87,200 board feet of Foam-Control® Tapered Roof Insulation was used in the construction of The Spire, a new residential high-rise located in Denver, Colorado.

Project Details

Spring 2009, construction of The Spire, a 42-story residential and commercial mixed-used building begins to take place. ACH Foam Technologies' Foam-Control® tapered roof insulation was selected for the project because of its ease of installation, ability to minimize the amount of materials needed, and for its material cost savings.

The entire roof system consisted of a cast-in-place concrete deck, followed by 3" of Polyiso, tapered roof insulation varying from 1/2" up to 12", 1/2" of Dens-Deck cover board, and a fully adhered 60 millimeter EPDM membrane on top.

Due to the height of the building and high winds, special requirements were needed for the installation of the roofing system. To meet the requirement, all insulation layers were adhered using Firestone’s I.S.O. Fix adhesive.

Foam-Control® insulation was also selected to contribute to the project's LEED credits due to the material containing post-industrial recycled content, ability to be easily recycled and its close manufacture to the jobsite. Unlike EPS, Polyiso cannot be recycled into new insulation materials.