AGEPAN®

+ OSB
+ DWD

COMPLETE SOLUTION

only with AGEPAN®

AGEPAN® THD etics M

The plaster carrier board in the ETICS.

A brand of SONAE ARAUCO

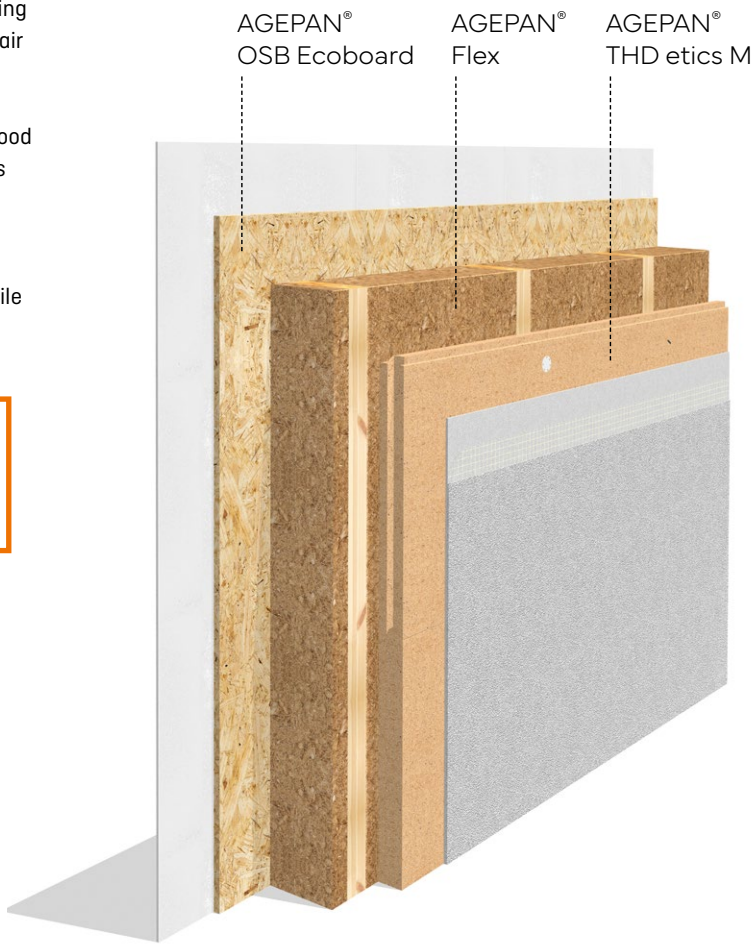
THE PLASTER CARRIER BOARD IN THE ETICS

AGEPAN® THD etics M is a pressure-resistant plaster carrier board according to EN 13171, made from natural wood fibres. As a component of ecological ETICS (External Thermal Insulation Composite System), it is ideal for direct cladding on wooden substrates and provides long-lasting weather protection – with excellent insulating properties for a comfortable indoor climate without the need for air conditioning.

With its low thermal conductivity of λ_D = 0.040 W/mK and very good heat storage capacity, AGEPAN® THD etics M reduces a building's energy demand. It also effectively protects plaster facades from algae growth, as it cools more slowly than mineral insulation materials. The vapour-permeable and moisture-regulating wood fibre insulation board is available with a tongue-and-groove profile in thicknesses from 60 mm to 160 mm.

Compatible AGEPAN® products

When used in a system, for example with AGEPAN® Flex and AGEPAN® OSB Ecoboard, the construction with AGEPAN® THD etics M provides maximum reliability and efficiency in the ETICS.



