

 **AGEPAN**[®]



**COMPLETE
SOLUTION**

only with AGEPAN[®]



AGEPAN[®] DWD 600

With higher raw density.

A brand of
SONAE 
ARAUCO

WITH HIGHER RAW DENSITY

AGEPAN® DWD 600 is a stable wood fibreboard type MDF.RWH in accordance with EN 622-5 for use in rear-ventilated roof and wall constructions.

As a joined load-bearing cladding, it is ideal for stiffening boards subjected to shear stress and provides reliable stabilization for ribs at risk of buckling or tilting in accordance with the German building approval aBG Z-9.1-382. Thanks to its function as a second water-repellent layer, AGEPAN® DWD 600 meets the requirements for sarking boards in accordance with EN 14964: Type IL and UDP-A according to the ZVDH regulations. A particular highlight is the emergency roof function, which allows temporary roof covering for up to 8 weeks – for maximum flexibility in the construction process and protection in unpredictable weather conditions.

- + Raw density $\geq 600 \text{ kg/m}^3$ – suitable for fire protection constructions in accordance with DIN 4102-4
- + Stable tongue and groove profile – quick and secure installation
- + Emergency roof function – flexibility in the construction process thanks to temporary roof function for up to 8 weeks
- + Underlay board UDP-A – second water-draining layer, vapour-permeable, windproof, and rainproof

AGEPAN® DWD 600 with a raw density of $\geq 600 \text{ kg/m}^3$ meets the requirements for fire protection constructions in accordance with DIN 4102-4.



+ EXCEPTIONALLY PRESSURE-RESISTANT



High pressure resistance and excellent cutting properties ensure efficient use of material. The robust design guarantees long-lasting stability and reliable protection throughout the entire life cycle.

+ STABLE T+G PROFILE

Provides a firm hold, is quick to install, and does not need to be taped.

+ QUICK AND EASY PROCESSING

The stable tongue-and-groove profile enables quick and easy installation, contributing to a significantly more efficient workflow on the construction site.

+ FIRE PROTECTION

With a raw density of $\geq 600 \text{ kg/m}^3$, AGEPAN® DWD 600 meets the requirements for fire protection constructions in accordance with DIN 4102-4. It offers a high level of safety and is ideal for use in standard-compliant constructions.

+ ABRASION-RESISTANT SURFACE

The abrasion-resistant surface ensures high durability. Thanks to its stable structure, little or no primer is required when masking, which significantly speeds up installation and reduces material usage.

+ HIGH-QUALITY PRODUCT

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



Application areas

Roof



AGEPAN® DWD 600 with tongue and groove edge can be used as under-roof board type IL in accordance with EN 14964

Rainproof additional measures of class 3 for roof pitches > 14° acc. to the ZVDH „Merkblatt für Unterdächer, Unterdeckungen und Unterspannungen“; UDP-A

Wall



Joint load-bearing cladding of in-plane loaded wall boards for the stabilisation of bar-shaped ribs at risk of buckling or tilting according to German general construction technique permit (aBG) Z-9.1.-382

Stable sarking board as a second water-repellent layer and windproof layer for rear-ventilated exterior wall cladding and roof cladding in accordance with DIN 68 800-2

Delivery information

Thickness (mm)	Edge	Format (mm)	Cover dimension (mm)	Cover dimension board (m ²)	Pieces/package	Packages/pallet	Weight/pallet (kg)
16	STD	3000 x 1247	3000 x 1247	3,7	48	1	1750
16	T+G	2515 x 640	2500 x 625	1,6	40	1	640
16*	T+G	2515 x 1015	2500 x 1000	2,5	40	1	1010

* Upon request

Technical Data

Property	Unit	Unit
Standard		EN 622-5 / EN 13986
Technical standard		MDF.RWH
Raw density ρ	kg/m ³	≥ 600
Nominal thickness	mm	16
Thermal conductivity λ	W/mK	0,1
Water vapour diffusion resistance factor μ		12
Water vapour diffusion equivalent air layer thickness s_d	m	0,19
Bending strength	N/mm ²	14
Modulus of elasticity	N/mm ²	1600
Internal bond	N/mm ²	0,35
Swelling in thickness	%	≤ 8,5
Internal bond after boil test	N/mm ²	0,06
Specific thermal capacity	J/kgK	1700
Maximum application temperature	°C	110
Formaldehyde emission class		E1*, NAF (<0,03 ppm)
Fire behavior Euroclass according to DIN EN 13501-1		D-s2, d0
Moisture content upon delivery	%	9 ± 4
Max. rafter spacing	m	1,00
Permissible axial dimension acc. to ÖNORM B 4119:2018-03	m	≤ 1,00
Outdoor exposure		up to 8 weeks
Disposal		Waste wood category A2; waste code numbers (AVV): 030105, 170210

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

General information

- + Protect boards from moisture, store and process in a dry place
- + Only undamaged boards should be used
- + Move individual boards upright
- + When removing from the package, grip the full thickness of the board
- + Acclimatize the material to the expected moisture level, removed packaging film during storage at the place of installation
- + Changes in length and width due to the effects of moisture must be taken into account in the design

Outdoor exposure

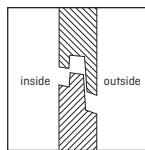
- + Once installed the board can be exposed to natural weather conditions up to 8 weeks
- + If moisture is absorbed, ensure that the boards are dried back to their normal moisture content
- + Excessive moisture absorption reduces the strength of the boards and cannot be completely restored after drying
- + When used as load-bearing cladding in accordance with aBG Z-9.1.-382, the boards must be protected from precipitation. The moisture content of the boards must not exceed 15 % on a permanent basis

