

# SIPA Building Excellence Application (Page 1 of 4)



## PARTICIPANT INFORMATION

Company Name: ENERGY PANEL STRUCTURES, INC.

Contact Name: KEVIN ZADOW

Address: 603 N. VAN GORDON AVE.

City: GRAETTINGER

State: IA

Zip: 51342

Phone: 712-859-3219

Email: kzadow@epsbuildings.com

Website: www.epsbuildings.com

## 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: JADE FARMS

Address: 3700 340TH AVE

City: RUTHVEN

State: IA

Zip: 51358

Date completed: 5-15-15

Total cost of project (exclusive of land): \$512,904

Dimensions of building (all floors of multi-story building): WASH BAY : 80X360X 20'-11"

MAIN SHOP : 112X160X 20'-11"

OFFICE : 44X36X 10'-1 1/8"

Asking price/purchase price (Affordable Housing only):

Total sq. ft. of conditioned space: 48,304 SQ. FT.

## BUILT BY (if different than applicant)

Company Name: CHAPMAN - CONTRACTING

Contact Name: DAN CHAPMAN

Phone: 712-260-1416

Address: 4013 340TH ST.

City: EMMETSBURG

State: IA

Zip: 50536

## PANELS MANUFACTURED BY (members only)

Company Name: ENERGY PANEL STRUCTURES, INC.

Continued

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

\* ALL WASTE WATER IS COLLECTED & STORED FROM THE WASH BAY AND THEN APPLIED ONTO FARM LAND WHEN APPLICABLE.

Any additional comments on the project:

□ ONE OF THE LARGEST PROJECTS OF THIS TYPE FOR ENERGY PANEL STRUCTURES, INC. TO BE INVOLVED IN.

### 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:

*Karin E. Zedler*

Date:

*3-4-16*

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**



# 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: FARM MAINTENANCE SHOP, WASH BAY FOR LIVESTOCK TRAILERS & OTHER FARM EQUIPMENT, MACHINERY & EQUIPMENT STORAGE, SEED & FERTILIZER & CHEMICAL STORAGE.

How did SIP construction help you get this job? ENERGY EFFICIENCY COMPARED TO OTHER TYPES OF BUILDING SYSTEMS; INTERIOR FINISH OPTIONS, SPEED OF CONSTRUCTION

SIP wall thickness and core material:  $8\frac{7}{8}$ " OVERALL THICKNESS WITH  $7\frac{3}{8}$ " EXPANDED POLYSTYRENE

SIP roof thickness and core material: N/A

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

- \* R-33 WALL FOR ENERGY EFFICIENCY
- \* WASHBAY WALL PANELS HAD AN INTERIOR FINISH OF .090 FRP LAMINATED TO THE INTERIOR PLYWOOD PANEL SKIN WHICH SAVED LABOR
- \* SIPs SAVED TIME & MONEY WHEN COMPARED TO HAVING TO BUILD A WALL ASSEMBLY WITH MORE CONVENTIONAL FRAMING & SPRAY FOAM.
- \* TALL PANELS - 19'-11" PANELS ON TOP OF 12" CONCRETE STEM WALL FOR 20'-11" HEIGHT

Describe any innovative design elements or structural engineering involved:

- \*  $\frac{3}{4}$ " INTERIOR SKINS FOR 15 MIN. THERMAL BARRIER
- \* INSULATED CONCRETE STEM WALL ON EXTERIOR WITH FORM PROTECTED WITH FLAT COLORED STEEL LAMINATED TO THE FORM
- \* SIDEWALL <sup>HYDRAULIC</sup> SWING DOORS: (4) 40' x 18'-9" WITH STEEL I-BEAM HEADERS, (1) 25' x 18'-9" WITH LVL HEADER,
- \* ENDWALL HYDRAULIC SWING DOORS: (4) - 30'-6" x 20'-11" UNDER CABLE TRUSS & (2) 18'-3" x 14'-6"

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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:

N/A

HERS Index (residential projects): N/A

Blower door test results (ACH50) (residential projects): N/A

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

Describe the HVAC system used on the project:

— SEE SEPERATE SHEET FROM HVAC CONTRACTOR —

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.

\* R-40 BLOW-IN CELLULOSE ATTIC INSULATION  
\* PERIMETER INSULATION CONSISTING OF 1 1/2" EXPANDED POLYSTYRENE FORM WITH  
29ga. galv. <sup>PRINTED</sup> STEEL LAMINATED TO THE FORM R-6

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

\* (4) 20" DIAMETER "BIG ASS FANS" (BRAND NAME) CEILING FANS - (2) IN THE WASHBAY  
& (2) IN THE SHOP. USED TO KEEP THE TEMPERATURE EVEN BETWEEN THE  
FLOOR & CEILING. AUTOMATICALLY SPEED UP & SLOW DOWN TO DO SO.  
\* SHOP HAS LED LIGHTING  
\* IN FLOOR HOT WATER HEAT

Were any solar panels installed on the project? If so, indicate the size of the system: NO

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Name/Address	
Jay Clasing 3847 350th Ave. Ruthven, IA 51358	<u>JADE FARMS</u>

Date	Estimate No.	Project
03/03/16	32	

Item	Description	Quantity	Cost	Total
HVAC parts	<p>The main heating system for the EPS building built by Chapman Builders for Jay Clasing, is all in floor radiant tube heating. There is over 50,000 feet of 5/8" oxygen barrier underground tubing that carries heat to 6 different zones through out the building, controlled by 6 different thermostats. The main heat sources for the tube heat are 3- 300,000 btu Weil McLain Ultra boilers. These boilers can run up to 94% efficiency, and have the ability to modulate up or down depending on heat load demand and outdoor temperature.</p> <p>In addition to the in floor heat in the truck wash, there are 4- 200,000 btu Schwank hanging, tube heaters, and 1- 175,000 btu Schwank hanging tube heater. These were installed to provide quicker recovery in the truck wash because of the doors opening and closing so much.</p> <p>In front of the office there is a 15 x 45 cement patio. For this patio there is a high efficient (96%) Navien boiler installed only for the use of snow melt. It is designed so that if a snow storm is approaching, this boiler will be manually turned on, it will run for a pre determined amount of time, and then automatically shut off once the need for melting snow is no longer there.</p> <p>The offices, bathrooms, and break room are cooled</p>		0.00	0.00T
			Total	

Name/Address
Jay Clasing 3847 350th Ave. Ruthven, IA 51358

Date	Estimate No.	Project
03/03/16	32	

Item	Description	Quantity	Cost	Total
	by Daikin ductless, mini split air conditioners. There are 2- 5 ton units outside that distribute freon to one or all of the 6 indoor head units depending on which area has a need for cooling. Each head unit can be controlled individually. The modulating, inverter compressors on the outside units can reach a seer (Seasonal Energy Efficiency Rating) rating of up to 21. Most units in the average house is 10 to 14. Sales Tax		0.00%	0.00
<a href="http://www.epsbuildings.com">www.epsbuildings.com</a>				
Total				\$0.00