AGEPAN®

+ OSB
+ DWD

COMPLETE SOLUTION
only with AGEPAN®

AGEPAN® DWD black

Ecological wood fibreboard with outstanding visual appeal.

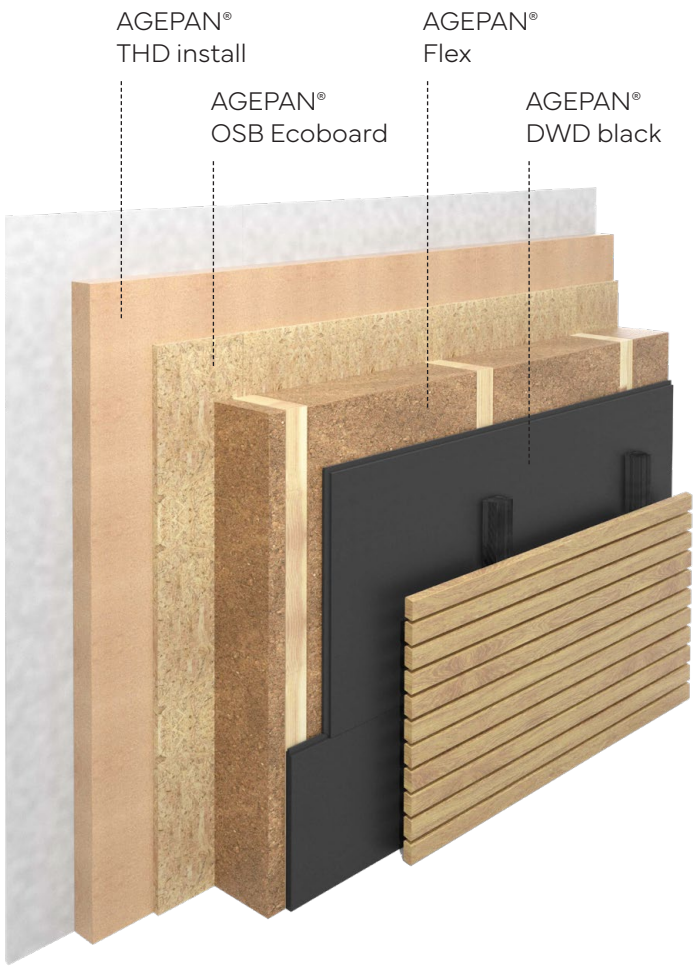
A brand of SONAE ARAUCO

VAPOUR-PERMEABLE WALL CONSTRUCTIONS WITHOUT ADDITIONAL FACADE MEMBRANE

AGEPAN® DWD black is a robust and visually elegant solution for modern façades that perfectly combines sustainability aspects with innovative and unique product features. It is ideal for rear-ventilated curtain walls with open joints. The though-coloured wood fibreboard of type MDF.RWH in accordance with EN 622-5 offers a functional and ecological alternative to façade membranes.
In architecture, planning, and processing, this sustainable added value is specifically utilized in the selection of materials and complemented by additional properties such as stability, abrasion resistance, diffusion openness, and an attractive appearance.
With a raw density of ≥ 600 kg/m^3, it is suitable for fire protection constructions in accordance with DIN 4102-4. The stable tongue and groove profile and high abrasion and compressive strength ensure easy installation.

Unique

AGEPAN® DWD black is the only black-through-coloured wood fibreboard without any harmful additives. It offers a functional and ecological alternative to façade membranes. The pigments used are stable to UV-light and free from dyes or other chemical additives.



+ ABRASION RESISTANT

The robust surface is abrasion resistant and allows for faster installation – flat butt joints can be taped without the additional use of primer.

+ EXCEPTIONALLY PRESSURE-RESISTANT

Significantly more resistant to damage and wear, it remains stable when attaching the counter battens and offers lasting wind protection – without the typical deformations or damage that can occur with façade membranes.

+ FIRE PROTECTION

With a raw density of ≥ 600 kg/m³, the board meets the requirements for standard-compliant fire protection constructions.

+ STABLE T+G PROFILE

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

+ ECOLOGICAL

Free from sticky or harmful additives – no clogging of saw blades, less cleaning required.

+ ATTRACTIVE APPEARANCE

The UV-stable, deep black colouration ensures a uniform, high-quality appearance – ideal for open façades.

