



# HDF BOARD

## ACOUSTIC INFOSHEET

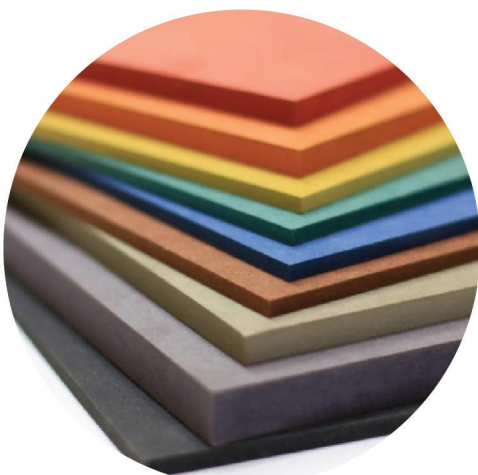
WE MAKE SOUND BETTER



# About

## Acoustic HDF Board

HDF is an engineered wood which has unique colour and texture and is made out of natural wood fiber, sustainably processed with eco-friendly raw materials which enables users to apply it for all application in enclosed interior space. Its unique appearance and consistent colour distribution from the surface all the way through, allows various visual effect in design and extensively diversify any design intent with wood, especially in bold and vivid colours, from walls to ceiling applications whilst providing acoustic solutions to these design creations.



1200mm x 2400mm x 5mm thk

## PRODUCT APPLICATION

- Interior material for commercial or office facilities
- Exhibition booth, stage, sign
- Acoustic panel, display table or display wall panel for shop
- Wall panel, door, moulding ·Furniture, interior decoration
- Toy, educational tool, picture frame



# Technical Data

## HDF Board Specifications

Main Material	Compressed Wood Fiber
Colour	Organic dyes (See colour collection for reference)
Normal Size	1200mm x 2400mm
Thickness	5mm - 16mm
Density	upto 700 - 800 (water absorption)
Environmental Impact	E0 classified, with desicator method, No added formaldehyde



# Technical Data

## HDF Board Properties



Moisture Resistant

Presents a high moisture resistance due to the high content of melamine in its resin. It can be used in kitchens and bathrooms, with the correct finishing. This also allows high dimensional stability compared to normal product making it suitable for various application in humid environment.



Non Toxic

Classified E0 in terms of formaldehyde emission (desiccator method), according to Korean standards. Produced with organic dyes.



Color Throughout

Coloured from the surface and all the way through making the colours even without and maintains the colour even after cutting or going through machines



Flame Retardant

It is flame retardant due to combination of HDF's flame retardant and resin technology. It can be used with other fire retardant surface materials and it is suitable for fire service act and building regulation



Tool Friendly

Due to its excellent density profile and high melamine content of resin used, there is little to no sanding required after going through machines.



Pre-Coated

HDF is pre-coated with a water based finish to increase its resistance.



No Added Formaldehyde

HDF is the most eco-friendly product manufactured using a process whereby resins are free of formaldehyde. NAF is also ideal for all interior application in multiuse facility which is sensitive of indoor air quality.

# Information

## HDF Board Production Process

### NAF

(No Added Formaldehyde) HDF is the most eco-friendly product manufactured using a process whereby no formaldehyde resin is added. The NAF HDF is manufactured based on natural vegetable adhesive from soy. Its ultra low formaldehyde emissions are no greater than those released by a tree in nature. NAF is ideal for all interior application in multiuse facility which is sensitive of indoor air quality, making it a green product that is functional and non-harmful towards the environment.



### MICROPERFORATIONS

Microperforated panels (MPP) are acoustic absorbers that are reclaimable, noncombustible, and environmentally friendly. Some of the most extended approaches to widen the sound absorption bandwidth of perforated panel absorbers are the use of different cavity depths or multi-layer arrangements. The use of micro-perforated partitions was found to further broaden it and hence improve their sound absorption performance



# Colour Collection

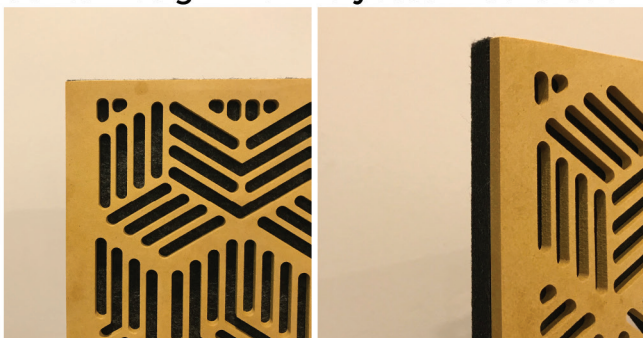
## HDF Board Colour Range and Finishing

	Varnish (1 time)	Coating (1-2 times)	Thickness (mm)				On Request		
			5	8 / 9	12	15	FR	NAF	
Blush			5	8 / 9			18 / 19		
Marmalade			5	8 / 9			18 / 19	v	v
Zest			5	8 / 9			18 / 19		
Forest			5	8 / 9			18 / 19		
Spruce			5	8 / 9			18 / 19		
Russet			5	8 / 9			18 / 19		
Mink			5	8 / 9			18 / 19	v	v
Ash			5	8 / 9			18 / 19	v	v
Midnight			5	8 / 9	12	15	18 / 19	v	v

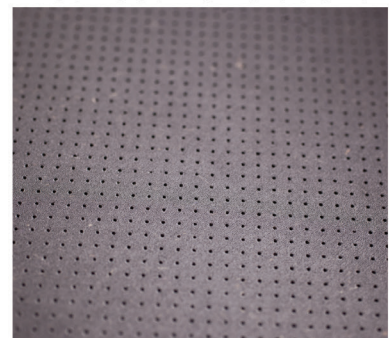
Varnish / Wax / Oil - Finishes available

### Acoustic Performance Option:

- Laser to Design with Polyester Board backing



- Surface Perforations





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**Application**  
HDF Board Micro-perforated on Wall



# Application

HDF Board Laser Cut on Wall



# Application

HDF Board with Laser Cut Design



# Application

HDF Board on Ceiling



# Application

HDF Board with Laser Cut



# Application

HDF Board on Custom Laser Cut



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