

## ROCK MINERAL WOOL INSULATION BOARDS FOR ROOFING

### WHAT ARE SPRA COMPONENT QUALITY STANDARDS?

SPRA Component Quality Standards set a benchmark of performance for products used in single ply membrane systems. They are a vital aid to specification and define the minimum technical standard for membership of the Association. All SPRA CQS are available by download from [www.spra.co.uk](http://www.spra.co.uk)

### PRODUCT DESCRIPTION

Rigid boards formed by a process of spinning molten volcanic rock at 1500°C into wool, which is then impregnated with resin and cured. Boards may have additional facing for certain applications.

### TYPICAL APPLICATIONS

Warm flat and pitched roof constructions in conjunction with single ply membranes where thermal, acoustic and fire protection performance is required. Products for use under mechanically fastened or fully-adhered single ply membranes. Contact the appropriate manufacturer for product specific data.

### HARMONISED EUROPEAN PRODUCT SPECIFICATION

EN13162 Thermal insulation products for buildings - Factory made mineral wool (MW) products – Specification.

REQUIREMENTS				
Product characteristic	Symbol	Characteristic value/class	Tolerances	Test Method
<b>DIMENSIONAL</b>				
Thickness	d	30-195mm	-1 +3mm, T5	BS EN 823
Width	b	600-1200mm	± 5mm	BS EN 822
Length	l	1000–2000mm	± 3mm	BS EN 822
Deviation from squareness (on length & width)	S <sub>b</sub>	±3mm/500mm	–	BS EN 824
Flatness	S <sub>max</sub>	± 6 mm	–	BS EN 825
Flatness	S <sub>max</sub>	± 6 mm	–	BS EN 825
Dimensional stability	–	Dimensionally stable	–	BS EN 826
<b>THERMAL</b>				
Conductivity (10°C)	λ <sub>D</sub>	0.037-0.039 W/mK	–	BS EN 12667 or BS EN 12939
<b>FIRE</b>				
Euroclass	–	A1, Non-combustible	–	BS EN 13501-1
<b>MECHANICAL</b>				
Density	–	155-200kg/m <sup>3</sup>	± 10%	
Compressive Strength (at 10% deformation)	CS(10)	65-100 kPa*	–	BS EN 826
Point Load strength	PL(5)	≥ 650N	–	BS EN 12430
Tensile Strength (perpendicular to faces)	σ <sub>mt</sub>	≥ 15 kPa	–	BS EN 1607
<b>MOISTURE</b>				
Water Vapour Transmission	μ	1	–	BS EN 12086

\*Notes This requirement applies to homogeneous materials and the top layer of multi-layer or composite products.

### SPRA ASSOCIATE MEMBERS

Knauf Insulation Ltd ([www.knaufinsulation.co.uk](http://www.knaufinsulation.co.uk))  
 Rockwool Ltd ([www.rockwool.co.uk](http://www.rockwool.co.uk))