



SIKA AT WORK

CENTER PARCS, LONGLEAT

ROOFING: Sika Sarnafil S327-18EL and Sika Sarnafil G410-18EL in Patina Green

Winner of the Refurbishment Award and Best Health and Safety Award,
SPRA Conference 2016

CHALLENGING ROOF REFURB COMPLETED WITH ZERO DISRUPTION



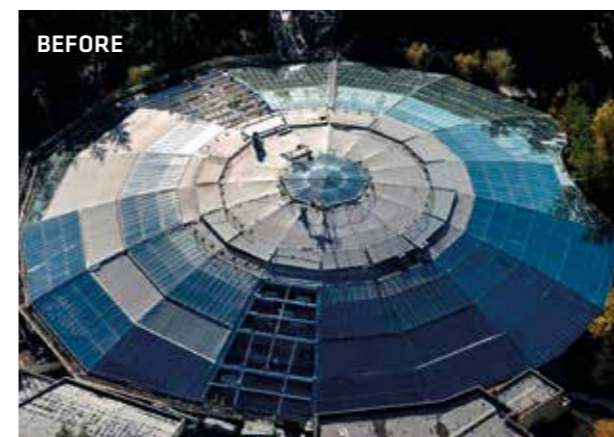
REQUIREMENT

With capacity for almost 4,000 guests and 96 percent occupancy, Longleat Centre Parcs had to make sure there was absolutely no disruption for its guests during the refurbishment of its Subtropical Swimming Paradise.

Delomac Roofing was challenged to renew the roof while meeting the client's strict performance and aesthetic requirements. A task that was accomplished through two years of meticulous planning and 30 months of onsite construction.

This was complicated by differences between the swimming pool side and the dry side, which contain restaurants and meeting rooms.

With a striking Glulam main support frame, Delomac had to ensure that application wouldn't stress the structure and that there would be an even load release across the roof.



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SIKA SARNAFIL SOLUTION

The new roof installation was planned in close discussion with the Sika Sarnafil and Delomac supply chain, developing the specification to address all the client's requirements. Environmental considerations were met in selecting durable low whole life cost materials and planned recycling of all temporary roof elements across the project.

Two distinct solutions were proposed – a mechanically fastened system using Sarnafil S327-18EL for the dry side and an adhered system using Sarnafil G410-18EL for the more humid area. Both were specified in Patina Green to blend with the natural environment.

An innovative temporary terraced platform was designed and installed, suspended underneath the main structure by cables and lattice beam scaffold units. Work was carried out over 16 separate sections, like a wagon wheel – ensuring the structure was not compromised by uneven load distribution. This stepped, terraced temporary roof was then covered with plywood and completely weathered by Delomac with a Sarnafil membrane.

With the temporary roof in place, existing glazing and coverings could be safely removed, maintaining water-tightness with guests enjoying the facilities below. Scheduled over more than two years, this way of working resulted in a dry building envelope, despite some of the wettest weather on record.

Comprehensive vapour barrier measures were used on the pool side of the building to ensure the high humidity chlorinated environment was contained. Robust SFS sealant and Sarnafil metal-lined vapour barrier detailing at all Glulam beams and fascia interfaces ensured no risk of condensation.

Sarnafil membrane and accessories were used for all the coverings, and again overall specification development was tailored to suit the varying build-ups; new, overlay, bonded and mechanically fastened. An increased thickness membrane was manufactured in one single batch to ensure colour consistency. Sika added further value with an impressive 17 visits to the site by the Applications Team to advise and support.

The finished installation has transformed the internal and external appearance of the building. Rooflights and white soffit finished decking have provided a bright and airy environment, with the external green finish blending subtly with the landscape.

Most importantly, safe, unlimited guest access to the pool, restaurants and meeting areas was maintained throughout the entire project; something the whole project team is very proud of.

As testament to this, the project won the Refurbishment Award and Best Health and Safety Award at the SPRA Conference 2016.

PROJECT PARTICIPANTS

Client: Center Parcs
Contractor: Delomac Roofing
Main Contractor: SDC Builders Limited
Area: 8000m²



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