

TCRC Case Study: Marlborough College, Wiltshire



Pitched & Flat Roofing Solutions for Leading Independent School

Situated in the market town of Marlborough, Wiltshire, Marlborough College is one of the UK's leading private independent boarding and day schools. Originally founded in 1843 for the education of the sons of Church of England clergy, today it is a co-educational school with a growing roll call of over 1,000 boys and girls.

On this 340m² project, TCRC were selected to help refurbish a specialist building featuring squash courts, changing rooms and showers. This was complex and challenging application involving a number of system applications.

Main Squash Courts Pitched Roof

The main squash courts building featured a metal standing seam roof and a Bauder pitched roof solution was specified. This initially consisted of a number of made-to-measure polystyrene infills which were placed into the composite panel troughs to provide a flat uniform surface. 80mm PIR FATE insulation was then mechanically fixed to the substrate using the IP-50 peel riveter from SFS.

Once the thermal insulation had been installed, Bauder Thermofol U15 FB, a fleece-backed single ply PVC membrane, was bonded over the insulation. Bauder Thermofol is formulated using high grade virgin polymer and superior fire retardants, providing a flexible membrane with high tensile strength that is easy to weld and install. Suitable for either new build or refurbishment projects, it is a lightweight, fast track and cost effective waterproofing solution. For further aesthetic appeal, specially extruded Bauder PVC profiles were welded to the surface to effectively replicate a standing seam finish. The ridge perimeter was then finished with bespoke Bauder PVC coated metal detailing.

Project Name: Marlborough College

Location: Marlborough, Wiltshire

Client: Marlborough College

Products: Bauder Thermofol PVC Membrane, PIR FATE Insulation, Standing Seam Profiles, Bauder Self-Adhesive Bituminous Underlay



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Squash Courts Changing Rooms

The existing waterproofing system on the changing rooms and shower block was constructed as a cold roof, comprising of mastic asphalt on a loose laid sheathing applied directly to the deck. However, the material covering was coming to the end of its serviceable life and demonstrating signs of age, fatigue and fragility that could ultimately lead to serious failure.

The existing failing asphalt was therefore stripped up and a new 18mm exterior grade timber substrate was installed. Following this, Bauder's self-adhesive vapour control layer was bonded to the deck followed by Bauder 120mm FATE insulation.

Onto this, Bauder's Thermofol U15 FB PVC membrane was installed as the main waterproofing membrane incorporating skilful weatherproof detailing on to a number of HVAC units. A number of accessory components were also installed, including 3 new Bauder polycarbonate rooflights and a tapered timber box gutter to improve the perimeter detailing.



Project Summary

“TCRC successfully delivered this challenging and diverse project on time and within budget. The finished result was a stunning looking roof which will provide many years of trouble-free waterproofing. The client was very happy with the outcome and is now looking to specify the same team on other roofing projects.”



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