



SIKA AT WORK

KIRK GATE MARKET, LEEDS

ROOFING: Sarnafil S327-15EL Light Grey membrane, Sarnavap 5000E SA and SarnaTherm insulation



SARNAFIL PLUS HAS MARKET ROOF COVERED



REQUIREMENT

Europe's largest covered market, Kirkgate, has 800 stalls attracting over 100,000 visitors a week. As part of a £14m refurbishment to improve the market for the stallholders and the public, the leaking roof, extending over both the 1976 and 1981 halls, needed renewing while the building was fully operational. Keeping the market open was great news for the businesses housed within, but increased the challenge for all those working on the project.

Being such an important and iconic city landmark, viewable from many of the surrounding buildings, attention to detail and aesthetics were also incredibly important to the final result.

Work to refurbish the interior was complete by the time roofing work had begun, adding further pressure to the project. It was absolutely essential that the market remained open and that recent refurbishment works weren't damaged.

SIKA SARNAFIL SOLUTION

The Sarnafil Plus team did the groundwork to secure the tender with the architect, asserting the benefits of a Sarnafil system, Sarnafil Plus technical support, and guarantee. Following this, Protech Roofing, a Registered Sarnafil contractor, spent many hours visiting the site and attending meetings, gaining the trust of all parties.

The original design specification called for the existing felt waterproofing to be removed back to the metal decking. However, this would cause massive disruption and with no guarantee of a watertight building. Protech recommended a mechanically fastened Sarnafil system that could be overlaid onto the existing substrate, ensuring the market remained open.

Initially, Protech was asked to complete a £20,000 'interview' project – a small complex plant roof with difficult interfaces alongside other trades. Protech proved they could complete the job to a high standard, on time, with Sika Sarnafil single ply membrane, which contributed to them securing the main project.

A full Sarnafil Plus survey and thermal imaging revealed the worst areas for water ingress on the roof of the market. Following this, a sample section was completed to demonstrate that it would not cause disturbance, and this was signed-off by the client and contractor.

The nine-month project saw a team of between eight and 10 people working on the roof through all four seasons, including rain showers and temperatures of over 80°F (27°C.), without the project or waterproofing ever being compromised.

To begin, all loose chippings from the original felt roof were removed, and transported to ground level via a hoist system, and then into skips. The initial survey revealed that some parts of the roof structure would not be strong enough to support heavy loads, so waste removal and new materials had to be placed and moved in a strategic manner, to avoid any issues. All materials were delivered and hoisted up and down carefully during designated times, to reduce disturbance.

Scaffolding and a crash deck were constructed underneath the roof, suspended from the steel structure of the building, to keep the market users safe.



BEFORE



AFTER

KIRK GATE MARKET, LEEDS



SIKA SARNAFIL SOLUTION CONTINUED

Sarnavap 5000E SA a cold applied, self-adhesive vapour control layer was used to ensure temporary waterproofing for the market while the roofing work was being carried out.

The SarnaTherm insulation boards were mechanically fixed into the existing roof and installation of Sarnafil S327-15EL Light Grey membrane with stainless steel fixings created a durable, weathertight and aesthetically pleasing finish. Sarnafil membranes are certified by the British Board of Agrément and to have a service life 'in excess of 40 years', giving the client confidence in the durability and longevity of the roof.

A further feature of Sarnafil roofing systems that appealed to the client was that the Sarnafil S327-15EL Light Grey membrane is cold applied – welded together using hot air rather than with a naked flame. The system can be used without restrictions as it meets the fire performance requirements of BS476-Part 3:2004 and BS EN 13501-5:2005. This was an important safety consideration as the market had suffered a terrible fire back in 1975.

Six rooflights over 51m long were replaced with SarnaLites, situated close together in rows, making sure that the market continued to benefit from natural daylight. This part of the refurbishment was carried out at night to limit any disruption to the market below.

Sarnafil Plus visited the site regularly to offer support and advice, and to monitor installation quality and workmanship. A successful final inspection resulted in the issuing of a Sarnafil Plus guarantee.

Through problem solving, close management and incredible workmanship skills, Protech Roofing, in partnership with Sarnafil Plus, rose to the challenge. Constant communication between Protech, the client, the contractor and Sarnafil Plus resulted in a well-planned project that was completed on time and to the highest standard. The stallholders hardly knew that anything was going on above them – let alone a project of this scale.

The refurbishment has resulted in the complete transformation of the market roof. It is bright, neat and attractive, complementing Victoria Gate, a new luxury retail development next to the market. Eamonn Cahill, Interserve project manager, said: "Protech showed outstanding levels of proactive problem solving and integrity throughout the project. The Sika Sarnafil membrane has given the market hall roofs a smart, clean finish with the durability to keep the building weatherproof for years to come."

Sarah Crowley, Associate Building Surveyor at AECOM on behalf of Leeds City Council, said: "Protech went the extra mile to ensure that the roofing works did not interfere with the daily workings of the market, meaning stallholders could continue business. This was achieved through absolute dedication to health and safety protocol and meticulous planning."

PROJECT PARTICIPANTS

Client: Leeds City Council

Contractor: Protech Roofing

Size: 8500 m²



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