



**ЗБІРКА АРКУШІВ ТЕХНІЧНИХ ДАНИХ**  
**TECHNICAL DATA SHEETS**

## PRODUCT DATASHEET



### PAROC Pro Wired Mat 550

#### Мат з кам'яної вати з гальванізованою сіткою

Stone wool wired mat with galvanized net. Even available with stainless steel net and/or sewing wire. PAROC products are safe to use in combination with painting operations. PAROC products are 3rd party tested and certified according to the the most stringent class of the LABS conformity (paint wetting impairment) standard, VDMA-24364.

Thermal insulation of cylindrical, conic and flat surfaces.

**Термічна ізоляція циліндричних, конічних та плоских поверхонь**

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

MW-EN 14303-T2-ST(+)-600-WS1-CL10

#### Номинальна густина

#### Nominal Density

70 kg/m<sup>3</sup>

#### Package Type

Plastic Packs on Pallet **Тип пакування: пластикові пакунки (плівка) на палетах**

DIMENSIONS	Розміри	Товщина
WIDTH X LENGTH		THICKNESS
Width 500/600/900/1000 mm, length 2000 - 8000 mm depending on thickness. mm	довжина 2-8 м в залежності від товщини	30 - 120 mm
According to EN 822		According to EN 823

PROPERTY	VALUE	ACCORDING TO
<b>DIMENSIONAL STABILITY</b>		
Maximum Service Temperature - Dimensional Stability	600 °C	EN 14303:2009+A1:2013 (EN 14706)

**Максимальна температура застосування із збереженням геометричної стабільності**

## Pro Wired Mat 550

### Properties

PROPERTY	VALUE	ACCORDING TO
<b>FIRE PROPERTIES</b> Поведінка у вогні		
Reaction to Fire, Euroclass	A1	EN 14303:2009 (EN 13501-1)
Continuous Glowing Combustion	NPD	EN 14303:2009+A1:2013
<b>THERMAL PROPERTIES</b> Термічні властивості		
Thermal Conductivity in 10 °C, $\lambda_{10}$ (теплопровідність)	0,037 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 50 °C, $\lambda_{50}$	0,042 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 100 °C, $\lambda_{100}$	0,049 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 150 °C, $\lambda_{150}$	0,057 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 200 °C, $\lambda_{200}$	0,067 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 250 °C, $\lambda_{250}$	0,079 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 300 °C, $\lambda_{300}$	0,093 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 400 °C, $\lambda_{400}$	0,126 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 500 °C, $\lambda_{500}$	0,166 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 600 °C, $\lambda_{600}$	0,215 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Dimensions and Tolerances	T2	EN 14303:2009+A1:2013
<b>MOISTURE PROPERTIES</b> Відношення до вологи		
Water Absorption, Short Term WS, ( $W_p$ ) водопоглинання	$\leq 1 \text{ kg/m}^2$	EN 14303:2009+A1:2013 (EN 1609)
Water Vapour Diffusion Resistance	NPD	EN 14303:2009+A1:2013 (EN 12086)
Chloride Ions, Cl- вміст іонів хлору	< 10 ppm	EN 14303:2009+A1:2013 (EN 13468)
<b>SOUND PROPERTIES</b>		
Sound Absorption	NPD	EN 14303:2009+A1:2013 (EN ISO 354)
<b>MECHANICAL PROPERTIES</b>		
Compressive Stress at 10 % deformation CS(10), $\sigma_{10}$	NPD	EN 14303:2009+A1:2013 (EN 826)
<b>EMISSIONS</b>		
Release of Dangerous Substances	NPD	EN 14303:2009+A1:2013
<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.	

### Appearance

Facing Material	Steel wire net. Stainless steel wire net
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Head Office: PAROC GROUP, P.O. Box 240 (Energiakuja 3), FI-00181 Helsinki Finland, Tel. +358 46 876 8000, www.paroc.com

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## PRODUCT DATASHEET



### PAROC Pro Wired Mat WR 660

Stone wool wired mat with galvanized net. Even available with stainless steel net and/or sewing wire. PAROC WR products are safe to use in combination with painting operations. PAROC WR products are 3rd party tested and certified according to the most stringent class of the LABS conformity (paint wetting impairment) standard, VDMA-24364.

Fire and thermal insulation of cylindrical, conic and flat surfaces.

**Вогнезахист та термічна ізоляція циліндричних, конічних та плоских поверхонь**

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.

