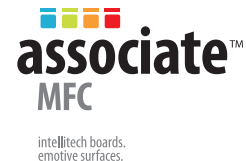


MATERIAL SAFETY DATA SHEET

ASSOCIATE PLAIN PARTICLEBOARDS ASSOCIATE MFCs



Product information

Manufacturer:

ASSOCIATE DÉCOR LIMITED, INDIA

Industry Address: Associate Décor Limited, Plot No. 1, Phase -IV, KIADB Industrial Area, Huralagere, P/O Malur, Kolar District, Malur PIN - 563130, Karnataka, India.

Corporate Office Address :

15, Hill Road, Bandra (W),

Mumbai - 400 050, Maharashtra, India.

Tel.: +91 22 6621 7777 | Fax: +91 22 6621 7799

Email: customercare.adl@associategroup.in

Trade name / Type:

ASSOCIATE Particleboard, ASSOCIATE DÉCOR BOARD, ASSOCIATE PRELAMINATED BOARD

Uses:

Particleboard for use in furniture and construction industries.

Description:

Straw to tan coloured wood exterior particleboard (some grades may have green core or surface with NOLATEX content)

Information on ingredients

Wood: 82 - 84%; Solid Resin: 8 - 10%; Water: 7%; Solid Paraffin Wax: 0.5%; Total Extractable Formaldehyde $\leq 8\text{mg}/100\text{gms}$ of dry board (Emission class 1) and $\geq 8\text{mg}$ - $\leq 30\text{mg}/100\text{gm}$ of dry board (Emission class 2); Green Dye (solids) 0 - 0.01% (moisture resistant grades)

Hazards identification

Harmful by inhalation (dust / formaldehyde). Effects of skin contact are not fully known and may vary.

First aid measures

EYES: Irrigate with water. If discomfort persists seek medical attention.

INHALATION: Remove from exposure. If discomfort persists seek medical attention.

SKIN: Wash off with soap and water.

INGESTION: Wash out mouth with water.

Fire fighting measures

Use water, CO_2 . Dust from cutting and milling operations is an explosive hazard (see additional information). Thermal decomposition produces irritating and toxic gases including CO, Aldehydes and organic acids.

Accidental release measures

Sweep or collect by vacuum the wood dust for recovery or disposal, avoid generation of dusty conditions. Provide good ventilation.

Handling and storage

Care should be taken during handling to protect hands from small splinters of wood. Follow good housekeeping practices; clean up areas where wood dust settles to avoid excessive accumulation of the combustible material. Avoid generation of explosive levels of wood dust in air. Store in a cool, dry, and well ventilated area.

Note: In poorly ventilated areas, particularly under moist and warm conditions, small traces of formaldehyde may be emitted.

Exposure controls

WEL Wood dusts: 8 hour WEL 5 mg/ m

WEL Formaldehyde - 8 hour WEL 2 ppm (2.5 mg / m³ STEL 15 minute 2 ppm (2.5 mg/m³))

Respirator: Approved respirator under dusty conditions recommended.

Ventilation: Local Exhaust: Due to explosive potential of wood dust when suspended in air, precautions should be taken to prevent sparks or other ignition sources in ventilation equipment. Use of total enclosed motors is recommended.

Gloves: Recommended to reduce skin contact, except where moving machinery parts expose fingers to hazards.

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Physical and chemical properties

Colour: Straw to tan (moisture resistant boards may have green surface or core). Density: 560 – 720 kg / m³

Ignition Temperature of Dust: 100°C

Stability and reactivity

Thermal decomposition produces irritating and toxic gases including CO, aldehydes and organic acids. Avoid oxidising agents and drying oils. Keep away from sources of ignition.

Toxicological information

Quantitative data on the toxicity of this product are not available.

Chronic effects of skin contact with wood dust are not fully known and may vary.

Ecological information

Quantitative data on the ecological impact of this product are not available. Adverse effects on the environment cannot be excluded but they could be prevented when handled, stored, and disposed of appropriately.

