

2018 SIPA Building Excellence Awards



Official Entry Form

APPLICATION DEADLINE: *January 10, 2018*

The Structural Insulated Panel Association (SIPA) is hosting the sixteenth annual Building Excellence Awards to recognize association members that build exemplary projects using structural insulated panels (SIPs). The competition allows SIPA members to showcase their best work while demonstrating the design flexibility, sustainability and energy efficiency possible with SIP construction. Two new award categories have been added this year!



**Structural Insulated
Panel Association**



Winning entries will be showcased at the 2018 SIPA Annual Meeting.



Homes and commercial buildings completed between January 1, 2017 and December 31, 2017 are eligible.

Award Categories:

- High Performance (*any size or use category - judged only on special High Performance features or certifications - new in 2018*)
- Single Family 'Small House' under 900 sq. ft. (*new in 2018*)
- 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 (*residential or commercial, includes additions and retrofit insulated panels*)
- Affordable Housing (*excludes multifamily, home ownership cost must be at or below 30% of median income for location*)

Who is Eligible?

- The submitting company must be a current SIPA member in good standing
- Structural insulated panels must be used on a minimum of 50% of the building envelope, determined by square footage of exterior walls and roof
- The SIPs used on the project must be provided by a SIPA member manufacturer
- Installers, designers or other parties involved in the project who are not SIPA members will not be recognized in awards materials. However, builders or architects may apply for membership with their entry, but must be full members in good standing prior to the closing date for the entry to receive recognition.
- Project must be completed between January 1, 2017 and December 31, 2017

Winning Entries

- One winner will be chosen from each category. From the category winners, an Overall Competition Winner and a Runner-Up will be named.
- Judges may hand out Honorable Mentions at their discretion
- Winners will be recognized at the 2018 SIPA Annual Meeting & Conference in Jacksonville, Florida
- SIPA will promote the winning entries on the SIPA website and issue a press release to outside media

Guidelines

- Member companies may make multiple entries, but a separate entry form must be completed for each entry (except for same project also submitted to High Performance category)
- SIPA has the right to use the photos to promote SIPs to the construction industry. All entries will be displayed on the SIPA website.
- The deadline for entries is January 10, 2018. All entries must be received at the SIPA office on or before that date.

The following information and documentation is REQUIRED. Entries without the required items will not be considered.

- Completed and signed application
- A minimum of two photos showing different views of the completed project
- Photographs must be submitted in digital form and be at least 2400 x 3000 pixels, or 8" x 10" at 300 dpi
- Residential projects are encouraged to have a HERS Index calculated by a RESNET certified home energy rater. High Performance category projects must present a HERS Index with blower door data. Commercial High Performance projects must provide other documentation of energy efficiency.

Additional documentation is not required but is highly recommended to give the judges a clear picture of the project's overall design, sustainability, systems integration, and energy efficiency.

- Additional photos showing the construction process and SIP installation
- Documentation of energy efficiency, such as a HERS report, blower door test results, utility bill data, or infrared thermography
- A thorough description of energy-efficient technologies other than SIPs, as well as other innovative or sustainable features
- Comments from the building owners regarding their satisfaction with the building
- A floor plan of the project. A single page line drawing no larger than 17" x 22" in size is sufficient. Please do not send full blueprints.

Judging Criteria

Each entry will be judged on the following criteria:

- Design and structural engineering innovation
- Creative use of SIP construction
- Environmental sustainability

New High Performance Category criteria:

- Projects can compete both here and in specific building type category
- Only features pertaining to eco-efficiency, health, resilience, and renewable energy are considered here
- Energy efficiency (quantified by HERS Index, blower door and other data)





PARTICIPANT INFORMATION

Company Name: Enercept, Inc.

Contact Name: Charlie Ewalt, Roberta Bartel or Jon Wagar

Address: 3100 9th Ave SE

City: Watertown State: SD Zip: 57201

Phone: 605-882-2222

Email: enercept@enercept.com Website: www.enercept.com

CATEGORY ENTRY (check one category)

- | | |
|--|---|
| <input type="checkbox"/> Single Family 'Small House' under 900 sq. ft. | <input type="checkbox"/> Commercial/Industrial/Institutional Buildings under 10,000 sq. ft. |
| <input checked="" type="checkbox"/> Single Family Homes over 3,000 sq. ft. | <input type="checkbox"/> Commercial/Industrial/Institutional Buildings over 10,000 sq. ft. |
| <input type="checkbox"/> Single Family Homes under 3,000 sq. ft. | <input type="checkbox"/> Renovations |
| <input type="checkbox"/> Multifamily | <input type="checkbox"/> Affordable Housing |
| <input type="checkbox"/> Agricultural | <input type="checkbox"/> High Performance (multiple category entry permitted) |

