

# IS 3513 (Part 1):1989 Resin treated compressed wood laminates (compregs) - Specification Part 1 For electrical purposes

## Overview

Indian Standard, IS 3513 (Part 1) outlines the specifications for resin-treated compressed wood laminates (compregs) intended for electrical applications. These laminates are crafted from thin wood veneers impregnated with thermosetting phenol or cresol formaldehyde resins, resulting in a material with enhanced mechanical properties, moisture resistance, and electrical insulation capabilities.

The standard specifies six types of compregs (Type I to VI) suitable for high voltage and low voltage electrical insulation applications, each type of compregs is defined by the grain orientation of the constituent veneers.

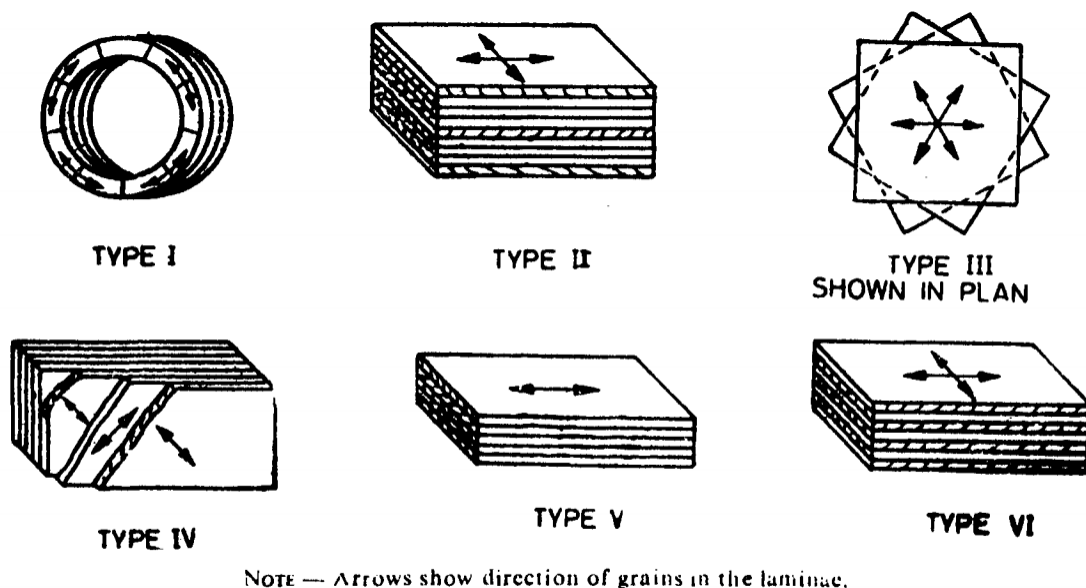


FIG. 1 TYPES OF COMPREG SHOWING ARRANGEMENT OF LAMINAL

## Material requirements

The Indian standard details material requirements for timber, synthetic resins, solvents, and varnishes, as well as manufacturing processes involving impregnation, drying, assembly, and pressing.

## Electrical and Mechanical Properties

The standard specifies dimensions and tolerances for boards and rods, along with physical, electrical, and mechanical properties. It also covers aspects like workmanship, finish, sampling, testing, marking, packing, and delivery.