



*Eight stunning Sedum roofs have been included in the 'EcoExcellent' rated development*

### ISOLA PLATON DE25 STORES WATER FOR SEDUM ROOF

Isola Platon DE25, a drainage and water storage layer designed for use in green roof construction, is being used to form part of the Sedum Roof construction at an 'EcoExcellent' rated development in Wiltshire. A total of eight Sedum Roofs are included in the development which will provide 256 new homes.

The actual roof construction consists of a Plywood deck fixed to a traditional timber joist sub frame. The deck is initially covered with a Polythene vapour control layer, rigid Polythene insulation and a Wolfin M waterproofing membrane supplied by Advanced Environmental Roofing, which is mechanically fixed to the deck with screws and plate washers. A protective fleece is then laid on the membrane to prevent abrasion. The Isola Platon DE25 layer is then loose laid over the fleece. A geotextile filter fleece is then laid to prevent soil or fines being washed away by rainwater. With just 30mm of growing medium required, a Sedum mat was chosen as the finished roof covering.

Around the perimeter and along a central pathway is a zone of 20-40mm round washed pebbles which are retained by Advanced's unique lightweight 'Gravel Stop' metal profile. A man-anchor system is also installed along the central pathway for future use by maintenance crews.

Tony Bryan is Managing Director of Advanced Environmental Roofing Systems, which co-ordinated the supply and construction of all elements of the Sedum Roof. He said, "I specified Isola DE25 because I believe there are important benefits from the inclusion of a water retention layer in the build-up. These include its ability to spread the weight of rainwater evenly across the roof surface, to prevent the water running into the lower areas of the roof leaving the up slope areas dry and, of course, to help delay the shedding of water into the drains."

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## Case Study



*The black studded DE25 layer forms the drainage and water storage layer for the Sedum roof*

Tony added, "This project has set out a blueprint for other similar 'lightweight' green roofs. It used to be considered that 'landscaped roofs' were only suitable when a solid concrete framed building was set out. This project demonstrates that such a system can also be successfully installed on a traditional timber-framed building, even steel-framed buildings are being covered in the same way."

Isola Platon DE25 is exclusively supplied in the UK by Triton, part of a complete range of systems supplied by the company to specialist contractors involved in roofing, basement conversion and other waterproofing works.

Advanced Environmental Roofing Systems is based in Derbyshire and was set up in 2006 to provide total green roof solutions throughout the UK. The company co-ordinated the supply of all materials for this green roof project, and its construction by specialist installers, Coleman Roofing Contractors of Swindon and Evergreen Roof Gardens of Worthing.

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