

Quality Management ISO 9001:2015

Coding: TDEBP734EN

Revision: 07

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Technical data sheet

EGGER OSB 3 E0 EAC CE
EGGER Ergo Board

Recipe: 734 (unsanded/sanded)

Material description: OSB/3 board (unsanded) according to EN 300 for use for load-bearing purposes under humid conditions, emission class – E1 (acc. to ChemVVO (DE). Formaldehyde free PMDI bonding Tests and classification according to valid EN-standards acc. to EN 13986:2004+A1:2015.



Plant: Wismar / Radauti

Board type according to EN 300

| Mechanical properties | Unit | Requirement | | | | |
|---|-----------|-------------|----------|---------|----------|----------|
| Board thicknesses | [mm] | >6 – 10 | > 10 <18 | 18 - 25 | >25 - 30 | >30 - 40 |
| Density | [kg/m³] | 600 | | | | |
| Internal bond EN 319 | [N/mm²] | 0.34 | 0.32 | 0.30 | 0.28 | |
| Internal bond – option 1 EN 321 | [N/mm²] | 0.18 | 0.15 | 0.13 | 0.10 | |
| Internal bond – option 2 EN 300/Annex A | [N/mm²] | 0.15 | 0.13 | 0.12 | 0.06 | |
| Bending strength - major axis EN 310 | [N/mm²] | 22 | 20 | 18 | 16 | |
| Bending strength - minor axis EN 310 | [N/mm²] | 11 | 10 | 9 | 8 | |
| Bending strength - major axis - option 1 | [N/mm²] | 9 | 8 | 7 | 6 | |
| Modulus of elasticity - major axis EN 310 | [N/mm²] | 3500 | 3500 | 3500 | 3500 | |
| Modulus of elasticity - minor axis EN 310 | [N/mm²] | 1400 | 1400 | 1400 | 1400 | |
| Thickness swelling 24 h EN 317 | [%] | ≤15 | | | | |
| Moisture content ¹⁾ 1 EN 322 | [%] | 5 - 12 | | | | |
| Formaldehyde emission EN 717-1 | [ppm] | ≤ 0.03 (E0) | | | | |
| Formaldehyde content ²⁾ EN 12460-5 | [mg/100g] | ≤ 2.0 | | | | |

| General tolerances | Unit | Requirement | | | | |
|---|--------|-------------|----------|---------|-----------|----------|
| Board thicknesses | [mm] | >6 – 10 | > 10 <18 | 18 - 25 | > 25 - 30 | >30 - 40 |
| Tolerance length & width EN 324 | [mm] | ± 3.0 | | | | |
| Thickness tolerance – unsanded EN 324 | [mm] | ± 0.5 | | | | |
| Thickness tolerance - sanded EN 324 | [mm] | ± 0.3 | | | | |
| Sanding grid | | grain 100 | | | | |
| Edge straightness tolerance EN 324 | [mm/m] | ≤ 1.5 | | | | |
| Squareness tolerance EN 324 | [mm/m] | ≤ 2.0 | | | | |
| Tolerance on the mean density within a board EN 323 | [%] | ± 15 | | | | |

1) When dispatched

2) Perforator value according EN ISO12460-5
according EN 13986_2004+A1:2015, Annex B, Emission class E1:
half year average value: 6.5mg HCHO/100g abs. dry board
single value: 8.0 mg HCHO/100g abs. dry board

| Design values / classifications | Unit | Requirement | | | | |
|---|----------|---|----------|---------|-----------|----------|
| | | >6 - 10 | > 10 <18 | 18 - 25 | > 25 - 30 | >30 - 40 |
| Board thicknesses | [mm] | >6 - 10 | > 10 <18 | 18 - 25 | > 25 - 30 | >30 - 40 |
| Reaction to Fire EN 13501-1 | [mm] | <9 mm: class E / ≥ 9 mm: class D-s2, d0 | | | | |
| Thermal conductivity | [W/(mK)] | 0.13 | | | | |
| Water vapour permeability EN 12752 μ value | - | dry cup: 200 wet cup: 150 | | | | |
| Air permeability EN 12114 at 50 Pa pressure difference | [m³/m²h] | / | | | | |

Note:

Characteristic values acc. to EN 12369-1: 2001 for the static design calculation of timber construction works are available for OSB acc. to EN 300:2006 only in the thickness range from 6 to 25 mm.