**PIPE SECTIONS**

**KNAUF INSULATION THERMO-TEK PS PRO ALU**

**Type of Insulation:**

Circular wound mineral wool pipe section for the insulation of heating and water pipes.

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

**Facing:**

The pipe section shall have a glass-fibre reinforced aluminium foil.

**Description:**

Wound and ground mineral wool pipe section with high-precision shape, faced with tear-resistant glass fibre reinforced aluminium foil. The mineral wool pipe section 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. To facilitate the installation on the pipe, the pipe section shall have a slight slit on the side opposite to the longitudinal opening. The longitudinal seam shall be closed with a self-adhesive overlap.

**Main characteristics:**

1. Eurofins

Certification Indoor Air Comfort: Gold Standard

2. Fire

The pipe section shall be non-combustible with the following reaction to fire according to
EN 13501-1:

A2L-s1, d0 for external diameter ≤ 300 mm

A2-s1, d0 for external diameter > 300 mm

The fire resistance according to EN 13501-2 has to be EI 120 for walls/ceilings seals.

3. Thermal

The thermal conductivity λ-value shall be according to EN ISO 8497:

0,033 W/(mK) at 10 °C

0,035 W/(mK) at 40 °C

0,037 W/(mK) at 50 °C

0,044 W/(mK) at 100 °C

0,052 W/(mK) at 150 °C

0,062 W/(mK) at 200 °C

0,073 W/(mK) at 250 °C

The maximum service temperature is measured according to EN 14707 and shall be minimum
500 °C.

4. Chemicals

AS quality, according to EN 13468: content of chlorides less than 10 ppm.

5. Dimensional tolerances

The dimensional tolerance class shall be T8 for pipes < 150 mm and T9 for pipes ≥ 150 mm external diameter according to EN 14303.

6. Other certifications

RAL certification; M1 classification.

7. Other requirements

Water vapour diffusion equivalent air layer thickness, according to EN 13469: Sd ≥ 200 m.

Water absorption, according to EN 13472: maximum 1 kg/m².

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

**EN designation code:**

MW-EN14303-T8-ST(+)500-WS1-MV2-CL10 (external diameter < 150 mm)

MW-EN14303-T9-ST(+)500-WS1-MV2-CL10 (external diameter ≥ 150 mm)

**Standard Dimensions:**

Pipe section length shall be 1200 mm.

Pipe section internal diameter shall be between 15 and 324 mm according to the pipe outside dimension.

Pipe section thickness shall be: 20, 25, 30, 40, 50, 60, 70, 80, 90, 100, 120 mm.