**HIGH TEMPERATURE BOARDS**

**KNAUF INSULATION POWER-TEK BD 775**

**Type of Insulation:**

Mineral wool board with high compressive strength for the insulation of different types of roofs for industrial equipment.

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

**Facing:**

The board shall have no own facing.

**Description:**

Board with high compressive strength.

**Main characteristics:**

1. Fire

The board shall be non-combustible with the following reaction to fire according to
EN 13501-1: A1.

2. Thermal

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

0,042 W/(mK) at 50 °C

0,046 W/(mK) at 100°C

0,052 W/(mK) at 150 °C

0,058 W/(mK) at 200 °C

0,073 W/(mK) at 300 °C

0,095 W/(mK) at 400 °C

0,108 W/(mK) at 450 °C

The maximum service temperature is measured according to EN ISO 18097 and shall be minimum
450 °C.

3. Mechanical properties

Compressive strength σ10 shall be ≥ 50 kPa, according to EN ISO 29469.

4. Density

Density will be 150 kg/m³, according to EN ISO 29470.

5. Dimensional tolerances

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

5. Other requirements

Water vapour diffusion resistance coefficient µ-value, according to EN 14303: µ= 1.

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: ≥ 50 kPa∙s/m²

**EN designation code:**

MW-EN14303-T5-ST(+)450-CS(10)50-WS1

**Standard Dimensions:**

High temperature board length shall be 1000 mm.

High temperature board width shall be 600 mm.

High temperature board thickness shall be: 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160 mm.