Disposal conditions

The supplier can recycle the product. Recycling is the preferred route. If recycling is not possible the material should be sent for energy recovery. Landfill is not advised but can be used as a last resort. It is however the user's responsibility to ensure wastes are disposed of in accordance with all valid laws.

Transport information

No transport warning sign is required.

Regulatory Information

Within INDIA the use of this material must be assessed under the Control of Substances Hazardous to Health (COSHH) regulations.

Additional information

Wood dust from cutting operations is a strong to severe explosion hazard if dust "cloud" contacts an ignition

source. Partially burned dust is especially hazardous if dispersed in air. 212°F (100°C) has been suggested as the upper temperature limit for continuous exposure of wood without risk of ignition. Wood dust may still require a lower temperature. White pine flour as "cloud" in air requires 0.04 j minimum energy for ignition and can produce an explosion pressure of 113 psi maximum (0.8 MPa). ASSOCIATE boards are classified as Class 3 Surface Spread of Flame (BS 476)

Guide on health & safety.

The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for consideration, investigation and verification. Buyer assumes all risk of use, storage and handling in compliance with applicable laws and regulations. ASSOCIATE DÉCOR LIMITED makes no warranty of any kind, express or implied, concerning the accuracy or completeness of the information and data herein. ASSOCIATE DÉCOR LIMITED will not be liable for claims relating to any parties use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are accurate, inaccurate, and incomplete or otherwise misleading. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Handling and stacking of boards

Particleboards, whether plain or pre-laminated, require care in handling and stacking to prevent damage, since they are in 'ready to use' condition. Every care is taken at the time of despatch at the factory, by wrapping each board with protective film and paper. Similar care has to be taken while unloading the material, to avoid damage of the edges and corners, which are most vulnerable in any type of particleboards.

MATERIAL SAFETY DATA SHEET



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Stacking

The best method of stacking particleboards are as follows:

- A. Horizontal stacking one over the other using particleboard reapers as shown in the drawing.
- Stack them on flat surface.
 - Keep a thicker board of say 25 mm, underneath and stack the thinner board on it.
 - You can also use battens for the stacks.

B. Vertical stacking

- Vertical stacking should be avoided as far as possible in case of limitation of space. Vertical stacking can be done by keeping vertical supports, and keeping uniform gap between the boards from one end to other end.

Right method of storage of boards

Note:

- The size of wooden batten / support shall be min. 100 mm (width) x 100 (height) mm.
- Minimum nos. of battens at bottom / support shall be five.
- Batten / supports shall be straight and no bend / warpage is allowed.

Max. Nos. of boards on one pallet / wooden batten shall be as follows:

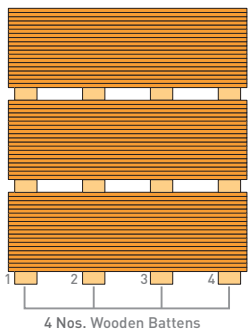
- | | | |
|--------------------------------------|---|---------|
| • 32-40 mm thick board shall be max. | – | 20 Nos. |
| • 25 mm thick board shall be max. | – | 25 Nos. |
| • 18 mm thick board shall be max. | – | 35 Nos. |
| • 15 mm thick board shall be max. | – | 42 Nos. |
| • 12 mm thick board shall be max. | – | 52 Nos. |
| • 09 mm thick board shall be max. | – | 70 Nos. |
| • 08 mm thick board shall be max. | – | 78 Nos. |
| • 06 mm thick board shall be max. | – | 105Nos. |

Note:

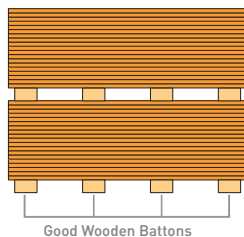
- Preferably 18.0 Mm and below thickness boards shall be kept on steel pallets to avoid the warpage or bend
- There shall be 25.0 Mm packing / scrap board at the bottom for the boards of thickness 12.0 Mm and below.
- The height of stacked / stored pallets shall not exceed – 6 pallets / stacks
- Packing / scrap boards shall be used at bottom and top side to avoid damages
- **The height of stacked / stored pallets shall not exceed – 6 pallets / stacks**



