

PAROC Cortex

Wind protection slab



Certification Number	0809-CPR-1015 / Eurofins Expert Services Ltd, P.O. Box 1001, FI-02044 VTT, Finland
Designation Code	MW-EN13162-T5-DS(70,-)-WS-WL(P)-Z(0,10)
Short Description	Wind protection slab PAROC Cortex is non-combustible stone wool insulation with integrated non-combustible wind tight facing for existing and new well-ventilated external walls in multi storey buildings.
Application	Wind protection insulation slab can be used in double layer system. Wind protection slab is faced with a vapour permeable, windproof membrane which creates excellent barrier against weather. Good vapour permeability allows possible moisture to dry safely without causing condensation problems inside the construction. The joints should be sealed with a special tape.

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	30 - 70 mm
In accordance with EN 822	In accordance with EN 13162

Dimensional Stability		
Property	Value	According to
Dimensional Stability at Specified Temperature, DS(70,-)	≤ 1 %	EN 13162:2012 + A1:2015 (EN 1604)

Other Dimensions

Other sizes available on request.

Packaging

Package Type

Plastic Package, Plastic Packages on a Pallet or Loose Product on a Pallet

Fire Properties

Reaction to Fire		
Property	Value	According to
Reaction to Fire, Euroclass	A2 - s1, d0	EN 13162:2012 + A1:2015 (EN 13501-1)

Continuous Glowing Combustion		
Property	Value	According to
Continuous Glowing Combustion	NPD	EN 13162:2012 + A1:2015

Other Fire Properties		
Property	Value	According to
Combustibility	Base product non-combustible	EN ISO 1182

Thermal Properties

Thermal Resistance		
Property	Value	According to
Thermal Resistance	See attachment	EN 13162:2012 + A1:2015
Thermal Conductivity λ_D	0,033 W/mK	EN 13162:2012 + A1:2015
Thickness Tolerance, T	T5	EN 13162:2012 + A1:2015 (EN 823)

Air Permeability		
Property	Value	According to
Air Permeability Coefficient for Facing, L	-6 m ³ /m ² Pas	

Direct Airborne Sound Insulation Index		
Property	Value	According to
Air Flow Resistivity AF _R	NPD	EN 13162:2012 + A1:2015 (EN 29053)

Moisture Properties

Water Permeability		
Property	Value	According to
Water Absorption, Short Term WS, W _p	≤ 1 kg/m ²	EN 13162:2012 + A1:2015 (EN 1609)
Water Absorption, Long Term WL(P), W _{lp}	≤ 3 kg/m ²	EN 13162:2012 + A1:2015 (EN 12087)

Water Vapour Permeability		
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Property	Value	According to
Water Vapour Resistance Z	0,10 m ² hPa/mg	EN 13162:2012 + A1:2015
Water Vapour Transmission MU, μ	NPD	EN 13162:2012 + A1:2015

Sound Properties

Acoustic Absorption Index		
Property	Value	According to
Sound Absorption	NPD	EN 13162:2012 + A1:2015 (EN ISO 354)

Impact Noise Transmission Index (for Floors)		
Property	Value	According to
Dynamic Stiffness SD	NPD	EN 13162:2012 + A1:2015 (EN 29052-1)

Mechanical Properties

Compressive Strength		
Property	Value	According to
Compressive Stress at 10 % deformation CS(10), σ_{10}	NPD	EN 13162:2012 + A1:2015 (EN 826)
Compressive Strength CS(Y), σ_m	NPD	EN 13162:2012 + A1:2015 (EN 826)
Point Load PL(5)	NPD	EN 13162:2012 + A1:2015 (EN 12340)

Property	Value	According to
Compressibility CP	NPD	EN 13162:2012 + A1:2015

Tensile/Flexural Strength		
Property	Value	According to
Tensile Strength Perpendicular to Faces TR, σ_{mt}	NPD	EN 13162:2012 + A1:2015 (EN 1607)

Emissions

Release of Dangerous Substances to the Indoor Environment		
Property	Value	According to
Release of Dangerous Substances	NPD	EN 13162:2012 + A1:2015

Durability

Durability of Compressive Strength against Ageing/Degradation		
Property	Value	According to
Compressive Creep CC(i1/i2/y) σ_c , X_{ct}	NPD	EN 13162:2012 + A1:2015 (EN 1606)

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.

Facings

Facing Material

Wind tight covering

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