

#### www.knaufinsulation-ts.com

# THERMO-TEK BD 035 - 100





#### PERFORMANCE

Max. service temperature	250 °C (EN ISO 18097)
Reaction to fire	A1 (EN 13501-1)
Apparent density	ca. 3 <b>5</b> to 100 kg/m³ (EN ISO 29470)
Declaration of performance* BD 035 BD 040 BD 050/060 BD 070/080 BD 090/100	www.dopki.com/T4305AP www.dopki.com/T4305AR www.dopki.com/T4305LP www.dopki.com/T4305DP www.dopki.com/R4305LP

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

# DESCRIPTION

Thermo-teK BD 035 – 100 is an unfaced Rock Mineral Wool insulation board, which received the "Eurofins Indoor Air Comfort Gold" award in recognition of the ECOSE® Technology binder used in their manufacturing process. Its use ensures a better room atmosphere while also making handling considerably more comfortable.

Knauf Insulation Thermo-teK BD 035 – 100 is produced with **ECOSE® Technology,** a patented binder system, based entirely on renewable raw materials.

## **APPLICATION**

Defined Thermo-teK applications:

- Rectangular air ducts outside insulation
- Technical & acoustic rooms

The product is recommended for thermal, fire and sound insulation of defined Thermo-teK applications.

#### BENEFITS

- Rigid, flat and stable form
- Nice visual appearance with sharp edges
- Possibility to have customised dimensions
- Optimal thermal, acoustic and mechanical performance for a broad range of applications
- ECOSE® Technology



#### **STANDARDS**

'EPD'

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 only for BD 60 and BD 80:





# THERMO-TEK BD 035 - 100



# **SPECIFICATIONS**

Description	Sign	Sign Description/data						Unit	Standard			
	9		Density (kg/m³)	10	40	50	100	150	200	250	°C	
Thermal conductivity depending on temperature	λ	BD 035 BD 040 BD 050 BD 060 BD 070 BD 080 BD 090 BD 100	ca. 35 ca. 40 ca. 50 ca. 60 ca. 70 ca. 80 ca. 90 ca. 100	0,038 0,037 0,035 0,035 0,035 0,034 0,035 0,035	0,044 0,040 0,039 0,039 0,038 0,038 0,038 0,038	0,046 0,042 0,041 0,041 0,039 0,039 - -	0,059 0,052 0,048 0,048 0,046 0,046 - -	0,075 0,065 0,058 0,058 0,056 0,056 - -	0,096 0,081 0,071 0,071 0,065 0,065 - -	0,123 0,100 0,088 0,088 0,077 0,077 - -	W/(mK)	EN 12667
Water soluble chloride ions (AS quality)	-	≤ 10 ·								ppm	EN ISO 12624	
Water absorption	W <sub>P</sub>	≤ 1,0							kg/m²	EN ISO 29767		
Water vapour diffusion resistance	μ		1								m	EN 14303 / EN 13162
Silicone free	-		No emissions of lacquering disturbing substances							-	-	
Melting point of fibres	θ	≥ 1000							°C	DIN 4102-17		
Specific heat capacity	Cp	1030						J/(kgK)	EN ISO 10456			
Designation code	-	BD 035 - BD 080: MW-EN14303-TS-ST(+)250-WS1-CL10 BD 090, BD 100: MW-EN13162-TS-WS-AF25							-	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\***

40 – 250 mm (BD 035)					
30 – 250 mm (BD 040, BD 050)					
20 - 250 mm (BD 060-BD 100)					
600 mm					
1000 mm					

\*Other dimensions on request.



Knauf Insulation mineral wool products made with ECOSE® Technology benefit from a formaldehyde-free binder made from rapidly renewable bio-based materials instead of petroleum-based chemicals. The technology has been developed for Knauf Insulation's mineral wool products, enhancing their environmental credentials without affecting the thermal, acoustic or fire performance. Insulation products made with ECOSE® Technology contain no dye or artificial colours - the colour is completely natural.

#### Knauf Insulation d.o.o.

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