

PRODUCT DATASHEET



PAROC COS 10

Concrete panel slab

Rigid, fire safe stone wool slab with high thermal insulation performance.

Thermal insulation in concrete prefabricated panels and concrete constructions casting in situ.

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
Designation Code
Package Type

0809-CPR-1015 Eurofins Expert Services Ltd, P.O. Box 1001, FI-02044 VTT, Finland
MW-EN13162-T5-DS(70,-)-CS(10)10-WS-WL(P)-MU1
Plastic Package, Plastic Packages on a Pallet or slabs on wooden Pallet

| DIMENSIONS | |
|---|---------------------|
| WIDTH X LENGTH | THICKNESS |
| 600 x 1200 mm | 30 - 180 mm |
| 600 x 1500 mm | 30 - 180 mm |
| According to EN 822 | According to EN 823 |
| Other Dimensions: Other sizes available on request. | |

| PROPERTY | VALUE | ACCORDING TO |
|--|-------|-----------------------------------|
| DIMENSIONAL STABILITY | | |
| Dimensional Stability at Specified Temperature, DS(70,-) | ≤ 1 % | EN 13162:2012 + A1:2015 (EN 1604) |

Properties

| PROPERTY | VALUE | ACCORDING TO |
|--|---|--------------------------------------|
| FIRE PROPERTIES | | |
| Reaction to Fire, Euroclass | A1 | EN 13162:2012 + A1:2015 (EN 13501-1) |
| Continuous Glowing Combustion | NPD | EN 13162:2012 + A1:2015 |
| Combustibility | Non-combustible | EN ISO 1182 |
| THERMAL PROPERTIES | | |
| Thermal Resistance | https://www.paroc.com/~media/Files/Solutions/%20and%20Products/thermal-resistance-table-INT.ashx | EN 13162:2012 + A1:2015 |
| Thermal Conductivity λ_D | 0,035 W/mK | EN 13162:2012 + A1:2015 |
| Thickness Tolerance, T | T5 | EN 13162:2012 + A1:2015 (EN 823) |
| Air Flow Resistivity A_{FR} | NPD | EN 13162:2012 + A1:2015 (EN 29053) |
| MOISTURE PROPERTIES | | |
| Water Absorption, Short Term W_S , (W_p) | $\leq 1 \text{ kg/m}^2$ | EN 13162:2012 + A1:2015 (EN 1609) |
| Water Absorption, Long Term $W_L(P)$, (W_{lp}) | $\leq 3 \text{ kg/m}^2$ | EN 13162:2012 + A1:2015 (EN 12087) |
| Water Vapour Transmission MU , μ | 1 | EN 13162:2012 + A1:2015 (EN 12086) |
| Water Vapour Resistance Z | NPD | EN 13162:2012+A1:2015 |
| High moisture transmission capacity of stone wool provides for drying of temporary dampness. | | |
| SOUND PROPERTIES | | |
| Sound Absorption | NPD | EN 13162:2012 + A1:2015 (EN ISO 354) |
| Dynamic Stiffness SD | NPD | EN 13162:2012 + A1:2015 (EN 29052-1) |
| Compressibility | NPD | EN 13162:2012 + A1:2015 |
| MECHANICAL PROPERTIES | | |
| Compressive Stress at 10 % deformation $CS(10)$, σ_{10} | 10 kPa | EN 13162:2012 + A1:2015 (EN 826) |
| Compressive Strength $CS(Y)$, σ_m | NPD | EN 13162:2012 + A1:2015 (EN 826) |
| Point Load $PL(5)$ | NPD | EN 13162:2012 + A1:2015 (EN 12340) |
| Tensile Strength Perpendicular to Faces TR , σ_{mt} | NPD | EN 13162:2012 + A1:2015 (EN 1607) |
| Compressibility CP | | |
| Rigid insulation for constructions with static load or dynamic loading caused by concrete pouring. | | |
| EMISSIONS | | |
| Release of Dangerous Substances | NPD | EN 13162:2012 + A1:2015 |
| DURABILITY OF COMPRESSIVE STRENGTH AGAINST AGEING/DEGRADATION | | |
| Compressive Creep $CC(i_1/i_2/y)\sigma_c X_{ct}$ | NPD | EN 13162:2012 + A1:2015 (EN 1606) |
| DURABILITY OF FIRE AND THERMAL PROPERTIES | | |
| Durability of Reaction to Fire Against Heat, Weathering, 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 Thermal Resistance Against Heat, Weathering, 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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