

THERMO-TEK BD 050 (KDL/ KDB D50/ 035 GVB, GVN, GW1)



January 2018

APPLICATION RANGE



DESCRIPTION

Thermo-teK BD is a mineral wool insulation board with formaldehyde-free binder which can be faced with a glass fleece, glass fabric or aluminium lamination on one side.

Colours available for glass fleece and fabric: Black, white and ECOSE®-brown

PERFORMANCE

Max. service temperature	250° C
Service temperature glass fleece and glass fabric facing	150 °C
Service temperature facing aluminium facing	80 °C
Reaction to fire	A1 (EN 13501-1)
Apparent density	50 kg/m ³ (EN 1602)
Declaration of performance	http://dopki.com/R4305LPCPR

Description	Sign	Description/data	Unit	Standard
Thermal conductivity depending on temperature	ϑ	10	°C	DIN EN 12667
	λ	0,035	W/(mK)	
AS quality	-	≤ 10	ppm	EN 13468
Total water absorption	W_p	≤ 1	kg/m ²	EN 1609
Water vapour diffusion resistance	μ	1	-	EN 12086
Silicone free	-	No emissions by lacquering disturbing substances	-	-
Longitudinal air flow resistance	-	≥ 10	k Pa·s/m ²	EN 29053
Melting point of fibres	-	≥ 1000	°C	DIN 4102-17
Specific heat capacity	c_p	1030	kJ/(m ² K)	EN ISO 10456
Sound absorption coefficient	f	125 250 500 1000 2000 4000	Hz	EN 11654
	α_p	0,10 0,35 0,75 0,95 1,00 1,00	-	
	α_p	0,20 0,65 0,95 1,00 1,00 1,00	-	
Noise Reduction Coefficient (NRC)*	-	0,65 (30 mm) 0,95 (50 mm)	-	ASTM C423
Sound absorption class	-	C (30 mm) A (50 mm)	-	-
Designation code	-	MW-EN13162-TS-WS-AF10	-	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.

CERTIFICATES





ADDITIONAL INFORMATION

Application

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

Handling

Our products are easy to handle and easy to install. It is supplied packaged in cardboard boxes or wrapped in foil (depending on the product) which are designed for short term protection only. Further product information is mentioned on every pack.

Storage

For longer term protection on site, it is recommended to store the product either indoors or under a roof and off the ground.

Note

Also available in: VBS = Veil Black Single, VWS = Veil White Single, VES = Veil ECOSE Single, WBS = Wooven Black Single, WWS = Wooven White Single, WES = Wooven ECOSE Single, ALU = Aluminium

Standard format:*

Thickness	30mm - 210mm
Width	600 mm
Length	1000 mm

*Other dimensions on request.



Knauf Insulation mineral wool products 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.

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