



SIKA AT WORK

BLUE ROOF, INCHINNAN, RENFREWSHIRE

ROOFING: Sika-Trocal Sika S-Vap 5000E SA and Sika-Trocal SGK

Sika-Trocal[®]



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PROJECT REQUIREMENT

As rainfall becomes more extreme and weather patterns change, potential problems caused by flooding require new concepts in roofing. In the flood plains of Inchinnan, Renfrewshire, a 'blue roof' was required that would help to control rainwater and gain planning permission for the extension of a manufacturing facility.

Located on a business park close to the river Clyde, life science company Life Technologies was looking to extend its state-of-the-art manufacturing plant. Due to the facility's position in an area with a history of flooding, the planners would only grant permission to the project if the rainwater from the roof areas was controlled.

Procladd Scotland project manager, Tommy Kerr, said: "We just had to make sure the roof was completely flat and that the detailing around the concrete plinths, supporting over 40 different items of plant, was finished to a very high standard. Once the roof fills up with water it is held and controlled by a Hydro-break dispenser which uses vortex flow control technology to dispense the water in the agreed manner."

SIKA-TROCAL SOLUTION

Working closely with Sika, Procladd delivered the optimum solution with a cleverly designed blue roof. A completely flat roof with no falls, the blue roof allows the water to be collected to a certain height and then drains off in a controlled manner with a special outlet controlling the flow into the drainage system.

The 1,000m² roof featured a concrete deck which the Procladd team covered with the Sika S-Vap 5000E SA multi-layer self-adhesive vapour control layer made of polymer modified bitumen with a glass-fibre mat reinforcement and an aluminium foil as top layer. This was followed with the installation of a thermal insulation board and then Sika Trocal SGK 1.5mm thick membrane with a 0.9mm fleece backing, in slate grey.

Completed in October 2014 by a project team of six working over a six-week period, the innovative blue roof solution provided a high quality and reliable solution for a building in a flood plain which was met with praise from the client and all involved parties.

PROJECT PARTICIPANTS

Size: 600m²

Contractor: Procladd Scotland

Client: Life Technologies

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