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

**Certification Number**

**Designation Code**

**Nominal Density** 80 kg/m<sup>3</sup> **Номінальна густина** 80 кг/куб.м

**Package Type**

Plastic Packs on Pallet

DIMENSIONS <b>Розміри</b>	
WIDTH X LENGTH	THICKNESS
Width 500/600/900/1000 mm, length 2000 - 8000 mm depending on thickness. mm	30 - 120 mm
According to EN 822	According to EN 823

PROPERTY	VALUE	ACCORDING TO
<b>DIMENSIONAL STABILITY</b>		
Maximum Service Temperature - Dimensional Stability	660 °C	EN 14303:2009+A1:2013 (EN 14706)

**Максимальна температура застосування із збереженням стабільності розмірів** +660 C

## Pro Wired Mat 660

### Properties **ВЛАСТИВОСТІ**

PROPERTY	VALUE	ACCORDING TO
<b>FIRE PROPERTIES</b> <b>Характеристики поведінки у вогні</b>		
Reaction to Fire, Euroclass <b>Реакція на вогонь</b>	A1 <b>Євроклас A1</b>	EN 14303:2009+A1:2013 (EN 13501-1)
Continuous Glowing Combustion	NPD	EN 14303:2009+A1:2013
<b>THERMAL PROPERTIES</b> <b>Термічні властивості (теплопровідність)</b>		
Thermal Conductivity in 10 °C, $\lambda_{10}$	0,035 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 50 °C, $\lambda_{50}$	0,039 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 100 °C, $\lambda_{100}$	0,045 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 150 °C, $\lambda_{150}$	0,053 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 200 °C, $\lambda_{200}$	0,062 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 250 °C, $\lambda_{250}$	0,072 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 300 °C, $\lambda_{300}$	0,084 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 400 °C, $\lambda_{400}$	0,111 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 500 °C, $\lambda_{500}$	0,146 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 600 °C, $\lambda_{600}$	0,190 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 660 °C, $\lambda_{660}$	0,213 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Dimensions and Tolerances	T2	EN 14303:2009+A1:2013
<b>MOISTURE PROPERTIES</b> <b>властивості по відношенню до вологи</b>		
Water Absorption, Short Term WS, ( $W_p$ )	$\leq 1$ kg/m <sup>2</sup> <b>водопоглинання</b>	EN 14303:2009+A1:2013 (EN 1609)
Water Vapour Diffusion Resistance	NPD <b>спротив дифузії водяної пари</b>	EN 14303:2009+A1:2013 (EN 12086)
Chloride Ions, Cl- <b>вміст іонів хлору</b>	< 10 ppm	EN 14303:2009+A1:2013 (EN 13468)
PAROC Wired Mat WR products are providing very low water absorption < 0,1 kg/m <sup>2</sup> at temperatures up to 300 °C according to EN 1609 and EN 12087.		
<b>SOUND PROPERTIES</b>		
Sound Absorption	NPD	EN 14303:2009+A1:2013 (EN ISO 354)
<b>MECHANICAL PROPERTIES</b>		
Compressive Stress at 10 % deformation CS(10), $\sigma_{10}$	NPD	EN 14303:2009+A1:2013 (EN 826)
<b>EMISSIONS</b>		
Release of Dangerous Substances	NPD	EN 14303:2009+A1:2013
<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.	

### Appearance

Facing Material	Steel wire net. Stainless steel wire net.
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## PRODUCT DATASHEET



### PAROC Pro Mat 50

Stone wool mat. **мат з кам'яної вати**

Thermal insulation in industrial equipments and applications.

#### термічна ізоляція промислового обладнання

Вироби з кам'яної вати Paroc здатні витримувати високу температуру. Зв'язуюче починає випаровуватися за температур приблизно +200С. Ізоляційні властивості не змінюються.

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.

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

MW-EN 14303-T2-ST(+)-350-WS1-CL10

50 kg/m<sup>3</sup> **номінальна густина 50 кг/куб.м**

Plastic Packs on Pallet

температура розмягчення продукту понад 1000С

**Certification Number**

**Designation Code**

**Nominal Density**

**Package Type**

DIMENSIONS <b>розміри</b>	
WIDTH X LENGTH <b>ширина x довжина</b>	THICKNESS <b>товщина</b>
1000 x 8000 mm	30 mm
1000 x 7000 mm	40 mm
1000 x 6500 mm	50 mm
1000 x 6000 mm	60 mm
1000 x 5500 mm	70 mm
1000 x 5000 mm	80 mm
1000 x 4500 mm	90 mm
1000 x 4000 mm	100 mm
1000 x 3000 mm	110 mm
1000 x 2500 mm	120 mm
According to EN 822	According to EN 823

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

максимальна температура застосування  
із збереженням геометричної стабільності **350 C**

