

# Application (Page 1 of 4)

## PARTICIPANT INFORMATION

Company Name: Energy Panel Structures

Contact Name: Lee Bergum

Address: 516 Woodley St East

City: Northfield State: MN Zip: 55057

Phone: 612-499-0756

Email: lbergum@epsbuildings.com Website: www.epsbuildings.com

## CATEGORY ENTRY (check one category)

- |   |  |
|---|--|
| <input type="checkbox"/> Single Family Homes (over 3,000 sq. ft.) | <input checked="" type="checkbox"/> Commercial/Industrial/Institutional Buildings under 10,000 sq. ft. |
| <input 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: Cedar Food and Grill

Address: 2600 Cedar Ave S.

City: Minneapolis State: Mn Zip: 55406

Date completed: 2-2012

Total cost of project (exclusive of land): \$400,000

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

<u>Basement 26 x 92</u>	<u>First Floor 48x93</u>	<u>Second Floor 48 x 48</u>
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Asking price/purchase price (Affordable Housing only):

Total sq. ft. of conditioned space: 9112 sq ft

## BUILT BY (if different than applicant)

Company Name: Blue Construction

Contact Name: Aaron Day Phone: 612-396-0933

Address: PO Box 6630

City: Minneapolis State: Mn Zip: 55406

## PANELS MANUFACTURED BY (members only)

Company Name: Energy Panel Structures

Continued

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

Company Name: D J R Architects

Contact Name: \_\_\_\_\_

Phone: 612-676-2700

Address: 333 Washington Ave N

City: Minneapolis

State: MN

Zip: 55401

**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:

This is a small inner city grocery store that serves many local people, it has a deli for small meals and sandwiches. The upper floor has 2 apartments.

How did SIP construction help you get this job?

Faster construction time, and lower energy costs, winter build, so temporary costs were lower. Able to do plywood exterior skin that was required by stucco installers and city of Minneapolis, MN

Priority on this job was the budget, They believe it is as efficient of a building as they can get and could be 110 sq ft

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

By using Sips they were able to expedite the construction process, as this building had previously burned down and they need to get back to operation as soon as they could, The SIP construction did this for them, Labor was also a savings as it went up about 2 weeks faster, The owner was concerned about previous energy costs, and this was to help him save on those, As a small business owner he needs to save where he can.(letter of testimonial attached)  
he currently saves at least 15% per onth in energy costs

Describe any innovative design elements or structural engineering involved:

Able to supply plywood exterior skin to specs of stucco firm and City of Minneapolis MN

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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:

HERS Index (residential projects):

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

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

Describe the HVAC system used on the project:

The Cedar Foods project is heated by a Carrier RTU with econmizer, and a 2- Carrier 92% efficient natural gas split system. we were able to spec. smaller heating and cooling units because of the high insulation value and tightness of the panels. The kitchen has a Captivaire hood system that features a 100% efficient natural gas make up air unit.

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.

Anderson 100 series composite windows with Smart Sun Glass U-29

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

All of their projects they work with vendors and suppliers within 500 miles to help with environmental and ensure green building.

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

N/A

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

They use at least 75% or more FCS certified wood products and in this case recycled a minimum of 70% of construction waste. We also selected and used low VOC adhesives sealants, and paint products to optimize indoor air quality

Any additional comments on the project:

This was built on an inner city lot, the pre-engineering and construction of panels allowed same day delivery when needed and the panels were able to be place on the foundation, not taking up valuable space around the building. The area around the building was very tight.

### 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: Lee Bergum

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](mailto:info@schwindcommunications.com)

Or send hard copy applications to SIPA office:

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



Structural Insulated  
Panel Association

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[www.sips.org](http://www.sips.org)

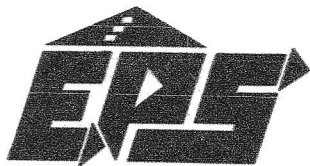
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The Cedar Foods building is heated by a Carrier RTU with economizer, and (2) Carrier 92% efficient natural gas split systems. These systems are not bad, but there are more efficient heating and cooling plants out there. We were able to spec smaller heating plants because of the high insulation values that the building has. The kitchen has a Captivaire hood system that features a 100% efficient natural gas makeup air unit. Priority No. 1 with this building was the budget. I believe it is as efficient as a building that has a grocery store and restaurant in it can possibly be for \$110/sf.

As in all of our projects, we give material suppliers and vendors within 500 miles of our area preference to minimize resources used in transportation. We used at least 75% or more FSC certified wood products, and in this case recycled a minimum of 70% of construction waste from the job site. We also selected low VOC adhesives, sealants, and paint products to optimize indoor air quality.

Landscaping featured drought tolerant indigenous plantings and a bioswale to help infiltrate stormwater runoff.

Aaron (AJ) Day, LEED AP  
Blue Construction Inc.  
Ph (612) 396-0933



AN EMPLOYEE-OWNED COMPANY

[www.epsbuildings.com](http://www.epsbuildings.com)

*Energy Panel Structures, Inc.*

Cedar Foods & Grill  
2600 Cedar Ave  
Minneapolis MN  
Building Type, Commercial  
Grocery & Food Grill  
Mohd Wadi-Owner

I am very satisfied with the type of construction I chose for my store. Using SIP panels was an easy decision, I was able to complete my project 2 weeks faster and use my custom design. My major concern was timeframe, as an owner of a business, when you are not open you are not making a living. So for me to be able to complete my project 2 weeks quicker was 2 weeks of income. The SIP panel construction has also reduced my heating and cooling costs by 15%. That is a savings I will have for the life of the building. Being a small business you are always looking for ways to save and utility costs are a big part of that so 200-300 per month is great. My builder (Blue Construction) referred me to panels and that was great advice.

This is truly better than the old way of framing, my return on investment is great.

I would recommend SIP panel construction to all who intend to build

Respectfully

Mohd Wadi