

# 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 6<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup> / PHOENIX, AZ  
*Winning entries will be showcased at the 2023 SIPA Annual Meeting*



**Structural Insulated  
Panel Association**



*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 6<sup>th</sup>-8<sup>th</sup> 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: West-Eco Panelized Building Systems  
Contact Name: Duane Svendsen  
Address: 103-1285 McGill Rd  
City: Kamloops State: BC Zip: V2C 6K7  
Phone: 250-320-5680  
Email: info@westecopanel.com Website: www.westecopanel.com

## CATEGORY ENTRY (check one category)

- Single Family 'Small Hcuse 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
- Affordable Housing
- High Performance (multiple category entry permitted)

## PROJECT INFORMATION

Project Name: 9717 Centrestone  
Address: 9717 Centrestone Drive  
City: Lake Country State: BC Zip: V4V 0A5  
Date completed: Sept 9/2022  
Total cost of project (exclusive of land): \_\_\_\_\_  
Dimensions of building (all floors of multi-story building):  
48' x 42', 2 stories  
Asking price/purchase price (Affordable Housing only): \_\_\_\_\_  
Total sq. ft. of conditioned space:  
3600

## BUILT BY (if different than applicant)

Company Name: Owner builder  
Contact Name: Leighton Williams Phone: 604-644-7403  
Address: 4126 Union St.  
City: Burnaby State: BC Zip: V5C2X1

## PANELS MANUFACTURED BY (SIPA members only)

Company Name: West-Eco Panelized Building Systems

Continued



# SIPA Building Excellence Application (Page 2 of 4)



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

Company Name: DOS Design Group Inc

Contact Name: \_\_\_\_\_ Phone: 604-876-3738

Address 81 Golden Dr #110a

City: Coquitlam State: BC Zip: V3K 6R2

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 dwelling

How did SIP construction help you get this job?

The owner-builders wanted an alternative to conventional framing that was quick for two people to build - but also very energy efficient and cost effective. SIPS were the clear winner vs. other energy efficient building technology.

SIP wall thickness and core material: 8 1/3" Eps

SIP roof thickness and core material: 12 3/4" (North), 12" (South), EPS

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

SIPS allowed owner-builders to frame the upper story & roof with two people in approximately 3 weeks. It was very efficient time-wise & saved them thousands of dollars vs. conventional framing. They have reported very low energy use overall due to the exceptional air tightness.

Describe any innovative design elements or structural engineering involved:

Hanging I-joist from the ICF prevented a thermal bridge where box ends normally cause one.

## 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:

STEP 5 on the BC Energy Step Code

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

There is no HERS score because this is a Canadian project. Not 2000 Energy Step Code compliance reports are attached. If there is someone who is able to convert this data to a HERS score we are happy to do it, we just couldn't find anyone!

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

0.46 (ACH50)

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

4.75 kBtu/ft<sup>2</sup>/year

Describe the HVAC system used on the project

Two mini-split heat pumps & an HRV.

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-15 insulation in service walls.  
Triple paned Innotech windows & doors. U0.14 or U1.0.8  
ICF basement with 5" EPS foam under slab, thermally broken slab edge  
Majvest smart membrane as weather resistant barrier outside SIPs.  
Double air barrier around windows/door with rod & caulk on interior & fentrim tape on exterior.

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

Building orientation was planned for solar heat gain in winter months, with wide overhangs to prevent over-heating in summer months.  
Sanco air to water heat pump for domestic hot water.  
All appliances are energy-star certified, with condensing dryer.  
LED lighting throughout the house. All low-flow fixtures.

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

Not yet. The house is designed with a large southern facing roof expanse with the intention of having solar panels in the future. The owners want two years minimum worth of energy data to right-size their solar array before installation.



## 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):

Form lumber was reused for SIPS spines.  
House is all electric with no fossil fuel use. As BC is hydro-electric powered the energy is renewable.  
Xeriscaped landscaping.

Any additional comments on the project:

Two months worth of electricity bills have been provided for data of energy usage. The house is electric only, no gas service was installed. These two months had very high air conditioning loads, as outside temperatures were frequently between 77°F and 95°F.

### 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: January 9/23

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](mailto:info@sips.org)

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



Structural Insulated  
Panel Association