

CATEGORY

BUILDING SYSTEMS



PRODUCT / TECHNOLOGY



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Technology Detail

BAMBOO WOOD PRODUCTS

Alternate to hard wood based products used in building applications.



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Video

CONTACT DETAILS

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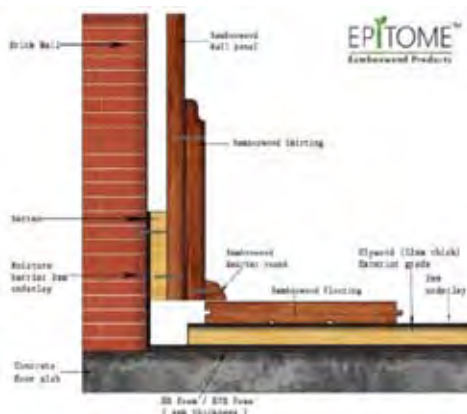


BRIEF

M/s Mutha Industries Pvt. Ltd. manufacture bamboowood products under the brand name of EPITOME. The various EPITOME - Bamboo wood products are flooring panels, decking panels, wall panels, ceiling, claddings, furniture, poles, doors & windows including bamboo wood structures.

These Bamboowood products are made from Strand woven bamboo which is a eco-friendly product made from plantation timber bamboo. It is a conversion of bamboo to wood. Before using bamboo for manufacturing durable products it needs to be treated chemically. Bamboo is first boiled/or burned under high pressure steam to remove starch and sugar content to make it termite resistant. Further, VOC compliant phenolic resin is used as binder. The products such made have excellent engineering properties and better than hard wood since made from naturally occurring plantation timber.

These products are environmentally friendly, natural and stronger than most hardwood in the market. The bamboo wood can also be converted in the form of bamboo lumber which can be used as an alternate to RCC or steel girders. While using for building applications these products are coated with UV/PU/Oil coatings for longer life, better abrasion resistance, durability and resistance to fire, termite and moisture. Normally, flooring, ceiling and wall panels are coated with 9 layers of UV coat while decking panels are coated with oil and other items with water based polyurethane coating.

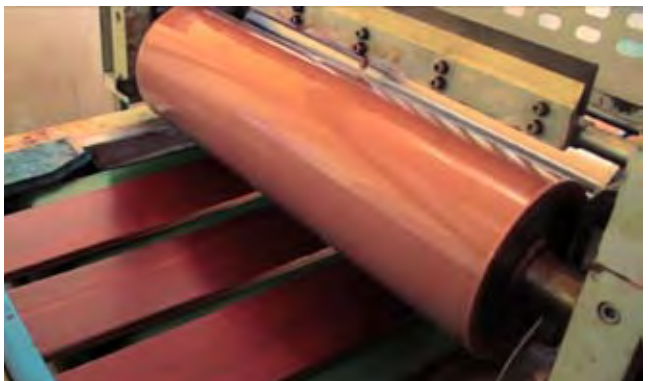


SALIENT FEATURES

- It displays higher tensile strength than many alloys of steel. It has capabilities for higher compressive strength than many mixtures of concrete.
- The high silica in bamboo makes it indigestible to termites.
- Bamboo wood flooring is an eco-friendly product Bamboo is by far the fastest growing natural resource in the world. It grows to maturity in just 4-5 years- in contrast to a tree which take decades to mature.
- Bamboo wood offers the sheen, durability and luxurious finish of hardwood—but without the ecological damage.
- The root system of bamboo continues to grow after harvesting preventing soil erosion and maintaining nutrients
- Bamboo plants release upto 30% more oxygen and absorb more CO2 than hardwood trees

ECONOMIC ASPECTS

- The bamboo based products are economical than hard wood based products and are green products.