Walk-on stability

- + According to the regulations of the German ZVDH (Central association of German Roofers) the product is not safe to walk on. Load transfer in the area between the rafters is not permitted. AGEPAN® DWD 600 is safe to tread in the rafter area
- + The requirements of ÖNORM B 4119 regarding the walkability of sub-roofs are met by 16mm AGEPAN® DWD 600 for a rafter center distance ≤ 100 cm. Provided that the boards are dry, undamaged, professionally laid, and fastened. Floating joints in the rafter field are not permitted
- + No prior exposure to moisture from outside (e.g. due to weather conditions) or inside (e.g. due to moisture from construction work or condensation) is permitted
- + Accident prevention regulations must be strictly observed

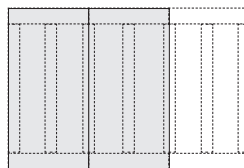
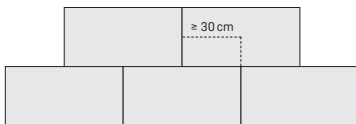
Installation instructions

- + Distinguish between inside and outside (see T+G resp. Logo-print outside)
- + Boards can be installed directly on the supporting structure
- + Tongue points upward or toward the ridge



Wall

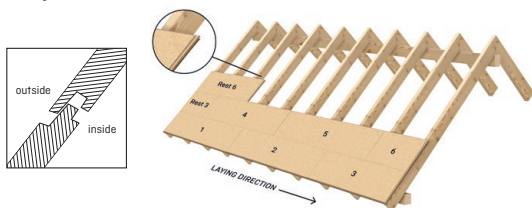
- + The following grid dimensions must be observed:
 - 62.5 cm
 - 83.5 cm
- + Lay boards with tongue and groove precisely and joint-tight in a bond pattern
- + The joint offset is at least 30 cm



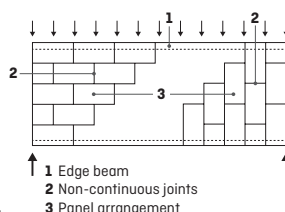
- + For structural applications, the board edges must be fully supported and connected to the supporting structure in a shear-resistant manner. The permissible center distance is 0.75 times the board width. The specifications according to Eurocode 5 DIN EN 1995-1-1 must be observed

Roof

- + Laying perpendicular to the rafters, starting at the bottom edge (corner area)
- + Start laying the second row with the remaining piece from the first row and fasten it to at least 2 rafters
- + The joint offset around a rafter field, but at least 30 cm

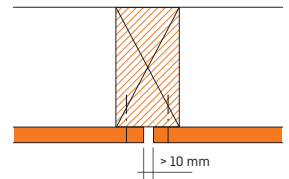


- + Roof boards are designed in accordance with the regulations set out in DIN EN 1995-1-1
- + The boards can be arranged horizontally to the rafters or vertically
- + Free board edges are permitted in accordance with the boundary conditions set out in DIN EN 1995-1-1



Expansion joints

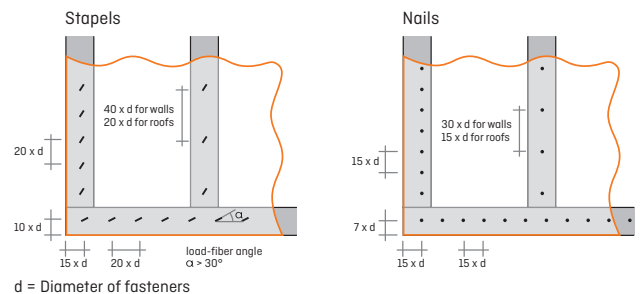
- + Expansion joints must be taken into account for continuous roof surfaces measuring approx. 7 m or more
- + To this end, we recommend making an expansion cut in the longitudinal direction of the rafters or studs



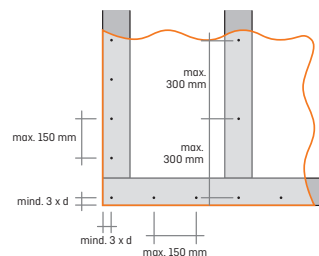
Fastening

- + Fastening is carried out using staples, nails, or screws with a building authority usability certificate (standard or approval)
- + The length of the fasteners is 2.5 x the board thickness, but at least 50 mm
- + Clips with a wire diameter $d \geq 1.52$ mm
- + When using nails, flat-head nails or grooved nails must be used

Recommended minimum spacing of fasteners for structural application



Recommended spacing in non-structural application



The fastening of the counter batten on roofs and walls are depending on the loads and should be carried out according to structural verification. Please find design aids at www.sonaearauco.com.

Additional rainproof measure, increased rainproof underlay

- + Additional rainproof measure in accordance with ZVDH "Merkblatt für Unterdächer, Unterdeckungen und Unterspannungen" class 3 for roof pitches $> 14^\circ$, UDP-A
- + Increased rainproof underlay in accordance with ÖNORM B 4119 for roof pitches $\geq 5^\circ$ (taping of the T+G connection in the tested system with TESCON® VANA + Primer, pro clima®)

Sealing joints and penetrations

- + Recut seams, connections and penetrations must be windproof and rainproof sealed with suitable adhesive tape
- + The following adhesive tapes are recommended for this purpose:
 - pro clima®, TESCON VANA
 - Ampack, Ampacol XT
 - SIGA, SIGA Wigluv®



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.

			E05	FF		MADE IN GERMANY ☆☆☆
Fire protection	CO ₂ storage	Healthy living	Meets the requirements according to the German Chemicals Prohibition Ordinance	Formaldehyd-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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