

# Single Family Homes

Residential under 3,000 sq. ft.

## Breckenridge Sisters Cabin

Extreme Panel Technologies, Inc.

Perry Penske

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**Structural Insulated  
Panel Association**

## 2019 Winner



**Extreme Panel Technologies**  
**Perry Penske**  
**Breckenridge Sisters Cabin**  
**Breckenridge, CO**



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**SIP wall thickness:**  
6 1/2" walls with EPS foam

**SIP roof thickness:** 12 1/4" roof  
with Neopor foam



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**Project information:**

Breckenridge Sisters Cabin  
Breckenridge, CO 80424

**Date Completed:** October 2018

**Dimensions of building:** 41'x45' main level, 30'x32' upper level

**Total sq. ft. of conditioned space:** 2,316 sq.ft.

**Built By:**

Colorado Timberframe  
Shawn Nohava  
1005 S 120th St Suite 101  
Lafayette, CO 80026

**Designed by and Panels Manufactured by:** Extreme Panel Technologies, Inc.

The Sisters Cabin is used only in the winter months and is rented to outdoor enthusiasts to rest and relax after venturing around the north flank of Bald Mountain. It is a snow shoe and skiing only destination.

SIPs were specified because of the energy efficiency they provide and the speed of construction during a limited build season on top of Bald Mountain. The panels had to be flown to the top of the mountain via a Black Hawk helicopter. Using jumbo panels from Extreme Panel Technologies reduced the number of loads that the helicopter had to make to deliver to the site, and helped make completing the project before winter possible.

SIPs were used for the floor, walls and roof panels on the Sisters Cabin. Because of the shortened building season on top of Bald Mountain SIPs saved time and labor during construction. Also panels had to be flown to the top of the mountain to the build site.

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The Sisters Cabin has a Timber Frame that is providing the structural support and using SIPs to wrap the frame creates an extremely tight envelope. Because of the 100 pound snow load and 115 mph wind load on top of the mountain, hold down and fastening schedules were adjusted. This along with the timber frame helped to provide the necessary engineering elements needed.

This building is completely off the grid. It has solar panels, composting toilets and a complete integrated water system using natural resources. This cabin was listed among the top ten places to sleep in the mountains in the world according to Outside Magazine.

To read more about the summit huts and their history go to [www.summithuts.org](http://www.summithuts.org)



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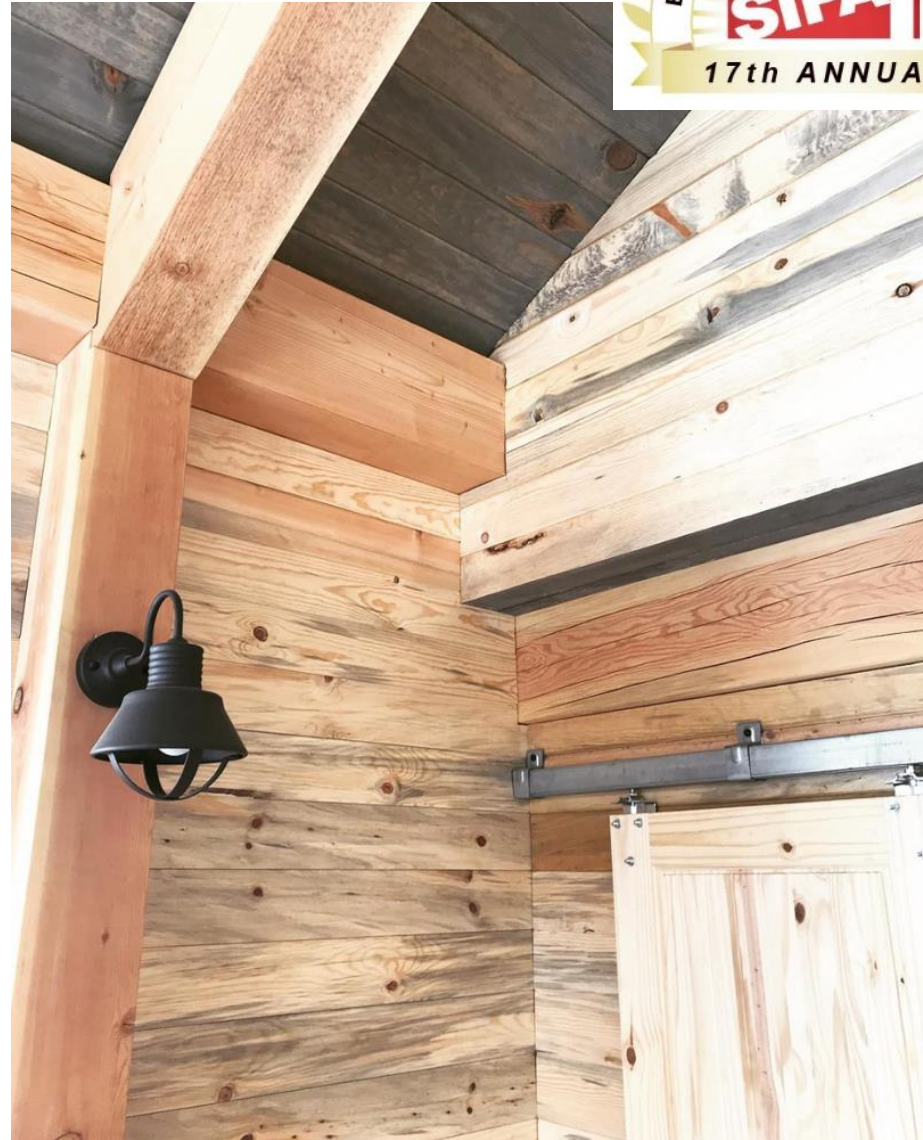




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