

BETAFENCE, SHEFFIELD

Fencing solutions building receives fire protection roofing membrane.



Betafence, located in Sheffield, is world market leader in fencing solutions, access control for perimeter protection and wire mesh products for a variety of industrial applications.

The roof of the Betafence plant features numerous rooflights and was in a desperate state. The original felt roofing had deteriorated to such a state that walking on it presented a risk. IKO PLC was invited by LHL Group to carry out a thermographic survey and roof test to assess the full condition of the roof and to put together a specification for phase 1 of renovation work.

Insulation was used to give a better finish to the roof. Even though U-Values were not important, insulation boards were used to add stiffness to the roof and to provide a better finish for the installation of the built-up felt waterproofing system. Mechanical fix techniques were used to provide a cost effective, yet high performance solution.

Phase 1 of the project (1200m²) involved the complete removal of the existing waterproofing and insulation down to the profiled metal deck. Some areas were able to be overlaid. The profiled metal deck was primed and 30mm Enertherm insulation was mechanically fixed. Superbase 180 T-O underlay was applied used torch-on application and Ultra prevENT MF Black was mechanically fixed as a cap sheet.

Ultra prevENT membranes were specified to deliver fire protection. Ultra prevENT membranes comprise a polyester glass-fibre laminate, coated with SBS modified bitumen and incorporating Graphite Firewall

Project Sector: Commercial

System: Built-up Felt Roofing

Products Used: Ultra prevENT Membranes
Superbase 180 T-O Underlay
Enertherm Insulation

Contractor: Watershed Roofing

Started: February 2008

Completed: March 2008

Size: 1200m²

Contact: Keith Johnson

Technology, offering the ultimate combination of long term waterproofing and fire protection. Ultra prevENT torch-on products offer significant improvements over conventional membranes, combining greatly improved dimensional stability, low temperature flexibility and fatigue resistance. Rooflights were removed and apertures were closed. As the plant had to remain operational during the roofing work, the removal of the rooflights required internal netting.

This project illustrates that old buildings can be adapted for continued use. The building, and especially its roof, was in a desperate condition. Demolition was considered as a realistic option. However, the repair of the roof has given the building new life and will ensure its usefulness for many years to come.

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