SUSTAINABILITY ASPECTS

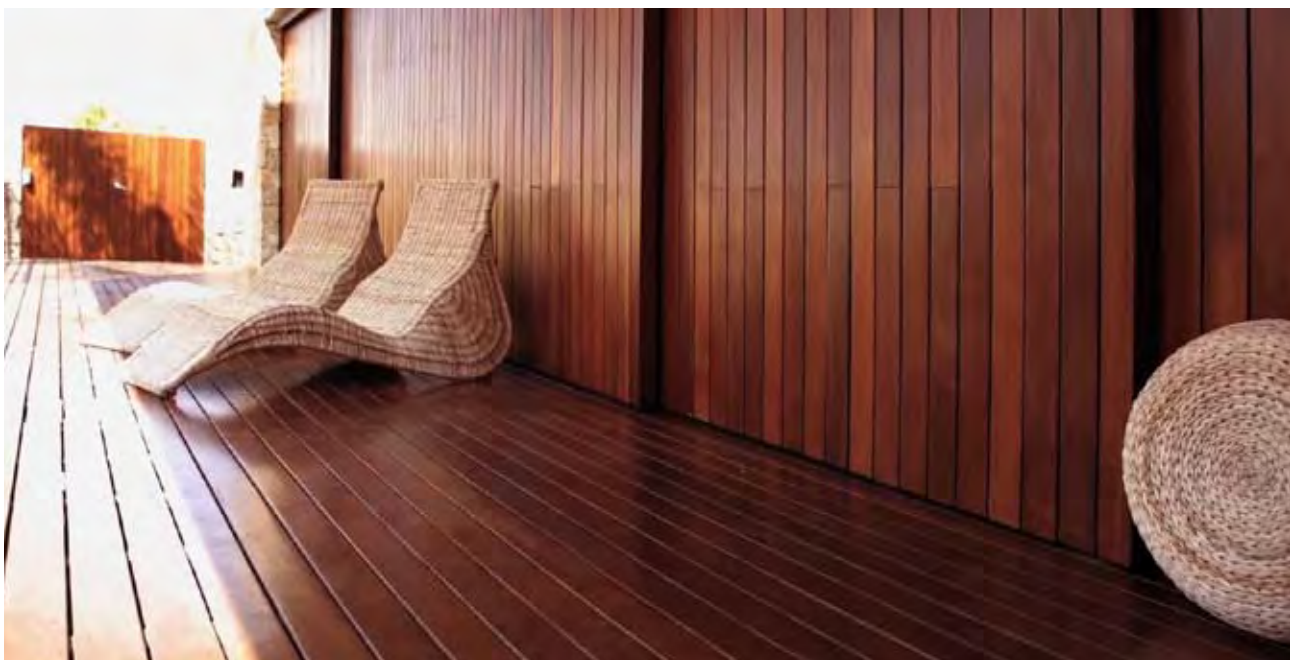
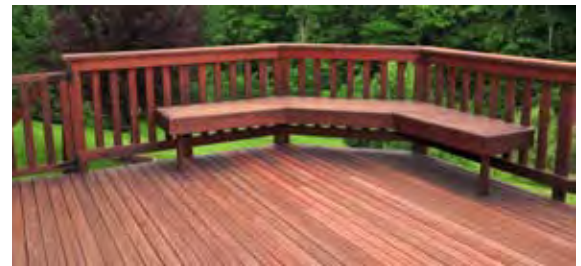
- Based on plantation timber bamboo
- Low green house gas emissions
- Low embodied energy
- Reduced carbon foot prints
- Higher strength to weight ratio
- Being bamboo based helps in CO2 sequestration
- Excellent thermal conductivity and sound insulation
- Bamboo being lighter in weight provides better seismic resistance.
- Based on local material generates local employment.

SUITABILITY AND AVAILABILITY

- Suitable to all climatic zones
- Suitable for interior and exterior use.
- Can be used an alternate to hard wood based products for flooring, roofing, wall cladding, beams and columns, staircases, poles and other applications.

LIMITATIONS, IF ANY:

- Indoor products shall not be used for outdoor use and vice-versa
- There shall be difference in kind of finish for indoor and outdoor flooring.



MARKET LINKAGES

- Products are available Pan India and there are number of agencies manufacturing these products.
- Use of bamboo products is restricted to areas such as heritage buildings, tourist huts, iconic structures and therefore use of bamboo products in housing needs to be enhanced.

MAJOR PROJECTS:

- Samrat Ashoka Convention Center
- Guwahati Airport
- Godrej Bhawan, Mumbai
- Social Forestry Range, Dept. of Forest, Govt. of Tripura
- H.Q., BSF, Tripura
- NIT, Agartala
- PL Raju Construction Ltd., Karnataka
- S T Enterprises, Arunachal Pradesh
- IHHR Hospitality Andhra Pvt. Ltd., Hyderabad
- ONGC Ltd., Agartala
- Asian Construction Company, Mumbai
- Project of World Bank & Govt. of West Bengal, Digha

CERTIFICATION/INDIAN STANDARD/ ENDORSEMENT

- Code ISO 9001:2008 – 14001:2004 – 18001:2007 Certified Company GRIHA
- Certified by BMTPC under PACS.

