
ASMAR WOOD ACADEMY


PANELS

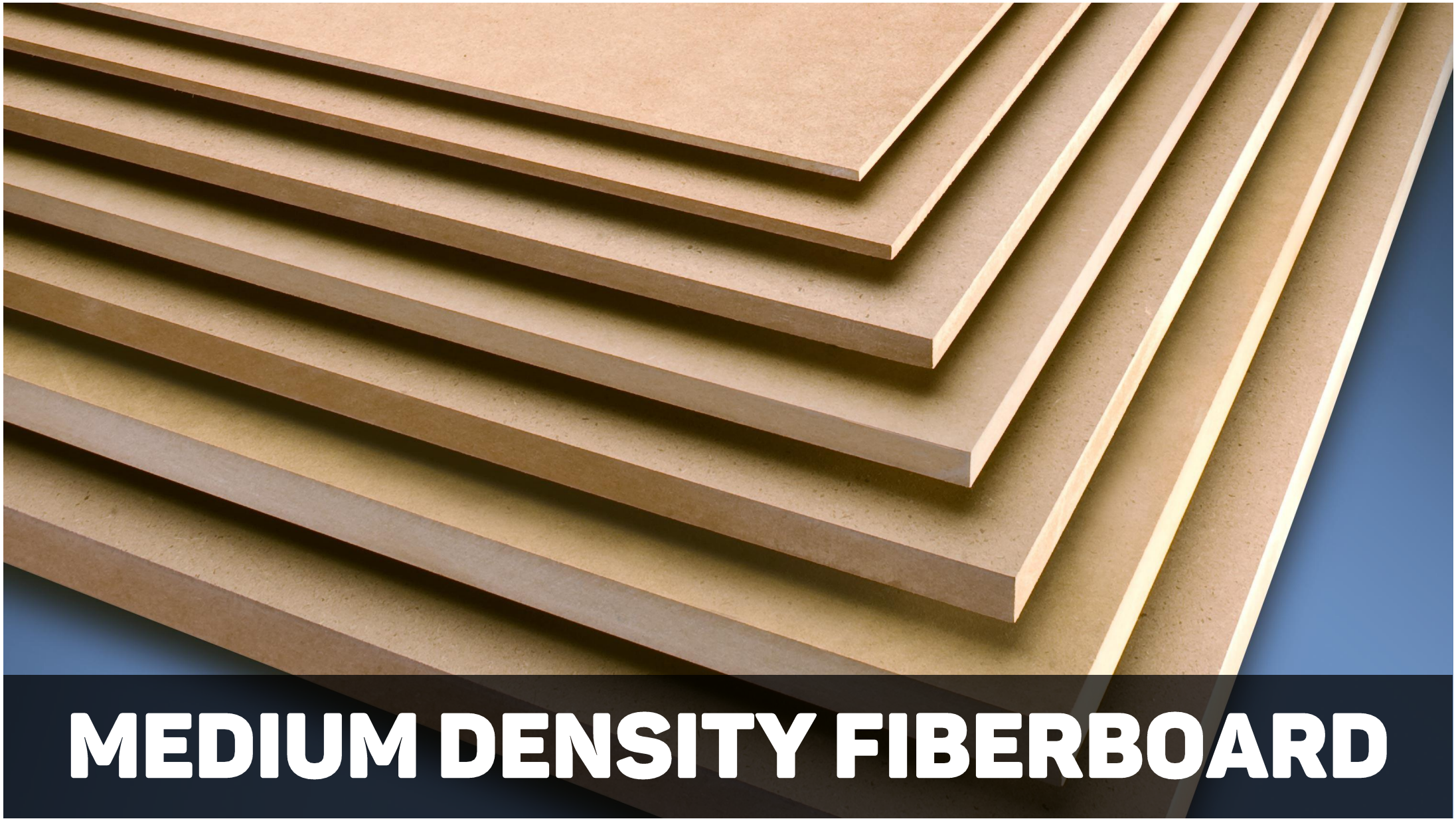
DEFINITION

Formaldehyde Release

E0	E1	E2
< 0.5 mg/L	< 1.5 mg/L	< 5.0 mg/L

Formaldehyde is a color-less pungent gas in solution made by oxidizing methanol.

