

## best wood MULTITHERM 140

Version 04/2018



MULTITHERM 140 is a pressure-resistant wood fiber insulation board with an excellent value of thermal conductivity. MULTITHERM 140 can be applied in roofs and walls. In combination with MULTITHERM 110, it is a cost-effective solution for high insulation thicknesses.

### Technical information

Denomination	WF-EN13171-T4-CS(10\Y)100-TR20-WS1,0-AF75-MU3
Density	140 [kg/m³]
Nominal value of thermal conductivity $\lambda_D$	0,040 [W/(mK)]
Rated value of thermal conductivity $\lambda$	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	$\geq 100$ [kPa]
Tensile strength perpendicular to the plane of the board	$\geq 20$ [kPa]
Modulus of elasticity $E_{(a)}$	$\geq 1,45$ [N/mm²]
Water vapor diffusion resistance $\mu$	3
Linear flow resistance	$> 75$ [kPa·s/m²]
Short time water absorption	$\leq 1,0$ [kg/m²]
Specific heat capacity	2100 [J/(kg K)]
Waste code according to AVV	030105, 170201

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

DAD-ds, DI-zg, WAB-ds, WH, WTR

DAD	Outside insulation of roof or ceiling, protected against direct exposure to the weather, insulation under coverage
ds	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
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	Standard formats	Standard 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	1250, 1500, 2000 2500 mm	1250, 1500, 2000 2500 mm
Width	600 mm	580 mm
Pallet height	up to a max. of 1350 mm	

The edge profile „shiplap edge“ as well as other board lengths are possible on request.

## Board weights

### Standard formats Stump

Thickness in mm	1 m <sup>2</sup>	600 x 1250 mm 0,75 m <sup>2</sup>	600 x 1500 mm	600 x 2000 mm 1,20 m <sup>2</sup>	600 x 2500 mm 1,50 m <sup>2</sup>
20	2,8 kg	2,1 kg	2,5 kg	3,4 kg	4,2 kg
40	5,6 kg	4,2 kg	5,0 kg	6,7 kg	8,4 kg
60	8,4 kg	6,3 kg	7,6 kg	10,1 kg	12,6 kg
80	11,2 kg	8,4 kg	10,1 kg	13,4 kg	16,8 kg
100	14,0 kg	10,5 kg	12,6 kg	16,8 kg	21,0 kg
120	16,8 kg	12,6 kg	15,1 kg	20,2 kg	25,2 kg
140	19,6 kg	14,7 kg	17,6 kg	23,5 kg	29,4 kg
160	22,4 kg	16,8 kg	20,2 kg	26,9 kg	33,6 kg
180	25,2 kg	18,9 kg	22,7 kg	30,2 kg	37,8 kg
200	28,0 kg	21,0 kg	25,2 kg	33,6 kg	42,0 kg
220	30,8 kg	23,1 kg	27,7 kg	37,0 kg	46,2 kg
240	33,6 kg	25,2 kg	30,2 kg	40,3 kg	50,4 kg

### Standard formats Tongue + groove

Thickness in mm	1 m <sup>2</sup>	580 x 1250 mm 0,73 m <sup>2</sup>	580 x 1500 mm 0,87 m <sup>2</sup>	580 x 2000 mm 1,16 m <sup>2</sup>	580 x 2500 mm 1,45 m <sup>2</sup>
40	5,6 kg	4,1 kg	4,9 kg	6,5 kg	8,1 kg
60	8,4 kg	6,1 kg	7,3 kg	9,7 kg	12,2 kg
80	11,2 kg	8,1 kg	9,7 kg	13,0 kg	16,2 kg
100	14,0 kg	10,2 kg	12,2 kg	16,2 kg	20,3 kg
120	16,8 kg	12,2 kg	14,6 kg	19,5 kg	24,4 kg
140	19,6 kg	14,2 kg	17,1 kg	22,7 kg	28,4 kg
160	22,4 kg	16,2 kg	19,5 kg	26,0 kg	32,5 kg
180	25,2 kg	18,3 kg	21,9 kg	29,2 kg	36,5 kg
200	28,0 kg	20,3 kg	24,4 kg	32,5 kg	40,6 kg
220	30,8 kg	22,3 kg	26,8 kg	35,7 kg	44,7 kg
240	33,6 kg	24,4 kg	29,2 kg	39,0 kg	48,7 kg

## Certificats



## 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.
- 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 80 mm cannot be installed directly onto rafters. They always require a full-surface underlay.

MULTITHERM 140 as of 100 mm can be installed directly onto the rafters. The following maximum rafter distances have to be observed.

Thickness of boards in mm	max. axial dimension of the rafters in cm
100/120	85,0
140/160/180	110,0
200/220/240	125,0

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.

