



SYSTEM	PROTEUS PRO-COLD®
PROJECT TYPE	REFURBISHMENT
INDUSTRY	EDUCATION
APPLICATION	FLAT ROOF
SIZE	CIRCA 2,500 M²

PROJECT OVERVIEW

Longford Park Primary School consists of a number of separate flat roofs making up circa 2,500 m², originally built with a metal deck, a polythene vapour control layer, PIR flat board insulation and a PVC single-ply waterproofing. From day one, the roofs had leaked due to mechanical damage to the single-ply caused by maintenance traffic and bird damage. Proteus Waterproofing was asked to provide a 30 year system applied directly over the existing roofs, keeping them protected from the weather throughout.

KEY CHALLENGES

Leaks from day one

With the damaged single-ply still in place, the necessary repairs were first carried out to the existing membrane, making the substrate ready to receive the new system. The Proteus Pro-Cold® waterproofing membrane — a polyurethane, fully reinforced, cold applied, elastomeric liquid — was then installed directly over the retained covering, meaning the roofs were never opened up to the weather during the works.

Term time works above a full school

With pupils in lessons below throughout, noise had to be kept to a minimum. As Proteus Pro-Cold® was cold applied as a liquid, no hot works were required at any stage and the low noise installation limited the impact of the works on the school day.

CONCLUSION

Proteus Pro-Cold® is supported by a British Board of Agrément certificate stating a minimum service life of 30 years, which allowed Proteus Waterproofing to provide a 30 year guarantee to support the finished system. Once cured, the membrane forms a seamless, fully adhered, elastomeric finish which does not become brittle with age, is UK manufactured and BBA certified — protecting the school's roofs for the decades ahead.