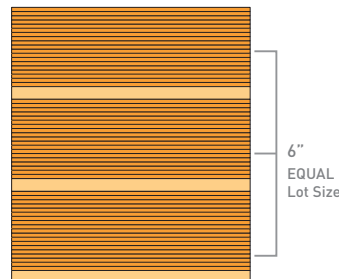
Board Lots



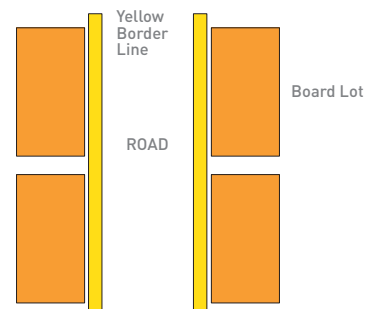
Board Lots



Board Lots



UNIFORM STACKING VIEW FROM TOP



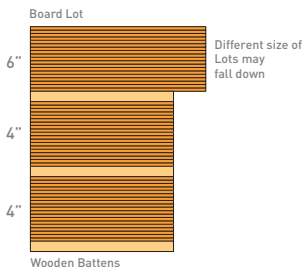
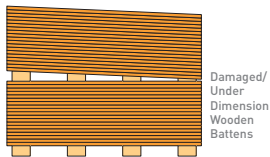
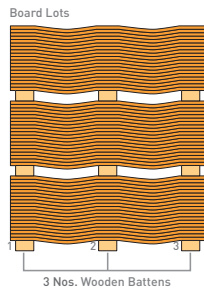
MATERIAL SAFETY DATA SHEET

ASSOCIATE PLAIN PARTICLEBOARDS ASSOCIATE MFCs

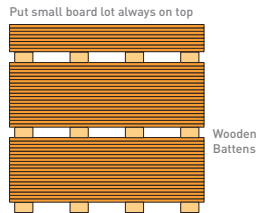
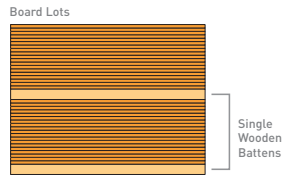
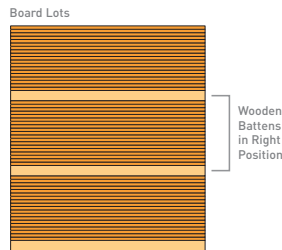


STANDARD STACKING PROCEDURE FOR BOARD STORAGE

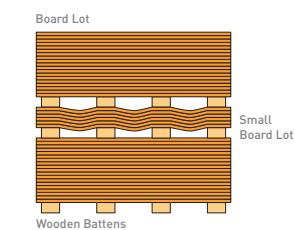
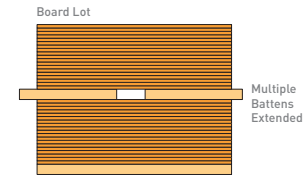
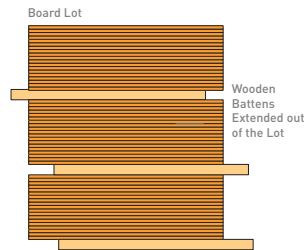
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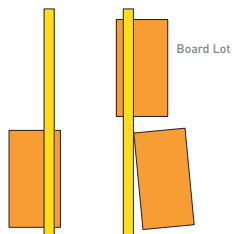
✓ DO'S



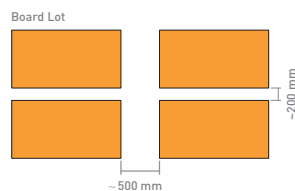
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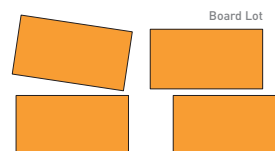
UNEVEN STACKING VIEW FROM TOP



UNIFORM STACKING VIEW FROM TOP



UNEVEN STACKING VIEW FROM TOP



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