



Roof, FOAMGLAS® TAPERED

Shard Tower, level 75, Building Maintenance Platform, London

Design Architects Renzo Piano Building Workshop
Executive Architects Adamson Associates, London
Main Contractor Mace; **Roofing Contractor** AC PLC
Construction 2012
Application Roof, FOAMGLAS® TAPERED, slab T4+
Finish Bitumen membranes

At 310 m, Shard Tower currently holds the title of Western Europe's tallest building; exposed to extremes of temperature the revolutionary structure sways up to 50 cm in high winds. The building maintenance platform on level 75 is located directly above the viewing galleries, and essentially forms the Shard's roof. To shed water, the flat metal platform required an insulation with a tapered top surface. In this extremely exposed location, and with significant loads upon the platform, a truly reliable solution was needed. FOAMGLAS® insulation combines compressive strength, long-term insulation performance, and is available with a pre-cut taper in the upper surface. Using their "in house"

CAD systems, FOAMGLAS® designed a bespoke Tapered Insulation system. Taking full advantage of its low coefficient of expansion, and to eliminate thermal bridging, FOAMGLAS® and its membranes were adhesive bonded onto the metal structure. The unique ability of FOAMGLAS® to withstand high compressive loads ensures regular maintenance work can be safely carried out without damage to the insulation or the membranes. Adamson Architects commented on this project: "FOAMGLAS® has proved itself to be the ultimate solution for the difficult loadbearing areas of the Shard. Specifying cellular glass insulation ensured complete integrity and performance in key areas of the Shard Tower."

FOAMGLAS® TAPERED – outstanding technical and environmental credentials
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- Build-up**
- 1 Metal structure
 - 2 Adhesive
 - 3 FOAMGLAS® slabs
 - 4 FOAMGLAS® TAPERED slabs, adhesive bonded
 - 5 Bitumen membranes

