

CASE STUDY: ADAM GEHRING RESIDENCE



THE HOUSE BUILT ON A ROCK

Adam Gehring Residence, Vernal, UT

Challenge

This project is an incredible demonstration of building creatively with ICF. The home owner took a year away from his construction business to build his own home in a privately owned canyon. Building into the side of a rock canyon wall came with many complexities and opportunities. The builders utilized the material at hand and used the natural rock wall of the canyon as the wall for the shower area and parts of the living room. A curved stone wall was matched by a curved staircase following the rock to the upper levels of the home. Utilizing the natural resources to inform a modern home design was made possible with handcrafted perfectly-fit ICF forms.

Every aspect of the construction had to contend with the unique location the residence was being built on. The build site was only accessible by a small dirt road after exiting the highway so the ICF was off-loaded on the highway and brought in by smaller trucks. The ease at which the expanded polystyrene insulation of the ICF was able to be shaped to the natural rock was by far the greatest benefit of building with ICF and made building on this site possible. Expert craftsmanship was displayed in the ability to seal and anchor the material within the rock wall. The curves in the canyon rock required drilling and epoxying dowels into them to fasten the ICF walls. This attention to detail ensures the residents won't have to contend with moisture or mold issues.

Project Highlights

One-of-a-kind home built in a private canyon 5 miles north of Vernal, UT

Design uses rock wall for interior walls

ICF was hand crafted to fit within the space of the rock

Locally known as the "House Built on a Rock"

Project Stats

Location: Vernal, UT

Industry: Large Residential

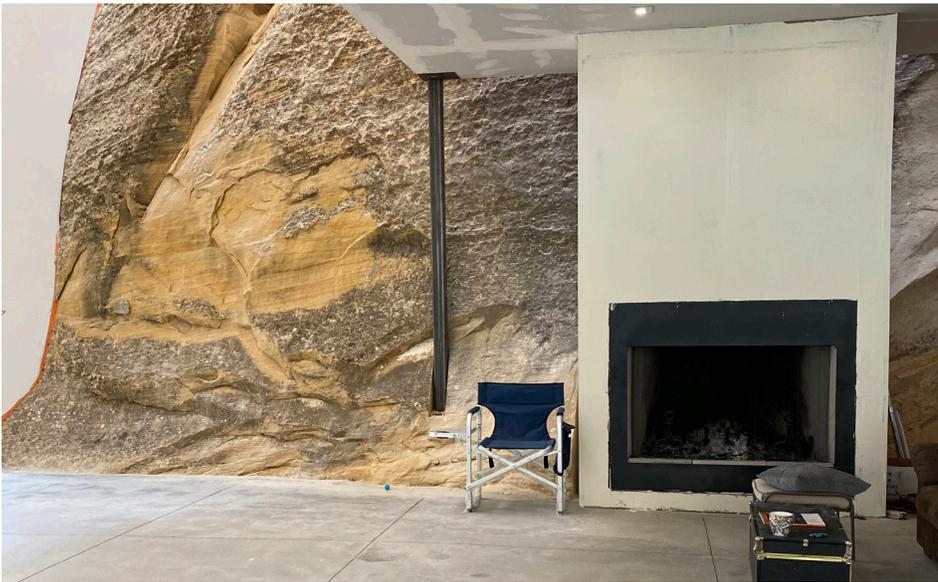
Size: 4,000 sq. ft. (floor)

ICF Use: 2,549 sq. ft.

Cost: \$365,000

Total Construction: 70 weeks

ICF Installation Time: 90 days



Sustainability

Building with ICF had multiple benefits in creating a long-term sustainable residence. The house is built in a region that experiences a wide range of temperatures every year; from below 0 degrees Fahrenheit up to 100 degrees. The design includes radiant floor heating and even with large windows and doors the 4,000 square foot home has heating costs similar to many smaller conventionally built homes in the area, thanks to ICF. The lower floors built with ICF blocks do not require any cooling at all.

Budget

On this project the building cost was similar to regular building systems but the insulation and wall strength is far superior leading to lifetime savings for the owner. The Gehring's are completely satisfied with the end result and project budget.

Timing

Despite the difficult site, and the unique design challenges presented by building directly into a canyon, the ICF construction process still proved to be incredibly efficient. One month of build time was saved by building with Fox Blocks ICFs.



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