

TECHNICAL SYSTEM SUMMARY

Airtech System

FLAME-FREE TWO LAYER BITUMINOUS SOLUTION

When site conditions prohibit the use of a naked flame, but a high quality bitumen system is required, Bauder's Airtech System is a natural choice. It combines the latest generation of heat activated self-adhesive bitumen membranes with polyurethane adhesives and hot air welding techniques to produce an unrivalled flame-free alternative. A comprehensive range of guarantees are available for this system.

BauderTEC KSO SN Cap Sheet

is a self-adhesive elastomeric bituminous membrane with laps that are sealed using 240V hot air welding equipment. It uses expandable graphite fire retardant to prevent the spread of flame in the event of fire breaking out on the roof.

BauderTEC KSA DUO Underlayer

is a self-adhesive elastomeric bituminous membrane with glass lattice reinforcement and patented 'DUO' lap technology.

BauderPIR FA-TE Insulation

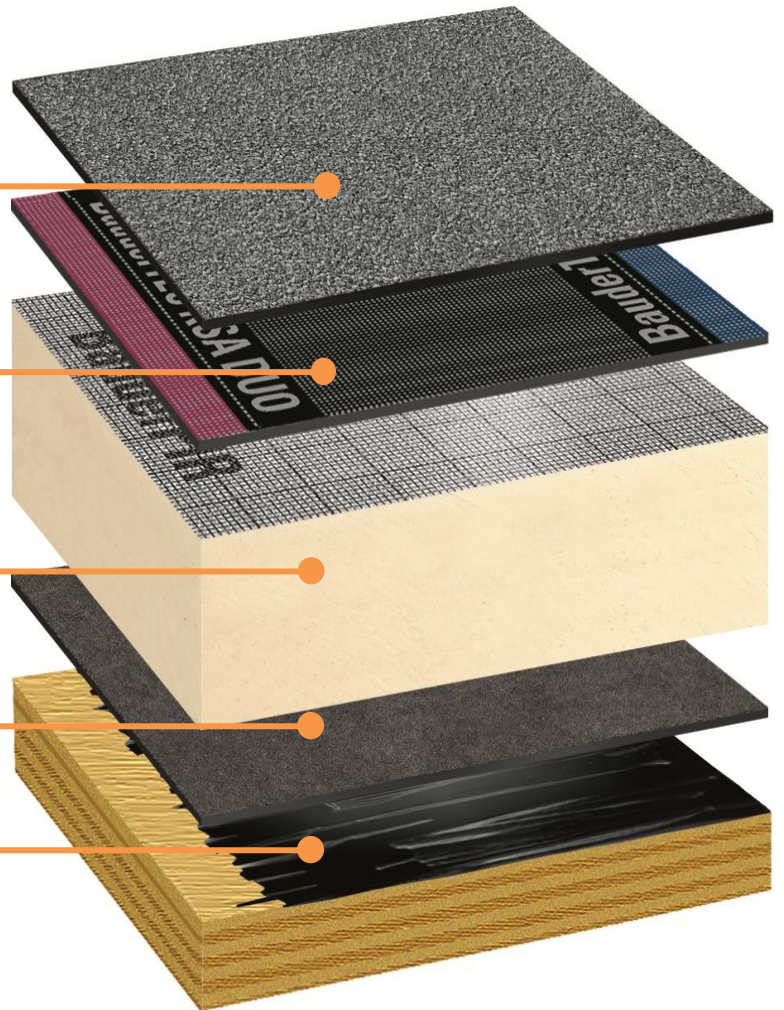
is highly efficient, lightweight, fire resistant and zero ODP rated. The insulation is foil faced on both sides for increased thermal efficiency.

BauderTEC KSD Mica Vapour Barrier

is a self-adhesive elastomeric bituminous membrane with a mica finish

Bauder SA Bonding Primer

Special primer for use with self-adhesive membranes



When to Specify

When safety is of paramount importance, the Airtech System is robust and durable so that it easily withstands foot traffic along with permanently sited plant. It can be used in both warm and cold roof design on all normal types of deck construction and is equally suited to either new build or refurbishment projects. The foil facing on the insulation means that a 120mm board achieves a 'U' value of 0.18W/M²K.

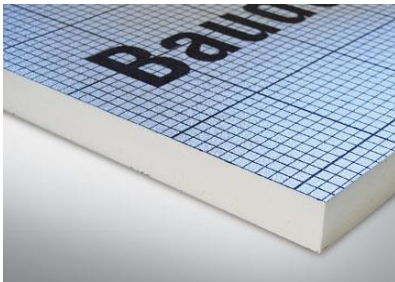
Weight Loading



Product	Thickness (mm)	Weight (Kg/m ²)
BauderTEC KSO SN Cap sheet	4.0	4.4
BauderTEC KSA DUO Underlayer	3.0	3.5
BauderPIR FA-TE Insulation	120*	3.6
BauderTEC KSD DUO Vapour Barrier	1.5	1.8
Bauder SA Bonding Primer	N/A	0.25
Totals	128.5	13.55

* Example insulation thickness shown above, achieves a typical 'U' value of 0.17W/m²K. 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 ² K)	Weight (Kg/m ²)
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 1000m²