Application

2,500 cubic feet of Foam-Control® EPS46 Geofoam was used as floor elevation fill for the new rooftop planetarium at Jenks High school in Jenks, Oklahoma.

Project Details

Administrators of Jenks High School decided it was necessary to provide their students with a cutting-edge rooftop planetarium at the new Math & Science facility. The project called for a 6" thick finished concrete slab, elevated 12" above the concrete roof slab, which would serve as the finished floor of the rooftop planetarium. 6" of Foam-Control® EPS46 (18.6 psi) Geofoam provided the void fill needed for the elevated floor slab, a 60’ diameter circle with a 16’ wide connecting hallway.

Circular trenches were cut into the Foam-Control® Geofoam to achieve thicker slab areas which provide the support for the inner planetarium dome. According to Bob Tolomeo, Project Manager, Lithko Contracting, Inc., “The availability, cost and ability to order the foam in full 6” thicknesses aided Lithko in maintaining the desired construction schedule.” Bob added, “Due to the cutting that was needed to achieve the circular shape and trenches, the single layer of EPS46 made placement much easier.” The use of Foam-Control® Geofoam also helped Lithko Contracting meet their LEED requirements.

The new 90,000 square foot Math & Science facility at Jenks High School was completed in the fall of 2010. 4’ by 8’ sheets of Foam-Control® Geofoam provided the void fill needed to elevate the floor slab. The Jenks dome is about 66’ in diameter, almost 26’ tall, and weighs 10,300 lbs.