



Shivoye Namah Manufacturing Co. Pvt. Ltd.



WOOD WITHOUT TREES



About Us

SNMC wood without trees, products are made from Natural Fiber (derived from agricultural waste e.g. rice husk, rice straw, wheat straw, etc.) and recycled plastics, without using wood in any form so that we can correctly say that we are producing wood substitutes without cutting any trees.

Our manufacturing process adopts advanced Indigenous technology and enjoys Back-up support from Central Building Research Institute, Roorkee. (INDIA). It is truly a reward for many years of hard work and an ideal example of success that can be achieved when Research Institute and Industry cooperate with each other.

Our company products aim to maintain the Earth's ecological balance, which is otherwise disturbed due to endless cutting of trees for commercial interests. In our formulation, we consume agricultural residues, which creates environmental hazards as they pollute the air in absence of their proper disposal techniques

At the same time we use recycled plastic granules there by reducing the CO₂ content and subsequently reducing global warming. Moreover, all products are 100% recyclable and can be used over various cycles.

About SNMC wwt Products

Natural fibre/ filler filled thermoplastic is a newly developed engineering material used as a replacement of natural wood. This is motivated by advantages of its adequate strength/ stiffness characteristics, low water absorption, superior dimensional stability, high screw/ nail holding power and ease of recycling. The typical applications includes: door and window profiles, frames, decking, fencing, lumber, furniture and other industrial applications.

Histologically, wood fibre/ flour has been the traditional source of wood plastic composites. Because of its local shortage, environmental issues and Government policies, researches are focusing on finding wood fibre alternatives in the melt blend processing. As a result, initiatives taken on use of non-woody materials have resulted in the development of plastic composites.

Lignocellulosic plastic granules prepared under developed know-how can be processed for immediate use in extrusion, injection and other kind of plastic moldings. The profiles can even be specifically developed & produced for the customer. These profiles can be easily compared with the structural natural wood.



Salient features

1. Environment friendly due to usage of agricultural waste and recycled plastics.
2. Resistant to Rot/ Termite due to addition of biocides and complete encapsulation of natural fibers by the plastic
3. Carpenter friendly: Can be nailed, screwed , or sawned by conventional wood working tools.
4. Resistant to fading and weather induced UV degradation due to addition of suitable additives from expert companies in the world.
5. Superior properties as compared to natural wood in terms of low moisture absorption, better screw with holding and better load bearing
6. Can be perfectly molded/ extruded in any desired profile design, without any limitation of length
7. Requires no painting or polishing. Profiles are available with Sanding and Embossing finish on the surface for good looks and high aesthetic value.

Usage and Application

1. Door & Window frame
2. Decking/ Fencing, Walkways etc.
3. Outdoor furniture, Park & Public Place Sitting Bench
4. Structural /Semi Structural Installations
5. Pallets for Shipping and Storage
6. Flower Pots/ Dustbins etc.

Framing Material



Typical Properties

Properties	Natural Wood	WPC
Density (g/cm ³)	0.404 - 1.116	1.2
Moisture content (%)	8 - 20	0.53
Water absorption (%)	-	< 1
Modulus of rupture (Mpa)*	12 - 26	30.66
Modulus of elasticity (Gpa)*	9 - 17	10.5
Compressive strength (Mpa)*		
Parallel to grain	3.3 - 11	29.6
Perpendicular to grain	8 - 18	52.5
Screw withdrawal power (N)* (min)		
Parallel to grain	> 2300	2327
Perpendicular to grain	> 2700	3273
Nail holding power (N)* x 10 ²	2 - 10	2.7 - 4.3
Hardness (Rockwell A)	-	49
Flammability (Rate of burning) ASTM D 635 (mm/min)		25 - 30

Colors Available

1. WWT (A) Teak



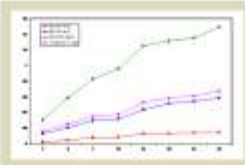
2. WWT (B) Brown



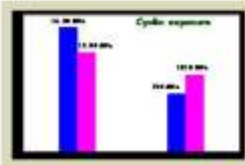
Standardization



Scanning Electron Microscopic Image



Moisture Gain



Cyclic Exposure



Screw Holding Power



Termite Resistance

Material Testing



Thermal Testing



Compression



Recipe Processing

Storage, Handling and Installation

1. Always store Horizontally
2. Always level the ground accurately before Installation
3. During Installation, Gaps should be allowed to take care of slight expansion and contraction in the profiles
4. Do not install near source of fire
5. Do not use Pointed and sharp objects as they may damage the Installation

***Disclaimer

The installation pictures shown here are only indication of the possible usage of products. These may or may not be showing our own products





SNMC

Shivoye Namah Manufacturing Co. Pvt. Ltd.

New Delhi, Malanpur (M.P.)
(India) +91-11-9350006076

Website : www.wood-without-trees.in
Email : shamil_k4@wood-without-trees.in
shamil_k4@yahoo.com

Represented By