PROJECT INFORMATION

Project Name: Elm Tree Residence

Address: 3962 84th Ave NW

City: New Town State: ND Zip: 58763

Date completed: July 2017

Total cost of project (exclusive of land): \$2.75 million

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

Asking price/purchase price (Affordable Housing only):

n/a

Total sq. ft. of conditioned space:

10,625 sq. ft. plus 1,253 sq. ft. heated garage

BUILT BY (if different than applicant)

Company Name: Paramount Builders

Contact Name: Scott Stoeckel or Jarred Roloff Phone: 701-258-0088

Address: 1407 Tacoma Avenue; Unit 1

City: Bismarck State: ND Zip: 58504

PANELS MANUFACTURED BY (SIPA members only)

Company Name: Enercept SIPs

Continued



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

Company Name: Plain View Design

Contact Name: Tanner Reidman

Phone: 701-319-0755

Address: 601 N 5th St

City: Bismarck

State: ND

Zip: 58501

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:

The Elm Tree project is an amazing home located on a five generational family ranch. It is the primary residence for a young, growing family in North Dakota.

How did SIP construction help you get this job?

The customer liked the idea of having a shortened construction cycle by combining the steps of framing, insulating and sheathing into one step.

They were also looking for clear-span, actual vault ceilings that would offer plenty of space to display the family's many animal mounts.

The home is located on the top of a hill in open prairie, and the owners wanted to eliminate wind noise; the solid foam insulating core makes this possible.

SIP wall thickness and core material: 8" EPS walls

SIP roof thickness and core material: 10" EPS roof

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

In addition to saving time and labor cost, using SIPs on this project made it easier to work with the steel beams and girders used in the stair well that serves a connection between the two sections of the home.

The builder could not have achieved the insulation R-Value without using SIPs on this home.

By using SIPs they were able to seal the home with less thermal bridging.

Describe any innovative design elements or structural engineering involved:

This unique home was built on the side of a hill. Special engineering was required to develop the best ways to support the structure. 12'-14' foundation walls were built and backfilled to support the home.

There are four sets of stairs, each are 28' long and have treads (step platforms) that are 2'-3' deep. The stairs serve as the connection piece for two open living spaces on two living levels and bonus space above.

SIPA Building Excellence Application (Page 3 of 4)



Please list any certifications the project received, such as ENERGY STAR, LEED, National Green Building Standard, WELL, Passive House, Green Globes or local green building programs. Only list certifications that are completed:

n/a

HERS Index (*required only for High Performance Category and recommended for residential projects*): n/a

Blower door test results (ACH50) (*required only for High Performance Category and recommended for residential projects*): n/a

Energy use intensity in kBtu/ft² (*required only for High Performance Category and recommended for commercial projects*): n/a

Describe the HVAC system used on the project:

This home has one 60,000 BTU, 95% efficient Propane Furnace; two 100,000 BTU variable speed, two-stage, 96% efficient, dual source Comfort Maker furnaces that use either propane or electricity.

The garage is heated with a 75,000 BTU heater.

The home has two 150 cfm Fantect HRV's.

There are two 4-ton/17 seer, two-stage AC units.

There is in-floor heat in the bathrooms.

Describe any other energy-saving materials used in the building envelope other than SIPs. List U-values of windows used and the U or R-value of any insulation materials. (*judged only for High Performance Category*)

n/a

Please list any energy-efficient products or design features, such as lighting, hot water heating, appliances, passive solar (*judged only for High Performance Category*):

n/a

Were any solar panels installed on the project? If so, indicate the size of the system (*judged only for High Performance Category*):

No

Continued



Please list any sustainable materials or design features not listed above, such as recycled materials, low-VOC finishes, landscaping, etc. *(judged only for High Performance Category)*:

n/a

Any additional comments on the project:

Other building features: flooring is low VOC vinyl plank; 9,000 sq. ft. of reclaimed Douglas Fir was used for tongue and groove wall and roof finishes. The outside is finished with Bridger Steel that is "rust to finish" noncoated material. IPE natural wood deck material was used for outside patio.

Weather-Shield, Zo-e-shield, Low E windows with a 0.28 U-Factor were installed. There are several of the larger, Low E windows throughout the house providing breath-taking views of the expansive prairie. The large home profile blends naturally into the countryside. Despite its size, the home has a small, cozy feel.

In July 2016 severe storms with large hail, strong winds and tornados ripped through the area. The storm destroyed a 30,000 sq. ft. building located on the property, but this home (still under construction) sustained no wind damage.

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

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: _____

Entries that do not contain all required materials or are received after **January 10, 2018** 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**