

Zero Furniture Board: Bio-Based Innovation for Interior Spaces

Versatile Solutions for Modern Living



Bio-Based Innovation for Interior Spaces

Zero Furniture Board combines a wood-based lignin binder with a board structure manufactured from side streams of wood processing. The board has been developed for furniture, cabinetry and interior applications where versatility and a high-quality finish are valued.

In the binder system, fossil-based raw material has been replaced with wood-based lignin.

- Binder solution based on renewable raw materials
- No added formaldehyde
- Contains no isocyanates
- Contains no fossil-based materials

Transforming Spaces with Innovative Design

Broad range of uses:

- Ideal for flooring, furniture, and cabinetry
- Consistent in strength and durability
- High-quality, reliable performance

Zero Furniture Board is suitable for a wide range of interior and furniture applications. The board's consistent properties enable applications ranging from cabinetry and furniture to furnishing solutions for public spaces. Manufactured in Finland, Zero Furniture Board provides designers and manufacturers with a new alternative for interior material selections.

” Zero Furniture Board utilizes wood-based lignin as a replacement for fossil-based binder materials. The board is designed for furniture, cabinetry and a wide range of interior applications.



Innovative Technology, A New Material Solution

Koskisen Zero Furniture Board offers a binder solution based on wood-derived lignin, combined with versatile performance properties for furniture and interior applications.

Raw material	Sawdust and wood chip side streams from Koskisen's wood industry
Base board	P2 chipboard meeting the requirements of standard E312
Formaldehyde Class	No added formaldehyde EPA 40 CFR, TSCA Title VI, § 770.10.
Thickness	6–36mm
Sizes	Uncoated: 1220x2630mm, 1290x3045mm, 1830x2630mm, 1200–1830x1830–4580mm, Other sizes at request Coated: 1830x2750mm
Density	700kg/m ³
Machining	Drilling of holes and edge machining such as T&G, chamfer and rebate on request

Particle board P2	Board thickness					
	Unit	> 6–13	> 13–20	> 20–25	> 25–32	> 32–40
Mechanical properties EN 312						
Bending strength	N/mm ²	11	11	10.5	9.5	8.5
Modulus of elasticity in bending	N/mm ²	1,800	1,600	1,500	1,350	1,200
Internal bond	N/mm ²	0.40	0.35	0.30	0.25	0.20
Surface soundness	N/mm ²	0.80	0.80	0.80	0.80	0.80
Density (target)	kg/m ³	750	700	685	650	620

	Unit	Board thickness
General tolerances EN 324-1		
Length	mm	+/-5
Width	mm	+/-5
Thickness	mm	+/-0.3
Straightness of edge	mm/m	1.5
Squareness	mm/m	2
Density	%	+/-10

Unit		
Essential characteristics EN 13986		
Release of formaldehyde	No added formaldehyde EPA 40 CFR, TSCA title VI, § 770.10.	
Reaction to fire*	D-s2, d0	
Water vapour permeability	kg/msPa	3...7 x 10 ⁻¹²
Air permeability	m ² /sPa	10...25 x 10 ⁻⁹
Thermal conductivity	W/(m · k)	0.13
Biological durability (EN 335)	Class 1	
Content of PCP	≤5ppm	
Sound insulation**	dB	24–29

* If density is over 400 kg/m² and thickness above 9 mm

** Panel thickness between 12–18 mm



Meet Chip and Lignin, the mascots of Koskisen's Zero Furniture Board. Chip represents wood particles generated as a side stream of wood processing, while Lignin represents the wood-based lignin used in the binder. Together, they illustrate the key characteristics of Zero Furniture Board.

In Zero Furniture Board, fossil-based binder material has been replaced with wood-based lignin. Manufactured in Finland, the board is suitable for a wide range of furniture, cabinetry and interior applications.

Choose Zero Furniture Board for your next project. Combine versatile application possibilities, consistent properties and an innovative board product in interior design.

