

Contractor UPDATE

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CHANGES IN BAUDER'S BLUE ROOF SYSTEMS

Bauder have extended our blue roof offer to also include an inverted insulation system.

Blue roofs are now a common requirement in new build constructions.

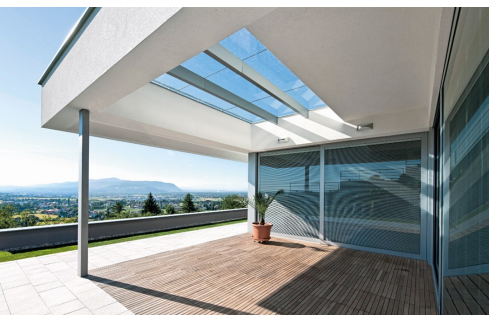
To date, Bauder have offered a warm roof build-up as their blue roof proposal, as it overcomes two main technical concerns; insulation performance and floatation. However, where a roof will be used as a working platform during construction it is often more practical to install an inverted roof build-up. We therefore recognise that our Bakor hot melt systems provide a beneficial solution for these projects.

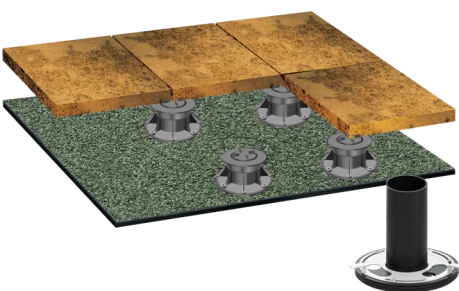
The imminent launch of CIRIA's Blue Roof Guide (RP1099) will clarify some of these concerns and Bauder now believe we can offer robust inverted blue roof solutions.

The Bauder specification will follow the CIRIA guide, which details the weight loadings required to ballast the inverted insulation to prevent floatation.

Whilst the guide does not give an exact correction depth for the insulation, Bauder will specify an additional 10% correction factor in the insulation build-up to offset any potential loss in performance of the inverted insulation, due to rainwater cooling.

The thermal performance of the specified insulation within an Inverted Blue Roof will be calculated as per the specifier's requirement. The specifier will remain solely responsible for the sign-off of the Bauder calculations.





Bauder now offer three blue roof systems:

Bauder STORMcell: Using the RWR 100 Attenuation Cell as a void to hold rainwater during a storm event. The flow of water off the roof is controlled by the adjustable flow restrictor making sure the exact discharge rate is met. The STORMcell system is capable of very high storage volumes, the attenuation layer can be up to 300mm deep, holding 285 l/m².

The system can be covered with either soft or hard landscaping and have an excellent compressive strength (400 kN/m²).

Bauder STORMvoid: Using Bauder Pedestal Systems to form the void. For simple blue roofs, the STORMvoid offers a low cost paved solution. Rain water is shed off the paving (through the open joints). This can then be held in the space between the pedestals which form a natural void. When combined with Bauder NC pedestals this system can offer a non-combustible blue roof solution.

Bauder STORMsub: Using the new RE 40 drainage board and RE substrate (available late 2022) to produce a “green “ blue roof solution. The STORMsub uses a blue roof substrate (SUB-RE UK) to act as the void to store and attenuate rainwater. Whilst not as efficient as the STORMcell, it offers 87% less plastic and there’s a benefit that the thicker substrate gives the vegetation deeper rooting and therefore provides drought resilience.

(The full details of which will be sent to you in a later Contractor Update).

For more information see Bauder’s revised Blue Roof Design Consideration brochure on the website: <https://www.bauder.co.uk/technical-centre/design-considerations/blue-roof-design-considerations>.

If you have any questions please do not hesitate to contact us.

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