

# PAROC Pro Wired Mat 100 AL1

(PAROC Wired Mat 100 AL1)



## Short Description

Stone wool wired mat with aluminium foil facing.

## Application

Fire and thermal insulation of cylindrical, conic and level surfaces. At high temperatures the coating is of significance for insulating the radiation heat.

## Technical Properties

### Nominal Density

100 kg/m<sup>3</sup>

### Maximum Service Temperature

750 °C

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

### Width x Length

width x 2000 - 6000 mm

### Thickness

30-100 mm

### Other Dimensions

Width can be 500, 600, 900 or 1000 mm depending on the supplying factory.

## Packaging

Plastic Packs on Pallet

## Fire Properties

### Reaction to Fire, Euroclass

A1

### In accordance with

EN 13501-1

## Thermal Properties

**Thermal Conductivity in 10 °C,  $\lambda_{10}$**  0.034 W/mK

**Thermal Conductivity in 50 °C,  $\lambda_{50}$**  0.039 W/mK

**Thermal Conductivity in 100 °C,  $\lambda_{100}$**  0.046 W/mK

**Thermal Conductivity in 150 °C,  $\lambda_{150}$**  0.055 W/mK

**Thermal Conductivity in 200 °C,  $\lambda_{200}$**  0.065 W/mK

**Thermal Conductivity in 300 °C,  $\lambda_{300}$**  0.090 W/mK

**Thermal Conductivity in 400 °C,  $\lambda_{400}$**  0.122 W/mK

**Thermal Conductivity in 500 °C,  $\lambda_{500}$**  0.160 W/mK

Values announced by manufacturer.

## Moisture Properties

Complies with the requirements set by BS 2972 Part 12.

## Other Information

PAROC Wired Mat 100 AL1 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 the insulation systems proposed do in fact, achieve the necessary performance criteria. PAROC Wired Mat 100 AL1 conforms to BS3958-3.



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