



AGEPAN® THDmax vario

The insulation specialist in large size.

- + Extremely high strength due to an asymmetric density profile – reduced risk of damage
- + Vapour-permeable, windtight, and moisture-regulating – for a comfortable indoor climate
- + Available in large formats – ideal for prefabrication and fast installation
- + Fewer joints – increased structural reliability in the façade area

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Technical Data

Property	Unit	Value
Standard		DIN EN 13171
Raw density ρ	kg/m ³	~ 230
Nominal thermal conductivity λ_D	W/mK	0,049
Rated thermal conductivity λ_B	W/mK	0,051
Water vapour diffusion resistance factor μ	–	3
Compressive stress/strength	kPa	40 / 60 mm board thickness: ≥ 250 80 mm board thickness: ≥ 200
Tensile strength perpendicular to the plane of the board	kPa	40 / 60 mm board thickness: ≥ 15 80 mm board thickness: ≥ 10
Short-term water absorption	kPa s/m ²	≤ 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
Outdoor exposure		up to 8 weeks
Board marking		40 / 60 mm board thickness: WF-EN 13171-T4-CS(10/Y)250-TR15-WS1,0-MU3 80 mm board thickness: WF-EN 13171-T4-CS(10/Y)200-TR10-WS1,0-MU3
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	m ² K/W	0,80	1,20	1,60
Thermal resistance R	m ² K/W	0,75	1,15	1,50
Water vapour diffusion equivalent air layer thickness s_d	m	0,12	0,18	0,24

Application areas Field of application according to DIN 4108-10-2021-11

Wall



External wall insulation behind cladding WAB-ds

Insulation of timber frame construction, timber panel construction and comparable compartments WH



Heat and cold protection



CO₂ storage



Healthy living



Meets the requirements according to the German Chemicals Prohibition Ordinance



Formaldehyde-free glued



Weather resistant



Produced in Germany



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 2026

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AGEPAN®

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