



Structural Insulated Panel Systems

Panelworks Plus, Inc. 4861 Ambassador Blvd NW St. Francis, MN 55070

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To: SIPA

Re: Building Excellence Awards Application – Ellen & Nancy Johnson Residence

Additional information

1. Describe end use of building

Single family residence

2. How did SIP construction help you get this job?

The owner had previously built a very energy efficient home with a wood foundation. Our ability to provide SIPs for not only the upper walls but also the foundation was exactly what she was looking for. (See attached letter from the owner).

3. Specify unique features of why the project is deserving of recognition.

The basement was constructed with 8-1/4" SIP walls (Treated plywood skins) that were 10' tall allowing the floor trusses to be set in top mount hangers thereby eliminating the entire rim area. This construction method was also used between the main level and second story of the home.

4. What energy efficient or green building products and / or techniques were incorporated into the building?

In addition to the SIP walls, the following were implemented in this new home.

1. Ground source heat pump 3.1 COP heating and 16.2 EER cooling.
2. 95% AFUE natural gas furnace (used for backup only and as an air circulator).
3. Extruded fiberglass framed high efficiency windows with E coating tuned to the orientation of the home.
4. Fiberglass entry doors – high R value.
5. Open floor plan designed to benefit from passive solar design.
6. Zero VOC paints and cabinets.
7. Wood floors (Carpet on stairs only).
8. American Clay interior finishes in public areas.
9. LP Smart Side exterior siding.
10. Native plantings used extensively in exterior landscaping.

This home received a rating of 5 Stars Plus with a HERS score of 38.

5. Additional comment – All of the SIPs used in the basement and upper levels were installed by SIPA member – Panel Setters Plus, Inc. of Andover, MN.

Curt Stendel
Panelworks Plus, Inc.

