

Technical data sheet

Particle boards type P3 E1

Technical characteristics	Unit	Thickness [mm]					Standard	
		>6+13	>13+20	>20+25	>25+32	>32+40		
General requirements								
1	Density	kg/m ³ ± 10 %	720	670	650	630	620	EN 323
2	Tolerance of thickness	mm	± 0.3					EN 324-1 EN 14323
3	Tolerance on length and width	mm/m	± 5					EN 324-1 EN 14323
4	Squareness tolerances	mm/m	2					EN 324-2 EN 312
5	Edge straightness tolerance	mm/m	1,5					EN 324-2 EN 312
General requirements – mechanical properties								
6	Bending strength	N/mm ²	≥ 15	≥ 14	≥ 12	≥ 11	≥ 9	EN 310 EN 312
7	Modulus of elasticity in bending	N/mm ²	≥2050	≥1950	≥1850	≥1700	≥1550	EN 310 EN 312
8	Internal bond	N/mm ²	≥ 0.45		≥ 0.40	≥ 0.35	≥ 0.30	EN 319 EN 312
9	Swelling in thickness [24h]	%	≤ 17	≤ 14	≤ 13		≤ 12	EN 317 EN 312
10	Surface soundness	N/mm ²	> 0.8					EN 311 EN 312
11	Formaldehyde release – E1	mg/100g	≤ 8					EN 12460-5 EN 312
12	Moisture content	%	5 ÷ 13					EN 322 EN 312
General requirements – moisture resistance								
Option 1								
13	Internal bond after cyclic test	N/mm ²	≥ 0.15	≥ 0.13	≥ 0.12	≥ 0.10	≥ 0.09	EN 321 EN 312
14	Swelling in thickness after cyclic test	%	≤ 14	≤ 13	≤ 12		≤ 11	EN 321 EN 312

Option 2							
15	Internal bond after boil test	N/mm ²	≥ 0.09	≥ 0.08	≥ 0.07	≥ 0.06	EN 1087-1 EN 312



Commercial Director
Nikolay Bankov

Approved by



Production Director
Radovan Caha

Technical data sheet: Particle boards type P3 E1 - Revision 1/22.10.2021
Prepared by: M.Pachikova – laboratory manager