

 **AGEPAN[®]**



**COMPLETE
SOLUTION**
only with AGEPAN[®]



AGEPAN[®] THD cover X

The insulation specialist.

A brand of
**SONAE
ARAUCO** 

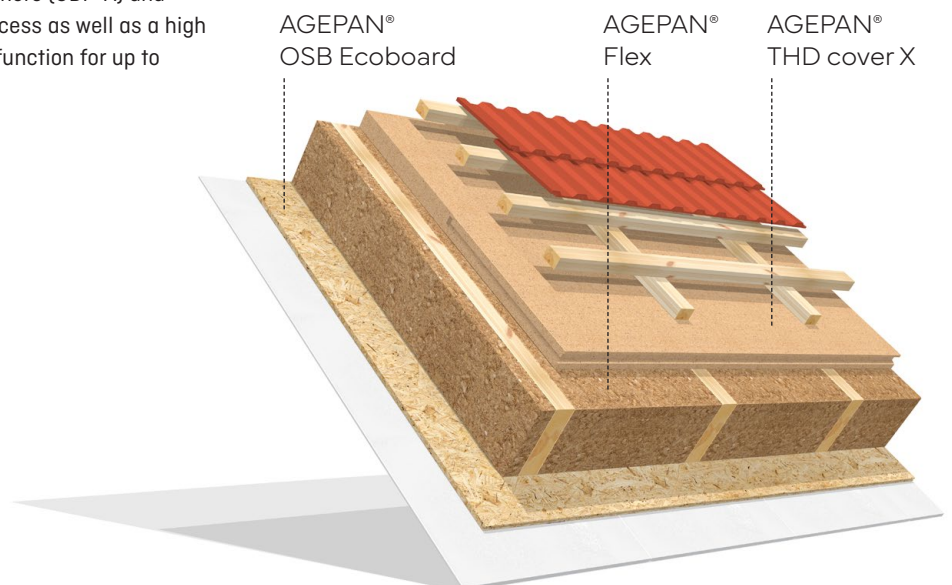
THE INSULATION SPECIALIST

The vapour-permable wood fibre insulation board AGEPAN® THD cover X in accordance with DIN EN 13171 is suitable for use as above-rafter insulation in fully insulated roof and wall constructions. Its excellent thermal insulation properties ensure a particularly comfortable indoor climate in both summer and winter. The asymmetrical raw density profile gives AGEPAN® THD cover X exceptional strength and an abrasion-resistant surface. Thanks to the hygroscopic properties of wood fibers, it contributes to a pleasant indoor climate, reduces the need for air conditioning units, and leads to long-term energy savings.

It also has a high heat storage capacity, which reduces the need for heating and cooling. The board is exceptionally easy to work with and ensures clean cut edges. It is completely hydrophobic, vapour-permeable and sorptive, and can be used as underlayment and insulation board in roof and wall constructions. The underlayment board with a circumferential tongue and groove profile meets the ZVDH specifications as rainproof underlayment for roof pitches of 15° or more (UDP-A) and offers maximum flexibility in the construction process as well as a high level of safety, as it guarantees a temporary roof function for up to eight weeks.

Compressive strength and stability

AGEPAN® THD cover X impresses with its high compressive strength and durability. Thanks to the special manufacturing process, it has a unique asymmetrical raw density profile, which forms a particularly strong top layer with an increased fiber content on one side. The result: a lightweight board core with excellent insulating properties and an exceptionally stable, resistant top layer – for long-lasting quality and optimum performance during processing.





+ STURDY & ROBUST

The asymmetrical raw density profile ensures extremely high stability and minimizes damage.

+ HEAT PROTECTION

Pleasant indoor climate, reduced need for air conditioning units, and thus long-term energy savings.

+ UNDERLAY UDP-A

Second water-repellent layer, vapour-permeable windproof and rainproof.

+ EMERGENCY ROOF FUNCTION

Flexibility in the construction process thanks to temporary roof function for up to 8 weeks.



+ FUTURE-ORIENTED

Environmentally friendly product: wood as a natural CO₂ reservoir, sourced 100 % from responsible, controlled, and certified forestry.

+ ABRASION-RESISTANT SURFACE

Less dust and dirt, better adhesion of adhesive tapes – saves time and primer.



+ HIGH-QUALITY PRODUCT

High standards, sustainably produced in Germany – and therefore a low carbon footprint.

