

# THERMO-TEK BD 035 - 100 VWS



September 2023



### **DESCRIPTION**

Knauf Insulation Thermo-teK BD 035 - 100 VVVS is a Rock Mineral Wool insulation board with formaldehyde-free binder, bonded on **one** side to a white glass veil facing, which protects the working spaces from dust and assures attractive natural colour finishing.

Knauf Insulation ThermoteK BD 035 – 100 VWS is produced with **ECOSE® Technology**, a patented binder system, entirely based on renewable raw materials. The insulation board has have 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 (EN ISO 18097)
Reaction to fire	A1 (EN 13501-1)
Apparent density	ca. 35 to 100 kg/m³ (EN ISO 29470)
Declaration of performance*	

 BD 035 VWS
 www.dopki.com/T4305AP

 BD 040 VWS
 www.dopki.com/T4305AR

 BD 050/060 VWS
 www.dopki.com/T4305LP

 BD 070/080 VWS
 www.dopki.com/T4305OP

 BD 090/100 VWS
 www.dopki.com/R4305LP

# **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 high-quality white glass veil facing is required (attractive natural finishing)
- protection against dust during installation is needed

## **BENEFITS**

- ✓ Natural colour glass veil facing
- Protection against dust during installation
- Rigid, flat form, keeping the stable form
- ✓ Nice visual appearance with sharp edges
- ✓ Possibility to have customised dimensions
- Optimal thermal, acoustic and mechanical performance for 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**











Valid only for BD 60 and BD 80:





 $<sup>^{\</sup>star}$  for detailed information on DoP please check the product label



# THERMO-TEK BD 035 - 100 VWS



September 2023

### **SPECIFICATIONS**

Description	Sign	Description/data									Unit	Standard
	θ	TT	Density (kg/m³)	10	40	50	100	150	200	250	°C	
Thermal conductivity depending on temperature	λ	BD 03S 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 0,038	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 <sub>P</sub>	≤1,0										EN ISO 29767
Silicone free	-	No emissions of lacquering disturbing substances										-
Melting point of fibres	9	≥1000									°C	DIN 4102-17
Specific heat capacity	C <sub>p</sub>	1030										EN ISO 10456
Designation code	-		BD 035-BD 080 - MW-EN14303-TS-ST(+)250-WS1SCL10 BD 090, BD 100 - MW-EN13162-TS-WS-AF25									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\***

55 - 250 mm (BD 035)

45 - 250 mm (BD 040)

40 - 250 mm (BD 050) 30 - 250 mm (BD 060, BD 070)

25 - 250 mm (BD 080-BD 100)

Width600 mmLength1000 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.

Varaždinska 140, 42220 Novi Marof, Croatia | E-mail: ts@knaufinsulation.com

All rights reserved, including those of photomechanical reproduction and storage in electronic media. Commercial use of the processes and work presented in this document is not permitted. Extreme caution was taken in assembling the information, texts and illustrations in this document. Nevertheless, errors cannot be entirely ruled out. The publisher and editors assume no legal responsibility or any liability whatsoever for any incorrect information or any consequences thereof. The publisher and editors are grateful for any suggestions for improvement as well as the identification of any errors.

