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#### PAROC ROB 80t

#### Roof board





**PAROC** 

Certification Number 0809-CPR-1015 / Eurofins Expert

Services Ltd, P.O. Box 1001, FI-

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MW-EN13162-T5-DS(70,-)-**Designation Code** 

CS(10)80-PL(5)700-WS-WL(P)-MU1

**Short Description** Very rigid, fire safe stone wool board

> with high thermal insulation performance and load bearing capacity. It is faced with natural

coloured glass tissue.

Application Roofing board developed to provide

> sustainable fire safe bedding for most types of flat roofs, and as thermal insulation and bearing layer in

renovation sites.

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	20 - 30 mm
In accordance with EN 822	In accordance with EN 823

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

Other Dimensions

Other sizes available on request.

### **Packaging**

Paroc Group © 2020 1(4) Package Type

On a wooden pallet bearers are of stone wool



## **Fire Properties**

Reaction to Fire		
Property	Value	According to
Reaction to Fire, Euroclass	A1	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	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 + A1:2015
Thermal Conductivity $\lambda_D$	0,038 W/mK	EN 13162:2012 + A1:2015
Thickness Tolerance, T	Т5	EN 13162:2012 + A1:2015 (EN 823)

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

## **Moisture Properties**

Water Permeability		
Property	Value	According to
Water Absorption, Short Term WS, Wp	≤ 1 kg/m²	EN 13162:2012 + A1:2015 (EN 1609)
Water Absorption, Long Term WL(P), W <sub>lp</sub>	≤ 3 kg/m²	EN 13162:2012 + A1:2015 (EN 12087)

Water Vapour Permeability		
Property	Value	According to
Water Vapour Resistance Z	NPD	EN 13162:2012+A1:2015
Water Vapour Transmission MU, μ	1	EN 13162:2012 + A1:2015 (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	
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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), $\sigma_{10}$	80 kPa	EN 13162:2012 + A1:2015 (EN 826)
Compressive Strength CS(Y), $\sigma_{m}$	NPD	EN 13162:2012 + A1:2015 (EN 826)
Point Load PL(5)	700 N	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, $\sigma_{mt}$	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) $\sigma_c$ , $X_{ct}$	NPD	EN 13162:2012 + A1:2015 (EN 1606)

Durability of Reaction to Fire Against Heat, Weathering, The fire performance of mineral wool Ageing/Degradation does not deteriorate with time. The

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 Glass fibre tissue

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