

THERMO-TEK BD 035 - 100 VBS



September 2023



DESCRIPTION

Knauf Insulation ThermoteK BD $035-100\,\text{VBS}$ is a Rock Mineral Wool insulation board, bonded on one side to a black glass veil facing, which protects the working spaces from dust and assures an attractive black finish.

Knauf Insulation Thermotek BD 035 – 100 VBS is produced with **ECOSE® Technology,** a patented binder system, based entirely on renewable raw materials. The insulation board has 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.

PERFORMANCE

Max. service temperature	250 °C (E
Reaction to fire	A1 (EN

Apparent density

Declaration of performance*

BD 035 VBS BD 040 VBS BD 050/060 VBS BD 070/080 VBS BD 090/100 VBS 250 °C (EN ISO 18097)

A1 (EN 13501-1)

ca. 35 to 100 kg/m^3 (EN ISO 29470)

www.dopki.com/T430SAP www.dopki.com/T430SAR www.dopki.com/T430SLP www.dopki.com/T430SOP www.dopki.com/R430SLP

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 within technical insulation where:

- a black glass veil facing is required (attractive black finish)
- protection against dust during installation is needed

BENEFITS

- ✓ Black glass veil facing lamination
- ✓ Protection against dust during installation
- 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

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

















^{*} for detailed information on DoP please check the product label



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SPECIFICATIONS

Description	Sign	Description/data							Unit	Standard		
	9	TT	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 0,034 0,034 0,035 0,035	0,044 0,040 0,039 0,039 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 vapour diffusion resistance	μ	1								-	EN 14303 / EN 13162	
Water absorption	$W_{_{\mathrm{P}}}$	≤1								kg/m²	EN ISO 29767	
Silicone free	-	No emissions of lacquering disturbing substances								-	-	
Melting point of fibres	θ	≥1000							°C	DIN 4102-17		
Specific heat capacity	C _p	1030								J/(kgK)	EN ISO 10456	
Designation code	-	BD 035-BD080 - MW-EN14303-TS-ST(+)250-WS1SCL10 BD 090, BD 100 - MW-EN13162-TS-WS-AF2S								-	EN 14303 EN 13162	

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

Thickness

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*

60 - 250 mm (BD 30),

55 - 250 mm (BD 35)

45 - 250 mm (BD 40)

40 - 250 mm (BD 50) 30 - 250 mm (BD 60, BD 70)

25 - 250 mm (BD 80-BD 100)

Width 600 mm Length 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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