



Schroeder Residence

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Participant information

Extreme Panel Technologies, Inc.
Perry Penske
PO Box 435
Cottonwood, MN 56229

Phone: 800-977-2635
Email Address: josh@extremepanel.com
Website: www.extremepanel.com

Category
Single Family Homes (over 3,000 sq. ft.)

High Performance: No

Project information
Schroeder Residence
7829 85th St NE
Elgin, MN 55932

Date Completed: May 2018

Total cost of project (exclusive of land): n/a

Dimensions of building (all floors of multi-story building): 20'x238'

Asking price/purchase price (Affordable Housing only): n/a

Total sq. ft. of conditioned space: 4,500 sq. ft.

Built By (if different than applicant)
Kreofsky Building Supplies
: Bob Keppen
865 Enterprise Drv SW
Plainview, MN 55964

Panels Manufactured By
Company Name (members only): Extreme Panel Technologies, Inc..



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Designed By (if different than applicant - SIPA will only recognize members)
Extreme Panel Technologies, Inc.
PO Box 435
Cottonwood, MN 56229

Total sq. ft. of conditioned space: 4,500 sq. ft.

Describe the end use of the building: The building is a single family home that was designed in the shape of a horse shoe.

How did SIP construction help you get this job? Having a pre-cut SIPs package for this project was the only way to build it and not second guess how long to build the next wall section. By using panels for the roof along with the walls extra headroom was gained making the home feel bigger by not needing extra support under the panels.

SIP wall thickness and core material: 6 1/2" walls with EPS foam
SIP roof thickness and core material: 12 1/4" roof with EPS foam

Describe the benefits of using SIPs on this project. Did SIPs help save time, labor, construction costs, or energy? By having a complete pre-cut SIP package from Extreme Panel Technologies days were taken off the build time for this project. Having all of the panels perfectly beveled at the top and the sides to match the radius of the horse shoe design made putting the project together a breeze. Days saved on labor in turn saved the customer a lot of money on the total construction cost as compared to stick framing. Coming back with a blower door result of .58 ACH 50 the mechanical systems were able to be downsized and will result in much less utility cost than if it were conventionally built.

Describe any innovative design elements or structural engineering involved: The whole design of this house is creative. This is a case of if you can dream it, you can build it. SIPs make this possible. The customer sitting in his SIP shop and office at his desk, saw a horse shoe laying on the desk and not knowing how it got there started thinking he wanted to build his house to look like a horseshoe. He came to Extreme Panel Technologies with nothing more than a piece of paper with a drawing that resembled a horseshoe. After working with a designer to give a more workable set of plans, panel drawings were made and panels were produced. Given the complexity of the project with all of the segmented walls, special care had to be taken in manufacturing that the correct bevels were cut so the panels would come together correctly and everything lines up.

Please list any certifications the project received, such as ENERGY STAR, LEED, National Green Building Standard, WELL, Passive House, Green Globes or local green building programs. Only list certifications that are completed: n/a

HERS Index (required only for High Performance Category and recommended for residential projects): n/a

Blower door test results (ACH50) (required only for High Performance Category and recommended for residential projects): 0.58 ACH50

Energy use intensity in kBtu/ft² (required only for High Performance Category and recommended for commercial projects): n/a

Describe the HVAC system used on the project: Radiant in-floor heat and mini splits are used for heating and cooling the house.

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Describe any other energy-saving materials used in the building envelope other than SIPs. List U-values of windows used and the U or R-value of any insulation materials. (judged only for High Performance Category) n/a

Please list any energy-efficient products or design features, such as lighting, hot water heating, appliances, passive solar (judged only for High Performance Category): n/a

Were any solar panels installed on the project? If so, indicate the size of the system (judged only for High Performance Category): n/a

Exterior front

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Aerial site view

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Interior Kitchen

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Interior Kitchen

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