

## PAROC Pro Slab 140



|                      |   |
|----------------------|---|
| Certification Number | 0809-CPR-1016 / VTT Expert Services Ltd, P.O. Box 1001, FI-02044 VTT, Finland |
| Designation Code     | MW-EN 14303-T5-ST(+)-660-WS1-CL10   |
| Short Description    | Stone wool slab.  |
| Application          | Thermal insulation slab for industrial applications.                          |
| Nominal Density      | 140 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                 |
| 600 x 1200 mm             | 30 - 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.

### 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, $\lambda_{100}$ | 0,046 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 150 °C, $\lambda_{150}$ | 0,052 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 200 °C, $\lambda_{200}$ | 0,060 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 250 °C, $\lambda_{250}$ | 0,069 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 300 °C, $\lambda_{300}$ | 0,081 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 400 °C, $\lambda_{400}$ | 0,110 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 500 °C, $\lambda_{500}$ | 0,147 W/mK | EN 14303:2009+A1:2013 (EN 12667) |
| Thermal Conductivity in 600 °C, $\lambda_{600}$ | 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) |

## 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

The fire performance of mineral wool does not deteriorate with time. The Euroclass classification of 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.

Durability of Thermal Resistance Against High Temperature

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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