## Pro Mat 50

### Properties

PROPERTY	VALUE	ACCORDING TO
<b>FIRE PROPERTIES</b> вогняні властивості		
Reaction to Fire, Euroclass	реакція на вогонь A1	EN 14303:2009 (EN 13501-1)
Continuous Glowing Combustion	NPD	EN 14303:2009+A1:2013
<b>THERMAL PROPERTIES</b> коефіцієнт теплопровідності		
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>MOISTURE PROPERTIES</b> відношення до вологи		
Water Absorption, Short Term WS, ( $W_p$ )	$\leq 1 \text{ kg/m}^2$ водопоглинання	EN 14303:2009+A1:2013 (EN 1609)
Water Vapour Diffusion Resistance	NPD	EN 14303:2009+A1:2013 (EN 12086)
Chloride Ions, Cl-	< 10 ppm вміст іонів хлору	EN 14303:2009+A1:2013 (EN 13468)
<b>SOUND PROPERTIES</b>		
Sound Absorption	NPD	EN 14303:2009+A1:2013 (EN ISO 354)
<b>MECHANICAL PROPERTIES</b>		
Compressive Stress at 10 % deformation CS(10), $\sigma_{10}$	NPD	EN 14303:2009+A1:2013 (EN 826)
<b>EMISSIONS</b>		
Release of Dangerous Substances	NPD	EN 14303:2009+A1:2013
<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.	



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## PRODUCT DATASHEET



### PAROC Pro Mat 50 AluCoat

Stone wool mat with reinforced aluminated facing **мат з кам'яної вати з посиленим алюмінієвим покриттям**

Thermal insulation for industrial applications when insulating flat or irregular shaped equipment where surface temperature is rather low.

**Термічна ізоляція промислового застосування для плоских поверхонь та складного обладнання.**

**Температура поверхні ізоляції не повинна перевищувати +80C**

Surface temperature of the facing must not exceed 80°C (temperature restriction determined in accordance with heat resistance adhesive).

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.

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MW-EN 14303-T2-ST(+)-350-WS1-MV2-CL10

50 kg/m<sup>3</sup> **номінальна густина 50 кг/куб.м**

Plastic Packs on Pallet

Вироби з кам'яної вати Paroc здатні витримувати високу температуру. Зв'язуюче починає випаровуватись за температур близько 200C. Ізоляційні властивості не змінюються, проте зменшується компресійна міцність. Температура розм'ягчення кам'яної вати понад 1000C

#### Certification Number

#### Designation Code

#### Nominal Density

#### Package Type

DIMENSIONS <b>ЗОЗМІРИ</b>	
WIDTH X LENGTH <b>ШИРИНА X ДОВЖИНА</b>	THICKNESS <b>ТОВЩИНА</b>
1000 x 8000 mm	30 mm
1000 x 7000 mm	40 mm
1000 x 6500 mm	50 mm
1000 x 6000 mm	60 mm
1000 x 5500 mm	70 mm
1000 x 5000 mm	80 mm
1000 x 4500 mm	90 mm
1000 x 4000 mm	100 mm
1000 x 3000 mm	110 mm
1000 x 2500 mm	120 mm
According to EN 822	According to EN 823

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

**Максимальна температура застосування із збереженням геометричної стабільності +350 C**



## Pro Mat 50 AluCoat

### Properties **ХАРАКТЕРИСТИКИ**

PROPERTY	VALUE	ACCORDING TO
<b>FIRE PROPERTIES</b> <b>Вогняні властивості</b>		
Reaction to Fire, Euroclass <b>Реакція на вогонь (клас)</b>	A1	EN 14303:2009 (EN 13501-1)
Continuous Glowing Combustion	NPD	EN 14303:2009+A1:2013
<b>THERMAL PROPERTIES</b> <b>коефіцієнт теплопровідності</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>MOISTURE PROPERTIES</b> <b>відношення до вологи</b>		
Water Absorption, Short Term WS, ( $W_p$ )	$\leq 1 \text{ kg/m}^2$ <b>водопоглинання</b>	EN 14303:2009+A1:2013 (EN 1609)
Water Vapour Diffusion Resistance	MV2	EN 14303:2009+A1:2013 (EN 12086)
Chloride Ions, Cl-	< 10 ppm <b>вміст іонів хлору</b>	EN 14303:2009+A1:2013 (EN 13468)
<b>SOUND PROPERTIES</b>		
Sound Absorption	NPD	EN 14303:2009+A1:2013 (EN ISO 354)
<b>MECHANICAL PROPERTIES</b>		
Compressive Stress at 10 % deformation CS(10), $\sigma_{10}$	NPD	EN 14303:2009+A1:2013 (EN 826)
<b>EMISSIONS</b>		
Release of Dangerous Substances	NPD	EN 14303:2009+A1:2013
<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.	

