

# SIPA Building Excellence Application (Page 1 of 4)



## PARTICIPANT INFORMATION

Company Name: TimberSIPS Building Systems LLC

Contact Name: Earl Burden

Address: P.O. Box 959

City: Sand Springs

State: Ok

Zip: 74063

Phone: 918-633-9964

Email: earl@timbersips.com

Website: \_\_\_\_\_

## CATEGORY ENTRY (check one category)

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

## PROJECT INFORMATION

Project Name: Chad & Sarah Fox Residence

Address: 23714 Fruit Farm Road

City: Poteau

State: Ok

Zip: 74953

Date completed: March 1, 2016

Total cost of project (exclusive of land): 1.0 Million

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

106 feet x 77 feet, 2 story including Garage

Asking price/purchase price (Affordable Housing only): \_\_\_\_\_

Total sq. ft. of conditioned space:

6800 Square Feet

## BUILT BY (if different than applicant)

Company Name: Darrell Humphreys Construction

Contact Name: Darrell Humphreys

Phone: 918-721-3019

Address: 33236 Harrison LANE

City: Poteau

State: Oklahoma

Zip: 74953

## PANELS MANUFACTURED BY (members only)

Company Name: Extreme Panel Technologies

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

Company Name: Michael Allen Riley Architects, LLC

Contact Name: Michael Riley

Phone: 918-839-6032

Address: 28899 Broken Hill Road

City: Poteau

State: OK

Zip: 74956

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:

Residence

How did SIP construction help you get this job?

Owner was impressed with very low energy costs, strength and stability in wind (Oklahoma!), simplicity of construction, quick enclosure, labor savings, clean job site, better indoor air quality, and in general a much better method of construction.

Builder would not even quote this large, complex hybrid timber frame home using stick construction

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?

Large SIPS panel segments were possible due to the size of the home and full two story design, for quicker erection using a crane.

Describe any innovative design elements or structural engineering involved:

SIPS were used for the end walls of the 48 foot long x 27 foot wide Great Room, which eliminated two of the large timber frame bents typically used on this type of hybrid timber frame. The total structure of this center core consisted of two full timber frames, 3 sets of rafters, 3 ridge beam sections, and connecting timbers along the eave on each side, making the total cost of timber frame very economical and affordable for this part of the structure.

Glue Lam ridges were used on other roof areas spanned by 8 1/4" SIPS for additional savings in construction labor and material.

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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:

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HERS Index (residential projects):

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Blower door test results (ACH50) (residential projects): 1.1 ACH @ - 50 P

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

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Describe the HVAC system used on the project:

Geothermal, with 1200 feet of water wells (3@400 feet deep), ClimateMaster Trilogy 45 downstairs, Tranquility 30 upstairs.

Maximum Energy Efficiency QEV 1860, TE VO26

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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 are Lincoln, Bronze Aluminum Clad, U-Factor=0.34, SHGC=0.13, Visible Transmittance=0.27, PG=HGD-LC35

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

All lighting is LED, All appliances and equipment is Energy Star Rated

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

NO

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

Upper exterior gable walls finished with Natural Poplar, peeled tree bark shingles, requiring no coatings, paint or stain

Any additional comments on the project:

Overall cost reductions in the basic construction, structure and enclosure with SIPS allowed the choice of high end interior finishes and still be within budget of 1.0 Million or about \$147 per SF construction cost on a house that would typically sell in this class for substantially more in resale.

Operating or ownership cost for heating and cooling average around \$180 per month, from an overall energy cost of \$230 per month which includes all other energy used.

This equates to about \$0.027 per SF per month, for heating/cooling only, compared with about \$.10 per SF per month which is the nominal/typical cost for heating/cooling an average conventional stick framed, fiberglass insulated home\*

\* Per Energy Wise Structures, Letter of October 6, 2008

### 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:

*David Burden*

Date:

January 16, 2017

Entries that do not contain all required materials or are received after **January 16, 2017** 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

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Panel Association