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

Roof / Ceiling



External insulation of roof or ceiling, protected from weather exposure, insulation beneath coverings

DAD-ds



Wall



External wall insulation behind cladding

WAB-ds

Insulation of timber frame construction, timber board construction and comparable compartments

WH

Delivery information

Thickness (mm)	Edge	Format (mm)	Cover dimension (mm)	Cover dimension board (m ²)	Pieces/package	Packages/pallet	Weight/pallet (kg)
40	T+G	1890 x 600	1875 x 585	1.1	26	2	570
60	T+G	1890 x 600	1875 x 585	1.1	17	2	570
80	T+G	1890 x 600	1875 x 585	1.1	13	2	570

Technical Data

Property	Unit	Value
Standard		EN 13171
Raw density ρ	kg/m ³	~ 230
Nominal thermal conductivity λ_D	W/mK	0.047
Rated thermal conductivity λ_B	W/mK	0.049
Water vapour diffusion resistance factor μ		3
Compressive stress/strength	kPa	≥ 200
Tensile strength perpendicular to the plane of the board	kPa	40 mm, 60 mm board thickness: ≥ 10; 80 mm board thickness: ≥ 7.5
Short-term water absorption	kg/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 mm, 60 mm board thickness: WF-EN 13171-T3-CS(10/Y)200-TR10-WS1,0-MU3; 80 mm board thickness: WF-EN 13171-T3-CS(10/Y)200-TR7,5-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

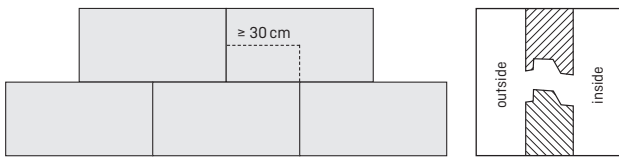
Property	Unit	Board thickness (mm)		
		40	60	80
Nominal value thermal resistance R_D	m ² K/W	0.80	1.20	1.60
Thermal resistance R	m ² K/W	0.75	1.15	1.50
Water vapour diffusion equivalent air layer thickness s_d	m	0.12	0.18	0.24

General information

- + Only use undamaged boards
- + Move individual boards upright
- + When used as a underlay board the exposure to weather is limited to 8 weeks
- + If moisture is absorbed, ensure that the boards are dried back to their normal moisture content
- + If subsequent work is delayed, it may be advisable to cover the boards with suitable weather protection for a period of time
- + Re-cut seams, connections, and penetrations must be windproof and rainproof sealed with suitable adhesive tapes such as pro clima® / TESCON VANA, Ampack / Ampacoll XT, and SIGA / SIGA Wigluv®, each with primer. Follow the manufacturer's instructions

Use in wall areas with rear-ventilated façades

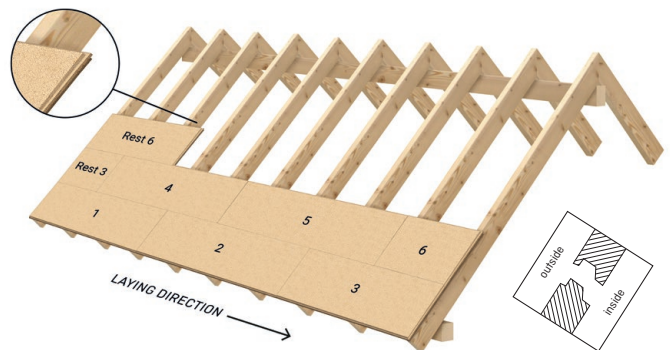
- + Boards can be laid directly onto the supporting structure
- + The following grid dimensions must be observed:
 - Board thickness 40 mm → max. grid 62.5 cm
 - Board thickness 60 / 80 mm → max. grid 83.5 cm
- + Lay boards precisely and joint-tight in a bond pattern
- + The joint offset is at least 30 cm



- + Note the inside and outside (stamped on the outside)
- + The spring points upward or toward the ridge
- + The boards must be fixed in place during installation and then secured with the counter batten

Use as above-rafter insulation

- + The maximum grid dimension of the rafters is:
 - Board thickness 40 mm → max. grid 90 cm
 - Board thickness 60 mm → max. grid 100 cm
 - Board thickness 80 mm → max. grid 110 cm
- + Note the inside and outside (stamping on the outside)
- + The tongue points toward the ridge or upward
- + Laying at right angles to the rafters, starting at the bottom edge (corner area)
- + Laying of the second row begins with the remaining piece of the first row
- + Fasten the board to at least 2 rafters
- + Offset of at least 1 bay axis dimension



- + Fix the boards in place after installation and then secure them with counter battens
- + The fastening of the counter batten are depending on the loads and should be carried out according to structural verification
- + AGEPAN® THD cover X is not a load-bearing component (e.g., snow loads)
- + Surface water runoff can cause discoloration of sheet metal cladding, so use suitable protective films and only remove them after the roof has been completely covered

Please find design aids for counter batten fastening for above-rafter insulation and façades at www.sonaearauco.com

Rainproof underlay (UDP-A) in accordance with ZVDH

- + Rainproof additional measures in accordance with ZVDH "Merkblatt für Unterdächer, Unterdeckungen und Unterspannungen" of class 3 for roof pitches $\geq 15^\circ$; UDP-A
- + Additional taping of tongue and groove joints is not necessary
- + Nail sealing tapes are not necessary










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.



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.

						
Heat and cold protection	CO ₂ 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.



Product Flyer, February 2026

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