

# SIPA Building Excellence Application (Page 1 of 4)



## PARTICIPANT INFORMATION

Company Name: Extreme Panel Tech., Inc.

Contact Name: Perry Penske

Address: P.O. Box 435

City: Cottonwood

State: MN

Zip: 56229

Phone: 800-977-2635

Email: perry@extremepanel.com

Website: extremepanel.com

## CATEGORY ENTRY (check one category)

- ☐ **XX** Single Family Homes (over 3,000 sq. ft.)
- ☐ Single Family Homes (under 3,000 sq. ft.)
- ☐ Multifamily
- ☐ Agricultural

- ☐ Commercial/Industrial/Institutional Buildings under 10,000 sq. ft.
- ☐ Commercial/Industrial/Institutional Buildings over 10,000 sq. ft.
- ☐ Renovations
- ☐ Affordable Housing

## PROJECT INFORMATION

Project Name: Northern MN Residence (owner wants to remain anonymous)

Address:

City: Northern Minnesota – Near Duluth

State: MN

Zip:

Date completed: 2015

Total cost of project (exclusive of land):

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

Asking price/purchase price (Affordable Housing only):

Total sq. ft. of conditioned space:  
12,200 sq. ft.

## BUILT BY (if different than applicant)

Company Name: Knutson Custom Construction LLC

Contact Name: Andrew Knutson

Phone: 218-591-3651

Address: 408 East Oxford Street

City: Duluth

State: MN

Zip: 55803

## PANELS MANUFACTURED BY (members only)

Company Name: Extreme Panel Tech., Inc.

Continued



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

Company Name: Stahl Architects

Contact Name: Philip Stahl

Phone:

Address: 1405 1<sup>st</sup> Ave. N

City: Fargo

State: ND

Zip: 58102

**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:

Private Residence

How did SIP construction help you get this job?

SIPs was the only thing Knutson offered to build this project. SIPs gave customer what they were looking for as this house has a big demand for proper temperature and humidity control. 1. Needed to protect and make structurally sound a 200-year-old reclaimed timber frame structure. 2. True wood burning fireplace. 3. Over a million dollars in mounted animals going into the structure.

SIP wall thickness and core material:

6" Wall Panels, 8" Foundation

Panels, 4" Rimboard

SIP roof thickness and core material:

12" Roof Panels

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

With the size of this project, SIPs was the only option to build with. The temperatures in Northern MN get very low. Also using SIPs definitely sped up the project's build timeline. SIPs made it a clear choice for builder and homeowner as home was constructed in middle of winter. SIPs foundation panels used for lower level theatre comfort.

Describe any innovative design elements or structural engineering involved:

SIPs were used with the hybrid reclaimed timber frame to add to the structural components.

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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:

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HERS Index (residential projects):46

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

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1.1 ACH50

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

Describe the HVAC system used on the project:

Radiant heated floors in the entire home. High Performance air source heat pumps for supplemental heating and full A/C system. Climate zone 7 location, over 12,000 square feet of conditioned space and only 105,000 BTU loading required. Local mechanical contractors disagreed with the heating and cooling loads. Contractor had to take the bull by the horns and assist in getting properly-sized HVAC done in this house. Otherwise house would have been completely oversize in mechanicals.

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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.

3 1/2" SIP Rimboard Panels. 8" SIP Foundation Panels, Spray foam roof decks where SIPs were not used. Marvin windows throughout the entire house.

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

All of the can lights are LED; the house is set up to go solar but it wasn't in the budget at the time of the build

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

Set up to be installed at a later date.

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**Continued**

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

Reclaimed timber frame, including cabinets, floors, walls and ceiling (both wood and tin).

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Any additional comments on the project:

### CHECKLIST

- ☐ **XX** 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: \_\_\_\_\_

Date: 2/29/2016

Entries that do not contain all required materials or are received after **March 4, 2016** will not be considered

Complete application and submit electronically to [maryjane@sips.org](mailto:maryjane@sips.org)

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



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