

U-SPEC LAMELLA MAT

U-Spec Lamella Mat is a strong but resilient and flexible mattress consisting of strips of stone wool insulation, cut from 45kg/m³ slabs and assembled at right angles to the original plane of manufacture to increase compression resistance, and bonded to a reinforced Bright Class O aluminium foil facing.

The product can be manufactured at any density and with a choice of facings, on request.

Application - Typically in HVAC and Industrial installations such as large or non-standard pipework, trace-heated pipework, vessels and air conditioning ductwork.

Benefits of U-Spec Lamella Mat

- **No minimum order quantities**
- **Short lead time**
- **Wide range of densities**
- **Wide range of alternative facings – including black and white foil**

Factory-applied Facings

Bright Class O Aluminium Foil as standard.

External-grade foil weatherproof covering - U-Spec Lamella Mat pre-covered with multi-layer laminated aluminium foil with zero permeability, reduces installation times and thus application costs.

Other facings and colours – other coverings and facings are available to order, including a dense polymeric membrane for applications where high levels of acoustic insulation are required. See Acoustek Wrap on p.6.

Dimensions – standard 45kg/m³ lamella mat

Thickness	Length	Width	Roll Area
25mm	10.00m	1200mm	12.00m ²
30mm	8.15m	1200mm	9.78m ²
40mm	6.00m	1200mm	7.20m ²
50mm	5.00m	1200mm	6.00m ²
60mm	4.00m	1200mm	4.80m ²
75mm	4.00m	1200mm	4.80m ²
80mm	3.00m	1200mm	3.60m ²
100mm	2.50m	1200mm	3.00m ²



Maximum Service Temperature - 350°C, but to maintain the integrity of the factory-applied covering, the surface temperature of the product should not exceed 80°C.

Thermal Conductivity

Mean Temperature °C	Lambda, λ W/m.K
50	0.043
100	0.053
150	0.065
200	0.079
250	0.098
300	0.121
350	0.151

Packaging

U-Spec Lamella Mat is supplied in roll form in polythene packs, which are designed for short-term protection only. For long-term protection on site, the product should be stored indoors, or under cover and off the ground and should not be left permanently exposed to the elements before installation.