

PRODUCT DATASHEET

PAROC Pro Segment WR DL1



Water repellent prefabricated insulation component made of stone wool in two layers.

Thermal insulation of pipe elbows in industrial pipework.

Inner layer (DL1) is Made from PAROC Pro Segment 140, outer layer (DL2) is made from PAROC Pro Segment 100.

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.

Certification Number 0809-CPR-1016 Eurofins Expert Services Ltd, Kivimiehentie 4, FI-02150 Espoo, Finland

Designation Code PS140: MW-EN 14303-T8/T9-ST(+)640-WS1-CL10; PS100: MW-EN 14303-T8/T9-ST(+)640-WS1-CL10

Nominal Density PS140: 140 kg/m³; PS100: 100 kg/m³

Package Type Plastic packs on pallet

DIMENSIONS		
THICKNESS	INNER DIAMETER	PIPE SECTION LENGTH
80 - 160 mm	219 - 914	
According to EN 13467	According to EN 13467	
Other Dimensions: Other dimensions available on request.		

PROPERTY	VALUE	ACCORDING TO
DIMENSIONAL STABILITY		
Maximum Service Temperature - Dimensional Stability	PS140: 680 °C; PS100: 640 °C	EN 14303:2009+A1:2013 (EN 14707)

Properties

PROPERTY	VALUE	ACCORDING TO
FIRE PROPERTIES		
Reaction to Fire, Euroclass	A1 _L	EN 14303:2009+A1:2013 (EN 13501-1)
Continuous Glowing Combustion	NPD	EN 14303:2009+A1:2013
THERMAL PROPERTIES		
Thermal Conductivity in 50 °C, λ_{50}	PS140: 0,041 W/mK PS100: 0,039 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 100 °C, λ_{100}	PS140: 0,047 W/mK PS100: 0,045 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 150 °C, λ_{150}	PS140: 0,054 W/mK PS100: 0,054 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 200 °C, λ_{200}	PS140: 0,063 W/mK PS100: 0,064 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 250 °C, λ_{250}	PS140: 0,073 W/mK PS100: 0,077 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 300 °C, λ_{300}	PS140: 0,085 W/mK PS100: 0,092 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Thermal Conductivity in 400 °C, λ_{400}	PS140: 0,110 W/mK	EN 14303:2009+A1:2013 (EN ISO 8497)
Dimensions and Tolerances	T8/T9	EN 14303:2009+A1:2013
MOISTURE PROPERTIES		
Water Absorption, Short Term WS, (W_p)	$\leq 1 \text{ kg/m}^2$	EN 14303:2009+A1:2013 (EN 13472)
Water Vapour Diffusion Resistance	NPD	EN 14303:2009+A1:2013 (EN 13469)
Chloride Ions, Cl ⁻	< 10 ppm	EN 14303:2009+A1:2013 (EN 13468)
PAROC WR Segments are providing very low water absorption < 0,1 kg/m ² at temperatures up to 300 °C according to EN 13472.		
SOUND PROPERTIES		
Sound Absorption	NPD	EN 14303:2009+A1:2013 (EN ISO 354)
MECHANICAL PROPERTIES		
Compressive Stress at 10 % deformation CS(10), σ_{10}	NPD	EN 14303:2009+A1:2013 (EN 826)
EMISSIONS		
Release of Dangerous Substances	NPD	EN 14303:2009+A1:2013
DURABILITY OF FIRE AND THERMAL PROPERTIES		
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.	



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