NEW!Produced in our new Nettgau plant.
AGEPAN -
Systematical building;
Nature is our inspiration.

The history of construction began very early. In the dim and distant past, the Eskimos in North America utilized nature’s gifts by using snow for thermal insulation. Circularly layered snow and firm panels resulted in a warm and insulated home for the Eskimos.

Mankind’s intelligence in balance with nature’s perfection is still the basis for healthy living today. Living and working in an ecologically-friendly and pleasant atmosphere by using natural material is our motto. The Eskimo’s snow is our wood – a natural product that grows again and again. It has been a long and successful journey from the initial idea to the current timber frame method of construction. Today, our igloos are larger, offering more comfort and a myriad of options for decorative touches and unique design, so that there are endless possibilities when planning your own igloos.

The future belongs to the timber frame construction. Glunz has systematically and intelligently converted nature’s standard to meet today’s demands. We have the right engineered wood products to build ecological and reasonably priced buildings.

AGEPAN DWD, AGEPAN OSB, the AGEPAN-joint System and Soft Fiber Insulation Panels offer the ideal solutions for heavy insulated constructions. Our systems help guarantee the leading market position we occupy. Living and working, feeling at home in harmony with nature - Glunz, the system provider.
AGEPAN OSB

The modern engineered wood product

The modern way of building and designing

- strong-proof, dimensionally stable and durable
- easy to handle, just as solid softwood
- in accordance to building biology
- natural and attractive appearance
- almost 100% yield of the raw wood utilized
AGEPAN OSB - the constructive and decorative timber product

AGEPAN OSB – high-performance material made of softwood: high durability, dimensional stability and an attractive appearance. Therefore, AGEPAN OSB is the suitable material for constructive and decorative use.

Production Process

"OSB" stands for "Oriented Strand Board". That means that the strands are oriented along one layer of the panel. A panel consists of three layers being process-controlled in a continuous press (Conti Roll technique): In the outer layers the strands are longitudinally oriented along the board direction whereas in the core layer the strands are oriented transverse to the board direction. This orientation, also commonly used for plywood, gives AGEPAN OSB high dimensional stability and excellent strength. It is used softwood only and it is obtained from thinnings. The raw material wood can be utilized to a yield of almost 100 %.

Properties

AGEPAN OSB combines first-class mechanical properties with excellent workability. AGEPAN OSB can be nailed, clamped, sawed and screwed just like solid wood. Even in the rim area, nails and screws fit tightly and securely. No cracks, knobs or intermediate ply faults occur in the material. The water-resistant bonding guarantees that AGEPAN OSB remains extremely dimensional stable under the influence of moisture. AGEPAN OSB is clearly under the E1-emission value. In addition, AGEPAN OSB/3 is EN 300 certified for thicknesses of 6-25 mm. Remnants can be disposed or thermally recovered in waste incineration plants.

Less chemical - more natural

AGEPAN OSB is a product made of a solid natural raw material: wood. Due to the CONTIFACE surface AGEPAN OSB is hydrophobic. Additional wood preservatives are not required if the construction is designed according to the common building standards.

AGEPAN OSB - Flexible Usage

The quick roof-shell using tongue and groove in the ideal format. Stiffening planking in the roof. Stable as a connection element within timber frame building. Stiffening and supporting in the wall.
Universal – AGEPAN OSB/3

For universal usage with normal stress resistance demands, we recommend AGEPAN OSB/3 as a strong alternative to previously used materials. AGEPAN OSB 3 is certified according to EN 300 and is supposed to be certified according to the BBA certificate as well. This allows for more favorable dimensioning. The panel can be easily treated and offers an excellent price-performance ratio. AGEPAN OSB/3 is waterproofed bonded and is recommended for biological building. AGEPAN OSB/3 offers a wide range of possible applications such as:

- flooring
- paneling
- hoardings
- packaging/cases/skits
- furniture elements/furniture frames
- store and trade show construction
- decorative areas

Quality that really pays off

In any case, choosing AGEPAN OSB means choosing a quality product. AGEPAN OSB is an officially approved building material and undergoes permanent quality control by the HFB Testing Institute. Production is ISO 9002 certified. Ongoing controls during and after the production process guarantee the highest standard of quality. By carefully packaging the product we make sure that its quality remains preserved for our customers.

GLUNZ Customer Support

The technical applications offers technical support and further information about AGEPAN OSB:

E-mail: info@glunz.de

Stable and decorative – the construction planking doesn’t necessarily need to be covered up.
Climatic storage conditions

AGEPAN OSB panels should be stored in a closed and dry building. In case of temporary outdoor storage, please cover up the piles with a waterproof and diffusion-open canvas. All panels should be placed on high supports in order to avoid contact with the ground and vegetation.

The panels should be air-conditioned to the humidity level corresponding with the place of usage at least 48 hours before use since changes in moisture content of the material always lead to dimensional changes (please refer to technical data: variations in dimensions under climate influence). The moisture content of the panels directly after production usually varies between 5 and 8%.