+ HIGH-QUALITY PRODUCT

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

Application areas

Wall

Stable underlay board as a second water-repelling layer and windproof layer for external wall cladding with a defined proportion of open joints in accordance with DIN 68 800-2

Sarking board type IL in accordance with EN 14964

Delivery information

Thickness (mm)	Edge	Format (mm)	Cover dimension (mm)	Cover dimension board (m^2)	Pieces/package	Packages/pallet	Weight/pallet (kg)
16	T+G	2515 x 640	2500 x 625	1,6	40	1	640

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. centre distance of studs	cm	83,5
Outdoor exposure		up to 6 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 moisture must be taken into account in the design

Outdoor exposure

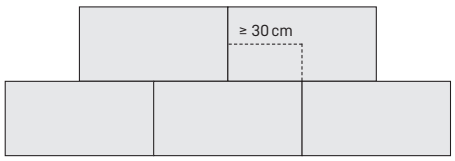
+ Once installed the board can be exposed to natural weather conditions up to 6 weeks
+ If moisture is absorbed, ensure that the boards are dried back to the required moisture content
+ Excessive moisture absorption reduces the strength of the board and cannot be completely restored after drying.

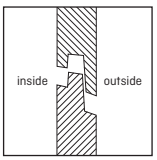
Sealing joints and penetrations

+ 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® INVIS
  – SIGA, Wigluv® Black

Installation instructions

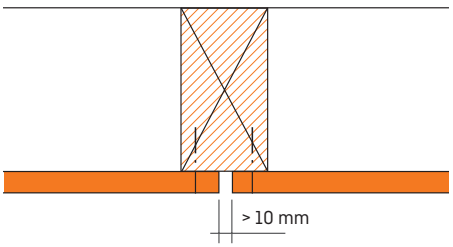
+ Boards can be laid directly on the supporting structure with the tongue points upwards
+ The following grid dimensions must be observed:
  – 62.5 cm
  – 83.5 cm
+ Note the inside and outside (see T+G)
+ Lay the boards in a tight-fitting, joint-tight pattern
+ The joint offset must be at least 30 cm





Expansion joints

+ Expansion joints must be taken into account for continuous cover surfaces measuring approx. 7 m or more
+ An expansion cut in the longitudinal direction of the uprights is recommended for this purpose

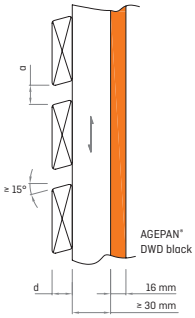


Wooden façade with open joints

+ In principle, professionally installed horizontal rhombus strips offer greater weather protection than vertically arranged wooden slats
+ Compliance with the following conditions does not replace building physics verification
+ Data sets are available in the WUFI® material database for simulation of hygrothermal conditions in building components

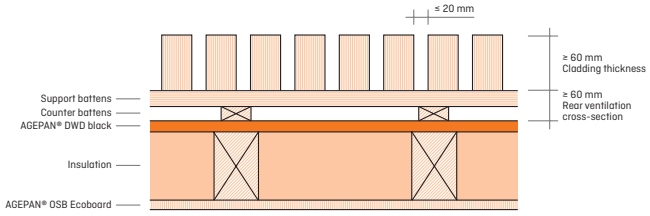
Horizontal cladding – rhombus strips

+ Distance a between rhombus strips: min. 7 mm to max. 20 mm
+ Distance a between rhombus strips ≤ strip thickness d
+ Rhombus strip thickness ≥ 18 mm
+ Ratio of strip width to joint width: 3 : 1
+ Rear ventilation cross-section ≥ 30 mm



Vertical wooden slats

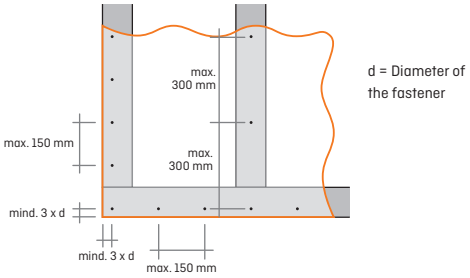
+ Counter battens and support battens ≥ 30 x 50 mm each
+ Rear ventilation cross-section ≥ 60 mm
+ Cladding thickness ≥ 60 mm
+ Maximum joint spacing of cladding ≤ 20 mm



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
+ Clips with a wire diameter d ≥ 1.52 mm
+ When using nails, flat-head nails or grooved nails must be used

Recommended spacing of fasteners:



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

AGEPAN®

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.

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

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.

THIRD-PARTY VERIFIED EPD – Institut Bauen und Umwelt e.V.

QDF CE

Your AGEPAN® partner

Product Flyer, February 2026

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www.sonaearauco.com