

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: Custom Family Residence
Address: Minstrel Lane
City: Williams State: AZ Zip: 86046
Date completed: October 2017
Total cost of project (exclusive of land): \$5.3 million
Dimensions of building (all floors of multi-story building):
Main Floor: 134' x 163'
Second Floor: 134' x 124'; Basement (approx.) 53' x 28'; Garage Loft 55' x 33'
Asking price/purchase price (Affordable Housing only):
n/a
Total sq. ft. of conditioned space:
18,363 sq. ft. livable space in the home / 1,801 sq. ft. in the detached garage

BUILT BY (if different than applicant)

Company Name: Harmony Builders
Contact Name: Kevin Baltzall Phone: 928-779-2347
Address: 417 North Agassiz Street, Building 2, Suite B
City: Flagstaff State: AZ Zip: 86001

PANELS MANUFACTURED BY (SIPA members only)

Company Name: Enercept, Inc.

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

Company Name: Nostdahl Liptack Architects (SIPA member)

Contact Name: Dan Nostdahl / Glenn Liptack

Phone: 602-200-8042

Address: 3033 North Central Ave; Ste 420

City: Phoenix

State: AZ

Zip: 85012

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 high-end home is a custom, multi-generational family retreat and lodge.

How did SIP construction help you get this job?

The owner, being energy conscious about this project, was investigating several different energy efficient building methods. He did not want to burden future generations of his family with heavy energy bills. After initially planning for another spray foam insulated home, his Architect suggested he consider SIP construction. He researched the benefits of SIPs in cold weather climates and learned of a well known/respected development company in his area using SIPs. The owner then decided to embrace the use of SIPs for his family's lodge. At first, his builder was also hesitant to build with SIPs. After talking to the Architect and understanding the benefits of SIP construction, he was eager to work with this building method.

SIP wall thickness and core material: 6" EPS foam walls

SIP roof thickness and core material: 10" EPS foam roof

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

The complexity and size of this home necessitated efficiencies in labor and time. The labor savings were obvious from the beginning as framing, insulating and sheathing happened more quickly than anticipated.

Building with SIPs offered much more flexibility in design and gave the family more usable living space in the home and garage loft.

Energy savings are anticipated with the tight building envelope as the home-retreat is expected to be passed down for many generations to come.

Describe any innovative design elements or structural engineering involved:

This majestic home features 16 bedrooms, numerous bathrooms and lavatories, a 28' x 19' in-home theater with a tiered floor on the second level, front and back stairs to the second level, two large gathering areas on the main level with open loft in third gathering area on the second level. There is also a game room above the detached garage and exercise area in the lower (basement) area. Structural beams and supports were engineered for both the first and second levels of the home.

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 features eight Carrier inverter heat pumps for heating and cooling.

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:

The home has five Energy Star rated propane water heaters. Aspen windows were used throughout the home and detached garage. Windows all have U factors from 0.33 to .36.
Natural stone was used for fire places in the two main floor gathering areas and outside trim and fire pit.
The home is orientated take advantage of natural light with large windows and covered porches to protect from hot summer sun during warm months.

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**