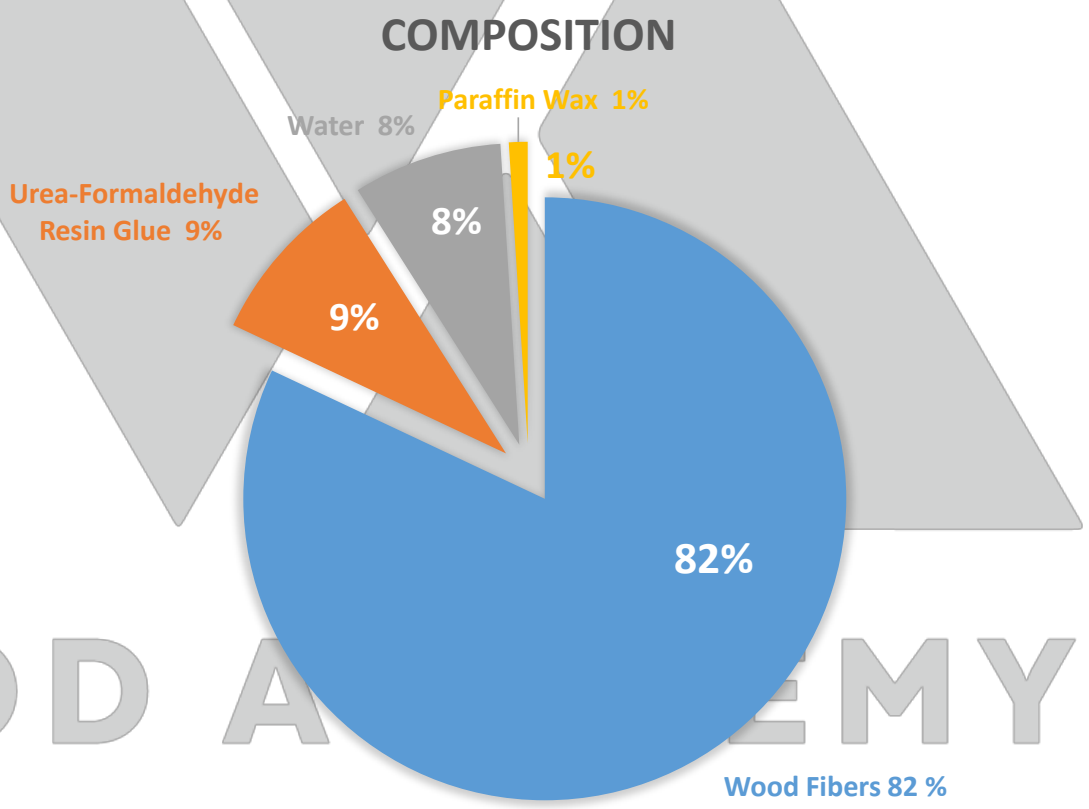
The most common health problems in people exposed to **formaldehyde** include irritation of the eyes, nose, and throat. **Formaldehyde** may cause occupational asthma, but this seems to be rare


MEDIUM DENSITY FIBERBOARD

MDF "MEDIUM DENSITY FIBERBOARD"

How is it made?

MDF is produced by binding wood fibers together with a synthetic resin that hardens under heat and pressure



MDF: Standard

- Cheaper alternative
- Saves trees as it is a recycling process
- Does not have knots or kinks which disturbs the smooth surface.
- Resistant to some insects as some chemicals are used for the processing of MDF.
- Significant paint absorption
- Laminators may easily be attached to it

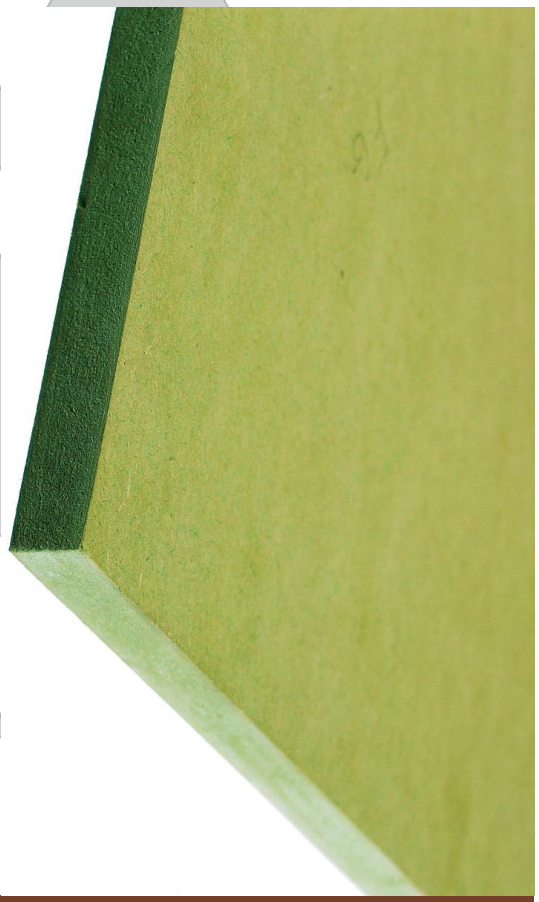
AREA OF USE

- CABINETS
- FURNITURE MAKING
- MOLDING

MDF

MOISTURE RESISTANT

- Used in places with high humidity levels
- Contains moisture repellent resin
- Has less paint absorption
- Shouldn’t be mistaken to be water resistant
- Green color coded for simple identification



AREA OF USE

- KITCHEN
- BATH ROOM
- LAUNDRY ROOM
- BOILER ROOM

MDF

Fire Retardant

- Manufactured in compliance with European standard EN 622-5
- Used particularly in public spaces where stringent fire regulations must be met.
- Does not contribute to fire spread and does not form burning droplets
- Color coded ***RED*** for easy, simple identification

AREA OF USE

- INTERIOR DESIGN
- FURNITURE COMPONENTS
- EXHIBITION DISPLAYS
- PARTITIONS

HDF "HIGH DENSITY FIBERBOARD"

HDF (High Density Fiberboard/Hardboard) is a panel product that is manufactured from compressed wood fibers.

