

## DECLARATION OF PERFORMANCE

No. 40301

Unique identification code of the product-type	PAROC Pro Mat 50
Intended use/es	Thermal insulation for building equipment and industry
Manufacturer	Paroc Group, Energiakuja 3, FI-00180 Helsinki
System/s of AVCP	AVCP 1 for Reaction to fire, AVCP 3 for other properties
Harmonised standard	EN 14303:2009+A1:2013
Notified body/ies	No. 0809 - Eurofins Expert Services Ltd

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Helsinki 28.9.2020



Paroc Oy Ab, Technical Insulation  
Tommi Siitonen, Segment Manager

### Declared Performance/s

PROPERTY	VALUE	ACCORDING TO
<b>DIMENSIONAL STABILITY</b>		
Maximum Service Temperature - Dimensional Stability	350 °C	EN 14303:2009+A1:2013 (EN 14706)
<b>DURABILITY OF FIRE AND THERMAL PROPERTIES</b>		
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.	

## Declared Performance/s

PROPERTY	VALUE	ACCORDING TO
<b>REACTION TO FIRE</b>		
Reaction to Fire, Euroclass	A1	EN 14303:2009 (EN 13501-1)
<b>CONTINUOUS GLOWING COMBUSTION</b>		
Continuous Glowing Combustion	NPD	EN 14303:2009+A1:2013
<b>THERMAL RESISTANCE</b>		
Thermal Conductivity in 50 °C, $\lambda_{50}$	0,042 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 100 °C, $\lambda_{100}$	0,054 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 150 °C, $\lambda_{150}$	0,068 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 200 °C, $\lambda_{200}$	0,085 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 250 °C, $\lambda_{250}$	0,106 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 300 °C, $\lambda_{300}$	0,132 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 400 °C, $\lambda_{400}$	0,199 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Dimensions and Tolerances	T2	EN 14303:2009+A1:2013
<b>WATER PERMEABILITY</b>		
Water Absorption, Short Term WS, ( $W_p$ )	$\leq 1 \text{ kg/m}^2$	EN 14303:2009+A1:2013 (EN 1609)
<b>WATER VAPOUR PERMEABILITY</b>		
Water Vapour Diffusion Resistance	NPD	EN 14303:2009+A1:2013 (EN 12086)
<b>ACOUSTIC ABSORPTION INDEX</b>		
Sound Absorption	NPD	EN 14303:2009+A1:2013 (EN ISO 354)
<b>COMPRESSIVE STRENGTH</b>		
Compressive Stress at 10 % deformation CS(10), $\sigma_{10}$	NPD	EN 14303:2009+A1:2013 (EN 826)
<b>TRACE QUANTITIES OF WATER SOLUBLE IONS AND THE PH VALUE</b>		
Chloride Ions, Cl-	< 10 ppm	EN 14303:2009+A1:2013 (EN 13468)
<b>RELEASE OF DANGEROUS SUBSTANCES TO THE INDOOR ENVIRONMENT</b>		
Release of Dangerous Substances	NPD	EN 14303:2009+A1:2013