Teton Village

Application

27,648 cubic feet of Foam-Control® EPS29 Geofoam was used to reduce the lateral pressures on a new home’s foundation in the hillside residential community of Teton Village, Wyoming.

Project Details

A contractor building a new mountain home in Teton Village, Wyoming began excavating a hillside construction site and quickly discovered water seeping out of the soil, indicating there would be significant lateral pressure on the foundation. With some foundation walls as high as 30’ tall, builders knew they would either need to increase the thickness of the concrete foundation substantially or reduce the lateral pressures from the surrounding slope.

Calculations on the cost of developing a concrete foundation thick enough to support the home while also acting as a retaining wall against the hillside pressure revealed cost overruns that would push the already contracted project substantially over budget. As an alternative, the structural engineer suggested the use of ACH Foam Technologies’ Foam-Control® Geofoam.

The Foam-Control® Geofoam blocks were stacked against the side of the foundation in an inverted pyramid pattern with the layers increasing in thickness from the base to the top. This allows the Geofoam to reduce the lateral pressure of the hillside against the foundation without adding tremendous cost to the project.

Geofoam

Teton Village
- Teton Village, WY
- Spring 2015
- Foam-Control® EPS29 Geofoam Foundation Protection Fill
- 27,648 Cubic Feet

Contractor
Dembergh Construction

Engineers
Nelson Engineering
Jorgensen Geotechnical