

## Reinforced bitumen membrane warm roof covering

### Bauder Total Roof System

Two layer, self-adhered, warm roof, bitumen membrane waterproofing system suitable for both new build and refurbishment applications. Option of using a root-resistant cap sheet for green roofs. Can be used in warm, cold, and inverted roof scenarios. Use torch-free detailing for application in the vicinity of combustible construction materials.

	Function	Product name	Thickness (mm)	Weight (kg/m <sup>2</sup> )	
1	Cap sheet	Bauder K5K (Charcoal Grey)	5.2	6.5	 <p>Warm roof indicative build-up</p>
2	Underlayer	BauderTEC KSA DUO	3	3.5	
3	Insulation (0.15)	BauderPIR FA-TE	140	4.2	
4	Insulation attachment method	Bauder PU Tin Adhesive	nominal	0.16	
5	Air and vapour control layer (AVCL)	BauderTEC KSD FBS	2.5	2.5	
	Primer	Varies depending upon substrate type – please refer to specification	nominal	nominal	
<b>System Build-up</b>			<b>150.7</b>	<b>16.86</b>	
In-depth and up-to-date product specific technical data is available for each element within a system. Download from our website <a href="http://bauder.co.uk/technical-centre">bauder.co.uk/technical-centre</a>					

#### Characteristics of the system

- Choice of insulants including tapered insulation for improved drainage falls to suit project requirements.
- SBS modified elastomeric bitumen cap sheet with 250g/m<sup>2</sup> polyester fleece reinforcement.
- System incorporates patented DUO membranes to minimise the use of flame.
- Safe2Torch guidance adhered to for design of details on or near combustible construction materials.
- Comprehensive guarantee packages to meet project requirements.

#### Accreditations and approvals



# System summary



System variations are available to the specifier so that a tailored solution meets the needs of the building. The selection of products should be confirmed with our technical department to ensure suitability for the individual construction requirements of the flat roof.

E: [technical@bauder.co.uk](mailto:technical@bauder.co.uk)

## OPTIONS AVAILABLE

In-depth and up-to-date product specific technical data is available for each component within a system. Download from our website [bauder.co.uk/technical-centre](http://bauder.co.uk/technical-centre)

Membrane finish colours				
	Charcoal grey	Grey Slate	Brown	PLANT E (root resistant)

Membrane underlayer alternative	Thickness (mm)	Weight (kg/m <sup>2</sup> )
BauderFLEX G4E* (torch-on)	4	4.8
BauderTEC KSA DUO 35	3.5	4
BauderFLEX K5E* (torch-on)	5	5.8

\*Cannot be used directly onto foil faced insulation

Membrane AVCL alternatives	Thickness (mm)	Weight (kg/m <sup>2</sup> )
Bauder Super AL-E** (torch-on)	3.5	4.5
BauderTHERM DS 1 DUO	4	4.5

\*\*Cannot be used directly onto combustible materials

FA-TE Insulation thickness	Approx. 'U' VALUE (W/m <sup>2</sup> K)	Weight (kg/m <sup>2</sup> )
120mm	0.17/0.18	3.6
140mm	0.15	4.2
180mm (120 + 60)	0.12	5.4
190mm (160 + 30)	0.11	5.7

Approx. 'U' VALUE (W/m<sup>2</sup>K) assuming concrete or timber deck and does not take into account any materials below the deck

Alternative insulation to achieve 'U' VALUE 0.15 (W/m <sup>2</sup> K)	Thickness (mm)	Weight (kg/m <sup>2</sup> )
BauderPIR FA G16 Tapered	140 (average)	4.2 (average)
Bauder VIP TE Flatboard***	80	Varies
BauderROCK Flatboard	255 (150 + 105)	40.8
BauderGLAS Flatboard	230 (130 + 100)	23

\*\*\*VIP TE Insulation based on 80mm VIP TE with PIR FA-TE at infills and perimeters utilising 70% VIP and 30% FA-TE to achieve approx.. 0.14 U Value. A project specific VIP TE design would be required to confirm exact U Value achieved.

# System summary



## System fire performance

The system arrangements tested, verified, and that achieve industry standards for fire performance are defined in the relevant BBA certificate. Please ensure you are aware of which permutations currently have a stated performance against fire by viewing and downloading the BBA certificate from our website

[bauder.co.uk/technical-centre](https://bauder.co.uk/technical-centre)

Bauder continually tests its systems for fire performance and so if the permutation of products you are specifying is not stated in our latest BBA certificate, please contact [technical@bauder.co.uk](mailto:technical@bauder.co.uk) for clarification.