



BAUDER



BTRS PLUS

BITUMEN MEMBRANE
ROOFING



OVERVIEW OF BTRS PLUS





BTRS PLUS

Our BTRS PLUS system utilises the latest manufacturing technology for Bauder's first dual formulation capping sheet uniting both APP and SBS polymer bitumen modifications to create BauderKARAT.

The system also incorporates the new BauderTEC KSA DUO 35 self-adhesive SBS modified underlay which, when combined with the BauderKARAT cap sheet, jointly provide a formidable waterproofing solution with exceptional durability and system longevity.

The complete system is manufactured to exacting specifications and is applied within cold, warm or inverted roof constructions with a choice of insulations:

PIR FA-TE foil-faced rigid flatboard insulation for increased thermal performance and reduced thickness compared to other insulants.

PIR FA Tapered lightweight, convenient and cost effective alternative method of providing falls to a roof instead of incorporating them in to the structure.

BauderROCK mineral fibre flat board or tapered insulation ideal for projects that are required to achieve a high level of sound reduction and fire performance.

BauderJFRI high performance rigid expanded polystyrene insulation which is very lightweight and has a high compressive strength. It is used within inverted roof construction and is resistant to the passage of water and will not degrade.

When to Specify

BTRS PLUS is designed for use in both refurbishment and new build projects particularly when long life-span and high durability are required.

As with all our bitumen membrane systems, BTRS PLUS incorporates our torch-free detailing which is specified when roof details are located on or adjacent to combustible construction materials.

Key Features

- Heavy duty and extremely enduring system.
- Life expectancy in excess of 35 years.
- Fire classification BROOF (t4).
- APP/SBS dual modified bitumen 5.2mm capsheet.
- Softer bitumen SBS underside which aids speed of installation by circa 10%.
- 300g/m² polyester-glass composite reinforcement for exceptional tensile strength.
- Torch-free detailing on or adjacent to combustible construction materials using Bauder KSO-P SN self-adhesive cap sheet membrane.
- A standard Bauder PIR warm roof system is capable of withstanding permanently sited loads of up to 2000Kg/m².
- System incorporates patented DUO membranes to minimise the use of flame. Our patented 'DUO' range of products were developed to make installation faster, safer, simpler and more secure.
- Outstanding guarantee package.

Specification Support



Specification downloads:
www.bauder.co.uk/technical-centre



Telephone helpline:
 0845 271 8800

ENVIRONMENTAL CREDENTIALS

TECHNICAL CREDENTIALS

■ Environmental Product Declarations (EPD)

The Eco Platform accreditation is recognised by the BRE as valid and transferrable environmental documentation towards obtaining BREEAM credits within their assessment process for BREEAM UK New Construction 2018

- Bitumen Membranes - S-P-00414
- PU Insulation - Aluminium Facing - EPD - IVP-20140207-IBE1-EN
- BauderROCK Insulation – EPD according to EN 15804 and ISO 14025

- Manufacturing offcuts of waste bituminous membranes are shredded and recycled back in to production.
- Manufacturing offcuts of PIR are shredded and recycled for use in hand cleansers and decking material.
- Our manufacturing factories operate an Environmental Management System that has been certified to be in accordance with ISO 14001 2015 and ISO 50001 2011 for Energy Management.

- Fire classification BROOF(t4) to BS EN 13501-5 tested to TS 1187 for external fire exposure to roofs and deemed 'unrestricted' (low vulnerability) and suitable for use on any part of a roof.
- BauderKARAT to be included within our BBA certificate 10/4744 once verification is complete.
- Heat resistance BS EN 1110 and cold bending flexibility BS EN 1109 elasticity range between +150°C for the upper surface and -40°C for the lower surface.
- All Bauder rolled membranes and insulations carry a CE mark as required by the Construction Products Regulations.

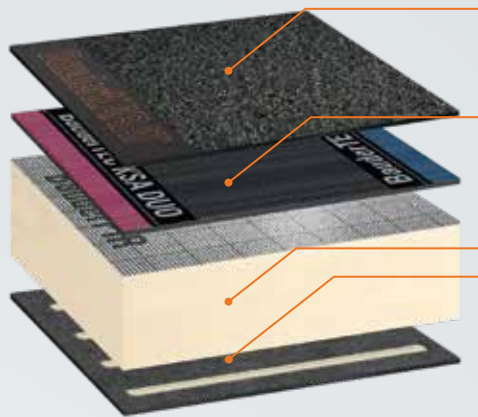


BAUDER KARAT

Example System Configuration

BAUDER TOTAL ROOF SYSTEM PLUS

Extremely robust torch-applied capsheet and innovative heat-activated self-adhesive membranes for safety. There is a choice of insulation types.



BauderKARAT

5.2mm thick dual modified APP/SBS bitumen cap sheet with 300g/m² glass/polyester composite reinforcement. Charcoal Grey slate granule surface finish

BauderTEC KSA DUO 35

3.5mm SBS self-adhesive bitumen underlayer

BauderPIR FA-TE Flatboard or FA Tapered Insulation to create falls on the roof

Foil-faced rigid PIR boards for warm roof construction

Bauder Insulation Adhesive

BauderTEC KSD Mica

2.5mm SBS self-adhesive air and vapour control layer with a mica finish installed to the deck which is prepared using Bauder Multi-Purpose Primer

The System Products



BauderKARAT

The robust BauderKARAT capsheet has been developed to offer enhanced performance and service life.

