

PRODUCT DATASHEET



PAROC CES 60CS100

Metal panel core slab

Rigid, fire safe stone wool slab is to be cut into lamellas in the run direction of the wool production line.

Thermal insulation in metal faced sandwich panels. Insulation lamellas are glued under press to the panel covering sheets. Product properties of the ready panel are depending of used technique.

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,-)-WS-WL(P)-MU1
Slabs on a Wooden Pallet

| DIMENSIONS | |
|--|---------------------|
| WIDTH X LENGTH | THICKNESS |
| 600 - 1235 x 1200 - 3600 mm | 90 - 150 mm |
| According to EN 822 | According to EN 823 |
| Dimensions to be checked by the production line. | |

| 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 |
| Non-combustible core material creates additional fire resistance for light weight panels. | | |
| THERMAL PROPERTIES | | |
| Thermal Resistance | https://paroc.com/thermal-resistance-table | EN 13162:2012 + A1:2015 |
| Thermal Conductivity λ_D | 0,041 W/mK | EN 13162:2012 + A1:2015 (EN 13162) |
| Thickness Tolerance, T | T5 | EN 13162:2012 + A1:2015 (EN 823) |
| Air Flow Resistivity A_{FR} | NPD | EN 13162:2012 + A1:2015 (EN 29053) |
| No ageing increase to thermal conductivity because of open structure in the stone wool. | | |
| 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 |
| Long term durability on high level after ageing test in high temperature and moisture conditions. | | |
| 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) |
| MECHANICAL PROPERTIES | | |
| Compressive Stress at 10 % deformation $CS(10)$, σ_{10} | NPD | 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 | NPD | EN 13162:2012 + A1:2015 |
| Always to be used as cut into lamellas for designed thickness of the panel. | | |
| 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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