A total of 3,840 cubic feet of Foam-Control® EPS15, EPS22, and EPS39 Geofoam was used as a lightweight structural fill for a pool and amenity lounge being built on top of a parking garage in Columbia, South Carolina.

Project Details

Extensive improvements to a student housing complex serving the University of South Carolina called for a new roof deck swimming pool and lounge area. Since the pool was being added between the top two floors of an existing parking garage, the contractor was challenged to think creatively about how to develop the desired shape and depths without adding any more weight than necessary to the parking structure.

Despite being so light weight compared to earth or concrete, ACH Foam Technologies’ Foam-Control® Geofoam’s compressive strength accommodated the full range of desired depths and even helped for the curved shape of the pool. After assessing the required fill density for each section of the pool, the contractor worked with ACH Foam Technologies to have Foam-Control® Geofoam independently cut to exact specifications. With the shallowest section of pool being a mere 8” deep and the deepest 42”, the project used three different densities of Geofoam to produce pieces ranging from 6” to 36” thick. EPS39 Geofoam was used to raise the ends of the pool to form a beach, while EPS22 Geofoam was used to form island tables and shape the lower perimeter of the pool. Finally, EPS15 Geofoam was used to form a ring for the gutter, which was removed after the gutter was formed in concrete.