



SYSTEM	PRO-FELT®ENDURA PRO-THERM
PROJECT TYPE	REFURBISHMENT
INDUSTRY	EDUCATION
APPLICATION	FLAT ROOF
SIZE	1,800 M²

PROJECT OVERVIEW

As part of the Academy Trust building maintenance programme, Proteus Waterproofing was asked to survey the school's flat roof areas to assess their condition and prioritise their refurbishment. Some roofs required complete removal and replacement of the existing roof build up, whilst other areas still had a suitable surface to receive the new system directly.

Time restrictions

The Academy Trust required the extensive roof works to be carried out within the limited summer holiday period. To address this, a project specification outlining a schedule of works — combined with planned deliveries and regular site visits — ensured the project was completed within this tight timescale.

KEY CHALLENGES

Insufficient drainage

Some of the roof areas had insufficient falls which were not providing adequate drainage. Proteus Waterproofing's technical team designed a new Proteus Pro-Therm tapered insulation scheme to resolve the issue, with Pro-Therm flat board used in areas where the falls were already sufficient — keeping the cost of the scheme down whilst still meeting all of the client's requirements. The replacement insulation was designed in line with the Building Regulations, achieving a minimum roof insulation U-Value of 0.18 W/m²K.

CONCLUSION

The completed phases carried out by the Proteus Approved Contractor now have the new Proteus Pro-Felt® Endura built up roof system, with improved roof drainage from the tapered scheme and upgraded thermal performance from the new insulation. After sign off by the technical team, the completed phases were issued a guarantee to support the project for the future.