

## PRODUCT DATA SHEET

### Festholz<sup>®</sup>

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)	8221	
Veneer layers per cm finished thickness approx.		25
Resin-pressed wood DIN 7707		20227
Class (grain direction of veneers <sup>1</sup> )		B
Bulk density DIN 53479 approx. (g/cm <sup>3</sup> )		1,37
Bending strength DIN 534522 (N/mm <sup>2</sup> )	⊥ 	190 160
Impact strength DIN 53453 (kJ/m <sup>2</sup> )	⊥ 	30 20
Notched impact strength DIN 53453 (kJ/m <sup>2</sup> )		10
Tensile strength DIN 53455 (kJ/mm <sup>2</sup> )		120
Compressive strength DIN 53454 (N/mm <sup>2</sup> )	⊥ 	260 150
Ball indentation hardness DIN 53456 (N/mm <sup>2</sup> )	⊥	200
Splitting power DIN 53463 (N)		4600
Bending modulus of elasticity DIN 53457 (N/mm <sup>2</sup> )	⊥ 	16000 14000
Water absorption <sup>3)</sup> DIN 53495 of 10 mm thick samples <sup>4)</sup>	%	2,5



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/cm<sup>3</sup>, 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:** **8221:** 0.65 mm thick beech veneers are compressed under high pressure to approx. 0.35 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:** + / - 1 mm in Length and Width      - 0 / + 0,6 mm in thickness
- 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 chemical prohibition regulation)
- 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](http://www.delignit.com)