The process for applying the slate granules used for BauderKARAT surface protection gives a particularly smooth and superior finish.

APP modified bitumen is used for the upper coating which offers increased resistance to ultraviolet radiation together with improved weathering that contributes to longer service life. The reinforcement is a 300g/m² polyester-glass composite offering extreme strength and stability.

The underside coating is Bauder's proven SBS modified elastomeric bitumen which provides outstanding flexibility to cope with climatic extremes.

The thermo-diffusible polyethylene film to the underside of the membrane dissipates quickly with heat during installation.

Due to our special coating formulation, BauderKARAT is estimated to be more than 10% quicker to install than our current K5K cap sheet.



BauderTEC KSA DUO 35

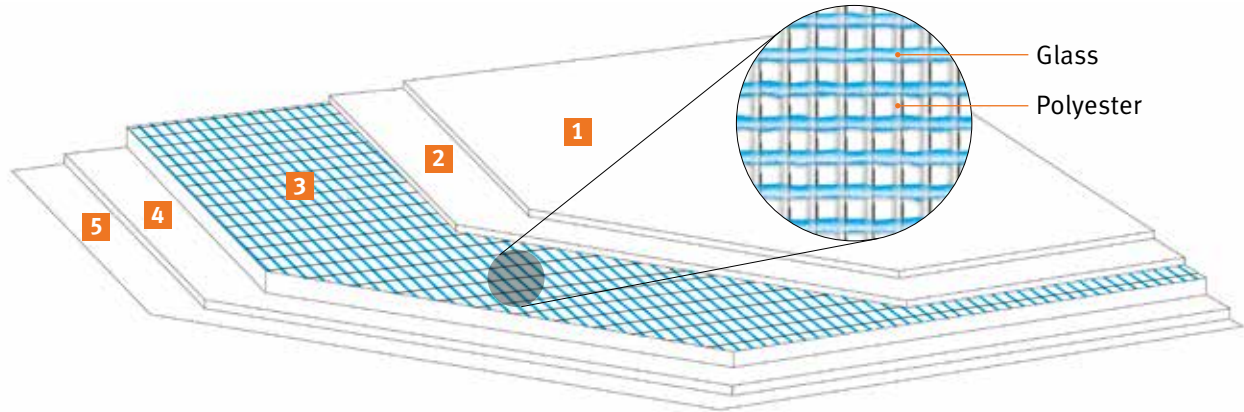
Additionally, the new KSA Duo 35 is the underlay of choice in BTRS PLUS. This self-adhesive membrane provides even more durability due to the increased thickness of the product.

The system can be installed with a choice of Bauder uniform thickness insulation and tapered insulation boards and Air & Vapour Control Layers.

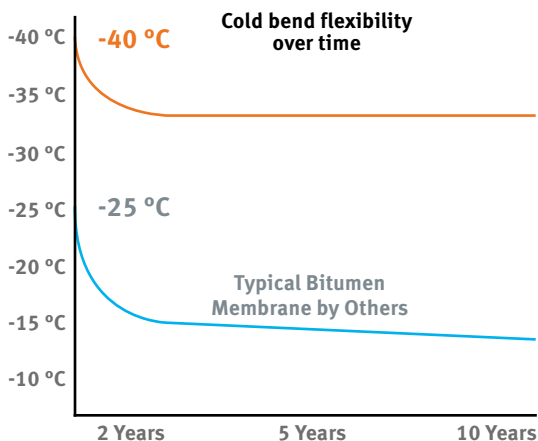
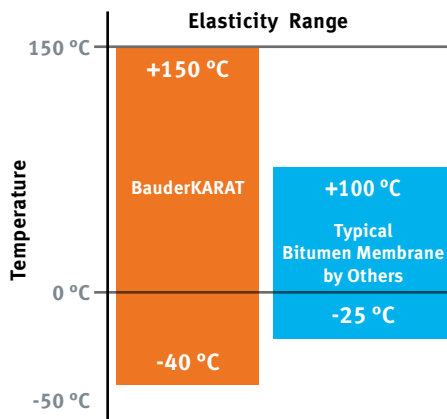
TECHNICAL PERFORMANCE

BauderKARAT

Dual-formulated bitumen membrane provides formidable durability even in the most demanding locations.



- 1:** Refined slate granules embedded for a UV protective mineral finish
- 2:** APP modified bitumen delivers weathering durability
- 3:** 300g/m² composite glass-polyester reinforcement carrier
- 4:** SBS modified bitumen maximises flexibility and cold bending properties
- 5:** Thermofusible polyethylene film



TECHNICAL DATA

		BauderKARAT	KSA DUO 35
Surface		Charcoal grey slate granules	Foil
Reinforcement		300g polyester glass composite	200g glass lattice
Roll size	EN 1848-1	1m (w) x 5m (l)	1m (w) x 7.5 (l)
Thickness	EN 1849-1	5.2mm	3.5mm
Weight	EN1849-1	6kg/m ²	4kg/m ²
Cold bending	EN 1109	-40°C	≤-30°C
Heat stability	EN1110	+150°C	≤+100°C
Tensile strength	EN 12311-1	1450N/50mm	≤ 1000 N/50mm
External Fire	EN 13501-5	BROOF (t4)	BROOF (t4)





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