

PAROC Pro Roof Slab 50 kPa



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| Certification Number | 0809-CPR-1016 / Eurofins Expert Services Ltd, Kivimiehentie 4, FI-02150 Espoo. Finland |
| Designation Code | MW-EN 14303-T5-ST(+)-660-CS(10)50-WS1-CL10 |
| Short Description | Stone wool slab. |
| Application | Thermal insulation of tank tops. |

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 |
| 600 x 1200 mm | 30, 40, 50, 60, 70, 80, 100, 120, 140 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) |

| | |
|------------------|--|
| Other Dimensions | Other dimensions available on request. |
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Packaging

| | |
|--------------------|-------------------------|
| Package Type | Plastic packs on pallet |
| Package on Request | Slabs on pallet |

Fire Properties

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 50 °C, λ_{50} | 0,042 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 100 °C, λ_{100} | 0,046 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 150 °C, λ_{150} | 0,052 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 200 °C, λ_{200} | 0,060 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 250 °C, λ_{250} | 0,069 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 300 °C, λ_{300} | 0,081 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} | 0,147 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 600 °C, λ_{600} | 0,192 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Dimensions and Tolerances | T5 | 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) |

Water Vapour Permeability

| Property | Value | According to |
|-----------------------------------|-------|----------------------------------|
| Water Vapour Diffusion Resistance | NPD | EN 14303:2009+A1:2013 (EN 12086) |

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) |

Mechanical Properties

Compressive Strength

| Property | Value | According to |
|--|--------|--------------------------------|
| Compressive Stress at 10 % deformation CS(10), σ_{10} | 50 kPa | EN 14303:2009+A1:2013 (EN 826) |

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. |

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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