

PAROC Pro Lock WR 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-T8/T9-ST(+)-640-WS1-CL10 |
| Short Description | Water repellent stone wool pipe section with a Z-joint on the longitudinal and circumferential seams. |
| Application | Insulation of industrial pipework with high temperatures. |
| 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 | | |
|-----------------------------|-----------------------------|-----------------------------|
| Thickness | Inner Diameter | Pipe Section Length |
| 80 - 160 mm | 219 - 914 mm | 1200 mm |
| In accordance with EN 13467 | In accordance with EN 13467 | In accordance with EN 13467 |

| Dimensional Stability | | |
|-----------------------------------------------------|--------|----------------------------------|
| Property | Value | According to |
| Maximum Service Temperature - Dimensional Stability | 640 °C | EN 14303:2009+A1:2013 (EN 14707) |

Packaging

| | |
|---------------------|-------------------------------------|
| Package Type | Carton on pallet, plastic on pallet |
| Single Package Size | Carton 300 x 400 x 1200 mm |
| Pallet Size | 1200 x 1200 mm |

Fire properties

| Reaction to Fire | | |
|-----------------------------|-----------------|------------------------------------|
| Property | Value | According to |
| Reaction to Fire, Euroclass | A1 _L | 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 50 °C, λ_{50} | 0,039 W/mK | EN 14303:2009+A1:2013 (EN ISO 8497) |
| Thermal Conductivity in 100 °C, λ_{100} | 0,045 W/mK | EN 14303:2009+A1:2013 (EN ISO 8497) |
| Thermal Conductivity in 200 °C, λ_{200} | 0.064 W/mK | EN 14303:2009+A1:2013 (EN ISO 8497) |
| Thermal Conductivity in 300 °C, λ_{300} | 0.092 W/mK | EN 14303:2009+A1:2013 (EN ISO 8497) |
| Dimensions and Tolerances | T8 for outer diameter < 150 mm, T9 for outer diameter \geq 150 mm | 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 13472) |

| Water Vapour Permeability | | |
|-----------------------------------|-------|----------------------------------|
| Property | Value | According to |
| Water Vapour Diffusion Resistance | NPD | EN 14303:2009+A1:2013 (EN 13469) |

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) |

Complies with the requirements set by BS 2972 Part 12 (even after preheated up to 250 °C).

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.

More Information

PAROC Pro Lock WR 100 can be used to satisfy the requirements as given in the tables for insulation thickness in BS5422:2009. Paroc can offer help and assistance to customers to confirm that insulation systems proposed do in fact achieve the necessary performance criteria. PAROC Pro Lock WR 100 conforms to BS3958-4.

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