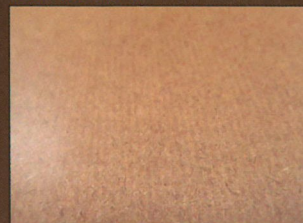


Technical Specification

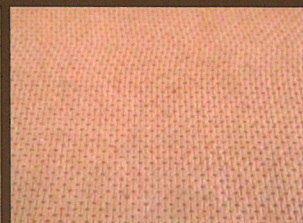
Properties	Unit	Hardboard			Softboard		
Thickness	mm	2.5	3.0	4.0	10.0	12.0	20.0
Density	Kg/m ³	800 - 1200			140 - 300		
Moisture Content	%	8 - 15			8 - 15		
Water Absorption	%	≥ 40	≥ 30	≥ 25	-	-	-
Swelling in Thickness	%	≥ 40	≥ 30	≥ 25	-	-	-
Bending Strength	N/mm ²	≥ 50	≥ 30	≥ 25	-	-	-
Thermal conductivity	W/m.K	-	-	-	0.037 - 0.07		
Thickness Tolerances	mm	±0.3	±0.4	±0.7	±1.2	±2.0	±3.0
Dimensional Tolerance	mm	±2.0(min), ±5.0(max)			±2.0(min), ±5.0(max)		

Hardboard & Softboard Surface

Hardboard

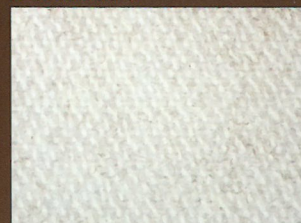


Top : Smooth Gloss Surface



Bottom : Textured Surface

Softboard

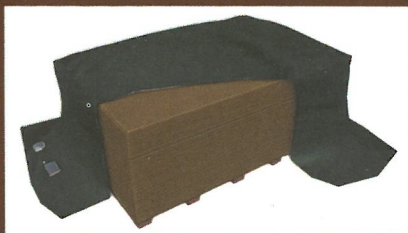


Top : Pre-Primed White Paint



Bottom : Uncoloured

Storage & Handling



Store under shade, dry and leveling area on timber bases.



Handle vertically from both edges with two or more persons to prevent sagging of the board.

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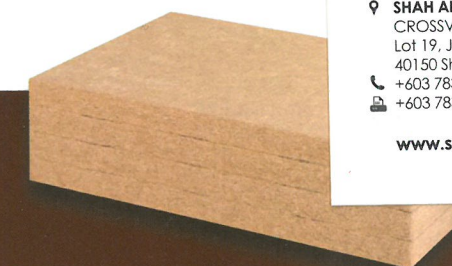
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HARDBOARD

SOFTB



HORSE
BOARD

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Awards 2017
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Hardboard

HARDBOARD is made from wood fiber, which is extracted from chips and pulp. In the production process the pulp is exploded under pressure. Heat and steam is applied, leaving a fine, fluffy brown fiber. These fibers are transformed into mats, which are held together with lignin, naturally occurred from hardwood.

The mats are then pressed between steam-heated metal plates to give grain less sheets with one smooth gloss surface and one textured surface. To reduce warping or improve moisture resistance, moisture is added back in using a humidification process, where appropriate moisture content is added back to the board.

Features:

- Hardboard has many of the desirable esthetics character of wood, without the grain structure and knots found in natural wood products. Hardboard is an **E0 product**, no eyes/skin irritation for its wide range of application.
- Hardboard gives superior flexural strength and stiffness over a wide range of temperatures.
- Hardboard shows better dimensional stability than many plastic materials in typical vehicle compartment conditions.
- Hardboard provides a superb surface for painting, bonding, laminating and coating applications, and dielectric and vacuum-covering operations.
- Used in a sandwich construction with a low-density core, hardboard provides a strong, lightweight option for load bearing applications. Hardboard is a good choice for passenger area sound blocking applications. Combined with a sound absorption material, hardboard creates a first-rate acoustic package.



Environmental Friendly.
100% Wood Fiber.



