

Rigid Insulation

Densified Wood – Impregnated & Unimpregnated

GENERAL

Densified Wood is manufactured from Beech wood veneers laid with cross ply laminations and bonded with thermosetting synthetic resin under heat and pressure.

The resultant product displays excellent mechanical and electrical properties together with low friction and both low and high temperature resistance.

UNIMPREGNATED

Unimpregnated Densified Wood is the basic densified wood, without an additional treatment of varnish

IMPREGNATED

The natural (Unimpregnated) Densified Wood undergoes a further impregnation of varnish that thoroughly impregnates the wood fibres.

APPLICATIONS

Densified wood grades are used in many applications, including oil filled transformers. The uses within transformers include top & bottom platforms, compression rings, clamping beams, spacers and supports.

DIMENSIONS	
Colour/Appearance	Natural wood grain
Thickness Range	6mm - 120mm
Standard sheet size	2000 x 1000mm 2440 x 1200mm Other sizes on request

TYPICAL PROPERTIES	
Density	1.1 – 1.25g/cm ³
Flexural Strength	130N/mm ²
Elasticity Modulus	14,000N/mm ²
Compressive Strength	230N/mm ²
Tensile Strength	90N/mm ²
Water Absorption	less than 2%
Continuous Operating Temp	105°C
Dielectric Strength at 20°C	50KV/25mm
Dielectric Strength at 90°C	35KV/25mm
Insulation Resistance	10 ¹⁰ OHMS/mm