

## PRODUCT DATASHEET



### PAROC Pro Segment WR DL 120

Water repellent prefabricated insulation component made of stone wool in two layers.

Thermal insulation of pipe elbows in industrial pipework.

Inner layer (DL1) or outer layer (DL2) can be also higher density segment PAROC Pro Segment 140.

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.

**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

**Nominal Density**

120 kg/m³

**Package Type**

Plastic packs on pallet

| DIMENSIONS                                               |                       |                                  |
|----------------------------------------------------------|-----------------------|----------------------------------|
| THICKNESS                                                | INNER DIAMETER        | PIPE SECTION LENGTH              |
| 50 - 160 mm                                              | 114 - 1016            |                                  |
| According to EN 13467                                    | According to EN 13467 |                                  |
| Other Dimensions: Other dimensions available on request. |                       |                                  |
| PROPERTY                                                 | VALUE                 | ACCORDING TO                     |
| DIMENSIONAL STABILITY                                    |                       |                                  |
| Maximum Service Temperature - Dimensional Stability      | 640 °C                | EN 14303:2009+A1:2013 (EN 14707) |

## Properties

| PROPERTY                                                                                                                              | VALUE                                                                                                                                                                                                                                                    | ACCORDING TO                        |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>FIRE PROPERTIES</b>                                                                                                                |                                                                                                                                                                                                                                                          |                                     |
| Reaction to Fire, Euroclass                                                                                                           | A1 <sub>L</sub>                                                                                                                                                                                                                                          | EN 14303:2009+A1:2013 (EN 13501-1)  |
| Continuous Glowing Combustion                                                                                                         | NPD                                                                                                                                                                                                                                                      | EN 14303:2009+A1:2013               |
| <b>THERMAL PROPERTIES</b>                                                                                                             |                                                                                                                                                                                                                                                          |                                     |
| Thermal Conductivity in 50 °C, $\lambda_{50}$                                                                                         | 0,041 W/mK                                                                                                                                                                                                                                               | EN 14303:2009+A1:2013 (EN ISO 8497) |
| Thermal Conductivity in 100 °C, $\lambda_{100}$                                                                                       | 0,047 W/mK                                                                                                                                                                                                                                               | EN 14303:2009+A1:2013 (EN ISO 8497) |
| Thermal Conductivity in 150 °C, $\lambda_{150}$                                                                                       | 0,054 W/mK                                                                                                                                                                                                                                               | EN 14303:2009+A1:2013 (EN ISO 8497) |
| Thermal Conductivity in 200 °C, $\lambda_{200}$                                                                                       | 0,063 W/mK                                                                                                                                                                                                                                               | EN 14303:2009+A1:2013 (EN ISO 8497) |
| Thermal Conductivity in 300 °C, $\lambda_{300}$                                                                                       | 0,085 W/mK                                                                                                                                                                                                                                               | EN 14303:2009+A1:2013 (EN ISO 8497) |
| Thermal Conductivity in 400 °C, $\lambda_{400}$                                                                                       | 0,110 W/mK                                                                                                                                                                                                                                               | EN 14303:2009+A1:2013 (EN ISO 8497) |
| Dimensions and Tolerances                                                                                                             | T8/T9                                                                                                                                                                                                                                                    | EN 14303:2009+A1:2013 (EN 823)      |
| <b>MOISTURE PROPERTIES</b>                                                                                                            |                                                                                                                                                                                                                                                          |                                     |
| Water Absorption, Short Term WS, (W <sub>p</sub> )                                                                                    | ≤ 1 kg/m <sup>2</sup>                                                                                                                                                                                                                                    | EN 14303:2009+A1:2013 (EN 13472)    |
| Water Vapour Diffusion Resistance                                                                                                     | NPD                                                                                                                                                                                                                                                      | EN 14303:2009+A1:2013 (EN 13469)    |
| Chloride Ions, Cl-                                                                                                                    | < 10 ppm                                                                                                                                                                                                                                                 | EN 14303:2009+A1:2013 (EN 13468)    |
| PAROC WR Segments are providing very low water absorption < 0,1 kg/m <sup>2</sup> at temperatures up to 300 °C according to EN 13472. |                                                                                                                                                                                                                                                          |                                     |
| <b>SOUND PROPERTIES</b>                                                                                                               |                                                                                                                                                                                                                                                          |                                     |
| Sound Absorption                                                                                                                      | NPD                                                                                                                                                                                                                                                      | EN 14303:2009+A1:2013 (EN ISO 354)  |
| <b>EMISSIONS</b>                                                                                                                      |                                                                                                                                                                                                                                                          |                                     |
| Release of Dangerous Substances                                                                                                       | NPD                                                                                                                                                                                                                                                      | EN 14303:2009+A1:2013               |
| <b>DURABILITY OF FIRE AND THERMAL PROPERTIES</b>                                                                                      |                                                                                                                                                                                                                                                          |                                     |
| 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.                                                            |                                     |



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