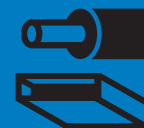


Orstech LSP 40

(TECH Lamella Mat 2.1 Alu2)
Lamella mat



Specification code: MW – EN 14303 – T4 – ST(+)-250 – WS1 – CL10

PRODUCT DESCRIPTION

Light lamella mat Orstech LSP 40 consists of mineral wool lamellas which have been glued to aluminium foil reinforced with a glass fibre grid, and these fibres are predominantly perpendicular to the surface of the mat.

APPLICATION

Lamella mat Orstech LSP 40 can be used universally for HVAC applications with lower service temperatures. It is suitable especially for air ducts.

Despite the fact that hydrophobing additives in the insulation impede the ingress of water, it is necessary to protect lamella mat in the construction against moisture and possible mechanical damage by a proper manner.

Orstech LSP 40 has a maximum service temperature of 250 °C according to EN 14706. Surface temperature on the aluminium side must not exceed 100 °C; proper thickness of insulation must be designed to fulfil that. Binders and greasing agents in mineral wool products dissolve and evaporate in areas with temperatures > 150 °C. In the outer, colder areas, no dissolution and evaporation take place.

PACKAGING, TRANSPORT, WAREHOUSING

The product is supplied as free rolls or palletized. Material has to be transported in covered vehicles under such conditions to avoid moistening or other degradation.

BENEFITS

- AS quality – suitable for use over stainless steel

DIMENSIONS AND PACKAGING

| Product | Thickness (mm) | Dimensions (mm) | Per package (m ²) | Rolls / Package | Packages / Pallet | m ² / Pallet |
|----------------|----------------|-----------------|-------------------------------|-----------------|-------------------|-------------------------|
| Orstech LSP 40 | 20 | 1000 × 8000 | 8.0 | 1 | 20 | 160.0 |
| Orstech LSP 40 | 30 | 1000 × 5000 | 5.0 | 1 | 20 | 100.0 |
| Orstech LSP 40 | 40 | 1000 × 4000 | 4.0 | 1 | 20 | 80.0 |
| Orstech LSP 40 | 50 | 1000 × 3000 | 3.0 | 1 | 20 | 60.0 |
| Orstech LSP 40 | 60 | 1000 × 3000 | 3.0 | 1 | 20 | 60.0 |
| Orstech LSP 40 | 80 | 1000 × 2000 | 2.0 | 1 | 20 | 40.0 |
| Orstech LSP 40 | 100 | 1000 × 2300 | 2.3 | 1 | 18 | 41.4 |

TECHNICAL PARAMETERS

| Parameter | Unit | Value | | | Standard | |
|--|-------------------------------------|----------------|-------|-------|-------------------|-------|
| THERMAL INSULATING PROPERTIES | | | | | | |
| Declared value of the thermal conductivity coefficient λ_D according to EN ISO 13787 | °C | 50 | 100 | 150 | 200 | 250 |
| | W·m ⁻¹ ·K ⁻¹ | 0.046 | 0.056 | 0.069 | 0.084 | 0.103 |
| Maximum service temperature ST(+)/ on the aluminium side | °C | 250 / max. 100 | | | EN 14706 | |
| Specific heat capacity c_p * | J·kg ⁻¹ ·K ⁻¹ | 800 | | | - | |
| PHYSICAL PROPERTIES | | | | | | |
| Density* | kg·m ⁻³ | 40 | | | EN 1602, EN 13470 | |
| Short term water absorption (W_p) WS | kg·m ⁻² | << 1 | | | EN 1609 | |
| FIRE SAFETY PROPERTIES | | | | | | |
| Reaction to fire | - | A2-s1, d0 | | | EN 13501-1 | |
| Melting temperature t_i * | °C | ≥ 1000 | | | DIN 4102 part 17 | |

* Informative non-declared value beyond scope of CPR, obtained by concrete tests.

1. 6. 2019 The information is valid up to date of publishing. The manufacturer reserves right to change the data.