

2023 SIPA Building Excellence Awards



Official Entry Form

APPLICATION DEADLINE: *January 18, 2023*

The Structural Insulated Panel Association (SIPA) is hosting the twentieth 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** 2023
A Better Way to Build

March 6th, 7th and 8th / PHOENIX, AZ

Winning entries will be showcased at the 2023 SIPA Annual Meeting and SelectSIPs EXPO.



**Homes and commercial
buildings completed
between January 1, 2022
and December 31, 2022
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 50% 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, 2022 and December 31, 2022

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 2023 SIPA SelectSIPs EXPO (Annual Meeting) March 6th - 8th 2023, Phoenix, Arizona.
- 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 18, 2023. All entries must be received at the SIPA office on or before that date.

The following information and documentation are 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)



SIPA Building Excellence Application (Page 1 of 4)



PARTICIPANT INFORMATION

Company Name: NRG Homes II LLC
Contact Name: Shannon Grismer
Address: 200 N Ebenezer Ave
City: Sioux Falls State: SD Zip: 57107
Phone: 605-366-5298
Email: Shannon@nrghomessd.com Website: www.nrghomessd.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: Eliason Custom
Address: 204 S Boathouse Circle
City: Sioux Falls State: SD Zip: 57107
Date completed: 9-6-2022
Total cost of project (exclusive of land): 3.2 mil
Dimensions of building (all floors of multi-story building):
118'4³/₁₆ x 96'3³/₁₆ x 24'11¹³/₁₆ x 36'8"
Asking price/purchase price (Affordable Housing only):

Total sq. ft. of conditioned space:

7,120 sq ft

BUILT BY (if different than applicant)

Company Name: _____
Contact Name: _____ Phone: _____
Address: _____
City: _____ State: _____ Zip: _____

PANELS MANUFACTURED BY (SIPA members only)

Company Name: EPS

Continued

SIPA Building Excellence Application (Page 2 of 4)



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

Company Name: NRG Homes II LLC

Contact Name: _____

Phone: _____

Address: _____

City: _____

State: _____

Zip: _____

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:

Single family home

How did SIP construction help you get this job?

Energy efficiency is a major driving force for all our customers. Everyone loves the idea of saving money.

SIP wall thickness and core material: 6 1/2" core 5 1/2"

SIP roof thickness and core material: none

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

SIP's on this project saved our customers a considerable amount of money. Lumber prices were through the roof and building with SIP's was a no brainer. Plus not only the money savings but the daily savings on the energy bills made this option a Slam Dunk.

Describe any innovative design elements or structural engineering involved:

We have a 1,200 sqft core floor storage space that was built with precast concrete. The 110' back deck was engineered with floor trusses and then concrete was poured for the flooring and this deck is 11' off the ground. Crestron "smart" home automation was used throughout this home.

Continued

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:

Energy Star

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

49

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

2.08

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

216.2 MBtu

Describe the HVAC system used on the project:

we used 2-96% efficient furnaces both with air exchangers + humidifiers. 1 mini split that is a 20 seer. AC units are both 13 seer. In floor gas boiler heat in basement floor, core floor area and garage.

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)

R value of house attic and garage attic is R50
windows U factor 0.23,

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 lighting in this home is on Smart Switches. All Sub Zero + Wolf appliances.

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):

Tremendous amount of boulder walls 440 ton of boulders

Any additional comments on the project:

This home is on a lake and functionality and natural light entering the home was taken into consideration. Open floor plan concept with floor to ceiling windows facing lake side of the home.

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: _____

1-16-2023

Entries that do not contain all required materials or are received after **January 18, 2023** 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

77

1. The first part of the paper is devoted to a general discussion of the problem.

2. In the second part, we consider the case of a single particle. We show that the motion is periodic and that the period is independent of the energy.

3. The third part is devoted to the case of two particles.