



# Britmet Tileform LTD

British manufacturers and suppliers of lightweight roofing tiles.  
'Keeping the pound in Britain making our economy stronger.'



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## OVERROFING EXISTING CLAY TILE ROOFS USING PANTILE 2000 AND BRITFRAME

Britmet Tileform pantile 2000 eave to ridge tile sheet and Britframe over-roofing systems was specified on this school project. The existing clay tiles had failed 10 years ago, so the school had the back of the tiles sprayed with an insulation to prevent water ingress. However, this protective insulation also begun to fail.

The existing roof structure composed of a duo pitch roof with gable ends with steel trusses at 3m centres and purlins at 1.2m centres with a steel reinforcing mesh overlaid and the clay tiles then steel wired to the mesh. This was common place during construction of schools during the 2<sup>nd</sup> world war, as it prevented the tiles from lifting off if any world war 2 bombs went off nearby.

This roof construction created a problem in the advent of removal of the tiles which where wired to the structural mesh and the sprayed insulation cover the mesh, making the roof removal very hard and time consuming. An alternative system had to be designed.

Britmet Tileform overcame these roof problems by introducing a new lightweight roofing system which overlaid over the existing roof. Britmet Pantile 2000 eave to ridge tile effect system was specified alongside the Britmet Tileform Britframe over roofing system.

Britmet's design team came up with an easy over roofing construction solution, by simply fixing a steel bracket to the existing purlins at 1.2m centres and passing these though the existing clay tiles. To help to prevent any water ingress a temporary waterproofing was applied to these areas. In total for the whole 400m<sup>2</sup> roof area, only 240 no roof penetrations where made for the steel brackets. It was also decided to add to the height of the brackets to allow for an insulation to be added, increasing the thermal value of the building. A simple Z bar was then attached to the roof support brackets and felt and batten as standard and the pantile 2000 was fixed to the battens at 1200mm centres.

To finish off the new roof, Britmet Tileform supplied the new Britline soffit facias and rainwater goods all to match in with the surround school buildings.

Due to the success of the pantile 2000 over roofing solution we have been specified on two further roofs for the school which commence this summer and has been rolled out to similar school roofs in the area.

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THE BENEFITS OF USING BRITMET TILEFORM LIGHTWEIGHT PANTILE 2000 ROOFING SYSTEM FOR ALL YOUR SCHOOL AND EDUCATIONAL BUILDINGS.

### FEATURES & BENEFITS

- Designed to give a traditional tile appearance
- Lightweight
- Minimum pitch 5°
- Good vandal resistance (0.9mm steel base)
- Easy to handle
- Offers reduced structure
- Quick installation
- Less labour intensive
- Cost effective
- Maintenance free
- Extensive range of accessories and flashings available
- Fully dry-fixed
- Guaranteed for 40-years against weather penetration
- Full technical support available
- British manufactured



Why not contact us today on 01295 250998 for free technical advice, quotations and how you can benefit from a Britmet Tileform Lightweight Pantile 2000 Roofing System.

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