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

Roof / Ceiling

 Interior ceiling insulation (underside) or roof insulation installed beneath the rafters or structural framework, including solutions such as suspended ceilings	DI-zg
 Interior insulation of the ceiling or floor slab (top side), beneath screed, without sound insulation requirements	DEO-ds

Wall

 External wall insulation system with render finish	WAP-zh
External wall insulation behind cladding	WAB-ds

Delivery information

Thickness (mm)	Edge	Format (mm)	Coverage (mm)	Board coverage (m²)	Pieces / Pallet	Weight / Pallet (kg)
60	T + G	1800 × 600	1780 × 580	1,03	36	370
80	T + G	1300 × 600	1275 × 575	0,73	56	560
100	T + G	1300 × 600	1275 × 575	0,73	44	560
120	T + G	1300 × 600	1275 × 575	0,73	36	560
140	T + G	1300 × 600	1275 × 575	0,73	32	560
160	T + G	1300 × 600	1275 × 575	0,73	28	560

Technical data

Property	Unit	Value
Standard		DIN EN 13171
Raw density ρ	kg/m³	~ 160
Nominal thermal conductivity λ_D	W/mK	0,040
Rated thermal conductivity λ_B	W/mK	0,042
Water vapour diffusion resistance factor μ	–	4
Compressive stress/strength	kPa	≥ 100
Tensile strength perpendicular to the plane of the board	kPa	≥ 10
Short-term water absorption	kg/m²	≤ 1
Flow resistance	kPa s/m²	≥ 100
Specific thermal capacity	J/kgK	2100
Maximum application temperature	°C	110
Fire behavior Euroclass according to DIN EN 13501-1		E
Outdoor exposure		up to 4 weeks
Certification number		Z-33.47-1724
Board marking		WF-EN13171-T5-WS1,0- DS(70,-)3-CS(10/Y)100-TR10-MU4-AFr100
Disposal		Waste wood category A2; waste code numbers (AVV): 030105, 170201

Building physics parameters

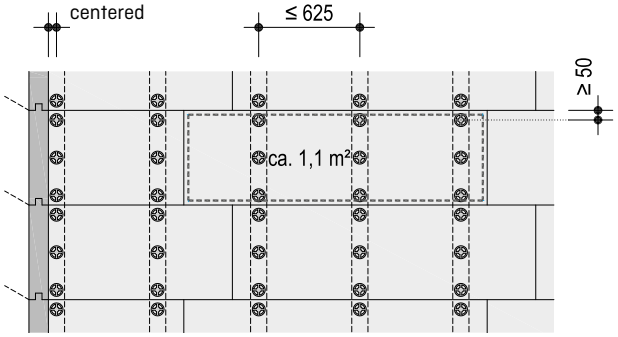
Size	Unit	Board thickness (mm)					
		60	80	100	120	140	160
Nominal value thermal resistance R_D	m² K/W	1,50	2,00	2,50	3,00	3,50	4,00
Thermal resistance R	m² K/W	1,40	1,90	2,35	2,85	3,30	3,80
Water vapour diffusion equivalent air layer thickness s_d	m	0,24	0,32	0,40	0,48	0,56	0,64

General instructions

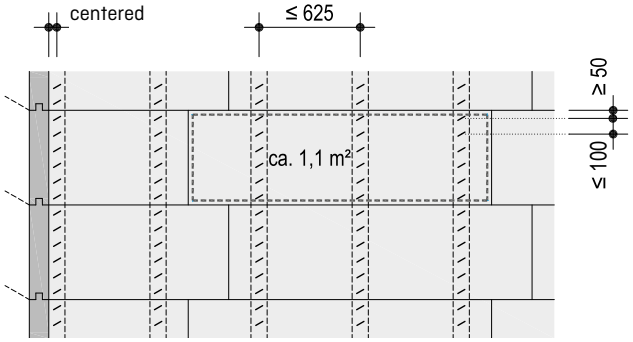
+ Only use flawless boards
+ Install boards precisely in a staggered pattern with the tongue facing upwards
+ Trim the groove on the bottom row of boards
+ Attach boards to the base connection strip and align them accurately
+ Lay the boards in a staggered pattern
+ Minimum joint offset: 30 cm
+ Board joints with tongue and groove are permitted within the frame, but cross joints are not allowed
+ Seal penetrations with joint sealing tape

Fastening

+ Fasten boards to at least two timber studs (< 625 mm)
+ Sink staples to be flush
+ Fastening acc. to national approval certificate abZ Z-33.47-1724
+ Broad back staples (stainless steel):
  – EJOT® ejotherm STR H screw dowel
  – Fischer TermoFix 6HNT screw dowel
+ Dowel and clip spacing must be observed:



