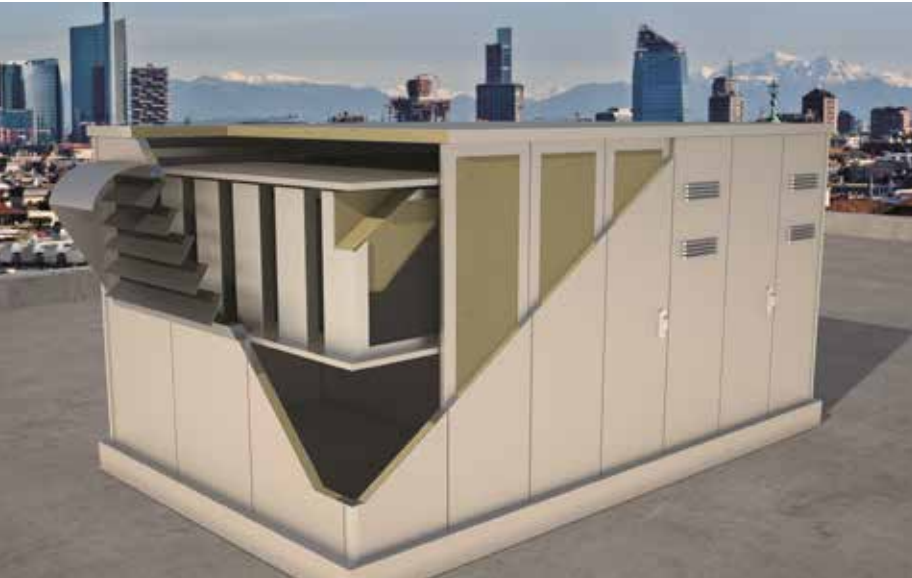


MCH BOARD D5/GVB/GVN

February 2018

Boards for multipurpose insulation in industrial applications



DESCRIPTION

Knauf Insulation MCH BOARD D5 (MCH B D5) is a board made of rock mineral wool. Due to its thermal and acoustic properties it is built into a wide range of machinery. With its excellent thermal characteristics Knauf Insulation MCH B is used to boost the device efficiency and at the same time reduce noise associated with machine operation. It can be used at continuous operating temperatures of up to 250°C.

In addition, board can be **faced with black glass fleece (MCH B GVB)** on one or both sides. The black colour of glass fleece makes it visually neutral in perforated metal sheeting. Neutral glass fleece facing **(MCH B GVN)** on one or both sides is also available on request.

The dimensions of each board can be customized according to the requirements of specific applications.

PERFORMANCE

Thermal insulation

Optimal thermal conductivity $\lambda_d = 0,035 \text{ W/mK}$

Fire performance

Classified as non-combustible Euroclass A1

Sound performance

Excellent sound absorption and sound insulation properties

BENEFITS

- ✓ Non-combustibility (Euroclass A1)
- ✓ Excellent sound absorption
- ✓ Excellent sound insulation
- ✓ Optimal thermal conductivity
- ✓ Mechanical stability throughout its lifetime
- ✓ Hydrophobic properties help resist external influences (condensation)
- ✓ Our production technology enables custommade sizes and dimensions.

APPLICATION

Multipurpose insulation element used as an integral part of a device to **boost efficiency and reduce noise.**

STANDARDS

Technical properties of Knauf Insulation MCH BOARD D5 (GVB) are declared in accordance with EN 13162.

Knauf Insulation MCH BOARD D5 (GVB) is manufactured in accordance with ISO 9001 Quality Management Systems, ISO 14001 Environmental Management Systems, ISO 50001 Energy Management Systems and OHSAS 18001 Occupational Health and Safety Management Systems as certified by Bureau Veritas.

CERTIFICATES



DOP code: 04309LPCPR

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care.

