

2019 SIPA Building Excellence Awards



Official Entry Form

APPLICATION DEADLINE: **January 11, 2019**

The Structural Insulated Panel Association (SIPA) is hosting the seventeenth 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.



**Structural Insulated
Panel Association**

**SelectSIPs
EXPO**  **2019**
A Better Way to Build

MARCH 4 – 6 / PHOENIX, ARIZONA

Winning entries will be showcased at the 2019 SIPA Annual Meeting and SelectSIPs EXPO.



Homes and commercial buildings completed between January 1, 2018 and December 31, 2018 are eligible.

Award Categories:

- High Performance (*any size or use category - judged only on special High Performance features or certifications*)
- Single Family 'Small House' under 900 sq. ft.
- 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, 2018 and December 31, 2018

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 2019 SIPA SelectSIPs EXPO (Annual Meeting) in Phoenix, Arizona, March 4-6, 2019.
- 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 11, 2019. 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

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: 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 type="checkbox"/> Single Family Homes over 3,000 sq. ft. | <input type="checkbox"/> Commercial/Industrial/Institutional Buildings over 10,000 sq. ft. |
| <input checked="" 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: Living Stone Lodge

Address: 8132 7D st NW

City: Halliday State: ND Zip: 58636

Date completed: July 2018

Total cost of project (exclusive of land): \$260,000

Dimensions of building (all floors of multi-story building):
52' Diameter (Deca-hexagon / 16 sided)

Asking price/purchase price (Affordable Housing only):
n/a

Total sq. ft. of conditioned space:
1,822 sq. ft. on main floor with 610 sq. ft. loft (total sq. ft. 2,432)

BUILT BY (if different than applicant)

Company Name: Traver Industries

Contact Name: Geordan and Diane Traver Phone: 701-873-3700

Address: PO Box 1240

City: Beulah State: ND Zip: 58523

PANELS MANUFACTURED BY (SIPA members only)

Company Name: Enercept

Continued



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

Company Name: Traver Industries

Contact Name: Geordan and Diane Traver

Phone: 701-873-3700

Address: PO Box 1240

City: Beulah

State: ND

Zip: 58523

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 single family home is a prototype for a Native American Housing Development for the three affiliated tribes of the MHA Nation. The home is currently occupied by the Traver Family.

How did SIP construction help you get this job?

The core concept of the Living Stone Lodge Project is to move the homeowners and their children above ground, where natural air and light qualities prevail. This meant creating a large volume loft area and positive space for the children. The structural strength of structural insulated roof panels made this easy. The roof system is supported by the exterior walls and center compression ring and requires no interior bearing walls. This feature gives the owners a completely open loft area with plenty of light and space for activities.

SIP wall thickness and core material: n/a - ICF wall / 1,690 sq. ft.

SIP roof thickness and core material: 12" with expanded polystyrene (EPS) core / 2,560 sq. ft.

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

According to the builder, "The 'cookie-cutter' construction of the structural insulated panels saved over 40% in estimated labor costs."

Describe any innovative design elements or structural engineering involved:

The self-supporting roof system with no need of interior walls for support creates a building with multiple possible applications.

All of the mechanical elements are in the center of the home. Kitchen and bathrooms butt up against the center mechanical area creating an efficient connection to the water heater. All the heat created from the mechanicals is created in the center of the home, similar to traditional Native custom.

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:

The home is heated and cooled with a Weil McLain ECO-70 Boiler / 3-Zone Radiant Floor Heat with Domestic Water Option and a 2-Ton Ductless Daiken Mini-Split.

The owner noted that the home is primarily cooled by the sub-ground floor and that the A.C. was not needed during the summer of 2018.

The home also has seven ceiling fans to circulate air, and an air exchanger.

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)

Windows used are Northstar Double Pane, Argon filled, Low-E, 366 glass, Energy Star Rated casement and awning windows / U-Value .26

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

All appliance are Whirlpool Energy Star rated. All lighting is 100% LED. The water heater is a Weil McLain 35 gallon indirect (heated by the same boiler as the radiant floor heat system).

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

No

SIPA Building Excellence 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. *(judged only for High Performance Category):*

A 3' Berm was built up around the perimeter of the home to raise the frost-line, and to direct breezes into the open awning windows. The owner reports that this has been very effective in keeping the home cool. Indigenous plants and healing herbs will be planted in the spring.

Any additional comments on the project:

Due to the success of this prototype, the Native Housing Development will be building five additional units in 2019.

This home is a runner up in the 2019 ICF Builders' Awards, the winner will be named in February.

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: 1-8-2019

Entries that do not contain all required materials or are received after **January 11, 2019** 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**

BUILDING EXCELLENCE AWARD SPONSOR



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