

BREEAM INTERNATIONAL NEW CONSTRUCTION

PRODUCT DATA FOR CERTIFICATION

URBANSCAPE GREEN ROOF SYSTEMS

BREEAM (Building Research Establishment Environmental Assessment Methodology) International New Construction¹ is a voluntary standard that defines high performance green buildings which are healthier, more environmentally responsible and more profitable structures. Using independent assessors, BREEAM examines criteria covering a range of issues in sections that evaluate: management processes, health and wellbeing, energy, transport, water, materials, waste, land use and ecology, pollution and innovation.

KNAUF INSULATION products as **URBANSCAPE GREEN ROOF SYSTEMS** can put you on the right track to get the highest result for BREEAM certification.

BREEAM Credit Category code	Assessment criteria and definition	Urbanscape Green roof systems contribution	Contributes towards
Hea 03 (Thermal comfort)	To ensure through design that appropriate thermal comfort levels are achieved and controls are selected to maintain a thermally comfortable environment.	Thermal modelling with full dynamic thermal analysis is facilitated through Building Information Modelling (BIM) available files ² on line.	1 credit
Hea 05a/b (Acoustic performance)	To insure the building's acoustic performance, including internal sound insulation, meets the appropriate standards for its purpose.	Systems mitigate indoor ambient noise originating from the roofs (i.e.: rain and hail).	1 credit
Ene 01 (Energy efficiency all buildings)	To encourage buildings that minimise their operational energy consumption through good design.	Systems help reducing the 3 parameters: operational energy demand, primary energy consumption and CO ₂ emissions by keeping for example appropriate temperature through the summer season.	15 credits
Ene 05 (Energy efficiency cold storage)	To encourage the installation of energy efficient refrigeration systems. High levels of insulation can minimise heat loads.	Products help reducing The Total Equivalent Warming Impact (TEWI) through roof insulation efficiency in the design options.	3 credits

¹Technical manual : SD 5075 – 1.0:2013

² <http://bimetrica.com/en/urbanscape.html>

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Wat 04 (Water efficient equipment)	To reduce water consumption by encouraging specification of water efficient equipment	External soft landscaping and planting relies solely on precipitation, during all seasons of the year	1 credit
Mat 04 (Insulation all buildings)	At least 80% (by volume) of the thermal insulation used in the assessed building elements must be responsibly sourced	Recycled content of stone mineral wool (internal and external waste) is 52% and comply with tier 6.	1 credit
Wst 01 (Construction waste management)	To promote resource efficiency via the effective and appropriate management of construction waste	Packaging's (wood pallet and plastics foils) and products at end of life are recyclable.	3 credits
LE 04 (Enhancing site ecology)	To recognize and encourage actions taken to maintain and enhance the ecological value of the site as a result of development	Urbanscape can enhance biodiversity of the site with the 15 species of sedum applied for the green roof. Sedum flowers will attract insects.	3 credits
Pol 03 (Surface water run- off)	To avoid, reduce and delay the discharge of rainfall to public sewers and watercourses, minimizing the risk of flooding	Urbanscape products are a source control system that helps reducing peak rate of run-off from the site.	5 credits
Pol 05 (Noise attenuation)	To reduce the likelihood of noise, arising from fixed installations on the new development, affecting nearby noise-sensitive buildings.	Noise attenuation originating from rainfall/hail on the roofs that could disturb neighbours.	1 credit