

CASE STUDY:
HELL ROARING RANCH AIR HANGAR



BOLDLY GOING WHERE NO ICFS HAVE GONE BEFORE; A REMOTE AIR HANGAR

Hell Roaring Ranch, Stanley, ID



Challenge

This unique air hangar is the first of its kind in terms of ICF applications. The design of this building was not intended to stand out, but to conform and fit its environment. With beautiful wood and stonework exterior finishes and the steep rake of the roof down to the embankment in which the hangar is nestled, the building elegantly blends into the beautiful Idaho surroundings without being obtrusive.

The build had to contend with a structure that was completely raked which required temporary support for an unsafe wall. This was solved by using Fox Blocks as the plastic struts built into the forms keep the blocks from sinking. The ICF created the perfect slope when pouring from 12' back down to 2' in elevation, and made this project possible even in the remote harsh environment.

The project site itself presented one of the largest hurdles this build had to overcome. Being extremely remote (three hours from the nearest batch plant) and completely snow-bound in the winter, construction time and transport of materials had to be incredibly efficient. Thanks to the light weight of Fox Blocks ICF, the delivery trailer was not as limited and encumbered on the rough roads as it would have been with heavier traditional materials.

Project Highlights

**2021 ICF Builder Awards
Light Commercial 1st
Runner-Up**

Extremely remote build

**Small window of time to
complete build**

**Harsh Climate - High
Elevation - Snow Bound in
Winter**

Project Stats

Location: Stanley, ID

Industry: Aircraft Hangar

Size: 4,500 sq. ft. (floor)

ICF Use: 6,000 sq. ft.

Cost: \$1,100,000

Total Construction: 30 weeks

ICF Installation Time: 24 days



Sustainability

Stanley Idaho is one of the coldest places in the lower 48. This structure is heated year round so the efficiency of the exterior wall had to be high performance in order to minimize energy bills which made Fox Blocks the perfect solution.

Timing

The remoteness of the project (3 hours from a batch plant) made it a perfect fit for Fox Blocks. Masonry was a consideration initially, but with additional timing delays to account for bringing in a forklift and heavy scaffolding and the potential for winter build with additional costs for heating that option had to be eliminated. For this project location and timing, Fox Blocks ICFs were the only option.

Budget

The owner was thrilled that the hangar could be constructed stronger and faster with Fox Blocks and is completely satisfied with the finished project. If winter showed up early, other construction mediums, such as masonry, would add additional costs for heating the building, which wasn't an option with the owner's budget. The ICF install was completed before the snow came and within budget, the mark of a successful build in a remote location.



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