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PARTICIPANT INFORMATION

Company Name: Energy Panel Structures

Contact Name: Chris Spaeth

Address: P.O. Box 238

City: Grapplinger

State: Iowa

Zip: 51342

Phone: (800) 967-2130

Email: cspaeth@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: Silvio Middle School

Address: 4280 - 4th Avenue

City: East Moline

State: IL

Zip: 61244

Date completed: 6/1/2012

Total cost of project (exclusive of land): 13.5 million

Dimensions of building (all floors of multi-story building): 212 x 324 Sidewalks ranged from 14' to 34'

* See blueprints

Asking price/purchase price (Affordable Housing only):

Total sq. ft. of conditioned space: 52,600

BUILT BY (if different than applicant)

Company Name: Estes Construction

Contact Name: Stephen Frock

Phone: (563) 322-7301

Address: P.O. Box 3608

City: Davenport

State: Iowa

Zip: 52808

PANELS MANUFACTURED BY (members only)

Company Name: Energy Panel Structures

Continued

DESIGNED BY (if different than applicant – SIPA will only recognize members)Company Name: BLOD ArchitectsContact Name: John MaynrichPhone: (309) 828-5025Address: 201 E GRAY ST.City: BloomingtonState: IllinoisZip: 61701**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 is a Middle School.

How did SIP construction help you get this job? The state of Illinois requires publicly funded projects to achieve a LEED silver certification or a Green Globes 2 rating. The energy efficiency of SIP's enabled the architect to meet the high R-value requirements of the Green Globes program.

SIP wall thickness and core material: 8 1/4" EPSSIP roof thickness and core material: 10 1/8" EPS

Describe the benefits of using SIPs on this project. Did SIPs help save time, labor, construction costs, or energy? The SIPs were more cost effective than the other types of construction considered for the project. They were installed in 4 weeks which was considerably less than what other methods would have required. It was estimated that this building design would save the school district approximately 30% of their total electric bill. This made the project eligible for rebates from the local utility company.

Describe any innovative design elements or structural engineering involved: The panels were installed over structural steel, the building design utilized different wall heights and roof lines.

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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:

Green Globes 2

HERS Index (residential projects):

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

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

Describe the HVAC system used on the project:

Geothermal heat pump with variable frequency.

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.

Window U-values 0.29 Winter Nighttime 0.27 Summer Daytime
R-33 SIP Walls
R-40 SIP Roof

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

The building design allows for natural daylight in the classrooms, lighting controls dim lighting when adequate natural light is present. The project also achieved a lighting design that is 10% more efficient than required.

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

N/A

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

The project utilized recycled steel for the structural framework.

Any additional comments on the project:

SIPs were a Key element in meeting the energy efficiency requirements, the budget, and the construction schedule on this 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:

3/8/13

Entries that do not contain all required materials or are received after March 12, 2013 will not be considered

Complete application and submit electronically to info@schwindcommunications.com

Or send hard copy applications to SIPA office:

P.O. Box 1699 Gig Harbor, WA 98335
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