

# 2016 SIPA Building Excellence Awards



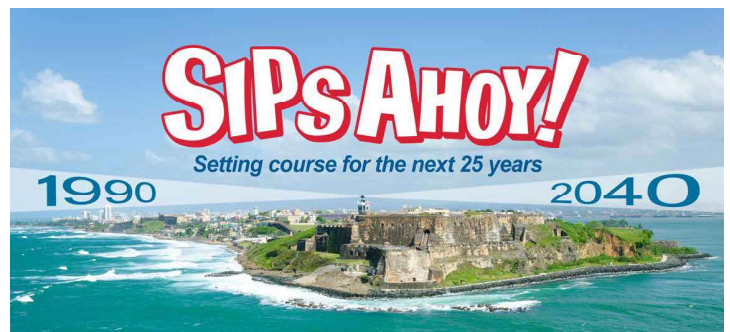
## Official Entry Form

**APPLICATION DEADLINE:** *March 4, 2016*

The Structural Insulated Panel Association (SIPA) is hosting the fourteenth 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**



*Winning entries will be showcased at the 2016 SIPA Annual Meeting in Puerto Rico, April 4 - 6, 2016*



*Homes and commercial buildings completed between January 1, 2015 and December 31, 2015 are eligible.*

### ***Award Categories:***

- 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, 2015 and December 31, 2015

### ***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 2016 SIPA Annual Meeting & Conference in San Juan, Puerto Rico
- 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
- 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 March 4, 2016. 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 must have a HERS Index calculated by a RESNET certified home energy rater. Commercial projects must present 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:**

- Energy efficiency (quantified by HERS Index and other data)
- Design and structural engineering innovation
- Creative use of SIP construction
- Environmental sustainability

# SIPA Building Excellence Application (Page 1 of 4)



## PARTICIPANT INFORMATION

Company Name: Thermal Foams / R-Control

Contact Name: Chris Wopperer

Address: 2101 Kenmore Avenue

City: Buffalo

State: New York

Zip: 14207-1695

Phone: 716 874-6474

Email: chrisw@thermalfoams.com

Website: thermalfoams.com

## CATEGORY ENTRY (check one category)

☐ Single Family Homes (over 3,000 sq. ft.)

☐ Commercial/Industrial/Institutional Buildings under 10,000 sq. ft.

☒ Single Family Homes (under 3,000 sq ft.)

☐ Commercial/Industrial/Institutional Buildings over 10,000 sq. ft.

☐ Multifamily

☐ Renovations

☐ Agricultural

☐ Affordable Housing

## PROJECT INFORMATION

Project Name: State University At Buffalo ( UB )

Address: 3435 Main Street

City: Buffalo

State: New York

Zip: 14214

Date completed: October 2015

Total cost of project (exclusive of land): \$855,000.00

Dimensions of building (all floors of multi-story building): Two Modules 12'x12'x42' and 12'x12'x28'

Asking price/purchase price (Affordable Housing only): \$278,653.00

Total sq. ft. of conditioned space: 770 square foot

## BUILT BY (if different than applicant)

Company Name: University At Buffalo

Contact Name: Martha Bohm

Phone: 716 829-5214

Address: 114 Diefendorf Hall

City: Buffalo

State: New York

Zip: 14214

## PANELS MANUFACTURED BY (members only)

Company Name: Thermal Foams, Inc. / R-Control

*Continued*

## SIPA Building Excellence Application (Page 2 of 4)



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

Company Name: \_\_\_\_\_

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: The building was designed as a house for exhibition / competition in Irvine, California  
at the US Department of Energy Solar Decathlon, and then afterward rebuilt in Buffalo New York.

This Energy + Education Center is to be installed in the spring of 2016 on the South Campus at the University At Buffalo.  
For a complete project concept and objective visit [HTTP://grow.buffalo.edu/](http://grow.buffalo.edu/)

How did SIP construction help you get this job? This house was designed for the high performance building competition to which  
the house had to be shipped. SIP's offered the best R-Value and Air Tightness, while providing the structure capacity  
needed for transportation over a long journey.

SIP wall thickness and core material: 10 1/4" R-38 Expanded Polystyrene

SIP roof thickness and core material: 10 1/4" R-38 Expanded Polystyrene

Describe the benefits of using SIPs on this project. Did SIPs help save time, labor, construction costs, or energy? Saved on construction  
time and the benefit of reduced construction waste. Strength of the SIP's to withstand the coast to coast journey of a fully  
assembled unit to the competition. Reduced Energy loads for the project.

Describe any innovative design elements or structural engineering involved: Designed a framed raised floor system to accommodate  
for the mechanical runs. Students designed a ventilation system into the SIP's walls.

For Design Concept Details Visit <http://www.grow.buffalo.edu>

See link for details- <http://www.solardecathlon.gov/2015/competition-scores-u-at-buffalo.html>

**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, or local green building programs. Only list certifications that are completed:

Finished second place in the 2015 U.S. Department Of Energy Solar Decathlon 2015

LEED application to be completed for permanent installation.

HERS Index (residential projects): Not for competition, but will for permanent installation.

Blower door test results (ACH50) (residential projects): Not for competition, but will for permanent installation.

Energy use intensity in kBtu/ft<sup>2</sup> (commercial projects):

Describe the HVAC system used on the project: Variable speed Air-To-Air heat pump system paired with a four zone variable speed air handler. Ducted in the raised floor cavity with a ductless return grille above the mechanical room.

Describe any other energy-saving materials used in the building envelope other than SIPs. List U-values of windows used and the R-value of any insulation materials.

Windows, U-Value: U-.167 at center of pain-triple pain low "E" coating.

Please list any energy-efficient products or design features, such as lighting, hot water heating, appliances, passive solar:

LED lighting, high color rendering, low color temperature.

Exterior lighting installed in desired locations to use minimal energy.

All appliances are Energy Star, induction cook-top, heat pump dryer.

ERV. Hot water, solar thermal system mounted on the canopy-uses tubes with glycol working fluid and an 80 gallon direct hot water tank. Passive solar.

Were any solar panels installed on the project? If so, indicate the size of the system: Grid-tied 6.72kW PV system, 16.9% more efficient.

Silevo's Triex U-280 PV, Hybrid tunneling junction cell technology. Anti reflective coating.

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## 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.:

Larch wood rain screen. Corian counter tops. GroW tables promoting the lifestyle for the user to grow their own food.

High performance windows (triple pane, low-e, gas filled). Low VOC paints.

Any additional comments on the project:

### 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
- ☐ I have indicated the HERS Index as determined by a RESNET certified home energy rater (residential projects)

**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: *Kevin Casey*

Date: 2-26-2016

Entries that do not contain all required materials or are received after **March 4, 2016** will not be considered

Complete application and submit electronically to [maryjane@sips.org](mailto:maryjane@sips.org)

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



**Structural Insulated  
Panel Association**