

# Green Roof

## Culloden Visitor Centre, Inverness-shire, Scotland



### Background

Situated on the 65-hectare site that saw the final clash between the Jacobites and Hanoverians in 1746 -the last ever battle on British soil, the 1970s Culloden visitor centre/museum was struggling to cope with visitor numbers. The new National Trust for Scotland scheme would be to transform the centre into a GBP9 million state-of-the-art yet sustainable world-class visitor centre/museum and memorial to the fallen with support for up to 250,000 visitors a year. The visitor experience and comprises interpretation of battle slideshows of the history and aftermath, education and conference facilities, a cafe, restaurant and shop.

### Challenge

The new centre had to integrate and minimise the impact on the surrounding culloden moor battlefield that is a designated war grave and historic monument. The specified roofing system had to not only be eco-friendly and affordable but also sustainable and in keeping with the building's design specification. A green roof was incorporated onto the roof top areas which serve as a viewing platform to appreciate the true scale of the battle with uninterrupted views across this moorland site and burial place for 1,800 who died in the battle.

### Solution

The Icopal Sure-Weld TPO membrane was chosen because of its eco-friendly nature which fitted in well with the whole ethos of the design to incorporate fully sustainable products. This Thermoplastic Polyolefin (TPO) recyclable single-ply membrane is specially formulated for long-term exposure without the use of either polymeric or liquid plasticisers.

The accessible green roof is a fundamental part of the design and the fully adhered system meant detailing was simplified. The colour of the curved roofs was an agreed substitute for the planning approved metal sheet

The unusual hybrid roof that includes three areas and Sure-Weld TPO was used under the green roof that acts as viewing platform and by itself on the flat and curved sections which are reminiscent of shallow waves, echoing the exact lines of the distant hills.

The project was opened on the April anniversary of the battle, during Scotland's Year of Highland Culture in 2007.

<b>Project:</b>	<i>Culloden Battlefield Visitor Centre</i>
<b>Area:</b>	<i>300 m<sup>2</sup></i>
<b>Completion Date:</b>	<i>2007</i>
<b>System:</b>	<i>Sure-Weld TPO + Intensive Lawn Roof</i>
<b>Client:</b>	<i>National Trust for Scotland</i>
<b>Specifier:</b>	<i>Gareth Hoskins Architects, Glasgow</i>
<b>Contractor:</b>	<i>SRSGroup Ltd, Glasgow</i>