best wood **MULTITHERM 140**

Version 01/2025

MULTITHERM 140 is a pressure-resistant wood fiber insulation board with an excellent value of thermal conductivity and can be applied in roofs and walls. MULTITHERM 140 is a plasterable board in the interior area, and can be fixed to masonry, solid wood walls and timber stud walls.

Technical information

Denomination	WF-EN 13171-T5-CS(10\Y)100-TR20-WS1,0-MU3-AFr75
Norm	EN13171
Density	140 [kg/m^3]
Nominal value of thermal conductivity λ_D	0.040 [W/(mK)]
Rated value of thermal conductivity λ	0.042 [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	≥ 100 [kPa]
Tensile strength perpendicular to the plane of the board	≥ 20 [kPa]
Modulus of elasticity $E_{(d)}$	≥ 1.45 [N/mm^2]
Water vapor diffusion resistance µ	3
Linear flow resistance	> 75 [kPa·s/m^2]
Short time water absorption	< 1.0 [kg/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

DAD-dh, DEO-dh, DI-zg, WAB-dh, WH,WTR

DAD	Outside insulation of roof or ceiling, protected against direct exposure to the weather, insulation under coverage
dh	High pressure resistance
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
DEO	Inside insulation of the ceiling (on the top) under screed without noise protection requirements
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	Tongue + groove
Thickness	20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 220, 240 mm	40, 60, 80, 100, 120, 140, 160, 180, 200, 220, 240 mm
Length	1500, 2000 mm	1500, 2000, 2500 mm
Width	600 mm	580 mm
Pallet height	up to a max. of 1350 mm	

Board weights

		Stump (Standard formats)	
Thickness in mm	**1 m²**	**600 x 1500 mm 0.90 m²**	**600 x 2000 mm 1.20 m²**
20	2.8 kg	2.5 kg	3.4 kg
40	5.6 kg	5.0 kg	6.7 kg
60	8.4 kg	7.5 kg	10.1 kg
80	11.2 kg	10.1 kg	13.4 kg
100	14.0 kg	12.6 kg	16.8 kg
120	16.8 kg	15.1 kg	20.2 kg
140	19.6 kg	17.6 kg	23.5 kg
160	22.4 kg	20.2 kg	26.9 kg
180	25.2 kg	22.7 kg	30.2 kg
200	28.0 kg	25.2 kg	33.6 kg
220	30.8 kg	27.7 kg	37.0 kg
240	33.6 kg	30.2 kg	40.3 kg

		Tongue + groove (Standard formats)		
Thickness in mm	**1 m²**	**580 x 1500 mm 0.87 m²**	**580 x 2000 mm 1.16 m²**	**580 x 2500 mm 1.45 m²**
40	5.6 kg	4.8 kg	6.5 kg	8.1 kg
60	8.4 kg	7.3 kg	9.7 kg	12.2 kg
80	11.2 kg	9.7 kg	13.0 kg	16.2 kg
100	14.0 kg	12.2 kg	16.2 kg	20.3 kg
120	16.8 kg	14.6 kg	19.5 kg	18.3 kg
140	19.6 kg	17.0 kg	22.7 kg	24.4 kg
160	22.4 kg	19.5 kg	26.0 kg	32.5 kg
180	25.2 kg	21.9 kg	29.2 kg	36.5 kg
200	28.0 kg	24.3 kg	32.5 kg	40.6 kg
220	30.8 kg	26.8 kg	35.7 kg	44.7 kg
240	33.6 kg	29.2 kg	39.0 kg	48.7 kg

Certificats

CE 11 natureplus 0104-1112-114-2 PEFC Materialgarantie hinterlegt beim ZVDH EPD

Installation advice

- Store and install MULTITHERM 140 dry
- Install the boards laterally, exact and without joints
- Cut with a common woodworking tool
- Do not use MULTITHERM 140 as load-bearing component
- Dust extraction in accordance with BG regulations
- Do not install damaged boards!
- 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.

When using MULTITHERM 140 as on-roof insulation

- Boards can only be walked on via the rafters
- When installing the boards directly onto the rafters, each MULTITHERM 140 board has to cover at least two rafters. The joint displacement per row has to be at least 1 rafter space.
- For rain protection, attach a vapor-permeable membrane according to the requirements of the building.
- Afterwards it has to be fixed immediately with the counter-batten.
- Cross joints are not allowed
- The boards have to be installed rectangularly
- All connections and penetrations have to be made tight against wind and against impact rain

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

INFORMATION

MULTITHERM 140 up to 60 mm cannot be installed directly onto rafters. They always require a full-surface underlay.

MULTITHERM 140 as of 80 mm can be installed directly onto the rafters. The following maximum rafter distances have to be observed.

Thickness of boards in mm	max. achsial dimension of the rafters in cm
80	75.0
100/120	85.0
140/160/180	110.0
200/220/240	125.0

When MULTITHERM 140 is used as a room-side plaster baseboard, we recommend:

- **CLAYTEC** (earth plaster)
- **Villerit** (lime-based plasters)

Processing instruction for the interior rendering systems can be found under **www.schneider-holz.com**