



# SIKA AT WORK

## THE SERPENTINE BUILDING

ROOFING: Sika Sarnafil G410-18ELF and G410-15EL membrane in Lead Grey

**Sarnafil**®



# THE SERPENTINE BUILDING



## PROJECT REQUIREMENT

The £11.6 million regeneration scheme in Aylesbury saw a former MoD site managed by the Homes and Communities Agency (HCA) transformed into an affordable and sustainable housing development, comprising 94 terraced houses and apartment blocks forming a continuous curved building. Named 'The Serpentine', this snaking housing project called for a flexible roofing solution!

After the existing Territorial Army building was demolished, a timber-frame structure was erected to form the development's unusual snaking shape. Accurate Roofing was tasked with installing the roof element.

## SIKA SARNAFIL SOLUTION

Sika Sarnafil single ply was specified for its flexibility and suitability to tricky detailing but the shape posed a number of technical challenges.

An unusual construction method was used by the main contractor, which saw the huge timber structure erected from opposite ends, section by section, until eventually meeting in the middle. The main reason for this was to overcome the fire hazard working in a complete, elongated structure otherwise posed. But this meant the roofs had to be weathered on a section-by-section basis before meeting in the middle.

Our most current General Sales Conditions shall apply.  
Please consult the Data Sheet prior to any use and processing.



FM 12504



EMS 45308



OHS 585274

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The roof features a total of 3,800sq m Sika Sarnafil G410-18ELF membrane in Lead Grey, together with some G410-15EL also in Lead Grey for detailing. The shape and pitch of the roof called for the utmost precision when installing the main membrane as well as the various detailing and profiles. The curvaceous nature of the roof meant the single ply had to be installed in sections on a steep 20-degree pitch to make sure the layout of the standing seam profiles were precisely measured to create the stunning visual appearance of the finished roof.

Because of the size of the project as well as the tight 12-week contract period, three teams of installers worked on the job to ensure it was completed on time and to the highest standard of workmanship. Over 150 tins of adhesive were used to install the roof slopes, 5,000 fixings to fix the perimeter detailing and the hand welding of over 6,000m of standing seam profiles. Thanks to careful planning with the site teams and sealing each area, section by section, as works progressed, not one single incidence of damage occurred at the joints between the buildings.

The Serpentine called for considerable skills and various challenges but the project was completed on time, on budget and to the satisfaction of the clients, who with the architect agreed it is one of the most spectacular constructions they have seen due to its size, innovative construction method and extremely unusual shape.

## PROJECT PARTICIPANTS

**Size:** 3,800sq

**Product:** Sika Sarnafil G410-18ELF and G410-15EL membrane in Lead Grey

**Contractor:** Accurate Roofing

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