

PRODUCT DATA SHEET

EGGER OSB 3 C E

Recipe: 737, (unsanded)

Material description: OSB/3 board for use for load bearing purposes under humid conditions according EN 300, emission class – E1.

Tests according to valid EN-standards. Strength values are average values.

Plant: RADAUTI

Board type according EN 300

Mechanical properties	Standard	Unit	Requirement				
Board thickness		[mm]	6,0–10	>10<18	18–25	>25–32*3	>32–40*3
Density	EN 323	[kg/m ³]	≥600	≥600	≥600	≥600	≥600
Internal bond	EN 319	[N/mm ²]	≥0,34	≥0,32	≥0,30	≥0,29	≥0,26
Internal bond after cyclic test	EN 321	[N/mm ²]	≥0,18	≥0,15	≥0,13	≥0,10	≥0,08
Bending strength major axis	EN 310	[N/mm ²]	≥22	≥20	≥18	≥16	≥14
Bending strength after cyclic test major axis	EN 310	[N/mm ²]	≥9	≥8	≥7	≥6	≥6
Bending strength minor axis	EN 310	[N/mm ²]	≥11	≥10	≥9	≥8	≥7
Modulus of elasticity major axis	EN 310	[N/mm ²]	≥3500				
Modulus of elasticity minor axis	EN 310	[N/mm ²]	≥1400				
Swelling in thickness 24h	EN 317	[%]	≤15				
Tolerance of the mean density	EN 323	[%]	±15				
Moisture content *1	EN 322	[%]	2-12				
Formaldehyde content *2	EN 120	[mg/100g]	≤8,0				

General tolerances	Standard	Unit	Requirement
Tolerance in length	EN 324-1	[mm]	±3,0
Tolerance in width	EN 324-1	[mm]	±3,0
Tolerance in thickness (un-sanded)	EN 324-1	[mm]	±0,5
Squareness tolerance	EN 324-2	[mm/m]	≤2,0
Edge straightness tolerance	EN 324-2	[mm/m]	≤1,5

Building physical properties	Standard	Unit	Requirement
Class of reaction to fire	EN 13501-1		<9 mm: E / ≥9 mm: D-s2, d0
Thermal conductivity	EN 13986	[W/(m·K)]	0,13
Water vapour permeability (μ-value)	EN ISO 12572	-	200/150 (dry cup/wet cup)

*1) When dispatched

*2) Perforator value according EN 120 according "DIBt-recommendation 100" from June 1994 are the allowed values:
 half year average value: 6,5mg HCHO/100g abs. dry board
 single value: 8,0mg HCHO/100g abs. dry board

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