

## BZSPlus cement-bonded particleboards (B-s1, d0 reaction to fire class)

### BZSPlus cement-bonded particleboards:



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

### Maximum dimensional tolerances of BZSPlus boards:

Parameter	Maximum tolerance, (mm)
Length	± 5.0
Width	± 5.0
Thickness	
8, 10 mm	± 0.7
12 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 <sup>3</sup>	EN 323	min 1000	1350
Bending strength, N/mm <sup>2</sup>	EN 310	min 9.0	13.0
Bending modulus of elasticity, N/mm <sup>2</sup>	EN 310	min 4500	6300
Moisture content, %	EN 634-1	9 ± 3	11
Durability — thickness swelling after 24 h, %	EN 317	max 1.5	0.5
Tensile strength perpendicular to panel surface, N/mm <sup>2</sup>	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 <sup>2</sup>	EN 321	min 0.3	0.5
Reaction to fire	EN 13501-1		B-s1, d0
Formaldehyde content, mg/m <sup>3</sup>	EN 717-1		< 0.002 (E1)
pH value			11 - 13