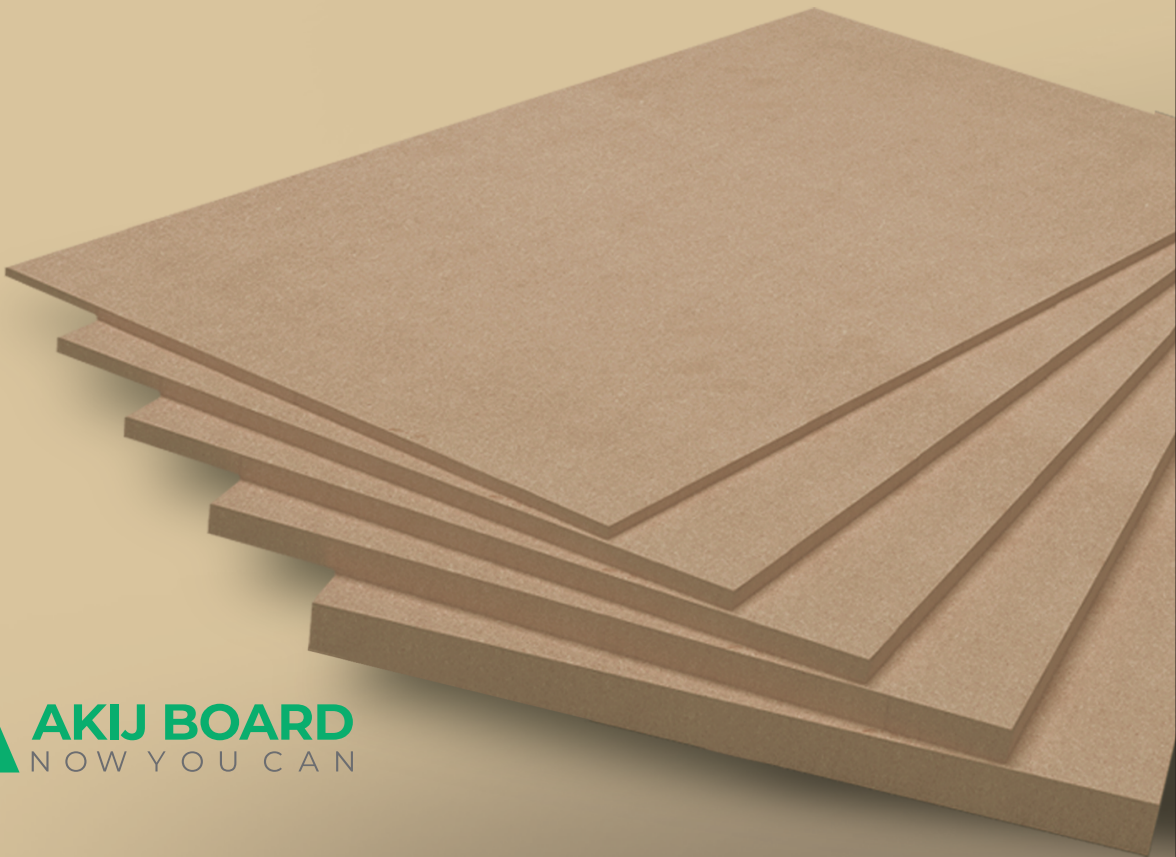


# AKIJ MDF BOARD

MEDIUM DENSITY FIBREBOARD





Akij MDF Board is an “E-2 Grade” engineered wood manufactured and marketed by Akij Particle Board Mills Limited, the leading board company and innovator in Bangladesh. In its manufacturing process, state-of-the-art Siempelkamp technology from Germany is used, and that ensures smooth surface, structural integrity, and durability.

In production, processed core hardwood is used. That's why, Akij MDF performs just like tropical hardwood. Uniform fiber density and smooth surface make Akij MDF suitable for any kind of CNC designing works. Due to its superior performance, Akij MDF's demand is rapidly increasing in furniture and interior sectors.

