

2016 SIPA Building Excellence Awards



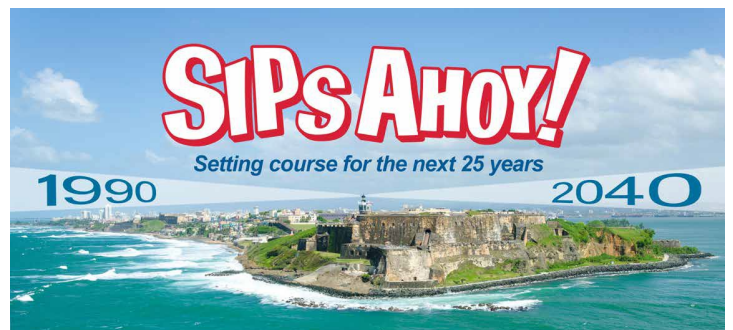
Official Entry Form

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

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PARTICIPANT INFORMATION

Company Name: Premier SIPS

Contact Name: Becky Susan

Address: 19727 57th Ave. E.

City: Puyallup State: WA Zip: 98375

Phone: 800-275-7086

Email: becky.susan@insulfoam.com Website: www.premiersips.com

CATEGORY ENTRY (check one category)

- | | |
|--|---|
| <input type="checkbox"/> Single Family Homes (over 3,000 sq. ft.) | <input type="checkbox"/> Commercial/Industrial/Institutional Buildings under 10,000 sq. ft. |
| <input checked="" type="checkbox"/> Single Family Homes (under 3,000 sq ft.) | <input type="checkbox"/> Commercial/Industrial/Institutional Buildings over 10,000 sq. ft. |
| <input type="checkbox"/> Multifamily | <input type="checkbox"/> Renovations |
| <input type="checkbox"/> Agricultural | <input type="checkbox"/> Affordable Housing |

PROJECT INFORMATION

Project Name: Modern Asheville Home

Address: 62 Dunkirk Rd

City: Asheville State: NC Zip: 28804

Date completed: October 2015

Total cost of project (exclusive of land): \$550K

Dimensions of building (all floors of multi-story building):

2,721 sq. ft. 3-story home with a 23.5 x 24 garage

Asking price/purchase price (Affordable Housing only):

Total sq. ft. of conditioned space:

2,721 sq. ft.

BUILT BY (if different than applicant)

Company Name: BuiltSmart by Bob

Contact Name: Bob Callahan Phone: (828) 620-9730

Address: 104 Lakeshore Drive

City: Asheville State: NC Zip: 28804

PANELS MANUFACTURED BY (members only)

Company Name: Premier SIPS

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

Company Name: Wilson Architects

Contact Name: Aaron Wilson

Phone: 828.257.4930

Address: 309 Kenilworth Road

City: Asheville

State: NC

Zip: 28803

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:

Modern mountain home

How did SIP construction help you get this job?

Energy Efficiency and air sealing: Builder provides higher than building code levels of insulation and industry leading levels of air sealing. Client wanted a modern style home with low energy bills and high comfort. (first time builder used SIPS)

SIP wall thickness and core material: 8" walls on main house, 4" walls on garage

SIP roof thickness and core material: 10" roof on main house, 6" roof on garage

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

- LABOR SAVINGS, builder was able to save on building time especially when installing the roof.
- DESIGN VERSATILITY: SIPS gave the architect design flexibility versus stick framing when it came to the vaulted spaces and roof spans without beams.
- ENERGY SAVINGS: Very airtight home evidenced by the blower door test results of 0.56ACH 50, the airtightness coupled with the great insulation levels that SIPS provides led to a HERS rating of 52, 48% better than building code. Projected energy use of \$460 per year for heating, cooling and hot water

Describe any innovative design elements or structural engineering involved:

- FOUNDATION: Enclosed crawlspaces can be a magnet for moisture, mold and rot. Slab on Grade with no crawlspace was incorporated into the design so that there was no hidden enclosed area below the house... where energy can be lost and mold can grow. In addition to SIPS, a XPS foam board (R15 at outer 4' and R10 in center area) was added to the under slab and edge. Foundation and concrete slab were both insulated to make sure they were completely isolated from their surrounding surface to eliminate thermal bridging. Basement floor is stained and sealed concrete without adding flooring
- ROOF: where no lumber splines were used on parts of the roof, an extra inch of polyiso for R44 total assembly and parts that have some lumber in it got on average an extra R15 for a R53 total.
- EXTERIOR WALLS: Exterior is a stucco application.
- 3RD FLOOR: rests on steel beams and is southern yellow pine 2x6 decking that acts as both the ceiling below and the floor above.
- OPEN FLOW: Master suite lot is accessed by floating wood stairs on steel to keep home open and flowing

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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:

Energy STAR and HERS score of 52

HERS Index (residential projects): 52

Blower door test results (ACH50) (residential projects): .56ACH50

Energy use intensity in kBtu/ft² (commercial projects):

Describe the HVAC system used on the project:

Heating & Cooling: Samsung mini split heat pumps. 2 ducted units, one ceiling cassette and one wall unit for 4 zones of very controllable comfort all working off one incredibly quiet compressor. Venmar HRV for fresh air and Panasonic whisper Green bath fans to handle humidity in bathrooms

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.

- Outside of SIP Walls is a double layer Tyvek weather barrier system. the first layer is conventional Tyvek air and moisture barrier while the second layer is a Tyvek drainage plane product called Tyvek StuccoWrap/DrainWrap that provides a path out for moisture that gets between stucco and house, reducing any chance of mold in walls.
- Windows: double pane low e-argon filled. Different levels of SHGC control based on sun exposure (evaluated for direction they faced like E, W or S and also whether or not there is an overhang to protect from the summer sun) so that the windows are letting in heat when homeowners need it and keeping heat out when they don't.
- Low e-glass, better sealed garage door: overhead door at the living space so although it looks like a garage door it has low e-glass and better sealing features than a garage door.

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

- GE GeoSpring heat pump hot water heater. - All EnergyStar appliances, including an induction cooktop (no natural gas in house means no combustion means no possibility of carbon monoxide poisoning).
- LED lightning with some CFL

Were any solar panels installed on the project? If so, indicate the size of the system:

No solar utilized. The home site is so wooded the solar was only going to be 5% efficient per the testing that was run by the builder. At the request of the owner, builder worked around all the trees instead of removing them.

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Please list any sustainable materials or design features not listed above, such as recycled materials, low-VOC finishes, landscaping, etc.:

- White oak from the building site and a few neighborhood trees were milled and dried for the hardwood floors in the house.
- Ambrosia maple from the building site was milled and dried and became the wood countertops for built ins and door/drawer fronts for all the cabinets and built ins.
- All cabinets were built by the builders' in house company, Case Green Cabinetry, and were made from Columbia Forest Products NAUF PureBond maple plywood with an eco friendly UV clear finish.

Any additional comments on the project:

Projected energy use is \$460 per year for heating, cooling and hot water.

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.

Rachel Wood

Digitally signed by Rachel Wood
DN: cn=Rachel Wood, o=Insulfoam, ou=Premier SIPS,
email=rachel.wood@grouppilman.com, c=US
Date: 2016.03.01 11:22:02 -05'00'

Feb 24, 2016

Signature:

Date:

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

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



BUILDING EXCELLENCE AWARD SPONSOR

