



# SIKA AT WORK

## QUEEN EMMA PRIMARY SCHOOL, CAMBRIDGE

ROOFING: Sika-Trocal Type S

Sika-Trocal®



# QUEEN EMMA PRIMARY SCHOOL, CAMBRIDGE



## PROJECT REQUIREMENT

This new state school for boys and girls aged 4-11 opened in September 2011 with the aim of offering first class educational facilities to all local children. It has capacity for 480 students and 60 members of staff.

The school has been designed to provide an individual, attractive, robust and adaptable environment which is enjoyable, stimulating and conducive to excellent standards of work and learning. On two floors only, it is divided into four distinct areas, each expressed differently and detailed to reflect its purpose.

The fast track nature of the build programme was challenging and therefore a roofing system that could be quickly installed was required. TR Freeman installed the roof and vertical perimeter coverings on the timber frame building and completed the works in just 12 weeks, well ahead of schedule.

Queen Emma School is also notable for being a sustainable building with eco features including a ground source heat pump, rainwater harvesting and a water drainage system incorporated into a wetland area. This meant Sika-Trocal's low embodied energy membranes were the perfect solution to help complement the building and support its high Green Guide and BREEAM ratings.

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



## SIKA LIMITED

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## SIKA-TROCAL SOLUTION

Sika-Trocal provided a 1.5mm thick Type S membrane in Light Grey. Using the unique Sika-Trocal laminated metal discs and a thermally broken fastener, this system provides a rapid and economic roofing solution by securing both the membrane and the insulation in one go, reducing the fasteners required for a project by 40-60% and speeding up installation.

The roof comprises six differently shaped areas, and the first stage was to put a vapour control layer on the top deck, followed by 120mm thick PIR insulation board before finishing with the Sika-Trocal membrane. This was mechanically attached to the main roof area, extended through the upstand and terminated with a Sika-Trocal capping detail. This design ensured a fully watertight system to the whole roof area, without an interface with a separate metal capping system.

Sika-Trocal's proven track record in the education sector reassured the client that the fast track demands of the project could be met, whilst also providing an economical and high performance system that would aid in the management of the building's 'whole-life' costs.

## PROJECT PARTICIPANTS

**Size:** 2000m<sup>2</sup>  
**Contractor:** TR Freeman Ltd  
**Client:** Willmott Dixon  
**Architect:** Capita

**Sika-Trocal**<sup>®</sup>

