

PARTICIPANT INFORMATION

Company Name: The PanelWrights, LLC

Contact Name: D. Alan Cobb

Address: 808 French Road

City: Shenandoah Junction

State: West Virginia Zip: 25442

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Email: 304-876-0272

Website: www.panelwrights.com

CATEGORY ENTRY (check one category)

- ☐ Single Family Homes (over 3,000 sq. ft.)
☐ Single Family Homes (under 3,000 sq ft.)
☐ Multifamily
☐ Agricultural
☒ Institutional / Industrial / Commercial
☐ Renovations
☐ Affordable Housing

PROJECT INFORMATION

Project Name: Craftworks at Coolsprings

Address: 1469 Lloyd Road

City: Charles Town

State: West Virginia Zip: 25414

Date completed: July 2011

Total cost of project (exclusive of land): \$260,000

Dimensions of building (all floors of multi-story building):
29' X 36'

Asking price/purchase price (Affordable Housing only):

BUILT BY (if different than applicant)

Company Name:

Contact Name:

Address:

City:

State:

Zip:

PANELS MANUFACTURED BY (members only)

Company Name: Insulspan

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

Company Name:

Contact Name:

Address:

City:

State:

Zip:

Please answer each question with as much detail as possible.
Attach additional pages if necessary.

Describe the end use of the building:

Craft Education Studio

How did SIP construction help you get this job?

The client wanted PanelWrights to act as a design build company. PanelWrights spec'd SIPs as the only option.

Continued

Please answer each question with as much detail as possible to help in the judging process

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

SIP roof thickness and core material: 8 1/4"

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

Describe any innovative design elements or structural engineering involved:

See attached Sheet

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

HERS Index (residential projects): 49

Blower door test results (ACH50) (residential projects): .57 @ 50

Describe the HVAC system used on the project:

See attached Sheet

Please list any energy-efficient products or design features other than SIPs:

See attached sheet

Entries that do not contain all required materials or are received after March 22, 2012 will not be considered

Complete application and submit electronically to cschwind@gmail.com

Or send hard copy applications to SIPA office:

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

Rainwater collection

Storm water collection with compliant vegetation

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:

Date: 03/21/12

P.O. Box 1699 Gig Harbor, WA 98335
For FedEx or UPS Deliveries ONLY:
6659 Kimball Drive NW, D-404
Gig Harbor, WA 98335
253.858.7472

2012 SIPA Building Excellence Awards – The PanelWrights, LLC – Craftworks at Coolsprings

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

The only benefit the client saw was the end result of the building being energy efficient. SIPs did shorten the time line for construction and was the only affordable way to reach the level of performance we achieved.

Describe any innovative design elements or structural engineering involved:

We used offset ridge beams (Glulam with timber posts) to shorten the effective span of roof panels allowing surface spline joints and minimizing thermal bridging.

The Heizemann tilt turn windows performance specs substantially improve building efficiency.

The slab is completely insulated and thermally broke on all edges.

The entire foundation and slab assembly was designed for improved performance by using thermal mass that is completely insulated on the exterior.

All Energy star appliances were used.

High performance lighting was used throughout the building.

Describe the HVAC system used on the project.

The HVAC system included a Mitsubishi mini-split system with a 21 seer rating. A recirculating fan was used to de-stratify the air with a single duct with openings at the basement floor and the ridge. The fan system allowed cool air to be distributed upstairs in the summer and warm air distributed on the slab during the heating season. The low watt in-line fans silently move 300 CFM of conditioned air.

Please list any energy-efficient products or design features other than SIPs:

The ultimate air ERV maintains continuous balancing during all run cycles. Operation of unit is triggered by occupancy sensors in bathrooms and kitchen. The configuration ensured fresh air during occupancy and no wasted energy during off-hours.

The building was pre-wired for an electronic car charging station specified in the future.

The entire electric system is monitored 24/7 by ECOP (Energy Consumption Observation Panel). This system allows on-line monitoring of individual components at all times.

CRAFTWORKS
at cool spring
www.craftworksatcoolspring.com

West Virginia's Most Energy Efficient Structure?

Come and see for yourself!



Craftworks New Cool Spring Studio Open House

Saturday, September 17

1:00-4:00pm

1469 Lloyd Rd Charles Town WV

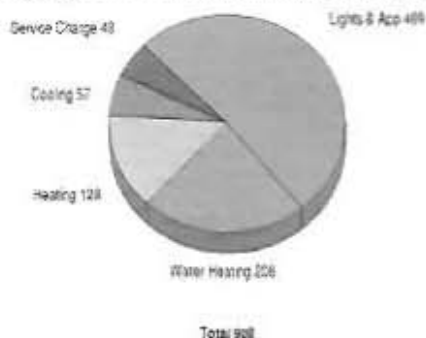
Special Features Include:

- Structural Insulated Panels
- Heinzmann Tilt/Turn Windows
- Mitsubishi Mini Split System
- UltimateAir Energy Recovery System
- Destratification Fan
- ECOP™ Energy Monitoring System

The 2040 sq ft Cool Springs Studio received an Energy Star 5 Star Plus Confirmed Rating.

In addition, the Studio registered 0.54 ACH@50 pascal, achieving the air-tightness metric specified by passive house structures. Heating and cooling cost for Craftworks at Cool Springs Studio is calculated to be \$185.00 annually!

Cool Springs Studio Annual Energy Costs (\$/year)



Energy Performance Testing by
Home Efficiency Solutions, LLC
(304) 676-8892
www.homeenergysolutionsllc.com

