



CASE STUDY - PITCHED ROOF REFURBISHMENT

EGREMONT PRIMARY SCHOOL, WALLASEY



Egremont Primary School on The Wirral required a variety of external waterproofing improvements, which were approved and funded under the Department for Education's Condition Improvement Fund. BBR Roofing were appointed to carry out these works which included roof slating, flat roof waterproofing, external cladding of dormer windows, window replacement, and some internal re-construction works.

The duo-pitch slated roofs formed an internal corridor valley, with a series of dormer windows along each side of the flat valley. All of these flat areas were refurbished by being stripped back to the original decking, and then the addition of a self-adhesive foil backed vapour control layer, 120mm thermal insulation bonded in polyurethane adhesive, and a waterproofing layer of SIKA Decothane Ultra on a self-adhesive carrier membrane. All of this work required no flame application which ensured the safety of the existing building. It was also provided with the benefit of a 25 year guarantee.

SPECIFICATION;

Flat areas;

- ◇ SIKA Liquid Plastics Decothane waterproofing
- ◇ 120mm thermal insulation
- ◇ Self-adhesive foil Vapour Control Layer

Pitched roofs

- ◇ Natural slates
- ◇ Timber Battens
- ◇ Tyvek Vapour permeable membrane





The dormer windows, flat roofed along the internal valley, and barrel roofed on the external elevations, were re-waterproofed with SIKA Decothane and re-clad on the external faces with upvc cladding and fascia boards. The windows were also replaced in upvc frames and double-glazing in a pattern to match the original style of the building.

New aluminium gutters and down-pipes completed the works.

The original welsh roof slates were stripped, along with the battens. The good quality slates were reclaimed for re-use on the internal elevations, while new slates were supplied for the external elevations in order to give the best aesthetic effect.

The re-slating works included new timber battens and a Tyvek vapour permeable underlay.

All abutments to dormers and chimneys were formed in new code 5 lead.



CLIENT:

Egremont Primary School

CONSULTANT:

E3 Cube, Liverpool

VALUE RANGE:

£500-750,000