

Densified Wood is manufactured to comply with DIN 7707 and consists of selected rotary cut beech veneers coated or impregnated with a synthetic resin. Following the application of the resin the veneers are assembled into a pack and pressed under high pressure and temperature to form a unique laminate material with excellent technical properties.

Densified Wood can be sawn, planed, milled, drilled, sanded, and turned on a lathe. The material can also be bonded together to form large blocks, polished, varnished and even tapped to accept machined threads

Densified Wood has a unique combination of properties – The main features are:

- Low weight
- High compressive strength
- High modulus of elasticity in flexure
- Temperature stability
- Low coefficient of linear expansion
- Anti-static
- Low thermal conductivity
- High wear resistance
- Corrosion and chemical resistant
- Resistant to petrol, oil, and lubricants
- Low coefficient of friction
- Good electrical insulation
- Water resistant

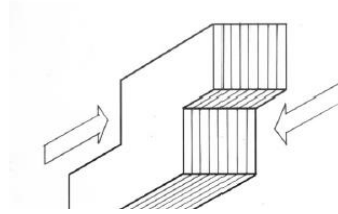
<b>Colour</b>	<b>Natural</b>
<b>Sheet Size</b>	2000 X 1000 MM
<b>Thickness</b>	6 to 50MM

Properties	Test Method	Unit	B340
			DIN 7707 KP 20226
Density	DIN 53420	g/cm <sup>3</sup>	1.4
Flexural Strength (Perpendicular and Parallel)	Din 53452	N/mm <sup>2</sup>	170
Tensile Strength	DIN 53455	N/mm <sup>2</sup>	140
Compressive Strength (Perpendicular)	DIN 53454	N/mm <sup>2</sup>	290
Modulus of Elasticity In Flexure	DIN 53452	N/mm <sup>2</sup>	16,000
Water Absorption	DIN 53495	%	4
Coefficient of Thermal Expansion	-	K <sup>-1</sup>	8 X 10 <sup>-6</sup>
Thermal Conductivity	-	W/mK	0.24
Operating Temperature Range	-	°C	-196 to 100
Material Construction	-	-	Cross Ply

## Shear Strength:

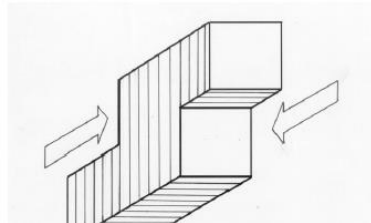
**B 340**

### Edgewise



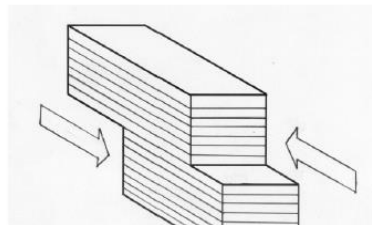
74,0 N/mm<sup>2</sup>

### Flatwise (Perpendicular)



73,0 N/mm<sup>2</sup>

### Interlaminar



19,0 N/mm<sup>2</sup>

Manufactured and tested to DIN 7707.

When tested at low temperatures the mechanical properties either remain constant or slightly improve

Probably the most important feature of the materials is that the maximum mechanical strength can be developed in any required direction to suit specific applications. The materials have a unique combination of properties – low thermal conductivity, high strength/ weight ratio, resistance to wear and fatigue – and they can be machined to an accuracy approaching that achieved with metals. They have been successfully used as thermal insulation for many years both land and at sea.