



### Project Description

Huddersfield University Student Learning and Leisure Centre (SLLC) is a new development built on the university campus in the heart of Huddersfield town centre. The development comprises four new buildings that adjoin each other all constructed using a single steel frame and rising to various heights from two to four storeys with three buildings finished with a green roof. Once completed the £22.5M Centre was topped out in an unconventional ceremony led by Professor Bob Cryan, Vice Chancellor, who planted the final sedum plant on the green finished roof, celebrating the end of the project and the awarding of the accolade University of the Year.

### The Challenge

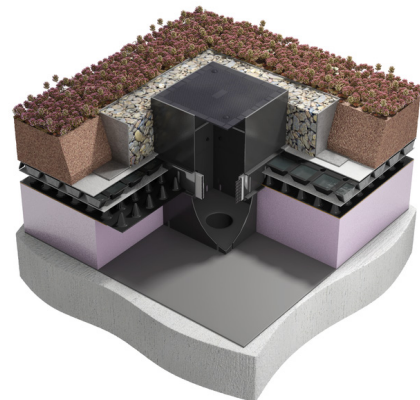
In the original plans three of the buildings were designed with an extensive green roof and the fourth designed with a traditional warm roof. The roof finish contained variety of coloured plants carefully selected to suit the various aspects of the planting areas. The aim was to place a standard green roof which retains water to feed the plants but allowed the majority of the rainfall to run off the roof into the buried SuDS tanks at ground level. Reduction or elimination of these tanks was welcome as these are expensive to build and maintain.

### The Solution

Following consultation with ABG Technical Department the roof design was switched to be green roof across all four buildings. Furthermore the original design was amended to allow the roof structure to attenuate rainwater collected from the roof surface, known as **ABG bluerooF**.

### Project Information

<b>Client</b>	Huddersfield University
<b>Contractor</b>	ABG Installs
<b>Architect</b>	Watson Batty
<b>Products</b>	ABG bluerooF with sedum green finish
<b>Quantity</b>	4,220m <sup>2</sup>
<b>Benefits</b>	<ul style="list-style-type: none"><li>• SuDS attenuation avoiding underground tanks</li><li>• Fast installation</li><li>• SuDS process at source in building footprint</li></ul>



**ABG bluerooF system with green finish and restrictor chamber**





The decision to switch to **ABG bluerooF** offered a number of key advantages to the architects. The primary advantage being that utilising the roof construction for the storage allowed the site to meet its SuDS requirements without the need to install underground attenuation tanks, a costly and disruptive operation especially on site with such tight operating conditions. Installing **ABG bluerooF** required only minor detailing changes from the green roofs already specified; these included upgrading the thickness of the drainage layer to meet the storage requirements and the inclusion of restrictor outlet chambers to control the discharge from the roof. The simplicity of the **ABG bluerooF** design meant that the revised roof including the water attenuation capacity was installed within the same time frame as originally scheduled for installing the green roofs saving the client time and money.



Placing the ABG green roof boards showing the overflow holes which then feed into the bluerooF attenuation system below

### The ABG Service

Provided innovative designed alternatives working with the architect, contractor and waterproofing specialist



Mature sedum roof overlaying the ABG bluerooF attenuation system



Wildflower growth around the ABG restrictor chamber