**LAMELLA MATS**

**KNAUF INSULATION THERMO-TEK LM AIR ALU**

**Type of Insulation:**

Mineral wool mat with lamellas for the insulation of pipes, components as elbows and T-pieces, valves and flanges, air ducts.

The lamella mat must have certifications and CE marking in accordance with EN 14303.

**Facing:**

The lamella mat shall a have glass fibre reinforced aluminium foil on one side.

**Description:**

Mineral wool lamella mat with tear-resistant, glass fibre reinforced aluminium foil bonded to one side of glass mineral wool strips (lamellas). The glass mineral wool lamellas shall be perpendicular to the contact surface in order to provide a high compressive strength, while keeping flexibility. The mineral wool lamella mat shall use a mainly bio-based binder, e.g. Ecose Technology, contain no added formaldehyde and be certified under Eurofins Gold Indoor Air Comfort quality standards or equivalent.

**Main characteristics:**

1. Eurofins

Certification Indoor Air Comfort: Gold Standard

2. Fire

The lamella mat shall be non-combustible with the following reaction to fire according to
EN 13501-1: A2-s1, d0.

3. Thermal

The thermal conductivity λ-value shall be according to EN 12667:

0,034 W/(mK) at 0 °C

0,036 W/(mK) at 10 °C

0,042 W/(mK) at 40 °C

0,043 W/(mK) at 50 °C

0,054 W/(mK) at 100 °C

0,067 W/(mK) at 150 °C

0,082 W/(mK) at 200 °C

0,100 W/(mK) at 250 °C

The maximum service temperature is measured according to EN ISO 18097 and shall be minimum 250 °C.

4. Dimensional tolerances

The dimensional tolerance class shall be T5, according to EN 14303.

5. Density

Density shall be 28 kg/m³, according to EN ISO 29470.

6. Other certifications

RAL certification.

7. Other requirements

Water vapour diffusion equivalent air layer thickness, according to EN 12086: Sd ≥ 200 m.

**EN designation code:**

MW-EN14303-T5-ST(+)250-MV2

**Standard Dimensions:**

Lamella mat length shall be: from 2500 mm to 10000 mm, depending on the thickness.

Lamella mat width shall be 500, 600, 1000 or 1200 mm.

Lamella mat thickness shall be: 25, 30, 40, 50, 60, 80, 100 mm.