



CORE&TECHNICAL

Products

OSB 2 ECOBOARD

Load-bearing OSB for use in dry conditions

DESCRIPTION

Sonae Arauco OSB 2 ECOBOARD is a structured panel with three layers of long wood strands arranged at right angles to each other, bonded with formaldehyde-free resin applied under high temperature and pressure. In the outer layers, the particles are arranged lengthwise in relation to the length of the board; in the inner layer, they are at right angles to the length of the board. It is a product with excellent mechanical resistance and durability and is extremely versatile.

OSB 2 ECOBOARD panels are governed under building law with characteristic values according to EN 1995-1-1 (Eurocode 5), presenting high strength and stability.

For further information on available sizes and thicknesses, please see our Offer & Service Brochure.

APPLICATIONS

OSB 2 ECOBOARD is a wood-based panel type OSB/2 according to EN 300 and EN 13986 and must be applied in service class 1 (restrictions in temperature and ambient humidity).

The product is suitable for load-bearing ceiling sheathing, floating floor construction, decorative areas in the interior construction, shop fitting and exhibition stand construction.

RECOMMENDATIONS

Boards must be stacked on a hard, level surface and protected from direct contact with water. Expansion and contraction in wood products is directly related to moisture content and must be considered during design and construction.

Wood based panels are biodegradable and can be recycled, follow local regulation for the disposal of residues.

PROPERTIES



VERSATILITY



EASY TO MILL



DURABILITY



COMPLIANT WITH
CHEMVERBOTS



LOW EMISSIONS



RETAIL &
EXHIBITIONS



PANELLING

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GENERAL CHARACTERISTICS

| PROPERTY | TEST | UNIT | THICKNESS RANGE (mm) | | |
|------------------------------------|----------|------|----------------------|-----------|---------|
| | | | 6 - 10 | >10 - <18 | 18 - 25 |
| Tolerance on thickness (un-sanded) | EN 324-1 | mm | ± 0,8 | ± 0,8 | ± 0,8 |
| Tolerance on length and width | EN 324-1 | mm/m | ± 3,0 | ± 3,0 | ± 3,0 |
| Edge straightness tolerance | EN 324-2 | mm/m | ≤ 1,5 | ≤ 1,5 | ≤ 1,5 |
| Squareness tolerance | EN 324-2 | mm/m | ≤ 2 | ≤ 2 | ≤ 2 |
| Tolerance on mean density | EN 323 | % | ± 15 | ± 15 | ± 15 |
| Moisture content | EN 322 | % | 2 - 12 | 2 - 12 | 2 - 12 |

TECHNICAL INFORMATION

| PROPERTY | TEST | UNIT | THICKNESS RANGE (mm) | | |
|------------------------------------|--------|-------------------|----------------------|-----------|---------|
| | | | 6 - 10 | >10 - <18 | 18 - 25 |
| Density* | EN 323 | Kg/m ³ | > 600 | > 600 | > 600 |
| Bending strength – major axis | EN 310 | N/mm ² | ≥ 22 | ≥ 20 | ≥ 18 |
| Bending strength – minor axis | EN 310 | N/mm ² | ≥ 11 | ≥ 10 | ≥ 9 |
| Modulus of elasticity – major axis | EN 310 | N/mm ² | ≥ 3500 | ≥ 3500 | ≥ 3500 |
| Modulus of elasticity – minor axis | EN 310 | N/mm ² | ≥ 1400 | ≥ 1400 | ≥ 1400 |
| Internal bond | EN 319 | N/mm ² | ≥ 0,34 | ≥ 0,32 | ≥ 0,30 |
| Swelling (24 hours) | EN 317 | % | ≤ 20 | ≤ 20 | ≤ 20 |
| Formaldehyde emission class | | | | E1** | |

* Value to be used only as a reference

** Compliant with limit of ChemVerbotsV (E05)

OSB 2 ECOBOARD boards meet the specifications of EN 300, type OSB/2, and are CE marked. For more information regarding the technical properties check de Product Declaration of Performance (DoP).

CERTIFICATIONS

Please pay attention to certified products:



The mark of
responsible forestry
FSC® C009049



Promoting
Sustainable Forest
Management
PEFC
C004-32-0167
www.pefc.org



FSC® and PEFC- certified products are available on request and availability.

www.sonaearauco.com

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ADDITIONAL INFORMATION

| PROPERTY | UNIT | THICKNESS (mm) | BENDING f_m | | TENSION f_t | | COMPRESSION f_c | | PANEL SHEAR f_v | PANEL SHEAR f_v |
|----------|-------------------|----------------|---------------|---------|---------------|---------|-------------------|---------|-------------------|-------------------|
| | | | or 0 | ⊥ or 90 | or 0 | ⊥ or 90 | or 0 | ⊥ or 90 | | |
| Strength | N/mm ² | 6 – 10 | 18,0 | 9,0 | 9,9 | 7,2 | 15,9 | 12,9 | 6,8 | 1,0 |
| | | > 10 – 18 | 16,4 | 8,2 | 9,4 | 7,0 | 15,4 | 12,7 | | |
| | | > 18 – 25 | 14,8 | 7,4 | 9,0 | 6,8 | 14,8 | 12,4 | | |

| PROPERTY | UNIT | THICKNESS (mm) | BENDING E_m | | TENSION E_t | | COMPRESSION E_c | | PANEL SHEAR G_v | PANEL SHEAR G_v |
|-----------|-------------------|----------------|---------------|---------|---------------|---------|-------------------|---------|-------------------|-------------------|
| | | | or 0 | ⊥ or 90 | or 0 | ⊥ or 90 | or 0 | ⊥ or 90 | | |
| Stiffness | N/mm ² | 6 – 25 | 4930 | 1980 | 3800 | 3000 | 3800 | 3000 | 1080 | 50 |