

PRODUCT DATASHEET



PAROC COS 5

Concrete panel slab

PAROC COS 5 is a thermal insulation slab with lambda 0.035W/mK.

It is used in concrete sandwich elements.

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-1015 Eurofins Expert Services Ltd, P.O. Box 1001, FI-02044 VTT, Finland
Designation Code MW-EN13162-T5-DS(70,-)-CS(10)5-WS-WL(P)-MU1
Package Type Plastic Package, Plastic Packages on a Pallet or slabs on wooden Pallet

| DIMENSIONS | |
|---------------------|---------------------|
| WIDTH X LENGTH | THICKNESS |
| 600 x 1200 mm | 30 - 240 mm |
| 600 x 1500 mm | 30 - 240 mm |
| According to EN 822 | According to EN 823 |

| 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://paroc.com/thermal-resistance-table | 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 AF_R | 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 $W_L(P), (W_p)$ | $\leq 3 \text{ kg/m}^2$ | 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 |
| 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 $CS(10), \sigma_{10}$ | 5 kPa | EN 13162:2012 + A1:2015 (EN 826) |
| Compressive Strength $CS(Y), \sigma_m$ | 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) |
| EMISSIONS | | |
| Release of Dangerous Substances | NPD | EN 13162:2012 + A1:2015 |
| DURABILITY OF COMPRESSIVE STRENGTH AGAINST AGEING/DEGRADATION | | |
| Compressive Creep $CC(i_1/i_2)\sigma_c, X_{ct}$ | 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. | |

Handling

| INSTALLATION |
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| The insulation slab is attached to the element during factory casting. |



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