#### Standard Size

4 feet x 8 feet  
(1220 mm x 2440 mm)

#### Standard Thickness

3, 6, 9, 12, 15, 18, and 25 millimeters

#### Customized Thickness

In any thickness, from 3 to 25 millimeters\*

## Surface Variation

-  Plain Board
-  HPL Board
-  Acrylic Board
-  Melamine Board
-  Supermatt Board
-  High Gloss (UV) Board
-  Veneered Board

## Usage Area



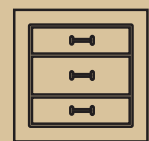
Heavy duty furniture



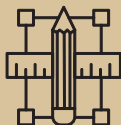
Interior decoration



Cabinet



Shelf



Decorative project



Soundproof material



Trade show or theatre  
set construction

\* Conditions apply

# Advantages

## Fungus Resistant

Akij MDF contains high-quality chemicals which do not allow fungi to grow. It also cannot be damaged by any kind of insects including termites.

## Density and Thickness Accuracy

Advanced technology and fully automatic machines bring accuracy to the fiber density and thickness of Akij MDF. Therefore, furniture or interiors made of Akij MDF are inch-perfect, as well as get more load carrying capacity.

## Moisture Resistant

Akij MDF is manufactured with high quality chemicals in automatic machines, maintaining proper pressure. So, Akij MDF is more moisture resistant than normal MDF, and ensures longevity of the furniture or interior.

## Lacquer Friendly

Akij MDF has a smooth surface that gives an excellent finish with a less amount of lacquer. Hence lacquer consumption is very less in Akij MDF compared to normal MDF.

## CNC Designing Accuracy

The smooth surface and proper density of fiber in Akij MDF ensure accuracy in flawless CNC designing.

## Screw Holding Capacity

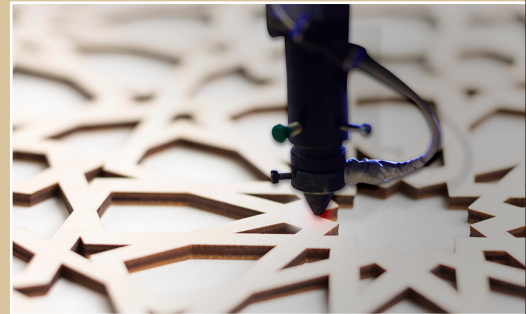
The screw holding capacity of Akij MDF is much higher than that of ordinary MDF due to the use of high quality resin binder and fiber of proper density.

## Dimensional Stability

Akij MDF does not change its dimensions while solid wood changes dimensions due to moisture fluctuations in nature or the ambience.

## Eco-Friendly

Akij MDF is made by processing tree branches or unused parts of trees. For this, there is no need to cut trees, so there is no harm to the environment. Hence it contributes significantly to environmental protection.



## Technical Specification

Properties	Test Method	Unit	Nominal Thickness (mm)					
			3.0-4.0	>4.0-6.0	>6.0-9.0	>9.0-12.0	>12.0-19.0	>19.0-25.0
Board Density	EN 323	kg/m <sup>3</sup>	820-860	810-850	790-830	770-810	740-780	720-760
Board Moisture	EN 322	%	4.0-9.0	4.0-9.0	4.0-9.0	4.0-9.0	4.0-9.0	4.0-9.0
Modulus of Rupture/Bending Strength	EN 310	N/mm <sup>2</sup>	35	35	32	30	28	25
Internal Bond	EN 319	N/mm <sup>2</sup>	0.75	0.75	0.70	0.70	0.65	0.60
Screw Holding Capacity (Face)*	EN 320	N	-	-	-	-	1050	1000
Screw Holding Capacity (Edge)*	EN 320	N	-	-	-	-	850	700
Thickness Swelling**	EN 317	%	35	30	17	15	12	10
Thickness Tolerance (mm)	EN 324-1	mm	± 0.2					
Dimension (Length/Width)	EN 324-1		± 0.2 mm/m, maximum ± 5 mm					
Squareness	EN 324-2	mm/m	2					
Edge Straightness	EN 324-2	mm/m	1.5					
Minor stains, fibre marks, scratch lines			Free on one side					

\*Screw holding capacity is measured only on 15 mm and above thicknesses. \*\*24 hours immersion in 20 (+/-) degrees Celsius water.

### Formaldehyde Emmission

Type of Test	Test Method	Unit	Classification
Perforator Method	EN 120	mg/100g O.D.	E2-≤30.0

## AKIJ PARTICLE BOARD MILLS LIMITED

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