### Appearance

Facing Material	Reinforced alulaminat
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## PRODUCT DATASHEET



### PAROC Hvac Lamella Mat AluCoat

ламельний мат з кам'яної вати з покриттям армованою алюмінієвою фольгою  
Stone wool lamella mat with reinforced aluminium foil facing. For Marine applications also available with facing G4.

Thermal and condensation insulation of air ducts and other ventilation ducts and equipment.

термічна та протиконденсатна ізоляція повітропроводів та іншого вентиляційного обладнання

Surface temperature of the facing must not exceed 80 °C (temperature restriction determined in accordance with heat resistance adhesive).

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.

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

Type-Examination (Module B) certificate No. EUFI29-21001822-MED

MW-EN 14303-T4-ST(+)+250-WS1-MV2-CL10

Plastic Packs on Pallet

**Certification Number**

**Designation Code**

**Package Type**

Температура поверхні покриття мату не повина перевищувати +80С (здатність опору клейового шару)

Продукти з кам'яної вати Paroc здатні витримувати високі температури. Зв'язуюче починає випаровуватися за температур приблизно 200С

DIMENSIONS	
WIDTH X LENGTH	THICKNESS
Width 1000 or 500 mm. Length 2500 - 10000 mm depending on thickness.	20 - 100 mm
According to EN 822	According to EN 823

PROPERTY	VALUE	ACCORDING TO
DIMENSIONAL STABILITY		
Maximum Service Temperature - Dimensional Stability	250 °C	EN 14303:2009+A1:2013 (EN 14707)

## hvac Lamella Mat 50 AluCoat

### Properties

PROPERTY	VALUE	ACCORDING TO
<b>FIRE PROPERTIES</b>		
Reaction to Fire, Euroclass	A1	EN 14303:2009+A1:2013 (EN 13501-1)
Continuous Glowing Combustion	NPD	EN 14303:2009+A1:2013
Fire Classification (IMO)	Non-combustible	IMO FTP Code Part 1
Surface Flammability (IMO)	Low flame-spread characteristics	IMO FTP Code Part 2 and 5
<b>THERMAL PROPERTIES</b>		
Thermal Conductivity in 10 °C, $\lambda_{10}$	0,038 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 50 °C, $\lambda_{50}$	0,047 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 100 °C, $\lambda_{100}$	0,059 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 150 °C, $\lambda_{150}$	0,074 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 200 °C, $\lambda_{200}$	0,091 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 250 °C, $\lambda_{250}$	0,110 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Dimensions and Tolerances	T4	EN 14303:2009+A1:2013
<b>MOISTURE PROPERTIES</b>		
Water Absorption, Short Term WS, ( $W_p$ )	$\leq 1 \text{ kg/m}^2$	EN 14303:2009+A1:2013 (EN 1609)
Water Vapour Diffusion Resistance	IM2	EN 14303:2009+A1:2013 (EN 12086)
Chloride Ions, Cl-	< 10 ppm	EN 14303:2009+A1:2013 (EN 13468)
<b>SOUND PROPERTIES</b>		
Sound Absorption	NPD	EN 14303:2009+A1:2013 (EN ISO 354)
<b>MECHANICAL PROPERTIES</b>		
Compressive Stress at 10 % deformation CS(10), $\sigma_{10}$	NPD	EN 14303:2009+A1:2013 (EN 826)
<b>EMISSIONS</b>		
Release of Dangerous Substances	NPD	EN 14303:2009+A1:2013
<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.	

### Appearance

Facing Material	Reinforced aluminium foil facing
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Head Office: PAROC GROUP, P.O. Box 240 (Energiakuja 3), FI-00181 Helsinki Finland, Tel. +358 46 876 8000, [www.paroc.com](http://www.paroc.com)

The information in this brochure describes the conditions and technical properties of the disclosed products, valid at the time of publication of this document and until replaced by the next printed or digital version. The latest version of this brochure is always available on the Paroc website. Our information material presents applications for which the functions and technical properties of our products have been approved. However, the information does not mean a commercial guarantee. We do not assume liability of the use of third party components used in the application or the installation of our products. We cannot warrant the suitability of our products if used in an area or conditions which are not provided in our information material. As a result of constant further development of our products we reserve the right to make alterations to our information material at any time. PAROC is a registered trademark of Paroc Group. This data sheet is valid in following countries: international use (general information).