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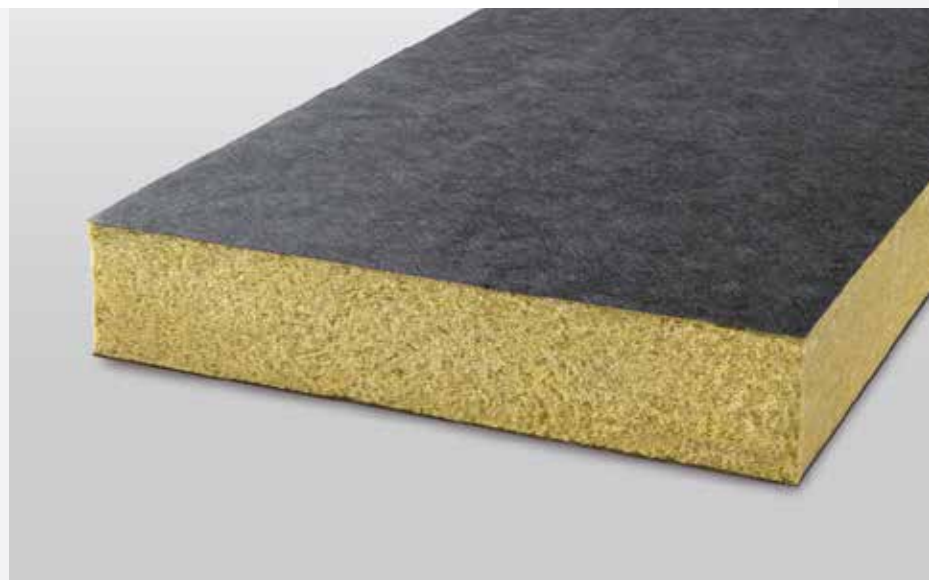
TECHNICAL PROPERTIES

Characteristics	Symbol	Value	Unit	Standard							
Density	-	50	kg/m ³	-							
Reaction to fire	-	Euroclass A1	-	EN 13501-1							
Melting point	-	> 1000	°C	DIN 4102/T17							
Water vapour diffusion resistance factor	μ	1	-	EN ISO 10456							
Specific heat capacity	c_p	1030	J/kgK	-							
Short - term water absorption	W_p	< 1	kg/m ²	EN 1609							
Long - term water absorption	W_b	< 3	kg/m ²	EN 12087							
Air flow resistance	AF_f	> 15	kPa-s/m ²	EN 29053							
Water soluble chloride ions (on request)	-	≤10	mg/kg	EN 13468							
Thermal conductivity - declared (10 °C)	λ_d	0.035	W/mK	EN 12667							
Sound absorption coefficient	α_s	Frequency	125	250	500	1000	2000	4000	Hz	EN 20354	
		50 mm	0.20	0.60	0.95	1.00	1.00	1.00	0.95		-
		100 mm	0.60	1.00	1.00	1.00	1.00	1.00	0.95		-
		200 mm	0.90	1.00	1.00	1.00	1.00	1.00	1.00		-
Sound reduction	$R'_w(C; C_p)$	12 (50 mm) (0; -2)	dB	SIST EN ISO 717-1							

HANDLING & STORAGE

Knauf Insulation MCH BOARD D5 (GVB) is packed on a wooden pallet. Slabs are covered with a PE thermo shrink hood or wrapped twice with stretch foil, which is designed for short-term protection only. For longer-term protection on site, we recommend storing the product either indoors, or under a cover and off the ground, for a maximum of up to 12 months. If covered storage is not available, products can be stored outside (open-air-storage), for a maximum of up to one month. Outdoor storage is not recommended during particularly humid months with large fluctuations in temperature. If the material becomes damp on location, ensure the moisture evaporates before placing such slabs into a manufacturing process, as water content can affect the performance of the final product.

The performance of MCH BOARD D5 (GVB) depends on the customer's manufacturing process. Individual customers must establish, optimize and control their manufacturing process to ensure the material meets the requirements of their manufacturing process and their final product.



Knauf Insulation, d.o.o.

Trata 32, 4220 Škofja Loka, Slovenia

Tel: +386 (0)4 5114 100

Fax: +386 (0)4 5114 319

E-mail: oem@knaufinsulation.com

For more info visit:

www.oem.knaufinsulation.com

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