

# 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, Neal Mack

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 type="checkbox"/> Single Family Homes under 3,000 sq. ft.       | <input type="checkbox"/> Renovations  |
| <input type="checkbox"/> Multifamily                                   | <input checked="" type="checkbox"/> Affordable Housing                                      |
| <input type="checkbox"/> Agricultural                                  | <input type="checkbox"/> High Performance (multiple category entry permitted)               |

## PROJECT INFORMATION

Project Name: Thunder Valley CDC (Regenerative Community) House

Address: 290 Empowerment Drive

City: Porcupine State: SD Zip: 57772

Date completed: July 2018

Total cost of project (exclusive of land): \$110,000

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

First and second floors: 26' x 26' with attic bonus space for storage

Asking price/purchase price (Affordable Housing only):

\$130,000

Total sq. ft. of conditioned space:

1,448 sq. ft.

## BUILT BY (if different than applicant)

Company Name: Thunder Valley CDC and homeowners

Contact Name: \_\_\_\_\_ Phone: 605-455-2700

Address: 290 Empowerment Drive

City: Porcupine State: SD Zip: 57772

## PANELS MANUFACTURED BY (SIPA members only)

Company Name: Enercept

**Continued**



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

Company Name: Pyatt Studios  
Contact Name: Rob Pyatt Phone: 303-803-6810  
Address: 1445 Pearl St #209  
City: Boulder State: CO Zip: 80302

**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 home is part of the Tunder Valley Regenerative Community located on the Pine Ridge Indian Reservation. Each unit is a single family home for low to moderate income Native American families.

How did SIP construction help you get this job?

The developers are creating climate change resilient homes. SIP construction fit well because of the improved energy efficiency they offer.

Thunder Valley CDC has limited construction crews and wanted a building system that would go up quickly and that the homeowners could participate in.

Rural utilities are generally more expensive, by building energy efficient housing ownership becomes more affordable.

SIP wall thickness and core material: 6" walls with EPS solid insulating core

SIP roof thickness and core material: 12" roof with EPS solid insulating core

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

Using SIPs allowed a very inexperienced crew and homeowners the ability to frame up the house and create an air-tight exterior shell.

Describe any innovative design elements or structural engineering involved:

The home was designed to maximize passive and active solar potential. The roof pitch has been adjusted for ideal solar gain and equipped with solar panels. The covered porch provides passive cooling.



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:

None completed at this time

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HERS Index (required only for High Performance Category and recommended for residential projects):

Projected calculations indicate this home would have a HERS Score of 40.

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

The airtightness target of this home is 1.0 ACH@50Pa

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Energy use intensity in kBtu/ft<sup>2</sup> (required only for High Performance Category and recommended for commercial projects):

14,500 kwh/year x 3.412 = 49,474/1448 = 34.16 EUI

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Describe the HVAC system used on the project:

High performance integrated space and water heating system with inverter heat pump for cooling/dehumidification, energy recovery ventilator, and high-efficiency filter - all delivered through a small duct distribution system.

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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 U or R-value of any insulation materials. (judged only for High Performance Category)

Windows: 0.27 U-Value 0.20 SHGC; Slab and Foundation Insulation = R-12;  
6 KW PV System; Covered Porch for Passive Cooling & Sun Protection; High  
SRI standing-seam metal roof for reduced heat gain

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

LED lighting; Hydronic floor heat; Energy Star appliances; Low Flow Water Fixtures

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

Yes, 6KW PV system

## 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):*

Low or no VOC finishes were used.  
The shared space and yards are seeded with native prairie grasses and shrubs.

Any additional comments on the project:

This house is one of seven units supplied. The homes were designed to be built through a sweat-equity and training model that resulted in between 15- 30% cost savings for low income Native American families living in the development.  
Each home comes with a 'Homeowner's Guide' that include instructions on keeping the home safe, healthy, and green.

### 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: 1-18-2019

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](mailto:info@sips.org)

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



**Structural Insulated  
Panel Association**

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