Depending on the relative humidity, the approximate equilibrium moisture content (EMC) should be:

<table>
<thead>
<tr>
<th>Relative Humidity</th>
<th>Approx. EMC at 20° C (68° F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 %</td>
<td>2–6 %</td>
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<tr>
<td>65 %</td>
<td>8–11 %</td>
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<tr>
<td>90 %</td>
<td>15–18 %</td>
</tr>
</tbody>
</table>

Depending on climate conditions at the time and place of installation, the following moisture contents for the panel should give the orientation:

<table>
<thead>
<tr>
<th>Conditions of Installation</th>
<th>Moisture Content of Panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>constantly central-heated building</td>
<td>6–9 %</td>
</tr>
<tr>
<td>periodically central-heated building</td>
<td>9–10 %</td>
</tr>
<tr>
<td>new, unheated building</td>
<td>15–18 %</td>
</tr>
</tbody>
</table>

Transportation and Handling

During transportation, AGEPAN OSB panels, especially the edges, should be sufficiently protected from water ingress by using a cover that permits water drainage.

Edge protection is also required when lifting, moving, and piling up the panels – especially tongue and groove panels – in order to prevent damage caused by cables or forklifts.

Upon the product’s arrival at its final destination, please check the following information on the label of the panel:

- thickness
- quality class
- surface (sanded, or unsanded)
- edges (tongue and groove)

Storage

Immediately after delivery, please cut off the packaging belts and straps and lay the panels flat on the ground or on scantlings in order to avoid deformation. Ideally, AGEPAN OSB panels should be stored flat. Should there not be any pallets for additional support available, please lay the panels on scantlings of the same thickness, separated from each other by a maximum distance of 600 mm. The scantlings should lay directly on top of each other, parallel to the shorter side of the panels. If panels thinner than 8 mm are to be piled up, we recommend a panel of at least 15 mm thickness to be used as a foundation for the pile. Please make sure that the edges of the piled panels are flush on all four sides. The panels should never overhang by more than 150 mm.

If, for lack of space, AGEPAN OSB is to be stored standing on one edge, please avoid any direct contact to the ground in order not to damage the edges and to prevent the panels from seeping up humidity. The top of the pile should be covered up with a protection panel to prevent climate-dependent distortions.

* Please consider our enclosed working devices. If you have further technical questions please contact our technical hotline.

Phone +49 551/5062-479
Sawing and Milling
When cutting AGEPAN OSB, please make sure that the cutting tool is sharp enough (hard metal tools) and that an appropriate base supports the panel close to the saw or cutting tool. Avoid machine oscillations and always comply with the saw flat joint specifications.

AGEPAN OSB can be precisely cut with conventional hand tools. The best results are obtained with portable or stationary electrical tools. Typical woodworking machines can be used for series production. Hard metal saw blades are recommended due to their long endurance.

The feeding rate should generally be lower than with solid wood.
Please avoid high material humidity due to its negative influence on the cutting quality.

Drilling
Hand drills as well as electrical drills are appropriate, using drill bits normally specified for wood drilling.

Laying and Covering
For outdoor and indoor sheathing boards, please allow for an expansion joint. The joint between the panels should be at least 3 mm wide. Also plan on using an expansion joint at the joints of other building materials for adjusted paneling boards on inside walls. This enables the sheathing board to expand and prevents from formation of buckles.

Nails and Screws
For supporting constructions with AGEPAN OSB, please use non-corroding mounting material, for example made of galvanized, rust-resistant steel. Flat head nails with radial grooves, screw-shank nails, or anchoring nails hold better and should therefore be preferred to straight shank nails (for special nails, please refer to the DIN 1052-T2 German Industrial Standard).

Nails and screws should be at least 50mm long or 2.5 times as long as the panel thickness.
The longer of these two values should be preferred.
Clamps should have a minimum wire diameter of 1.5 mm and a minimum length of 50 mm.

Underlayment
For constructions which will not be subject to compliance tests, we recommend incorporating the following distances between the mounting devices:
- Distance between mounting device and edges: 5 dn
- Distance between outer devices: 150 mm
- Distance between middle devices: 300 mm

For constructions subject to compliance tests, the timber construction standard regulations (DIN 1052-T2) do apply. When using thinner and more flexible OSB boards, please begin mounting in the middle of the upper edge and then proceed evenly downwards and outwards. This prevents the formation of buckles.

Coating and Varnishing
Visible AGEPAN OSB panels exposed to weather are to be protected against soaking, abrasion etc. with sheathing, paint, or surface coatings. Invisible boards inside the building do not require any specific treatment. Sanded panels are generally used only for indoor sheathing. They can be painted, wallpapered (after the application of an elastic sub-wallpaper) etc. Conventional coating systems, wax and, to a limited extent, oil for wood and wood-based material are appropriate. Please note that water-based varnishes and stains may lead to partial particle swelling. Please follow the instructions provided by the varnish manufacturers.

A test coating should be carried out before using solvent-based varnish, wax or oil (especially containing terpene), as some products may be incompatible with wood ingredients. AGEPAN OSB can also be coated with laminates or wood veneer. All veneer glues can be used as an adhesive, e.g. PVAc based (polyvinyl acetate). For tiling, please follow the guidelines of the NOVOPAN wood chipboards (board-thickness = 22mm).
Floating boards (dry floor screed) should be durably protected against humidity absorption and emission (e.g. with varnish sealing).
# The OSB Product Range

## AGEPAN OSB/2 and OSB/3

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<tr>
<th>Type</th>
<th>Format*</th>
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<td>Tongue and groove panel - 2-edges, sanded</td>
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* other formats and thicknesses available upon request