



# COMPREG SLATS

THE WESTERN INDIA PLYWOODS LIMITED

Technical Literature

Annexure No. IX.

## WIP's RESIN-IMPREGNATED AND COMPRESSED WOOD BASED LAMINATE. ( MANUFACTURED FROM SELECTED LAMINATIONS OBTAINED FROM QUALITY TIMBER SPECIES )

The veneers are carefully seasoned to a moisture content of less than 10 % and treated with specially formulated Phenolic Resin. The Phenolic Resin treated veneers are passed through evaporation chambers where volatiles are evaporated and resin forming chemicals are polymerised to the required stage; then the partially polymerised veneers are assembled in cross grain construction and pressed under high pressure and temperature in a hydraulic press. The pressed boards are then stabilised by cooling under pressure.

### Finish of the product :

The Compreg Slats so produced is a uniform homogenous material free from surface defects, checks, splits, discoloration, blisters, overlaps, gaps, etc. Both surfaces have a uniform Phenolic Resin coating with excellent resistance against abrasive action. In general, different sizes as per customer requirements, upto a maximum size of 8' x 4' in thicknesses of 8 mm and 10 mm are produced, Compreg Slats can be easily drilled, screwed, rivetted, bolted and sawn. While per-

forming the above operations, they will not chip, develop cracks or splits etc. It is recommended that while performing the above operations, one should use high speed tools (preferably tungsten carbide tipped) as the material is highly compressed. Moreover, laminations are treated with Phenolic Resin which adds to the strength of the finished product.

### Advantages

The thickness of this material can be virtually half that of Plywoods as the strength of this material is approximately 2 1/2 times that of Plywood.

● Lesser thickness means lesser stor-

age space.

● Compreg Slats are manufactured with Phenolic Resin which considerably reduces the moisture absorption characteristics, thus ensuring the surface finish even on long term usage.

● Compreg Slats is a unique material having the strength of metals, resilience of natural timber, and the surface finish, stability and hardness of modern plastics. This allows the basic material to give much longer service under harsh working conditions.

● The Indian Railways is the biggest consumer of WIP's Compreg Slats. It is used in railcoaches for luggage racks and seating benches.

### Physical Characteristics

1) Specific Gravity	:	1.10 - 1.25
2) Percentage Water absorption on immersion in water at 20 C for 24 hours	:	5 % - maximum
3) Cross Breaking strength		
Along the grain	:	1200 Kg/ Cm <sup>2</sup> - Minimum
Across the grain	:	600 Kg / Cm <sup>2</sup> -Minimum
4) Surface impact strength	:	6 cm. dia. steel ball of 1 Kg. weight when dropped from a height of 4 ft. on Slats will not result in any surface damage or cracking.
5) Impact strength		
Perpendicular to grain and top surface	:	0.30 KGM - Minimum
6) Resistance to boiling water	:	When a sample of Compreg Slat is subjected to boiling water test at 100C for 8 hours, it will not show any sign to disintegration or delamination.