

Jenks High School

Application

2,500 cubic feet of Foam-Control® EPS 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-inch thick finished concrete slab, elevated 12 inches above the concrete roof slab, which would serve as the finished floor of the rooftop planetarium. 6 inches of EPS Type 46 (18.6 PSI) Geofoam provided the void fill needed for the elevated floor slab, a 60-foot diameter circle with a 16-foot wide connecting hallway.

Circular trenches were cut into the Geofoam to achieve thicker slab areas which provide the support for the inner planetarium dome. According to Bob Tolomeo, Project Manager, Lithko Contracting, "The availability, cost and ability to order the foam in full 6-inch 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 EPS 46 made placement much easier." The use of EPS 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-foot by 8-foot sheets of EPS Geofoam provided the void fill needed to elevate the floor slab. The Jenks dome is about 66 feet in diameter, almost 26 feet tall, and weighs 10,300 pounds.

Geofoam

Jenks High School

- Jenks, OK
- Fall 2010
- Geofoam Floor Elevation Fill
- 2,500 Cubic Feet

Contractor

Bob Tolomeo
Lithko Contracting, Inc.

Architect

Michael Hall
gh2 Gralla Architects



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