

## TECHNICAL SYSTEM SUMMARY

## Bauder Total Roof System

### BITUMINOUS TWO LAYER SOLUTION

The Bauder Total Roof System is a long-standing, tried and tested system, with a reputation second to none. It utilises robust SBS modified bitumen membranes of the highest quality. The system features self-adhesive technology along with the patented 'DUO' lap system to provide securely welded laps whilst reducing installation time. A comprehensive range of guarantees that have a high level value of cover are available for this system.

#### Bauder K5K Cap Sheet

is a torch bonded, heavy duty SBS elastomeric bitumen membrane featuring a spunbond polyester reinforcement with expandable graphite fire retardant.

#### BauderTEC KSA DUO Underlayer

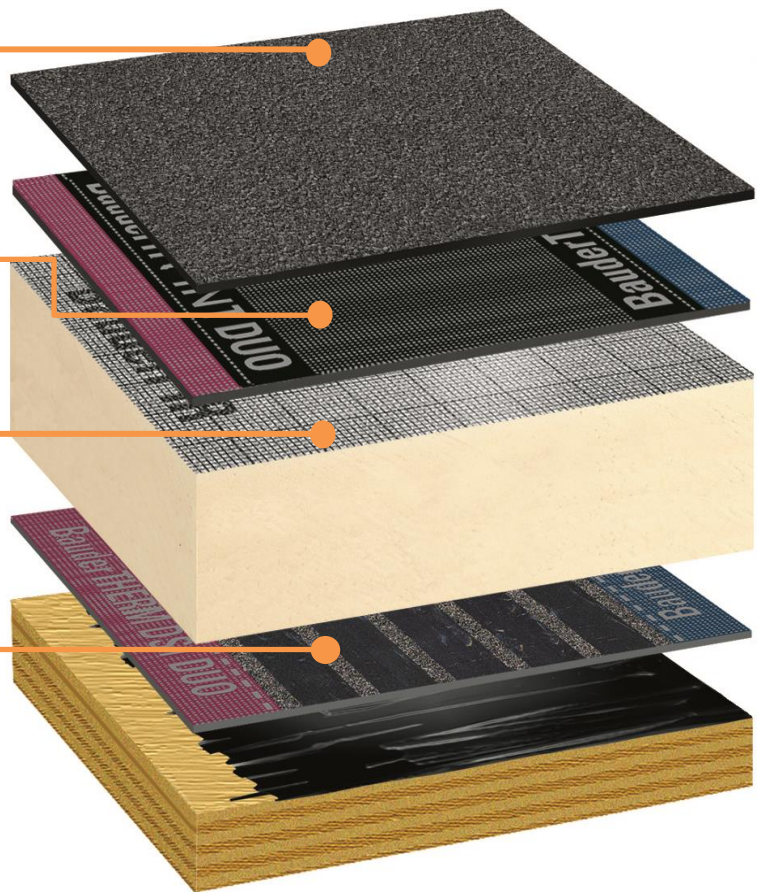
is a self-adhesive elastomeric bituminous membrane with glass lattice reinforcement, incorporating the 'DUO' lap technology.

#### BauderPIR FA-TE Insulation

is thermally efficient, lightweight, fire resistant and zero ODP rated. The insulation is foil-faced on both sides for increased thermal efficiency. As an alternative, Bauder PIR Tapered Insulation can be used for improved drainage falls.

#### BauderTHERM DS1 DUO Vapour Barrier

is a self-adhesive membrane incorporating patented 'DUO' lap technology. Its upper surface has a torch activated bituminous bonding compound for the adhesion of the insulation.

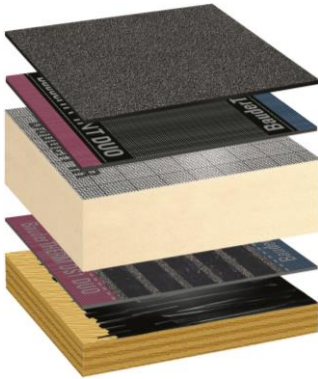


### When to Specify

The system is equally suited to either new build or refurbishment projects. This is the safety conscious option as there is no requirement for hot bitumen and the use of the self-adhesive vapour barrier and underlayer means that the requirement for naked flame is minimised. The foil facing on the insulation means that a 120mm board achieves a 'U' value of 0.17W/M<sup>2</sup>K.

### Bauder Total Roof System

#### Weight Loading



Product	Thickness (mm)	Weight (Kg/m <sup>2</sup> )
Bauder K5K Capsheet (Charcoal grey)	5.2	6.5
BauderTEC KSA DUO Underlayer	3.0	3.5
Bauder PIR FA-TE Insulation	120*	3.6
BauderTHERM DS1 DUO Vapour Barrier	3.5	4.5
<b>Totals</b>	<b>131.7</b>	<b>18.1</b>

\* Example insulation thickness shown above, achieves a typical 'U' value of 0.17W/m<sup>2</sup>K. The table below gives a comparison of the thicknesses needed to achieve U value requirements on a 18mm plywood deck.

#### U Values



BAUDER PIR FA-TE INSULATION		
Thickness (mm)	Approx. 'U' value (W/m <sup>2</sup> K)	Weight (Kg/m <sup>2</sup> )
110*	0.19	3.3
120	0.17	3.6
130*	0.16	3.9
140	0.15	4.2
150*	0.14	4.5
160	0.13	4.8
170*	0.12	5.1
180*	0.12	5.4
190*	0.11	5.7
200*	0.11	6.0

\* Denotes that this thickness is only available in quantities over 1000m<sup>2</sup>