**BOARDS**

**KNAUF INSULATION THERMO-TEK BD 090 ALU**

**Type of Insulation:**

Mineral wool board for the insulation of air ducts, air conditioning systems and sound absorbers.

The board must have certifications and CE marking in accordance with EN 13162.

**Facing:**

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

**Description:**

Mineral wool board with tear-resistant, glass fibre reinforced aluminium foil bonded to one side. The mineral wool board 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 board shall be non-combustible with the following reaction to fire according to
EN 13501-1: A1.

3. Thermal

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

0,035 W/(mK) a 10 °C

0,038 W/(mK) a 40 °C

The maximum service temperature and shall be minimum 250 °C, acc.to EN ISO 29470.

4. Chemicals

AS quality, according to EN ISO 12624: content of chlorides less than 10 ppm.

5. Density

Density shall be 90 kg/m³, according to EN ISO 29470.

6. Dimensional tolerances

The dimensional tolerances class shall be T5, according to EN 13162.

7. Other certifications

RAL certification; M1 classification.

8. Other requirements

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

Water absorption, according to EN ISO 29767: maximum 1 kg/m².

Melting point of fibres, according to DIN 4102-17: ≥ 1000 °C.

Longitudinal air flow resistance, according to EN 29053: ≥ 25 kPa∙s/m².

**EN designation code:**

MW-EN13162-T5-WS-AF25

**Standard Dimensions:**

Board length shall be 1000 mm.

Board width shall be 600 mm.

Board thickness shall be: 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 255 mm.