



Indian Standard IS 1658: Fibre Hardboards

This standard outlines the specifications for fibre hardboards, which are engineered wood products made from wood fibers that are bonded together using heat, pressure, and a binding resin. Fibre hardboards are used in various applications such as furniture, construction, and decorative items.

IS 1658 applies to hardboards with a nominal thickness of 1.5 mm or greater produced from wood fibers of lignocellulosic material, which are bonded with resin under heat and pressure. Standard specifies requirements for the Fibre Hardboards, including its manufacturing, quality, and packaging. This standard aims to ensure workability, finish, dimensions which are necessary in order to have effective intended use. The standard do take care its strength characteristics through requirements like density, tensile strength Modulus of rupture and modulus of elasticity. In addition to above durability and environmental changes are well taken care through the requirements of swelling, moisture content and water absorption.

Applications:

Fibre hardboards conforming to IS 1658 are widely used in various applications such as:

- Furniture manufacturing (for cabinet doors, panels, etc.)
- Wall and ceiling paneling
- Flooring systems
- Partitions and signage
- Packaging material (for lightweight, strong applications)

Thus at last the standard ensures that the product consist of suitable strength and characteristics to have a durable life under different environmental conditions and is fit for its intended use. Standard contributes to the overall quality and reliability of fibre hardboards.