

PRODUCT DATA SHEET

Festholz[®]

Highly tempered board material (synthetic resin pressboard) according to DIN 7707 from a combination of duromeric resin and hardwood with a high-hardened structure.

Applications: Automotive and aerospace industry: in plants, machinery and shipbuilding, cold rolling mills and foundries

Technical data (mean values)

Type (works standard)		8121	8131	8221	8231	8223
Veneer layers per cm finished thickness approx.		25	11	25	11	22
Resin-pressed wood DIN 7707		20217	20216	20227	20227	-
Class (grain direction of veneers ¹)		A	A	B	B	B
Bulk density DIN 53479 approx. (g/cm ³)		1,37	1,37	1,37	1,37	1,37
Bending strength DIN 534522 (N/mm ²)	⊥ 	290 260	240 220	190 160	190 160	150 120
Impact strength DIN 53453 (kJ/m ²)	⊥ 	55 45	65 50	30 20	40 20	16 12
Notched impact strength DIN 53453 (kJ/m ²)		40	40	10	15	6
Tensile strength DIN 53455 (kJ/mm ²)		210	200	120	120	85
Compressive strength DIN 53454 (N/mm ²)	⊥ 	170 -	160 -	260 150	240 130	220 -
Ball indentation hardness DIN 53456 (N/mm ²)	⊥	120	120	200	150	250
Splitting power DIN 53463 (N)		5000	5000	4600	3600	5000
Bending modulus of elasticity DIN 53457 (N/mm ²)	⊥ 	24000 23000	22000 20000	16000 14000	17000 14000	12500 12000
Water absorption ³) DIN 53495 of 10 mm thick samples ⁴)	%	3,5	4,0	2,5	3,8	2,0



1) Class A predominantly longitudinal veneers. Class B veneers intersected at 90°.

2) ⊥ perpendicular to the layers. || in the direction of the layers.

3) Resin pressed wood can swell by the action of liquids.

4) Thicker test specimens can result in lower percentage of water absorption, thinner samples in a higher percentage.

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- Special characteristics:** Low specific weight of approximately 1.37 g/cm³, High elasticity, compressive strength, flexural modulus of elasticity, good coefficient of sliding friction, Self-lubricating which means outstanding emergency running characteristics, Low expansion coefficient, Temperature stability from -200°C to +100°C, Resistant to oils and many commercially available acids and alkalis, Noise-reducing, Electrostatically dissipative, Unproblematic disposal, Easy handling of prefabricated components
- Product Design:** **8231:** 1.8 mm thick beech veneers are compressed under high pressure to approx. 1,80 mm.
8221: 1.0 mm thick beech veneers are compressed under high pressure to approx. 0.65 mm.
Due to the finely layered structure the share of artificial resin and the sheet become more homogeneous.
- Thickness:** 4-100 mm, thicker sheets glued together from partial thicknesses
- Tolerances:** Format tolerances (length, width) in accordance with DIN EN 2768-1 c
Thickness tolerance: in accordance with EN 315 but at least +/- 0.5 mm
- Surfaces:** Irregular dark colouring without optical demands.
- Quality assurance:** Quality and technical data in accordance with DIN 7707. Formaldehyde emission class E05 (complies with the regulations of the Chemicals Ordinance).
- Delays:** Freedom from distortion is not an assured feature. For more demanding freedom of distortion requirements, thicker sheets can be made from partial thicknesses to minimise possible warping.
- Storage:** Under certain conditions, our special beech-based Delignit® materials can react to climatic influences (such as humidity and temperature fluctuations) with changes in shape (swelling up, shrinking and distortion). In particular, it cannot be expected that our materials are free of distortion; we therefore cannot guarantee this. We must therefore expressly exclude any complaint on the basis of distortion. Please observe our processing and handling instructions for our products at www.delignit.com