



## best wood WALL 180

Version 01/2022



WALL 180 is a high-pressure resistant wood fiber insulation board that can be plastered. It can be applied on timber frame constructions in external walls.

### Technical information

Denomination	WF-EN 13171-T5-DS(70,-)3-CS(10Y)150-TR30-WS1,0-MU3-AFr100
Norm	13171
Density	180 [kg/m <sup>3</sup> ]
Nominal value of thermal conductivity $\lambda_D$	0.043 [W/(mK)]
Rated value of thermal conductivity $\lambda$	0.045 [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	$\geq 150$ [kPa]
Tensile strength perpendicular to the plane of the board	$\geq 30$ [kPa]
Modulus of elasticity $E_{(d)}$	$\geq 2.50$ [N/mm <sup>2</sup> ]
Water vapor diffusion resistance $\mu$	3
Linear flow resistance	$> 100$ [kPa-s/m <sup>2</sup> ]
Short time water absorption	$\leq 1.0$ [kg/m <sup>2</sup> ]
Specific heat capacity	2,100 [J/(kg K)]
Waste code according to AVV	030105, 170201 / observe the national regulations

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

DEO-ds, WAB-ds, WAP-zh, WZ, WH, WI-zg, WTR	
DEO	Inside insulation of the ceiling (on the top) under screed without noise protection requirements
ds	Medial pressure resistance
WAB	External insulation of the wall behind the cladding
WAP	External insulation of the wall under rendering
zh	High tensile strength
WZ	Insulation of cavity walls, cavity insulation
WI	Inside insulation of walls
zg	Low tensile strength
WTR	Insulation of partition walls



### Delivery formats (Standard formats)

Edge formats	Tongue + groove
Thickness	40, 60, 80, 100, 120, 140, 160 mm
Length	1,500, 2,000, 2,500 mm
Width	580 mm
Pallet height	up to a max. of 1,350

### Delivery formats Wall 180 Reveal board

Edge formats	Stump
Thickness	20, 40 mm
Length	1,500, 2,000, 2,500 mm
Width	600 mm
Pallet height	up to a max. of 1,350

Other board lengths are possible on request.



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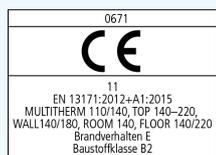


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## Certificats



## best wood ETICS (External Thermal Insulation Composite System)

## Board weights reveal board

Thickness in mm	Stump (Standard formats)			
	1 m <sup>2</sup>	580 x 1,500 mm 0.87 m <sup>2</sup>	580 x 2,000 mm 1.16 m <sup>2</sup>	580 x 2,500 mm 1.45 m <sup>2</sup>
40	7.2 kg	6.3 kg	8.4 kg	10.4 kg
60	10.8 kg	9.4 kg	12.5 kg	15.7 kg
80	14.4 kg	12.5 kg	16.7 kg	20.9 kg
100	18.0 kg	15.7 kg	20.9 kg	26.1 kg
120	21.6 kg	18.8 kg	25.1 kg	
140	25.2 kg	21.9 kg		
160	28.8 kg	25.1 kg		

## Board weights Standard formats

Thickness in mm	1 m <sup>2</sup>	Tongue + groove (Standard formats)		
		600 x 1,500 mm 0.90 m <sup>2</sup>	600 x 2,000 mm 1.20 m <sup>2</sup>	600 x 2,500 mm 1.50 m <sup>2</sup>
20	3.6 kg	3.2 kg	4.3 kg	5.4 kg
40	7.2 kg	6.4 kg	8.6 kg	10.8 kg

## Installation advice

Installation advices can be found in the special installation guidelines for ETICS.

The following maximum rafter distances must be observed:

Board thickness in mm	max. ahsial dimension of the rafters in cm
40	62.5
60-160	83.3

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.