

**COMPONENT QUALITY STANDARDS**

**ROCK MINERAL WOOL ROOFING BOARDS**

<b>Product Description</b>	Rock mineral wool is formed by a process of spinning molten volcanic rock at 1500 °C into wool, which is then impregnated with resin and cured to form rigid boards.			
<b>BS EN: 13162</b> Thermal insulation products for buildings – Factory made mineral wool (MW) products –Specification.				
<b>Product characteristic</b>	<b>Symbol</b>	<b>Characteristic values</b>	<b>Tolerances</b>	<b>Test Method</b>
<b>Dimensional</b>				
Thickness	$d$	30-150mm	-1+3mm, T5	BS EN 823
Width	$b$	600-1200mm	±1.5 %	BS EN 822
Length	$l$	1000-2000mm	± 2 %	BS EN 822
Deviation from Squareness (on length & width)	$S_b$	≤ 5mm/m	-	BS EN 824
Flatness	$S_{max}$	≤ 6 mm	-	BS EN 825
Dimensional Stability	-	Dimensionally Stable	-	BS EN 826
<b>Thermal</b>				
Conductivity (10 °C)	$\lambda_D$	0.037-0.040 W/mK	-	BS EN 12939 or BS EN 12667
<b>Fire</b>				
Euroclass	-	A1, Non combustible	-	BS EN 13501-1
<b>Mechanical</b>				
Density	-	130-200kg/m <sup>3</sup>	± 10%	-
Compressive Strength At 10% deformation	CS(10)	60-100 kPa*	-	BS EN 826
Point Load strength	PL(5)	≥ 500N	-	BS EN 12430
Tensile Strength perpendicular to faces	$\sigma_{mt}$	≥ 15 kPa	-	BS EN 1607
<b>Moisture</b>				
Water Vapour Transmission	$\mu$	1	-	BS EN 12086
<b>SPRA Manufacturers</b>	<ul style="list-style-type: none"> <li>• Knauf Insulation Ltd <a href="http://www.knaufinsulation.co.uk">www.knaufinsulation.co.uk</a></li> <li>• Rockwool Ltd <a href="http://www.rockwool.co.uk">www.rockwool.co.uk</a></li> </ul>			
<b>Typical Applications</b>	Warm flat roof constructions 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.			
<b>Comments</b>				
*This requirement applies to homogeneous materials and the top layer of multi layer or composite products.				