

## best wood MULTITHERM 110

Version 05/2021



MULTITHERM 110 is a pressure-resistant wood fiber insulation board with a low weight and an excellent value of thermal conductivity. MULTITHERM 110 can be applied in roofs and walls. In combination with MULTITHERM 140, it is a cost-effective solution for high insulation thicknesses (this board is not weatherproof).

### Technical information

Denomination	WF-EN13171-T5-CS(10Y) 50-TR15-WS1.0-AF50- MU3
Norm	EN13171
Density	110 [kg/m <sup>3</sup> ]
Nominal value of thermal conductivity $\lambda_D$	0.038 [W/(mK)]
Rated value of thermal conductivity $\lambda$	0.040 [W/(mK)]
Reaction to fire according to DIN EN 13501	E
Construction material class according to DIN 4102	B2
Full declaration	Wood fibers, PMDI gluing, paraffin
Production process	Dry process
Compressive stress at 10% compression	≥ 50 [kPa]
Tensile strength perpendicular to the plane of the board	≥ 15 [kPa]
Modulus of elasticity $E_{(d)}$	≥ 0.80 [N/mm <sup>2</sup> ]
Water vapor diffusion resistance $\mu$	3
Linear flow resistance	> 50 [kPa·s/m <sup>2</sup> ]
Short time water absorption	< 1.0 [kg/m <sup>2</sup> ]
Specific heat capacity	2,100 [J/(kg K)]
Waste code according to AVV	030105, 170201

### Fields of application according to DIN 4108-10

DAD-dm, DZ, DI-zg, WAB-dm, WH, WTR

DAD	Outside insulation of roof or ceiling, protected against direct exposure to the weather, insulation under coverage
dm	Medial pressure resistance
DZ	Insulation between rafters, insulation of wooden ceilings, insulation of upper floor slabs
DI	Internal insulation of the ceiling (from below) or of the roof, insulation under rafters/supporting structure, suspended ceiling, and so on
zg	Low tensile strength
WAB	External insulation of the wall behind the cladding
WH	Infilling insulation of walls in wooden framework and timber frame constructions
WTR	Insulation of partition walls



### Delivery formats

Edge formats	Stump	Shiplap edge	Tongue + groove
Thickness	40, 60, 80, 100, 120, 140, 160, 180, 200, 220, 240 mm	60, 80, 100, 120, 140, 160, 180, 200, 220, 240 mm	60, 80, 100, 120, 140, 160, 180, 200, 220, 240 mm
Length	1,500, 2,000 mm	1,500 mm	2,000 mm
Width	600 mm	600 mm	580 mm
Pallet height	up to a max. of 1,350 mm		

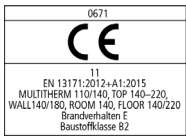
## Board weights

		Stump (Standard formats)	
Thickness in mm	1 m <sup>2</sup>	600 x 1,500 mm 0.90 m <sup>2</sup>	600 x 2,000 mm 1.20 m <sup>2</sup>
40	4.4 kg	4.0 kg	5.3 kg
60	6.6 kg	5.9 kg	7.9 kg
80	8.8 kg	7.9 kg	10.6 kg
100	11.0 kg	9.9 kg	13.2 kg
120	13.2 kg	11.9 kg	15.8 kg
140	15.4 kg	13.9 kg	18.5 kg
160	17.6 kg	15.8 kg	21.1 kg
180	19.8 kg	17.8 kg	23.8 kg
200	22.0 kg	19.8 kg	
220	24.2 kg	21.8 kg	
240	26.4 kg	23.8 kg	

		Tongue + groove (Standard formats)	
Thickness in mm	1 m <sup>2</sup>	580 x 2,000 mm 1.16 m <sup>2</sup>	
60	6.6 kg	7.7 kg	
80	8.8 kg	10.2 kg	
100	11.0 kg	12.8 kg	
120	13.2 kg	15.3 kg	
140	15.4 kg	17.9 kg	
160	17.6 kg	20.4 kg	
180	19.8 kg	23.0 kg	
200	22.0 kg	25.5 kg	
220	24.2 kg	28.1 kg	
240	26.4 kg	30.6 kg	

		Shiplap edge (Standard formats)	
Thickness in mm	1 m <sup>2</sup>	600 x 1,500 mm 0.90 m <sup>2</sup>	
60	6.6 kg	5.9 kg	
80	8.8 kg	7.9 kg	
100	11.0 kg	9.9 kg	
120	13.2 kg	11.9 kg	
140	15.4 kg	13.9 kg	
160	17.6 kg	15.8 kg	
180	19.8 kg	17.8 kg	
200	22.0 kg	19.8 kg	
220	24.2 kg	21.8 kg	
240	26.4 kg	23.8 kg	

## Certificats



## Installation advice

- Store and install MULTITHERM 110 dry
- Install the boards laterally, exact and without joints
- Do not install damaged boards!
- Do not use MULTITHERM 110 as load-bearing component
- Cut with a common woodworking tool
- All connections and penetrations have to be made tight against wind and against impact rain
- 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 insulation materials.

**Please note the special processing guidelines for ON-ROOF INSULATION.**

### ■ INFORMATION

MULTITHERM 110 must not be installed directly onto the rafters. When using MULTITHERM 110 as on-roof insulation, it always requires a full-surface underlay.

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.

