Quality Management ISO 9001:2015

Coding: TDRAU737EN
Revision: 05
Approved: 08.06.2020

Technical data sheet

EGGER OSB 3 E1 CE

Recipe: 737
Material description: OSB/3 board (unsanded) according to EN 300 for use for load-bearing purposes under humid conditions, emission class – E1. Tests and classification according to valid EN-standards acc. to EN 13986. Strength values are average values.

plant: 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	0.29	0.26
Internal bond – option 1	[N/mm²]	0.18	0.15	0.13	0.10	0.08
Internal bond - option 2	[N/mm²]					
Bending strength EN 310	[N/mm²]	22	20	18	16	14
Bending strength EN 310	[N/mm²]	11	10	9	8	7
Bending strength - major axis - option 1	[N/mm²]	9	8	7	6	
Bending modulus of elasticity - major axis EN 310	[N/mm²]	3500	3500	3500	3500	3500
Bending modulus of elasticity - minor axis EN 310	[N/mm²]	1400	1400	1400	1400	1400
Thickness swelling 24 h EN 317	[%]	≤ 15				
Moisture content[1] 1 EN 322	[%]	2 - 12				
Formaldehyde emission EN 717-1	[ppm]	t < 15 mm: ≤0.10 / t≥ 15 mm : 0.05				
Formaldehyde content[2] EN 12460-5	[mg/100g]	≤8.0				

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]	± 0.8				
Thickness tolerance - sanded EN 324	[mm]	not applicable				
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				

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]	<9mm : class E / ≥ 9mm : class D-s2, d0				
Thermal conductivity	[mm]	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]					

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

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.