Quality Management ISO 9001:2015

Coding: TDEBP734EN
Revision: 07
Approved: 31.03.2022

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				
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.