

Fire properties

Reaction to Fire		
Property	Value	According to
Reaction to Fire, Euroclass	A1	EN 14303:2009+A1:2013 (EN 13501-1)

Continuous Glowing Combustion		
Property	Value	According to
Continuous Glowing Combustion	NPD	EN 14303:2009+A1:2013

Thermal Properties

Thermal Resistance		
Property	Value	According to
Thermal Conductivity in 10 °C, λ_{10}	0,037 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 50 °C, λ_{50}	0,041 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 100 °C, λ_{100}	0,046 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 150 °C, λ_{150}	0,052 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 200 °C, λ_{200}	0,059 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 300 °C, λ_{300}	0,077 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 400 °C, λ_{400}	0,099 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 500 °C, λ_{500}	0,128 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 600 °C, λ_{600}	0,162 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Dimensions and Tolerances	T5	EN 14303:2009+A1:2013 (EN 823)

Moisture Properties

Water Permeability		
Property	Value	According to
Water Absorption, Short Term WS, W_p	$\leq 1 \text{ kg/m}^2$	EN 14303:2009+A1:2013 (EN 1609)

Water Vapour Permeability		
Property	Value	According to
Water Vapour Diffusion Resistance	NPD	EN 14303:2009+A1:2013 (EN 12086)

Rate of Release of Corrosive Substances

Trace Quantities of Water Soluble Ions and the pH Value		
Property	Value	According to
Chloride Ions, Cl ⁻	< 10 ppm	EN 14303:2009+A1:2013 (EN 13468)

Complies with the requirements set by BS 2972 Part 12.

Sound Properties

Acoustic Absorption Index		
Property	Value	According to
Sound Absorption	NPD	EN 14303:2009+A1:2013 (EN ISO 354)

Mechanical Properties

Compressive Strength		
Property	Value	According to
Compressive stress at 10 % deformation CS(10), σ_{10}	NPD	EN 14303:2009+A1:2013 (EN 826)

Emissions

Release of Dangerous Substances to the Indoor Environment		
Property	Value	According to
Release of Dangerous Substances	NPD	EN 14303:2009+A1:2013

Durability

Durability of Reaction to Fire Against Ageing/Degradation

No change in reaction to fire properties for mineral wool products. The fire performance of mineral wool does not deteriorate with time. The Euroclass classification of the product is related to the organic content, which cannot increase with time.

Durability of Reaction to Fire Against High Temperature

The fire performance of mineral wool does not deteriorate with high temperature. The Euroclass classification of the product is related to the organic content, which remains constant or decreases with high temperature.

Durability of Thermal Resistance Against Ageing/Degradation

Thermal conductivity of mineral wool products does not change with time, experience has shown the fibre structure to be stable and the porosity contains no other gases than atmospheric air.

More Information

PAROC Pro Slab 140 can be used to satisfy the requirements as given in the tables for Environmental Thickness in BS5422:2009. Paroc can offer help and assistance to customers to confirm that the insulation systems proposed do in fact, achieve the necessary performance criteria. PAROC Pro Slab 140 conforms to BS3958-5.

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