Sika at Work

Roofing

Case Study at Winston Way Primary School, Essex

Application Field: **Green Roof Systems**

Liquid Plastics
Understanding Roofing

Project Requirement

One of two Ilford 'extended schools' planned for construction in 2007; Winston Way incorporates sustainable features in its design whilst serving the surrounding community, and has a total number of 630 pupils plus nursery.

The new build school has various roof substrates including metal deck, concrete and timber. Three of the roof areas required a green roof finish, with another area to be used as a large eco-garden. Hot works were not permitted on the roofs and a tight budget had been set for the project.

Sika Liquid Plastics Solution

The design of the new school building provides a number of different roof areas, of which five had a Sika Liquid Plastics' Cold Fusion Bonded Built-up Roof installation and another had a Sika Liquid Plastics' Cold Applied and Seamless Inverted Roof installation. On the remaining roofs, two areas were covered with an Extensive Green Roof System and one – which would provide an educational, fully accessible area for the children – had an Intensive Green Roof to allow the pupils to learn about the different plant and flower species. All of the green roof installations include Sika Liquid Plastics' Decothane root resistant grade membrane to ensure superior waterproof protection would be maintained even with the presence of plants.

Sika Liquid Plastics' systems were deemed to be best suited for the project because of the seamless nature of the waterproof membrane, which enabled the deck in places to be cast flat. Because Decothane is liquid applied, penetrations could be easily waterproofed, and every roof system installed on the school is backed by the BBA and guaranteed to last at least 25 years.

Project Participants

Size: 1800m^2
Contractor: Knight Asphalte Co. Ltd.
Client: Architects Department for London Borough of Redbridge

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