



NEW

High Performance Consideration



Fragodt Residence

Fragodt Residence



Participant information

Extreme Panel Technologies, Inc.
Josh Fragodt
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: Yes

Project information

Fragodt Residence
Northwood Drive
Cottonwood, MN 56229



Date Completed: 04/28/2017

Total cost of project (exclusive of land): \$330,000

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

32' x 52' with a 8' x 12' bump out - basement and main floor, 40' x 36' garage

Total sq. ft. of conditioned space: 4,960 sqft

Built By (if different than applicant)

Schmidtybuilt Construction
Jon Schmidt
PO Box 281
Cottonwood, MN 56229

Panels Manufactured By: Extreme Panel Technologies, Inc.

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: 4,960 sqft



Fragodt Residence



Describe the end use of the building:

A home my family will enjoy for years to come

How did SIP construction help you get this job?

I sell SIPs for Extreme Panel - I better use them :)

Wouldn't do it any other way!

SIP wall thickness and core material: 6-1/2"

SIP roof thickness and core material: 12-1/4"

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

We dug a hole to build my house in December of 2016. We wouldn't have been able to build it any other way. Speed of construction and quickly enclosing the envelope allowed the build to get to workable temperatures quickly, thus keeping my project moving along even during January in Minnesota.

My lower energy bills are also really awesome!

Describe any innovative design elements or structural engineering involved:

I did a full SIP Foundation System for my house and also full SIP Frost Footings for my garage that is 40' x 36'

I also chose Starwood Rafters in my garage to give it a different twist along with the vaulted ceilings.

HERS Index (required only for High Performance Category and recommended for residential projects): 41

Blower door test results (ACH50) (required only for High Performance Category and recommended for residential projects): .36

Energy use intensity in kBtu/ft2 (required only for High Performance Category and recommended for commercial projects): 103

Describe the HVAC system used on the project:

I did a full Ductless heating and cooling system for my house.

Radiant in floor heat for my basement, main level and garage.

Mini-Splits for my air conditioning and back up heat system.

Panasonic Spot-ERV's for my Air Exchange.

Panasonic Whisper Green Bath Fans that have motion & humidity sensors in them.

Fragodt Residence



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)

Hayfield Windows - U-Values = .28

Full Sips Foundation System - R-32

Separate generator plug-in for power outages that can run everything I need.

Full ductless heating and cooling system

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

Illumigreen LED lights for my entire house.

On demand water heater that runs through my boiler system.

All appliances are brand new and are energy star rated.

Front elevation view

Fragodt Residence



Kitchen area

Fragodt Residence



Starwood rafters

Fragodt Residence



SIP foundation install

Fragodt Residence



Basement living space

Fragodt Residence



Radiant heating

Fragodt Residence



Radiant heat and hot water system

Fragodt Residence

