

PAROC Pro Wired Mat 100



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| Certification Number | 0809-CPR-1016 / Eurofins Expert Services Ltd, Kivimiehentie 4, FI-02150 Espoo, Finland |
| Designation Code | MW-EN 14303-T2-ST(+)-660-WS1-CL10 |
| Short Description | Stone wool wired mat with galvanized net. Available also with stainless steel net code W2 will be added after the product name. |
| Application | Fire and thermal insulation of cylindrical, conic and level surfaces. |
| Nominal Density | 100 kg/m ³ |

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 |
| Width 500/600/900/1000 mm, length 2000 - 8000 depending on thickness. | 30 - 120 mm |
| In accordance with EN 822 | In accordance with EN 823 |

| Dimensional Stability | | |
|---|--------|----------------------------------|
| Property | Value | According to |
| Maximum Service Temperature - Dimensional Stability | 660 °C | EN 14303:2009+A1:2013 (EN 14706) |

Packaging

| | |
|--------------|-------------------------|
| Package Type | Plastic Packs on Pallet |
|--------------|-------------------------|

| Reaction to Fire | | |
|-----------------------------|-------|------------------------------------|
| Property | Value | According to |
| Reaction to Fire, Euroclass | A1 | EN 14303:2009+A1:2013 (EN 13501-1) |

| Continuous Glowing Combustion | | |
|-------------------------------|-------|-----------------------|
| Property | Value | According to |
| Continuous Glowing Combustion | NPD | EN 14303:2009+A1:2013 |

Thermal Properties

| Thermal Resistance | | |
|---|------------|----------------------------------|
| Property | Value | According to |
| Thermal Conductivity in 10 °C, λ_{10} | 0,039 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 50 °C, λ_{50} | 0,042 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 100 °C, λ_{100} | 0,047 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 200 °C, λ_{200} | 0,063 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 300 °C, λ_{300} | 0,083 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 400 °C, λ_{400} | 0,110 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 500 °C, λ_{500} | 0,142 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 600 °C, λ_{600} | 0,180 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 ⁻ | < 10 ppm | EN 14303:2009+A1:2013 (EN 13468) |

Sound Properties

| Acoustic Absorption Index | | |
|---------------------------|-------|------------------------------------|
| Property | Value | According to |
| Sound Absorption | NPD | EN 14303:2009+A1:2013 (EN ISO 354) |

Emissions

| Release of Dangerous Substances to the Indoor Environment | | |
|---|-------|-----------------------|
| Property | Value | According to |
| Release of Dangerous Substances | NPD | EN 14303:2009+A1:2013 |

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.

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.

Facings

Facing Material

Steel wire net. Stainless steel wire net.

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