

Project #52 – Classic



Wahlstrand Residence

Wahlstrand Residence



Participant Information:
Taiga Design+Build
Anton Moody
326 Gunflint Trail-1428
Grand Marais, MN 55604
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Category: Single Family Homes under 3,000 sq. ft.

Project Information:
Wahlstrand Residence
1868 E Hwy 61
Grand Marais, MN 55604

Date completed: 12/1/21

Dimensions: 40x28

Total sq. ft.: 1,028 sq ft

Built by:
Taiga Design+Build
Anton Moody
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Grand Marais, MN 55604
218-370-0944

Panels Manufactured by: Energy Panel Structures

Designed by:
Taiga Design+Build
Anton Moody
326 Gunflint Trail-1428
Grand Marais, MN 55604
218-370-0944



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Building use:
Private residence

How did SIP construction help you get this job?

Been a believer in SIPs since being introduced to them, Pre-engineering is great. Ease of installation, air tightness, less sealing than conventional framing

SIP wall thickness: combination of 6" Neopor R-28 and 8" Neopor R-38
SIP roof thickness: 10" Neopor R-49

The benefits of using SIPs on this project:

Saved time, panels enabled this project to get closed in faster, less utility costs during build.

With this home being in northern MN, Energy efficiency as well as air tightness were attributing factors.

HERS Index: Estimated 30

Blower door test results: 1.05 ACH50

HVAC System:

Heating: Dual fuel, in-floor, radiant heat. Primary heat source for the hydronic fluid is an interruptible Slant Fin Monitron electric boiler (100% efficient). The secondary source is a Navien propane boiler (95% efficient) which also serves as a secondary source of domestic hot water. EcoTech air exchanger provides outside air

Additional energy-saving materials used in the building envelope:

Marvin Signature Windows and Doors, U-27.

Additional energy-efficient products or design features, such as lighting, hot water heating, appliances:

98% efficient on demand domestic water heater, radiant heat, all LED lighting, Energy Star rated appliances

Additional sustainable materials or design features:

End grain Wood floors (kaswellflooringsystems.com)



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