AGEPAN®

+ OSB
+ DWD

COMPLETE SOLUTION
only with AGEPAN®

AGEPAN® DWD fire X

The fire protection board.

A brand of SONAE ARAUCO

THE FIRE PROTECTION BOARD

Fire protection meets sustainability. The vapour-permable wood fibreboard type MDF.RWH according to DIN EN 622-5 is the ideal solution for rear-ventilated wall constructions with increased fire protection requirements. It is classified as B-s2, d0 (flame retardant) in accordance with DIN EN 13501-1 and, thanks to its raw density of 630 kg/m³, is suitable for fire protection constructions in accordance with DIN 4102-4. At the same time, it combines ecological responsibility with sustainable use of resources and has a significantly lower carbon footprint compared to mineral-bound materials.

+ Standard-compliant fire protection constructions thanks to a bulk density of 630 kg/m³
+ First flame-retardant MDF.RWH
+ Fire behavior class B-s2,d0, limited contribution to fire (B), medium smoke development (s2), no burning droplets (d0)
+ Delays the spread of fire, additional safety
+ Vapour-permable

Innovation in safety:
The first MDF.RWH with flame-retardant properties.

At the same time, it stands for ecological responsibility and sustainable use of resources – with a significantly lower carbon footprint than mineral-bound materials. The combination of fire behavior class B-s2, d0 and sustainability makes it the perfect choice for modern, safe, and environmentally conscious construction projects.

+ ABRASION-RESISTANT SURFACE

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

+ EXCEPTIONALLY PRESSURE-RESISTANT

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

+ FIRE PROTECTION

Fire behavior tested and certified with B-s2, d0. Its raw density of 630 kg/m³ makes it ideal for standard-compliant and safe constructions.

+ EVERYTHING FROM A SINGLE SOURCE

Compatible, perfectly coordinated system products for maximum safety and smooth processes.

+ QUALITY PRODUCT

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

+ FUTURE-ORIENTED

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

Application areas

Wall

Vapour-open and stable wall board for constructions with increased fire protection requirements

Suitable for fire protection constructions in accordance with DIN 4102-4 (bulk density ≥ 600 kg/m³)

Delivery information

Thickness (mm)	Edge	Format (mm)	Cover dimension (mm)	Cover dimension board (m²)	Pieces/package	Packages/pallet	Weight/pallet (kg)
16	STD	3000 x 1247	3000 x 1247	3,7	48	1	1830

Technical Data

Property	Unit	Value
Standard		EN 622-5 / EN 13986
Technical class		MDF.RWH
Raw density ρ	kg/m³	~ 630
Nominal thickness	mm	16
Nominal 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/mm²	14
Modulus of elasticity	N/mm²	1600
Internal bond	N/mm²	0,3
Swelling in thickness	%	≤ 10
Internal bond after boil test	N/mm²	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		B-s2, d0**
Moisture content upon delivery	%	9 ± 4
Outdoor exposure		Exposure to the elements not permitted
Disposal		Waste wood category A2; waste code numbers (AVV): 030105, 17020

* Meets the requirements according to the German Chemicals Prohibition Ordinance (E05)
** Application acc. to classification report KB-Hoch-250716
NAF = No-Added Formaldehyde

General information

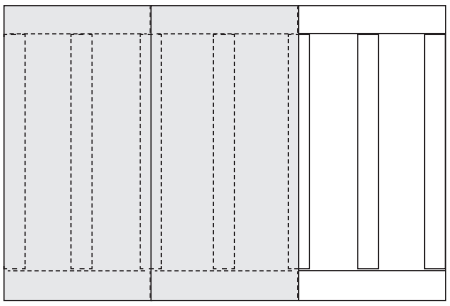
+ Protect boards from moisture, store and process in a dry place
+ Only use undamaged boards
+ Move individual boards upright
+ Acclimatize the material to the expected moisture level, removed packaging film during storage at the place of installation
+ Changes in length and width are directly related to the moisture content and must be taken into account in the design
+ Cut to size using standard woodworking machines; ensure dust and chip extraction

Outdoor exposure

+ Weathering not permitted

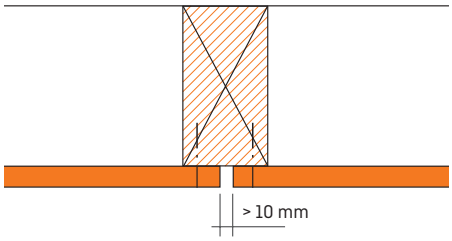
Installation instructions

+ Distinguish between inside and outside (stamped on the outside)
+ Boards can be laid directly on the supporting structure
+ The board edges must be fully supported and connected to the supporting structure
+ For structural applications, the connection must be shear-resistant
+ The characteristic strengths for fibreboard type MDF.RWH in accordance with EN 12369-1 in conjunction with the specifications in accordance with EN 1995-1-1 must be observed
+ The permissible center distance is 0.75 times the board width



Expansion joints

+ Expansion joints must be taken into account for continuous cover areas of approx. 7 m or more

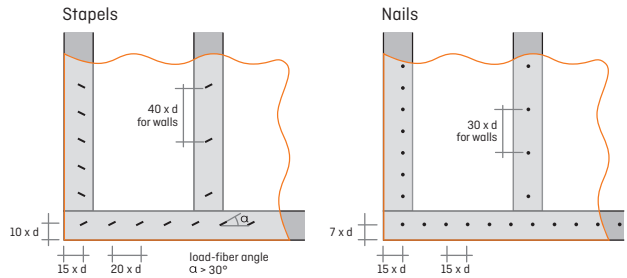


+ In fire protection constructions according to DIN 4102-4, table 49, board joints of max. 2 mm on wooden ribs are permissible

Fastening

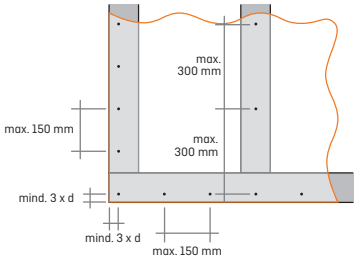
+ Fastening is carried out using staples, nails, or screws with a building authority certificate of usability (standard or approval)
+ The length of the fasteners is 2.5 x the board thickness, but at least 50 mm
+ Stapels with a wire diameter d ≥ 1.52 mm, d = diameter of the fasteners
+ When using nails,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

Recommended minimum spacing of fasteners for structural application



d = Diameter of fasteners

Recommended spacing in non-structural application



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

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, Ampacoll XT
  – SIGA, SIGA Wigluv®

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.

Fire protection

CO_2 storage

Healthy living

E05
Meets the requirements according to the German Chemicals Prohibition Ordinance

FF
Formaldehyd-free glued

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

Product Flyer, February 2026

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