isofloc® LM

TECHNICAL DATA:

Technical approval	EU	European Technical Approval ETA-05/0226
	D	Qualified technical specification General construction supervision approval Z-23-11-280: 2016
Composition		Newspaper fibres ≥ 90%, light metal salts, boric acid as flame retardant
Application		Thermal and acoustic cellulose fibre insulation for mechanical installations in wet or dry processes
Wood preservation	D	Applicable in constructions according to DIN 68800-2
Notified Certification Body	EU	MPA NRW
	CH	EMPA
	D	MPA NRW-00387-01, -03 according to Z-23.11-280
Natureplus Certificate		0107-1410-128-1 (Berlin) 0107-1410-128-4 (Bütschwil)
Thermal conductivity λ	EU	0.038 W/(m · K) at 30–60 kg/m³ Declared value λ_D according to ETA-05/0226
	CH	0.038 W/(m · K) at 30–60 kg/m³ SIA
	D	0.040 W/(m · K) at 30–60 kg/m³ Rated value
Density [1]		30–40 kg/m³ open blown, < 10° 40–60 kg/m³ cavity-filling (ceiling, roof) 45–60 kg/m³ wall 30–50 kg/m³ spray on
Specific heat capacity c		2150 J/(kg · K)
Reaction to Fire	EU	B-s2,d0 / E according to DIN EN 13501-1 and ETA-05/0226
	CH	Fire coefficient 5.3 in accordance with VKF Agency Fire behaviour group RF 2
	D	E according to DIN EN 13501-1 corresponds to B2, DIN 4102
Water vapour diffusion resistance μ		1 – 2
Resistance to mould growth		No development according to ISO 846
Airflow resistance r		≥ 5 kPa · s/m² at 30 kg/m³
Normal moisture		Approx. 8 % at 23 °C and 50 % rel. humidity
Primary renewable energy expenditure [2]		0.8 MJ/kg
Total primary energy expenditure [2]		3.7 MJ/kg
Global Warming Potential (GWP) [2]		–1.2 kg CO_2 eq/kg
Acidification Potential (AP) [2]		1.1 g SO_2 eq/kg
Ozone Depletion Potential (ODP) [2]		1.97 10^{-08} kg CFC-11 eq/kg
Environmental impact points [3]		350 EIP/kg
Waste code (EAK)		170604 / 170904
Recycling		Separated and dry insulating material can be reemployed
Packaging		350 kg big bales, 12,5 kg bags, palletized

[1] The density selected on site depends on the constructive requirements. The manufacturer provides specialist installers with information on the compacting density to exclude any settling.

[2] From the cradle to the factory gate („cradle to gate“) for an average cellulose insulation.

[3] in relation to production, additives, transport and disposal. Further information is also available in the KBOB recommendation 2014 or at www.eco-bau.ch.

No responsibility can be taken for this information, subject to technical modifications.

The benefits to you:

- Outstanding performance for protection against heat, cold and sound
- Hygroscopic and moisture regulative
- Tested fire safety
- Perfect fit for every thickness and shape with only one material
- Lowest production energy consumption of all industrially produced insulation materials
- High quality installer training

We shall be happy to answer any questions you might have:

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Produkt Bütschwil

EPD EN 15804 ISO 14025 THIRD-PARTY VERIFIED

FSC www.fsc.org FSC® C128800 Das Zeichen für verantwortungsvolle Waldwirtschaft

natureplus® No. 0107-1410-128-4

CE 18 ETA 05 / 0226

MPA NRW. Materialprüfungsamt Nordrhein-Westfalen zertifiziertes Produkt Nr.: 00387