

2020 SIPA Building Excellence Awards



Official Entry Form

APPLICATION DEADLINE: *January 11, 2020*

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



**SelectSIPs
EXPO** 
A Better Way to Build

MARCH 2 – 4 / PHOENIX, ARIZONA

Winning entries will be showcased at the 2020 SIPA Annual Meeting and SelectSIPs EXPO.



Homes and commercial buildings completed between January 1, 2019 and December 31, 2019 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, 2019 and December 31, 2019

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 2020 SIPA SelectSIPs EXPO (Annual Meeting) in Phoenix, Arizona, March 2-4, 2020.
- 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, 2020. 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)

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PARTICIPANT INFORMATION

Company Name: Enercept SIPs
Contact Name: Roberta Bartel or Charlie Ewalt
Address: PO Box 443
City: Watertown State: SD Zip: 57201
Phone: 605-882-2222
Email: rbartel@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 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: Wertz Barndominium
Address: 403 Codgers Cove Road
City: Pierre State: SD Zip: 57501
Date completed: September 2019
Total cost of project (exclusive of land): \$1,100,000.
Dimensions of building (all floors of multi-story building):
Main: 38' x 80' Loft: 24' x 65'
Asking price/purchase price (Affordable Housing only):
n/a
Total sq. ft. of conditioned space:
4,600

BUILT BY (if different than applicant)

Company Name: Jbar Construction Specialties, LLC
Contact Name: Josh Barber Phone: 605.677.7821
Address: PO Box 443
City: Brookings State: SD Zip: 57006

PANELS MANUFACTURED BY (SIPA members only)

Company Name: Enercept

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

Company Name: Jbar Construction Specialties, LLC

Contact Name: Josh Barber

Phone: 605.677.7821

Address: PO Box 443

City: Brookings

State: SD

Zip: 57006

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 Wertz Barndominium, or "Fish Camp" is a second home for the Wertz family. It is located on Lake Oahe in South Dakota, a premiere fishing lake in the state. The Wertz family will use this home as their fishing headquarters and vacation destination.

How did SIP construction help you get this job?

The Wertz's had seen and admired examples of the Post and Beam Timber projects built by Josh Barber. They like the way that SIPs marry with Post and Beam Construction, and the energy efficiency of SIPs. They were concerned about the monthly expenses, and saw SIPs as the best solution to keep those costs manageable.

The family also felt the faster dry-in would protect the timbers from the harsh South Dakota elements.

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

SIP roof thickness and core material: 10" roof with a solid EPS insulating core

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

The SIPs made it possible to cover the timbers quickly.

Using SIPs made it easy to put temporary heat in, so crews could work comfortably over the winter. In a structure of this size, they found that the material and construction cost for the SIP construction was virtually the same as the cost for stick-framed construction. They saved a huge amount of labor expense.

The energy consumption has been minimal.

Describe any innovative design elements or structural engineering involved:

They used a typical raised center Post and Beam barn design. They used the SIPs to make it structurally twice as strong. This is important in central South Dakota, since strong storms and winds are common in the area.

All the floors on the main level are polished concrete.

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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:

24 SEER Air to Air heat pumps for both living and garage areas. A high-efficiency electric boiler heats the in-floor heating system.

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

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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:

They installed steel roof with high reflectivity rating.

Energy Efficient Integrity by Marvin Windows.

The home is 100% LED lighting. The electric hot water heat is the highest efficiency made.

All of the appliances are Energy Star rated.

The low operational cost afforded by the SIP construction, allowed the owners to heat their large garage as well as the living area. Mr Wertz stated that, "SIP Construction is the only way to build that size of conditioned garage space in an affordable manner."

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: Roberta Bartel	Digitally signed by Roberta Bartel DN: cn=Roberta Bartel, o=Enercept, Inc., ou, email=rbartel@enercept.com, c=US Date: 2020.01.17 13:21:01 -06'00'	1-17-2020 Date:
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Entries that do not contain all required materials or are received after **January 11, 2020** 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**