

## POWER-TEK BD 776



September 2023



### DESCRIPTION

PowerteK BD 776 is a rock mineral wool insulation board with high compressive strength and optimised for use on tank roofs, where walkability for maintenance purposes is also needed. For use on high-temperature tanks, the product also features excellent thermal conductivity values.

### PERFORMANCE

Max. service temperature	450 °C (EN ISO 18097)
Reaction to fire	A1 (EN 13501-1)
Density	ca. 140 kg/m <sup>3</sup> (EN ISO 29470 )
Declaration of performance*	<a href="http://dopki.com/T4238KPCPR">http://dopki.com/T4238KPCPR</a>

\* for detailed information on DoP please check the product label

### APPLICATION

Defined Power-teK applications:

- Tank roofs

The product is recommended for thermal, fire and sound insulation of the defined applications within technical insulation where:

- **Higher compressive strength / walkability for maintenance purposes is required.**

#### Remark:

Exterior insulation of roof or ceiling, protected from weathering, insulation under waterproofing. The product has a **tensile strength** of more than **10 kPa** and a **point load** of more than **650 N**.

### BENEFITS

- ✓ High compressive strength / walkability for maintenance purposes
- ✓ Cut to correct dimensions based on customers' needs
- ✓ Easy to handle and install (puzzles)
- ✓ Installation without sub-structure
- ✓ Rigid, flat, stable form



### STANDARDS

Knauf Insulation products are produced according to four of the most important International Management Standards for sustainability ISO 9001 (Quality Management), ISO 14001 (Environmental Management), ISO 50001 (Energy Management) and ISO 45001 (Health and Safety Management), all certified by Tüv Nord.

### CERTIFICATES (VALID FOR ALL):



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## SPECIFICATIONS

Description	Sign	Description/data							Unit	Standard
Thermal conductivity depending on temperature	$\vartheta$	50	100	150	200	300	400	450	°C	EN 12667
	$\lambda$	0,042	0,046	0,052	0,058	0,075	0,098	0,111	W/(mK)	
Water absorption	$W_p$	≤ 1,0							kg/m <sup>2</sup>	EN ISO 29767
Water vapour diffusion resistance	$\mu$	1							-	EN 14303
Silicone free	-	No emissions of lacquering disturbing substances							-	-
Melting point of fibres	$\vartheta$	≥ 1000							°C	DIN 4102-17
Specific heat capacity	$c_p$	1030							J/(kgK)	EN ISO 10456
Compressive strength	$\sigma_{10}$	≥ 70							kPa	EN ISO 29469
Designation code	-	MW-EN 14303-T5-ST(+)-450-CS(10)70-WS1							-	EN 14303

Declared material properties are obtained in the production process and ensured by the factory production control in accordance with the European Standard at the time of manufacture. Observing storage and handling guidelines will maintain performance within published tolerances.

## HANDLING

Knauf Insulation products are easy to handle and easy to install. They are supplied in suitable packaging materials to balance necessary transport protection with sustainable recycling options. Packaging is not designed for long-term storage or exposure to harsh weather conditions. Further product information is mentioned on every pack.

## STORAGE

For longer-term protection on site we recommend storing the product either indoors or alternatively under a roof cover and off the ground. If covered storage is not available, products can be stored outside (open-air-storage) if placed off the ground (keep palletized) and covered with plastic hood (foil), for a maximum of up to 6 months from the date of delivery. Outdoor storage is not recommended during particularly humid months with large fluctuations in temperature.

## STANDARD FORMATS\*

Thickness	50-200 mm
Width	500 mm
Length	1000 mm

\*Other dimensions on request.

## Knauf Insulation d.o.o.

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