KNAUF INSULATION Technical Solutions

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THERMO-TEK BD 080 ALU/VBS/VWS/WBS

THERMO-TEK

October 2019

APPLICATION RANGE

DESCRIPTION

Thermo-teK BD is a mineral wool insulation board with formaldehyde-free binder and could have aluminium, veil or woven lamination on one side.

PERFORMANCE

Maximum service temperature	250 °C (EN 14706)
Service temperature aluminium facing	≤ 80 °C
Service temperature other facings	≤ 150 °C
Reaction to fire	A1 (EN 13501-1)
Density	ca. 80 kg/m³ (EN 1602)
Declaration of performance	http://dopki.com/T4305OP

Description	Sign	Description/data							Unit	Standard
Thermal conductivity depending on temperature	ϑ	10	40	50	100	150	200	250	°C	EN 12667
	λ	0.035	0.038	0.039	0.046	0.056	0.065	0.077	W/(mK)	
Water soluble chloride ions (AS quality)	-	≤ 10							ppm	EN 13468
Water absorption	W_p	≤ 1							kg/m²	EN 1609
Water vapour diffusion resistance	μ	1							-	EN 14303
Water vapour diffusion equivalent air layer thickness ALU	s_d	≥ 200							m	EN 12086
Silicone free	-	No emissions by lacquering disturbing substances							-	-
Melting point of fibres	ϑ	≥ 1000							°C	DIN 4102-17
Longitudinal air flow resistance	r	≥ 15							kPa·s/m²	EN 29053
Specific heat capacity	c_p	1030							J/(kgK)	EN ISO 10456
Designation code	-	MW-EN14303-T5-ST(+)250-WS1-CL10 MW-EN14303-T5-ST(+)250-WS1-MV2-CL10 (ALU)							-	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.

CERTIFICATE

challenge. create. care.

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ADDITIONAL INFORMATION

Application
The product is recommended for thermal, fire and sound insulation of the defined applications within technical insulation.
Encasings, Rectangular air ducts

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 it is recommended to store the product indoors or alternatively under a roof and without direct contact to the ground (keep palletised).

Remark

Also available in: VBS = Veil Black Single, VWS = Veil White Single, WBS = Woven Black Single, ALU = Aluminium

Standard format:*

Thickness	20 - 250 mm (for faced products: 25 - 250 mm)
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.

ISO 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 OHSAS 18001 (Health and Safety Management), all certified by Tüv Nord.

Knauf Insulation d.o.o

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