

PAROC ROS 60

Roof slab



Certification Number	0809-CPR-1015 / VTT Expert Services Ltd, P.O. Box 1001, FI-02044 VTT, Finland, 18.12.2013
Designation Code	MW-EN13162-T5-DS(70,-)-CS(10)60-PL(5)550-WS-WL(P)-MU1
Short Description	Very rigid, fire safe stone wool slab with high thermal insulation performance and high bearing capacity.
Application	Thermal insulation in flat roofs of concrete or corrugated steel sheets. Suitable as single-layer insulation in buildings where the required thermal insulation thickness is below 120 mm.

PAROC stone wool products are capable of withstanding high temperatures. The binder starts to evaporate when its temperature exceeds approximately 200°C. The insulating properties remain unchanged, but the compressive stress weakens. The softening temperature of stone wool products is over 1000°C.

Dimensions

Dimensions	
Width x Length	Thickness
1200 x 1800 mm	40 - 120 mm
In accordance with EN 822	In accordance with EN 823

Dimensional Stability		
Property	Value	According to
Dimensional Stability at Specified Temperature (Declared), DS(70,-)	≤ 1 %	EN 13162:2012 (EN 1604)

Other Dimensions Other sizes available on request.

Packaging

Package Type Plastic Package, Plastic Packages on a Pallet or Loose Product on a Wooden / Stone Wool Pallet

Fire Properties

Reaction to Fire

Property	Value	According to
Reaction to Fire, Euroclass	A1	EN 13162:2012 (EN 13501-1)

Continuous Glowing Combustion

Property	Value	According to
Continuous Glowing Combustion	NPD	EN 13162:2012

Other Fire Properties

Property	Value	According to
Combustibility	Non-combustible	EN ISO 1182

Flat roofs insulated with stone wool means a better insurance against big catastrophes at fire.

Thermal Properties

Thermal Resistance

Property	Value	According to
Thermal Resistance	See attachment	EN 13162:2012
Thermal Conductivity λ_D	0,039 W/mK	EN 13162:2012
Thickness Tolerance, T	T5	EN 13162:2012 (EN 823)

Direct Airborne Sound Insulation Index

Property	Value	According to
Air Flow Resistivity AF_R	NPD	EN 13162:2012 (EN 29053)

One layer insulation is excellent for re-insulation of old roofs.

Moisture Properties

Water Permeability

Property	Value	According to
Water Absorption, Short Term WS, W_p	$\leq 1 \text{ kg/m}^2$	EN 13162:2012 (EN 1609)
Water Absorption, Long Term WL(P), W_{lp}	$\leq 3 \text{ kg/m}^2$	EN 13162:2012 (EN 12087)

Water Vapour Permeability

Property	Value	According to
Water Vapour Transmission MU, μ	1	EN 13162:2012 (EN 12086)

Flat roofs insulated by stone wool can keep moisture and dry out when the circumstances in climate is available.

Sound Properties

Acoustic Absorption Index

Property	Value	According to
Sound Absorption	NPD	EN 13162:2012 (EN ISO 354)

Mechanical Properties

Compressive Strength

Property	Value	According to
Compressive stress at 10 % deformation CS(10), σ_{10}	60 kPa	EN 13162:2012 (EN 826)
Point Load (Declared), PL(5)	550 N	EN 13162:2012 (EN 12430)

Emissions

Release of Dangerous Substances to the Indoor Environment

Property	Value	According to
Release of Dangerous Substances	NPD	EN 13162:2012

Durability

Durability of Reaction to Fire Against Heat, Weathering, Ageing/Degradation, The fire performance of mineral wool does not deteriorate with time. The Euroclass classification of product is related to the organic content, which cannot increase with time.

Durability of Thermal Resistance Against Heat, Weathering, 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.

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