

Application

PARTICIPANT INFORMATION

Company Name: ENERGY PANEL STRUCTURES

Contact Name: LEE BERGUM

Address: 102 EAST INDUSTRIAL ROAD BOX 238

City: GRAETTINGER

State: IOWA Zip: 51342

Phone: 1-800-967-2130

Email: lbergum@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

☐ Institutional / Industrial / Commercial

☐ Renovations

☐ Affordable Housing

PROJECT INFORMATION

Project Name: COVENTRY SENIOR LIVING

Address: 720 MAHTOMEDI AVE.

City: MAHTOMEDI

State: MN Zip: 55115

Date completed: 12-12-11

Total cost of project (exclusive of land):

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

3 STORY 48 LIVING UNITS WITH GENERAL AREA INTERIOR

Asking price/purchase price (Affordable Housing only):

BUILT BY (if different than applicant)

Company Name: STONE CONSTRUCTION

Contact Name: JOHN WEBER

Address: 2181 107TH LANE NE

City: BLAINE

State: MN Zip: 55449

PANELS MANUFACTURED BY (members only)

Company Name: ENERGY PANEL STRUCTURES

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

Company Name: DBA ARCHITECTS

Contact Name: RICH MUNSON & DON BAKER

Address: 7300 HUDSON BLVD N

City: ST PAUL

State: MN Zip: 55128

Please answer each question with as much detail as possible.

Attach additional pages if necessary.

Describe the end use of the building:

SENIOR LIVING COMPLEX

How did SIP construction help you get this job?

WE WERE ABLE TO SELL THE ENERGY EFFICIENCY ALONG WITH DECREASE IN OFF GASSING, THE LABOR SAVINGS WAS ALSO A LARGE PORTION, ALONG WITH ENCLOSURE TIME TO GET THE BUILDING WEATHER PROOF

Continued

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

SIP wall thickness and core material: 6" EPS

SIP roof thickness and core material: 10" EPS

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

HELP CONTROL CONSTRUCTION COSTS FROM THE LABOR ASPECT AS WELL AS THE UTILITIES AS THIS WAS STARTED IN FEB 2011, WITH WINTER WEATHER CONDITIONS AND A WET SPRING BEING ABLE TO "CLOSE THIS BUILDING SOONER. THE BUILDING HAS A LOT OF CORNERS SO TO BE ABLE TO PRECUT PANELS IN SHOP AND CONTRAOLLED CONDITIONS GREATLY ENHANCED THIS PROJECT.

Describe any innovative design elements or structural engineering involved:

ANDERSON 100 SERIES WINDOWS WITH SMART SUN GLASS, WHISPER GREEN EXHAUST FANS, SEALED DUCTWORK, FLAT-ROOF SYSTEM

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:

ENERGYSTAR

HERS Index (residential projects): 48

Blower door test results (ACH50) (residential projects): AVG 240 CFM @ 50

Describe the HVAC system used on the project:

AIR SOURCE HEAT PUMP, ELECTRIC, 16.0 SEER FUEL FIRED HYDROPONIC DISTRIBUTION, NATURAL GAS 96.1% EFF.

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

HOT WATER HEAT IN FLOORS; VENTILATION SYSTEM AIR EXCHANGE WITH 20 CFM AT 5.0 WATT EXHAUST FANS

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:

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

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

LOW VOC PAINTS AND CARPETS.

Any additional comments on the project:

THIS PROJECT WITH THE EFFICIENCIES NOTED ENABLE US TO SELL ANOTHER EVEN LARGER PROJECT WITH PANELS THAT IS UNDER CONSTRUCTION NOW.

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: 3-15-12

Home Energy Rating Certificate

720 Mahtomedi Ave
Mahtomedi, MN 55115



**5 Stars Plus
Confirmed Rating**

Uniform Energy Rating System

1 Star	1 Star Plus	2 Stars	2 Stars Plus	3 Stars	3 Stars Plus	4 Stars	4 Stars Plus	5 Stars	5 Stars Plus
500-401	400-301	300-251	250-201	200-151	150-101	100-91	90-86	85-71	70 or Less

Energy Efficient

HERS Index: **48**

General Information

Conditioned Area: 352 sq. ft.
Conditioned Volume: 3168 cubic ft.
Bedrooms: 1

House Type: Apartment, inside unit
Foundation: Slab

Mechanical Systems Features

Heating: Fuel-fired hydronic distribution, Natural gas, 96.1 % EFF.
Water Heating: Integrated, Natural gas, 0.95 EF, 150.0 Gal, R-10 wrap.
Cooling: Air-source heat pump, Electric, 16.0 SEER.
Duct Leakage to Outside: NA
Ventilation System: Exhaust Only: 20 cfm, 5.0 watts.
Programmable Thermostat: Heating: Yes Cooling: Yes

Building Shell Features

Ceiling Flat: NA Exposed Floor: NA
Vaulted Ceiling: NA Window Type: And100smartsun
Above Grade Walls: R-28 Infiltration:
Foundation Walls: NA Rate: Htg: 361 Clg: 361 CFM50
Slab: R-26.0 Edge, R-15.0 Under Method: Blower door test

Lights and Appliance Features

Percent Interior Lighting: 100.00 Range/Oven Fuel: None
Percent Exterior Lighting: 0.00 Clothes Dryer Fuel: None
Refrigerator (kWh/yr): 400.00 Clothes Dryer EF: 3.01
Dishwasher Energy Factor: 0.00 Ceiling Fan (cfm/Watt): 0.00

The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

REM/Rate - Residential Energy Analysis and Rating Software v12.97

This information does not constitute any warranty of energy cost or savings.

© 1985-2012 Architectural Energy Corporation, Boulder, Colorado.

Registry ID:

Rating Number: 10076

Certified Energy Rater: Donald Jahnke

Rating Date: 12-13-2011

Rating Ordered For: Senior Properties of Mahtomedi

Estimated Annual Energy Cost

Confirmed Rating

Use	MMBtu	Cost	Percent
Heating	4.1	\$29	6%
Cooling	0.8	\$23	4%
Hot Water	9.2	\$66	13%
Lights/Appliances	6.6	\$178	35%
Photovoltaics	-0.0	\$-0	-0%
Service Charges		\$209	41%
Total		\$504	100%

This home meets or exceeds the minimum
criteria for all of the following:

Home Energy Rating Provider

EnergyLogic, Inc

P.O. Box N

Bethoud CO 80513

800.315.0459

970.532.5074