Asbestos Free



Ease Of Workability



Cost Saving



100% Formaldehyde Free : E0 Product

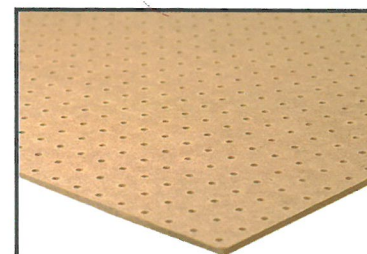
(Tested by **SGS** JIS A 1460:2001)



Size (mm)	1,220 (L) x 2,440 (W)		
Thickness (mm)	2.5	3.0	4.0
Packing (pcs/plt)	470	370	280

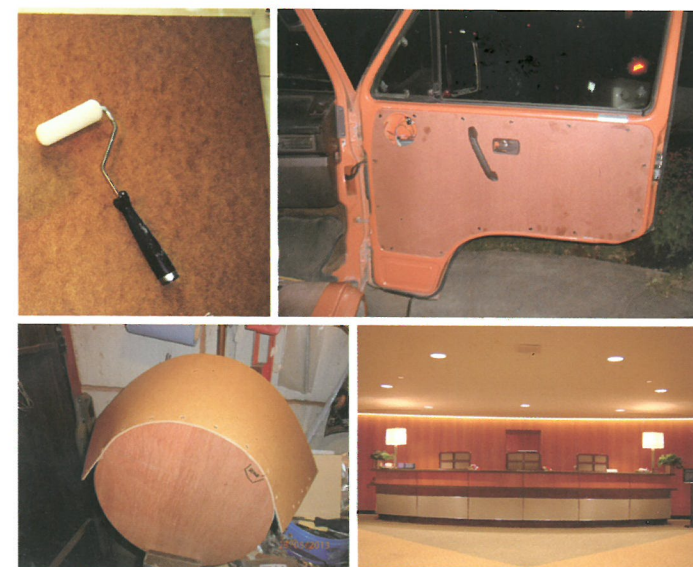
Applications:

The important benefits of high structural strength, good dimensional stability, durability, smooth & glossy surface enable the hardboard ideal use in furniture, door manufacturing, packaging, automotive industry ()



Perforated Hardboard

Size: 3.0 mm x 1,220 mm x 2,440 mm



Softboard

SOFTBOARD is made from cellulose fiber through a wet process. In the production, these fibers are transformed into a low density mat and oven dry in different pressure and temperature for over multiple hours. Thicker mat could take days to accomplish the drying process. Dried mat then sent to humidifying chamber and painted with water based, toxic free paint. Horse Brand Softboard does not contain any glue as the fiber could hold together by our Accelerated Lignin Melting (ALM) process.

Features:

- Acoustic property – Softboard is 'soft' due to its micro porous and air gap, it could absorb the sound by reducing 'bounce of sound' which could reduce echo in the room.
Application example : Wall mounting to eliminate noisy environment in the enclosed restaurant, music and home theater room, High rise building, prevent noise to escape from your entertaining area.
- Insulation – Softboard could protect heat, preventing indoor overheating
Application example : Wall and ceiling lining to prevent external heat/cold which at the same time, save energy
- Packaging – Softboard usually be lined both internal and external packaging, acting as a force absorption, reduces vibration and shock load prevention.
Application example : Prevent damage during transporting material. Such as fruits, glass, high precision machines and many more.



Environmental Friendly.
100% Wood Fiber.



Asbestos Free



Ease Of Workability



Cost Saving



Sound Insulation



100% Formaldehyde Free : E0 Product

(Tested by **SGS** JIS A 1460:2001)



Size (mm)	1,220 (L) x 2,440 (W)		
Thickness (mm)	10.0	12.0	20.0
Packing (pcs/plt)	140	120	70

- Evaporator – Slow diffusion of oil based substances can be soaked to tiny piece of Softboard.
Application example : Slow evaporator/diffusion aroma oil , mosquito and insecticide.
- Underlay – A natural alternative to foam based underlay prior to floor installation
Application example : Floor underlay, leveling floor unevenness.
- Energy saving – Softboard is used in building shell application for roof, wall and floors.
Application example : End users realize substantial savings on building cost and improved performance when compared with conventional timber frame or rendered masonry construction.



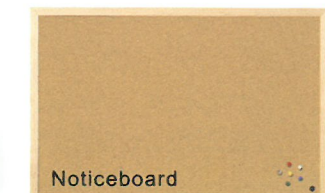
Cake Board



Floor Lining



Office Partition



Noticeboard