## PRODUCT DATASHEET



### PAROC Fireplace Slab 90 AL1

Stone wool slab with aluminium foil facing.

Thermal insulation of furnace chamber and fireplaces (used to the inside insulation of furnace casing).

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**

MW-EN 14303-T5-WS1

**Nominal Density**

90 kg/m<sup>3</sup>

**Package Type**

Carton

DIMENSIONS		
WIDTH X LENGTH	THICKNESS	
600 x 1000 mm	25 - 100 mm	
According to EN 822	According to EN 823	
Other Dimensions: Other dimensions available on request.		
PROPERTY	VALUE	ACCORDING TO
DIMENSIONAL STABILITY		
Maximum Service Temperature - Dimensional Stability	NPD	EN 14303:2009+A1:2013 (EN 14706)

## Properties

PROPERTY	VALUE	ACCORDING TO
<b>FIRE PROPERTIES</b>		
Reaction to Fire, Euroclass	A1	EN 14303:2009 (EN 13501-1)
Continuous Glowing Combustion	NPD	EN 14303:2009+A1:2013
<b>THERMAL PROPERTIES</b>		
Thermal Conductivity in 10 °C, $\lambda_{10}$	0,037 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Dimensions and Tolerances	T5	EN 14303:2009+A1:2013
<b>MOISTURE PROPERTIES</b>		
Water Absorption, Short Term WS, ( $W_p$ )	$\leq 1 \text{ kg/m}^2$	EN 14303:2009+A1:2013 (EN 1609)
Water Vapour Diffusion Resistance	M2	EN 14303:2009+A1:2013 (EN 12086)
Chloride Ions, Cl-	NPD	EN 14303:2009+A1:2013 (EN 13468)
<b>SOUND PROPERTIES</b>		
Sound Absorption	NPD	EN 14303:2009+A1:2013 (EN ISO 354)
<b>MECHANICAL PROPERTIES</b>		
Compressive Stress at 10 % deformation CS(10), $\sigma_{10}$	NPD	EN 14303:2009+A1:2013 (EN 826)
<b>EMISSIONS</b>		
Release of Dangerous Substances	NPD	EN 14303:2009+A1:2013
<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.	

## Appearance

Facing Material	Pure aluminium foil
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## PAROC Pro Loose Mat 70



Certification Number	0809-CPR-1016 / Eurofins Expert Services Ltd, Kivimiehentie 4, FI-02150 Espoo, Finland
Designation Code	MW-EN 14303-T2-ST(+250)600-WS1-CL10
Short Description	Stone wool mat with low binder content.
Application	Thermal insulation in industrial equipments and applications. Excellent product for irregular shapes and filling when stone wool need to be used as a loose wool insulation.
Nominal Density	70 kg/m <sup>3</sup>

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
1000 x 6500 mm	40 mm
1000 x 5000 mm	50 mm
1000 x 4000 mm	60 mm
1000 x 3500 mm	80 mm
1000 x 2500 mm	100 mm
1000 x 2000 mm	120 mm
In accordance with EN 822	In accordance with EN 823

Dimensional Stability		
Property	Value	According to
Maximum Service Temperature - Dimensional Stability	(+250)600 °C	EN 14303:2009+A1:2013 (EN 14706)

### Packaging

Package Type

Plastic Packs on Pallet

## Fire Properties

Reaction to Fire		
Property	Value	According to
Reaction to Fire, Euroclass	A1	EN 14303:2009 (EN 13501-1)

## Thermal Properties

Thermal Resistance		
Property	Value	According to
Thermal Conductivity in 50 °C, $\lambda_{50}$	0,042 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 100 °C, $\lambda_{100}$	0,048 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 150 °C, $\lambda_{150}$	0,056 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 200 °C, $\lambda_{200}$	0,067 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 250 °C, $\lambda_{250}$	0,080 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 300 °C, $\lambda_{300}$	0,097 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Thermal Conductivity in 400 °C, $\lambda_{400}$	0,142 W/mK	EN 14303:2009+A1:2013 (EN 12667)
Dimensions and Tolerances	T2	EN 14303:2009+A1:2013

## Moisture Properties

Water Permeability		
Property	Value	According to
Water Absorption, Short Term WS, $W_p$	$\leq 1 \text{ kg/m}^2$	EN 14303:2009+A1:2013 (EN 1609)

## Rate of Release of Corrosive Substances

Trace Quantities of Water Soluble Ions and the pH Value		
Property	Value	According to
Chloride Ions, Cl <sup>-</sup>	< 10 ppm	EN 14303:2009+A1:2013 (EN 13468)

## Durability

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.