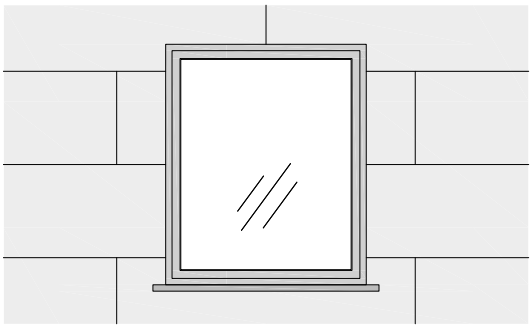
Dowel fixing for floating joints



Clip fastening for floating joints

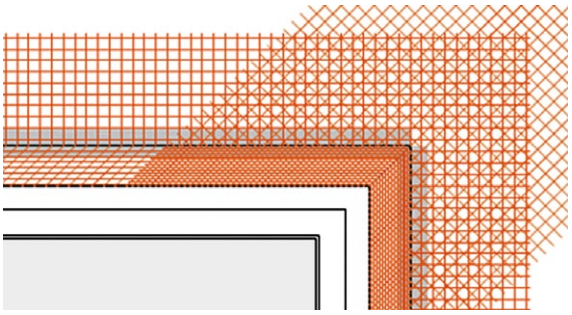
Connections and penetrations

+ Ensure that window connections, window sill connections, and all penetrations are resistant to driving rain
+ Avoid cross joints at window and door openings



Reinforcement mesh, base and finish coat

+ Install and align base profiles, render stop beads, and mesh corner angles
+ Apply base coat
+ Embed all connection mesh in the reinforcing plaster
+ Embed diagonal reinforcement



+ Embed reinforcing mesh, ensuring layer thickness complies with approval requirements
+ Apply top coat
+ If necessary, apply additional paint (see approval)
+ Joints < 5 mm can be filled up with sealant according to the plaster manufacturer's specifications
+ Reveal formation possible with AGEPAN® UDP

Please be sure to observe the German national technical approval certificate abZ/aBG Z-33.47-1724 for AGEPAN® THD etics M with the two plaster systems Knauf and Akurit. Please also observe the current AGEPAN® processing instructions as well as the instructions of the plaster manufacturers.

+ EVERYTHING FROM A SINGLE SOURCE

Compatible, well coordinated system products for maximum safety and smooth workflows.

+ BUILDING AUTHORITY APPROVED

Safety through ETICS certification, plasterable with system partners such as Knauf and Akurit.

+ IMPACT-RESISTANT

Fewer damages thanks to durable top layers.

+ HEAT PROTECTION

Creates a pleasant indoor climate, reduces the need for air conditioning, and thus ensures long-term energy savings.

+ RELIABLE IN APPLICATION

High heat storage capacity, low risk of algae growth on the finished façade, fewer complaints.

+ QUALITY PRODUCT

High standards, sustainably produced in Germany – resulting in a low CO_2 footprint.

+ FUTURE-ORIENTED

Environmentally friendly product: use of reusable pallets, wood as a natural CO_2 store, sourced 100 % from responsible, controlled, and certified forestry.

AGEPAN® shapes the future of building with sustainable wood fiber solutions that connect people and nature. We aim for every construction project to preserve the climate, and enhance quality of life – today and for future generations.

SUSTAINABILITY IS A CORE PRIORITY FOR US.

Protecting the environment is part of our corporate culture. At Sonae Arauco, we are committed to the sustainable use of raw materials and actively uphold these principles throughout the entire production process. AGEPAN® products can contribute to meeting the challenges of climate change.

Heat and cold protection

CO_2 storage

Healthy living

E05
Meets the requirements according to the German Chemicals Prohibition Ordinance

FF
Formaldehyd-free glued

Weather resistant

MADE IN GERMANY
Produced in Germany

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Promoting Sustainable Forest Management
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Institut Bauen und Umwelt e.V.

QDF

CE

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

Your AGEPAN® partner

Product Flyer, May 2025

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