



SIKA AT WORK

YSGOL AWEL Y MYNYDD, LLANDUDNO JUNCTION PRIMARY SCHOOL, CONWY

ROOFING: Sika Sarnafil G410-15ELF Lead Grey

Sarnafil®



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PROJECT REQUIREMENT

An £8.8 million new build school in North Wales, Llandudno Junction Area Primary School, is set to replace two older primary schools as part of the 21st Century Schools Initiative. The modern design includes spacious classrooms, nursery facilities, playing fields and community space, to accommodate an increased capacity of 420 pupils.

Developed by Conwy County Borough Council, through joint funding with the Welsh Government, and designed by Ainsley Gomon Architects, the newly established community primary school also needed to blend into its rural surroundings – a difficult task, due to the sloping nature of the site.

Built by main contractors, Read Construction Ltd, it was important that the school building was built with the future in mind, including a range of sustainability strategies, such as the use of sustainable materials and installation of green roofing and solar panels.

SIKA SARNAFIL SOLUTION

Due to its location on a greenfield development that rises steeply to the south east, with much of the flat land set aside for the sports field and games area, the main school buildings had to be accommodated on a slope. With this challenging design brief, Ainsley Gomon Architects devised a split level solution, with a large curved teaching wing following the natural contours of the site. This was then linked via a corridor to a 'Community Hub' that includes the main hall, offices and meeting rooms.

The architect originally wished to specify a metal roof across a large portion of the building, but budget restraints meant a rethink was required. Instead, an adhered Sika Sarnafil waterproofing membrane was chosen – G410-15ELF Lead Grey – thanks to its ability to emulate the standing seams on a metal roof with Décor Profiles, creating the same aesthetic appeal.

The curved, pitched roof was a challenging installation, but AAC Waterproofing Ltd, a highly skilled commercial roofing company based in Anglesey, were up to the job, supported throughout the process by the Sika Sarnafil Technical Team.

To help the school fit into its rural environment, the architect chose natural materials, including larch wood cladding, dry stone walls and a 900m² sedum and wildflower roof. This flat roof area was loose laid with Sika Sarnafil root resistant membrane, before the green roof system was installed.

The building is targeting a BREEAM Excellent rating, due to its fantastic sustainability credentials, including natural ventilation, harnessing passive solar gain, photovoltaic panels, and the thermal performance of the roof build up with its A+ rated Sarnafil membrane.

Set to open in September 2017, the school is a truly 21st century facility that will benefit hundreds of pupils, the local community, and the environment.

PROJECT PARTICIPANTS

Client: Conwy County Borough Council

Contractor: Read Construction Holdings Ltd

Architect: Ainsley Gomon Architects Ltd

Roofing contractor: AAC Waterproofing Ltd

Size: 3,300m²



FM 12504



EMS 45308



OHS 585274

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