): 53

Blower door test results (AC150) (residential projects): 1.56

Energy use intensity in kBtu/H2 (commercial projects):

Describe the HVAC system used on the project: refer to attached document (page 2, #3)

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:

refer to attached document (pages 2+3, #4)

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

refer to attached document - lighting/applications (pages 3+4, #5), hot water heating - 50 gallon A.O. Smith gas, passive solar - 1.5' overhang to block the high summer sun, 3' overhang on west side for lower afternoon sun, Argon gas filled Low-E windows that block 84% UV rays

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

No

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

Landscaping - refer to attached document (pages 1+2, #2)

Recycled materials/low VOC finishes - refer to attachment (pages 4+5, #7+8)

Any additional comments on the project:

refer to attached document (page 6).

### 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 their endeavor. I understand that where possible, SIPA will give credit for pictures used to my company as listed above.

Signature:  - VP

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](mailto: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:  
8859 Kimball Drive NW, D-404  
Gig Harbor, WA 98335  
263 858 7472



Structural Insulated Panel Association

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