



MIRELON® PANEL laminated by AL/ALZ

PEF - EN 14313 - ST(+) 90 – ST(-) -40 - WS 005 - CL 5 - PH 6,5

Thermoinsulating panel from polyethylene foam with closed cell structure

MIRELON® PANEL laminated by AL/ALZ is panel designed to insulate walls, ceilings, floors, roofs, water reservoirs, tanks, large-diameter heating and air distribution systems. Suitable for insulation in areas where washability is necessary for hygienic reasons.

MIRELON® PANEL laminated by AL/ALZ is an ideal thermal insulation material for new buildings, adaptations and renovations due to its excellent thermal insulation properties, flexibility and easy workability.

MISAPPLICATION:

- Thermal insulation of low and high pressure steam distribution systems
- Instalation in places where the ambient temperature exceeds 90°C
- Use of a self-adhesive strip to fastening of a strip with thickness 20 mm or more to vertical surfaces and ceilings

Technical data:

- laminated design, can be provided with self-adhesive layer
- panel thickness: 15, 20, 25, 30, 40, 50, 60, 70 and 80 mm (according to EN 14313:2009+A1:2013)
- panel width: 100 cm (according to EN 14313:2009+A1:2013)
- panel lenght: 2 m (according to EN 14313:2009+A1:2013)

Color: gray-black, white

MIRELON® PANEL laminated by AL/ALZ – physical properties

| Basic characteristic | | Properties | | | | Harmonized technical specification |
|---|---|----------------------------|-------------|---------|-------------|------------------------------------|
| | | °C | λ_D | °C | λ_D | |
| Thermal resistance | Coefficient of thermal conductivity W/m.K | -20 | 0,039 | 20 | 0,049 | EN 14313:2009+A1:2013 |
| | | 0 | 0,044 | 50 | 0,057 | |
| | | 10 | 0,046 | 90 | 0,069 | |
| | | Dimensions and tolerations | | | | |
| | - panel thickness | 15 mm | +/- 2 mm | > 30 mm | +/- 3,5 mm | |
| | 20 - 30 mm | +/- 2,5 mm | X | X | | |
| - panel width | ± +/- 1% | | | | | |
| - panel lenght | L +/- 1,5% | | | | | |
| Reaction on fire | Reaction on fire | F-s3, d2 | | | | |
| Thermal resistance stability in aging/degradation | Coefficient of thermal conductivity W/m.K | see table above | | | | |
| | Dimensions and tolerations | see table above | | | | |
| | Dimension stability | 3% | | | | |
| | Characteristic stability | it does not change | | | | |
| | Lowest operating temperature | -40°C | | | | |
| | Highest operating temperature | 90°C | | | | |
| Thermal resistance stability at high temperature | Characteristic stability | it does not change | | | | |
| | Dimension stability | 3% | | | | |
| | Highest operating temperature | 90°C | | | | |

NPD – no property has been determined




| Basic characteristic | | Properties | Harmonized technical specification |
|---|-------------------------------------|--------------------------------|------------------------------------|
| Stability of reaction on fire at high temperature | Characteristic stability | it does not change | EN 14313:2009+A1:2013 |
| Stability of reaction on fire in aging/degradation | Characteristic stability | it does not change | |
| Compressive strength | - | NPD | |
| Water permeability | Water absorption | WS 005 ($W_p \leq 0,05$) | |
| Water vapor permeability | Water absorption | NPD | |
| | Diffusion resistance | NPD | |
| Release of corrosive substances | Trace amount of soluble ions and pH | CL 5 (≤ 5 mg/kg), PH 6,5 | |
| Sound absorption index | Structure sound transmission | NPD | |
| | Sound absorption | NPD | |
| Release of hazardous substances into internal environment | Release of hazardous substances | NPD | |
| Burning by incandescent glow | Burning by incandescent glow | NPD | |

NPD – no property has been determined

The technical datasheet was drawn up on the basis of the protocols of the notified bodies: no. 1023 (Institut pro testování a certifikaci a.s., třída Tomáše Bati 299, Louky, 763 02 Zlín) and no. 1390 (Centrum stavebního inženýrství a.s., ul. Pražská 16, 102 00 Praha 10).

Approved 26. 5. 2022

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|---|-------------|-----------------|-------------|
|  1023, 1390 | | | |
| Mirel Vratimov a.s. Mourová 114/7, 739 32 Vratimov 12 POV 14/2022/EN | | | |
| EN 14313+A1 MIRELON® PANEL laminated by AL/ALZ Thermal insulation products for use as thermal insulation for equipment, buildings and industrial installation ThIBEII | | | |
| Coefficient of thermal conductivity W/m.K | | | |
| °C | λ_b | °C | λ_b |
| -20 | 0,039 | 20 | 0,049 |
| 0 | 0,044 | 50 | 0,057 |
| 10 | 0,046 | 90 | 0,069 |
| reaction on fire | | F-s3, d2 | |
| panel thickness | | see table below | |
| PEF - EN 14313 - ST(+) 90 - ST(-) -40- WS 005 - CL 5 - PH 6,5 | | | |

| |
|---|
| panel thickness |
| 15, 20, 25, 30, 40, 50, 60, 70 and 80 mm |