

# ProRox® SL 586

ProRox SL 586 is a pressure-resistant rigid stone wool insulation slab (board). This slab is produced with an innovative water-repellent binder, known as WR-Tech™, to mitigate the risk of corrosion under insulation (CUI). WR-Tech ensures our stone wool maintains its superior water repellency even at elevated operating temperatures within the CUI range, while preserving its excellent thermal performance in use.



## Application

The slab (board) is suitable for the thermal and acoustic insulation of high-temperature industrial applications exposed to foot traffic or constructions subjected to heavy mechanical loads, such as tank roofs.

## Product properties in accordance with EN 14303



| Properties                                     | Performance      |   |       |       |       |       |       |       |       |       |       |       | Norms                   |
|--|------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------------|
|  | T (°C)           | 50  | 100   | 150   | 200   | 250   | 300   | 350   | 400   | 500   | 600   | 650   |                         |
| <b>Thermal conductivity</b>                    | $\lambda$ (W/mK) | 0,043   | 0,048 | 0,054 | 0,061 | 0,068 | 0,077 | 0,086 | 0,097 | 0,119 | 0,145 | 0,160 | EN 12667                |
| <b>Maximum service temperature</b>             |                  | 650 °C  |       |       |       |       |       |       |       |       |       |       | EN 14706                |
| <b>Reaction to fire</b>                        |                  | Euroclass A1  |       |       |       |       |       |       |       |       |       |       | EN 13501-1              |
| <b>Nominal density</b>                         |                  | 150 kg/m <sup>3</sup>   |       |       |       |       |       |       |       |       |       |       | EN 1602                 |
| <b>Corrosion resistance</b>                    |                  | Trace quantity of water leachable chloride ions: $\leq 10$ mg/kg                                  |       |       |       |       |       |       |       |       |       |       | EN 13468                |
| <b>Water absorption</b>                        |                  | $\leq 0,2$ kg/m <sup>2</sup><br>$\leq 0,2$ kg/m <sup>2</sup> (After 24 hrs. pre-heating at 250°C) |       |       |       |       |       |       |       |       |       |       | EN 1609<br>EN ISO 29767 |
| <b>Compressive stress at 10% deformation</b>   |                  | 50 kPa  |       |       |       |       |       |       |       |       |       |       | EN 826                  |
| <b>Tensile strength perpendicular to faces</b> |                  | 10 kPa  |       |       |       |       |       |       |       |       |       |       | EN 1607                 |
| <b>Pointload at 5 mm deformation</b>           |                  | 400 N   |       |       |       |       |       |       |       |       |       |       | EN 12430                |
| <b>Designation code</b>                        |                  | MW EN 14303-T4(T3 if t<60)-ST(+)-650-CS(10)50-WS1-CL10  |       |       |       |       |       |       |       |       |       |       | EN 14303                |

## Compliance

ProRox SL 586 slabs fully comply with the requirements as set by internationally recognized standards like EN 14303, CINI 2.2.01 and ASTM C612.

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