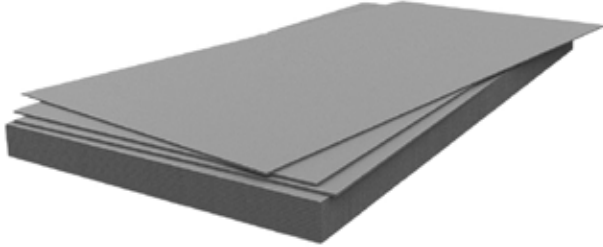


BZSPlus+ cement-bonded particleboards (A2-s1, d0 reaction to fire class)

BZSPlus+ cement-bonded particleboard:



BZSPlus+ boards color	gray
maximum board size	3200 x 1200 mm
board thickness	8, 10, 12, 14, 16, 18, 20, 22, 24 mm
surface	smooth
surface finish	without finish
additional services	<ul style="list-style-type: none"> • board cutting (straight cut across the board length and width), • edge milling – tongue and groove

Maximum dimensional tolerances of BZSPlus+ boards

Parameter	Maximum tolerance, (mm)
Length	± 5.0
Width	± 5.0
Thickness	
8, 10 mm	± 0.7
12, 14 mm	± 1.0
16, 18 mm	± 1.2
20, 22, 24 mm	± 1.5
Maximum length and width tolerance after cutting (additional services)	± 3.0
Edge straightness tolerance measured on a length of 1000 mm	≤ 1.5
Edge squareness tolerance measured on a length of 1000 mm	≤ 2.0

Main physical and mechanical properties of BZSPlus+ cement-bonded particleboard

Parameter	Standard	Standard value	Actual mean value
Density, kg/m ³	EN 323	1350 - 1430	1400
Bending strength, N/mm ²	EN 310	min 9.0	13.0
Bending modulus of elasticity, N/mm ²	EN 310	min 4500	6300
Moisture content, %	EN 634-1	9 ± 3	10
Durability - thickness swelling after 24 h, %	EN 317	max 1.5	0.5
Tensile strength perpendicular to panel surface, N/mm ²	EN 319	min 0.5	0.8
Moisture resistance - thickness swelling after cyclic test, %	EN 321	max 1.5	0.15
Moisture resistance - tensile strength perpendicular to panel surface after cyclic test, N/mm ²	EN 321	min 0.3	0.5
Reaction to fire	EN 13501-1		A2-s1, d0
Reaction to fire for floor boards	EN 13501-1: 2018		A2fl –s1
pH value			11–13

Parameter	Standard	Standard value	Actual mean value
Formaldehyde content, mg/m ³			<0.002 (E1)
Weighted acoustic reduction factor, R _w , dB			8 mm — 33 24 mm — 38
Diffusion water vapor transmission rate, g, mg.m ⁻² .h ⁻¹			2884.2437
Vapor permeability, W, mg.m ⁻² .h ⁻¹ .Pa ⁻¹			1.2068
Diffusion conductivity coefficient, δ, mg.m ⁻¹ .h ⁻¹ .Pa ⁻¹			0.0145
Vapor diffusion resistance factor, μ			48
Thermal conductivity factor, λ _{10°} , W.m ⁻¹ .K ⁻¹	EN 12667		0.234
Radiological parameters:			12.5
mass activity index		0.5	0.18
K 40, Bg.kg ⁻¹			201
Ra 226, Bg.kg ⁻¹		150	18.7
Th 228, Bg.kg ⁻¹			11.3