AGEPAN®

AGEPAN® THD static

The load-bearing insulation fiber board.

+ Bracing and load-bearing according to national technical approval – saves time and material
+ Ideal for prefabricated houses – cavity insulation can be conveniently installed from the inside, independent of weather conditions
+ Storey-high board formats – fast installation and short construction time
+ High abrasion resistance – fewer fibers in the render, saving time and materials
+ Extremely high strength due to asymmetric density profile – reduced risk of damage

A brand of SONAE ARAUCO

AGEPAN® THD static

Technical Data

Property	Unit	Value
Standard		DIN EN 13171
Raw density ρ acc. to DIN EN 1602 (at 20°C, 65% relative air humidity)	kg/m³	~ 290
Nominal thermal conductivity λ_D	W/mK	0,057
Rated thermal conductivity λ_B	W/mK	0,06
Water vapour diffusion resistance factor μ	–	3
Compressive stress/strength	kPa	≥ 200
Tensile strength perpendicular to the plane of the board	kPa	≥ 7,5
Short-term water absorption	kPa s/m²	≤ 1
Specific thermal capacity	J/kgK	2100
Maximum application temperature	°C	110
Formaldehyde emission class		E1*; NAF (< 0,03 ppm)
Fire behavior Euroclass according to DIN EN 13501-1		E
Disposal		Waste wood category A2; waste code numbers (AVV): 030105, 170201

* Meets the requirements according to the German Chemicals Prohibition Ordinance (E05)
NAF = No-Added Formaldehyde

Building physics parameters

Property	Unit	Board thickness (mm)		
		40	60	80
Nominal value thermal resistance R_D	m²K/W	0,85	1,25	1,70
Thermal resistance R	m²K/W	0,80	1,20	1,60
Water vapour diffusion equivalent air layer thickness s_d	m	0,12	0,18	0,24

Characteristic values of the board and the fasteners according to aBG Z-9.1-725

Property	Unit	Board thickness (mm)		
		40	60	80
Char. Load bearing capacity of the staple R_k on shearing	N / bracket	530	670	620
Shear strength $f_{v,k}$	N / mm²	0,6	0,6	0,5
Modulus of elacitiy in shear G	N / mm²	100	100	100
Kser** Utilization class 1	N / mm	300	400	350
Kser** Utilization class 2	N / mm	200	300	250

** For the deformation analysis in the limit state of the load-bearing capacity, the calculation values Kser have to be reduced by 1/3.

Application areas

Wall

- Wall sheathing of timber frame constructions with ventilated exterior cladding in accordance with DIN 68800-2
- Load-bearing and bracing sheathing subjected to in-plane forces in timber frame construction in accordance with the national approval (aBG) Z-9.1-725
- ETICS on external timber walls in accordance with the national approval (abZ/aBG) Z-33.47-1401

Heat and cold protection | CO_2 storage | Healthy living | E05 Meets the requirements according to the German Chemicals Prohibition Ordinance | FF Formaldehyde-free glued | Weather resistant | MADE IN GERMANY Produced in Germany

PEFC Promoting Sustainable Forest Management PEFC/14-35-00013 www.pefc.co.uk

Use products that are certified accordingly: PEFC-certified products can be delivered on demand and within availabilities. Please specify when ordering.

Your AGEPAN® partner

Technical Datasheet, May 2025

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