

CATEGORY

BUILDING MATERIALS/COMPONENTS



PRODUCT / TECHNOLOGY



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Technology Detail

CEMENT BONDED PARTICLE BOARD (BISON PANEL)

Alternative to conventional wooden boards/panels



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Video

CONTACT DETAILS

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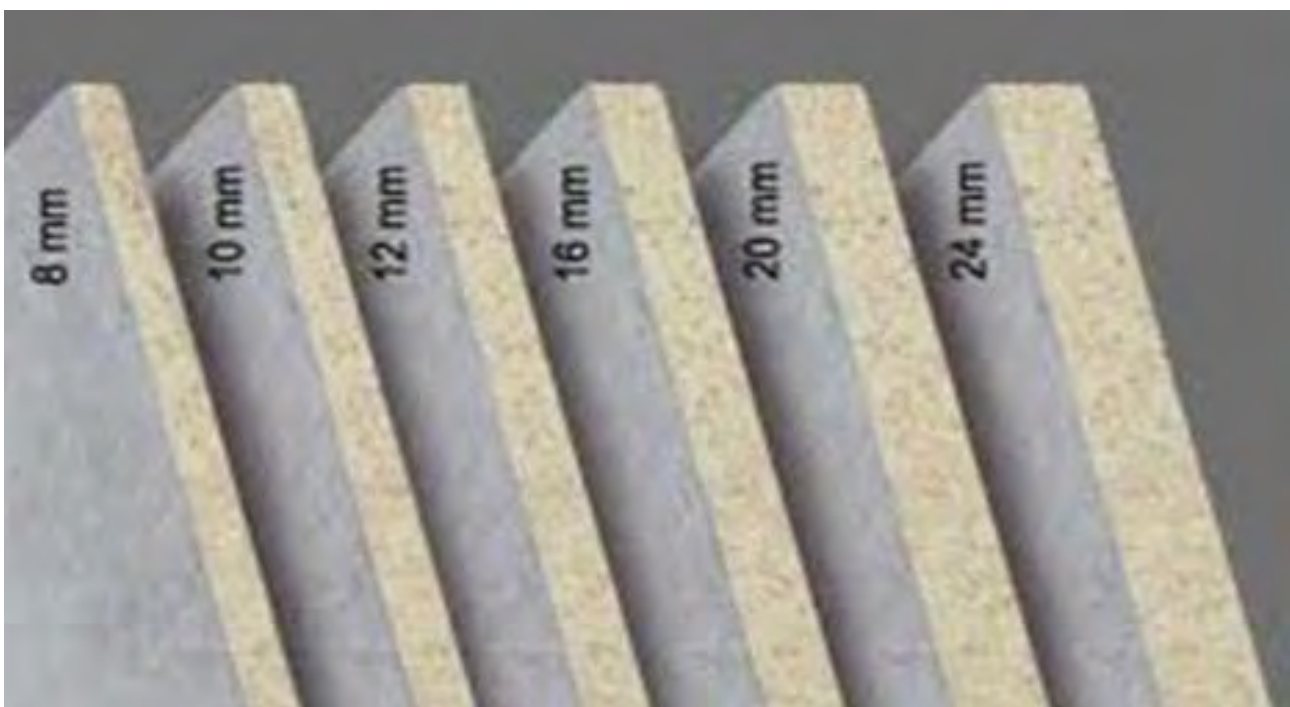
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BRIEF

Bison Panel is a cement bonded particle board made out of about 62% cement & 28% wood and 10% of non-hazardous chemicals and water. The wood used is of fast-growing species like Eucalyptus/ Poplar, waste of wood logs. As the wood particles in the board are mineralized with chemicals during the manufacturing process, the particles become termite & vermin resistant. These panels are available in thickness of 6mm to 40mm used for various applications including internal and external. Due to adoption of a special manufacturing process, the panel acquires the strength & durability of cement, & the easy workability of wood - a combination of qualities absent in other boards. Cement is strong & durable, & is not affected by fire, weather, termites, etc. Wood is light & strong, & is easily workable.



SALIENT FEATURES

- Facilitates speedy construction.
- Texture and laminated, which are termite proof, moisture and fire resistance, durable, the life is more than 25 years.
- The boards are fire, water, weather, termite, vermin resistant, & do not support fungal growth.
- Bison Panel is highly fire resistant.
- With cement constituting 62% of its composition, Bison offers excellent resistance to weather.
- Bison is radiologically fit for use as per BARC (Bhabha Atomic Research Center) test reports.
- Highly sound proof material.
- Moisture resistant.
- No special machinery required for installation.

ECONOMIC ASPECTS

- Bison is affordable and cost saving.
- Construction with Bison is, extremely, time efficient. Resulting in additional savings in labour & transport.
- Bison structures can be dismantled with ease & transported elsewhere.



SUSTAINABILITY ASPECT

- Bison is eco-friendly with IGBC certificate & GRIHA / SVAGRIHA compliance.
- Environment friendly as includes use of agro-industrial wastes, using farm wood or waste of wood logs.

SUITABILITY AND AVAILABILITY

- Bison contains no hazardous material like Asbestos or Formaldehyde. Its process dust is harmless.
- Bison Panel has innumerable applications - it can be used in all places where an ordinary particle board can be used.
- Suitable for all kind of weather -40 to +90 Celsius.
- For applications involving furniture which is not required to be moved often, Bison is both economical & durable.
- Bison Panel confirms to I.S. 14276 / 2016.

LIMITATIONS, IF ANY

- The product does not offer much insulation properties.
- The product is not recyclable.



MARKET LINKAGES

- The product is available across India.

MAJOR PROJECTS

- BMTPC Demonstration Housing Project, (G+3 House), Hyderabad

CERTIFICATION/INDIAN STANDARD/ ENDORSEMENT

- IS: 14276:2016, IS: 1578BIS – 14276:1995
- ISO-9001:2008
- GRIHA CERTIFIED
- IGBC CERTIFIED
- DNV- Management System Certificate
- CE Certified
- FSC certified
- Radioactive Test by Department of Atomic Energy
- Fire test by CBRI
- Thermal Conductivity test by ISOLLOYED
- STC Test by Prasar Bharti

