

best wood **FLEX 50**

Version 01/2025



FLEX 50 is the ideal insulation for in-between rafter areas of ceilings and timber frame constructions. Thanks to its good clamping effect, FLEX 50 is easy to process.

Technical information

Denomination of insulation board	WF-EN 13171-T2-MU2-AFr10
Norm	EN13171
Density	50 [kg/m ³]
Nominal value of thermal conductivity λ_D	0.037 [W/(mK)]
Rated value of thermal conductivity λ	0.039 [W/(mK)]
Reaction to fire according to DIN EN 13501-1	E
Construction material class according to DIN 4102-1	B2
Full declaration	Wood fibers, polyamide (binding fiber), ammonium phosphate (flame retardant)
Production process	Dry process
Water vapor diffusion resistance μ	2
Linear flow resistance	> 10 [kPa·s/m ²]
Specific heat capacity	2,100 [J/(kg K)]
Waste code according to AVV	030105, 170201

Fields of application according to DIN 4108-10

DZ, DI-zk, WH, WI-zk, WTR

DZ	Insulation between rafters, ventilated roofs, not walkable, but accessible uppermost ceilings
DI	Internal insulation of the ceiling (from below) or of the roof, insulation under rafters/supporting structure, suspended ceiling, and so on
zk	No requirements to tensile strength
WH	Insulation in timber frame constructions and timber panel constructions
WI	Insulation of internal wall structures
WTR	Insulation of partitions/drywall structures



Delivery formats

	Flexible production	Standard sizes
Edge formation	Stump	Stump
Thickness	40–240 mm	40, 50, 60, 80, 100, 120, 140, 160, 180, 200, 220, 240 mm
Length	1,200 mm	1,200 mm
Width	490–825 mm	565 mm
Pallet height	up to a max. of 2,800 mm	up to a max. of 2,800 mm

Board weight

Standard sizes

Thickness in mm	1 m ²	565 x 1,200 mm 0.68 m ²
40	2.0 kg	1.4 kg
50	2.5 kg	1.7 kg
60	3.0 kg	2.1 kg
80	4.0 kg	2.7 kg
100	5.0 kg	3.4 kg
120	6.0 kg	4.1 kg
140	7.0 kg	4.8 kg
160	8.0 kg	5.5 kg
180	9.0 kg	6.1 kg
200	10.0 kg	6.8 kg
220	11.0 kg	7.5 kg
240	12.0 kg	8.2 kg

Certificates



Installation advice

Cut oversized in both, length and width and wedge into place.

Board thickness	Maximum range
40 mm	500 mm
50 mm	550 mm
60 mm	600 mm
80 mm	700 mm
100 mm	800 mm
120 mm	900 mm
140 mm	900 mm
160 mm	950 mm
180 mm	950 mm
200 mm	950 mm
220 mm	950 mm
240 mm	950 mm

- Store and install FLEX 50 dry
- Do not install damaged boards!
- Protect this product against moisture/dry storage
- Do not load FLEX 50 statically
- Do not use FLEX 50 as load-bearing component
- Cut with electric jack saw or with band saw
- Dust extraction in accordance with BG regulations
- Installation elements or inlets (e.g. solar pipes ...), for which temperatures of > 80°C can be expected, must not be installed without any additional fire precautions into the best wood SCHNEIDER wood fiber installation materials.

Please note that a structural calculation has to be done before installation. The present tables are only including guide values. All rights reserved. The technical data provided herein is subject to change. Although all of the information herein was up to date at the time of its publication, the publication of superseding information renders the old information invalid. Regional and national regulations and building law have to be fulfilled. The suitability and the details have to be checked for the intended use. best wood SCHNEIDER® GmbH shall not be held liable for any damage resulting from error or misprinting.