It is a stronger, harder product than MDF with a typical density of up to 900kg/m3.

HDF is predominantly used in laminate flooring products where this density is required, though other uses include door skins and underlayment.

HDF: High Density Fiberboard

Range information

Innovus® Coloured MDF is available in a range of five colours – the warm yellow tones of Curry; the understated red of Berry; an intense Black; the regal blue of Royal; the neutral midtone Grey.

This range of colours makes Innovus® Coloured MDF a versatile design partner that can enhance any space.

Colored MDF

- Surface beauty and quality can be further enhanced by applying varnish or lacquer
- Color does not fade with exposure to light
- High mechanical performance and machinability
- Versatility of a through-dyed product, with attractive, light fast colors
- Formaldehyde-free product which is classified E1


ASMAR WOOD ACADEMY
Colored MDF
BLACK


Colored MDF
ROYAL BLUE
CREATIVE
DIFFERENT
ASMAR WOOD ACADEMY

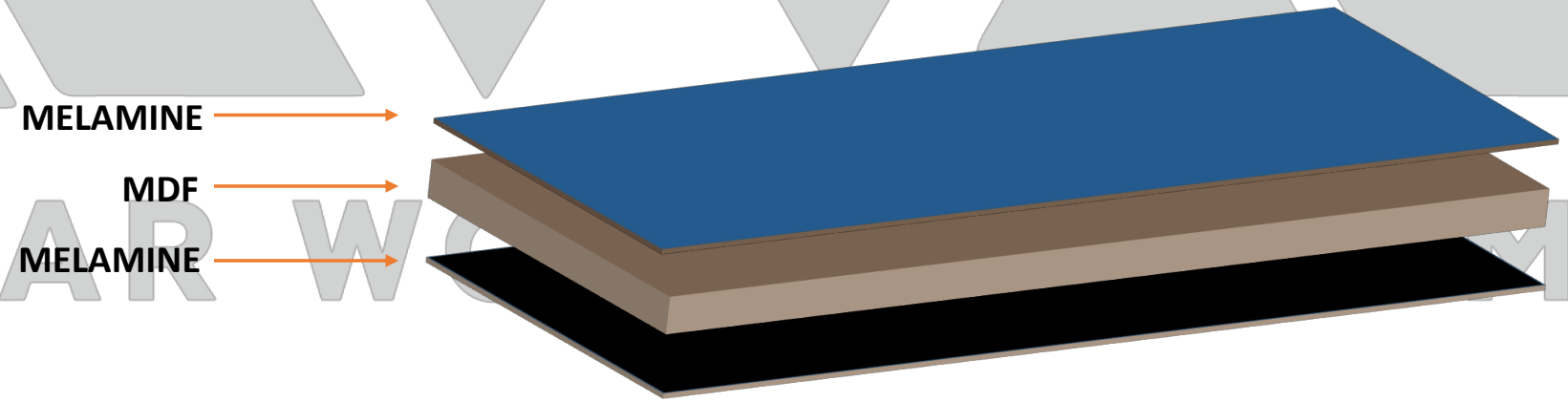
Colored MDF

- Architectural and interior design
- Shop fitting
- Architectural and interior design
- Desktops and counter tops with profiled edges
- Deep routed decorative elements
- Feature wall paneling
- Exhibition design

MF MDF

Melamine Faced MDF is denser than plywood and stronger than chipboard; making melamine boards ideal for renovations and furniture manufacturing.

Melamine faced MDF board have a laminated layer on their surface; giving the boards a unique finish, making them ideal in applications needing an aesthetic solution.



NEW EXTREMELY DURABLE SURFACES

3B® Made in Italy

MAXXIGLOSS

MAXXIMATT

MELAMINE/PET FACED MDF

- EXTREMELY FLAT GLOSSY AND MIRROR LIKE SURFACE
- NO ORANGE PEEL EFFECT
- HIGH SCRATCH RESISTANCE
- HIGH CHEMICAL RESISTANCE AGAINST LIQUIDS, DETERGENTS AND STAINS
- EXTREMELY MATT AND SOFT TOUCH EFFECT

MELAMINE/PET FACED MDF

MAXXIGLOSS

Very high gloss PVC-free plastic foil (over 90 gloss units) with special surface treatment to enhance scratch resistance and high chemical resistance (class 1b DIN 66861).

3B Made in Italy

MELAMINE/PET FACED MDF

MAXXIMATT

PVC-free plastic foil with super matt characteristics (5 gloss units) with special surface treatment to enhance scratch resistance (class 5 Martindale Test) and high chemical resistance (class 1b DIN 66861

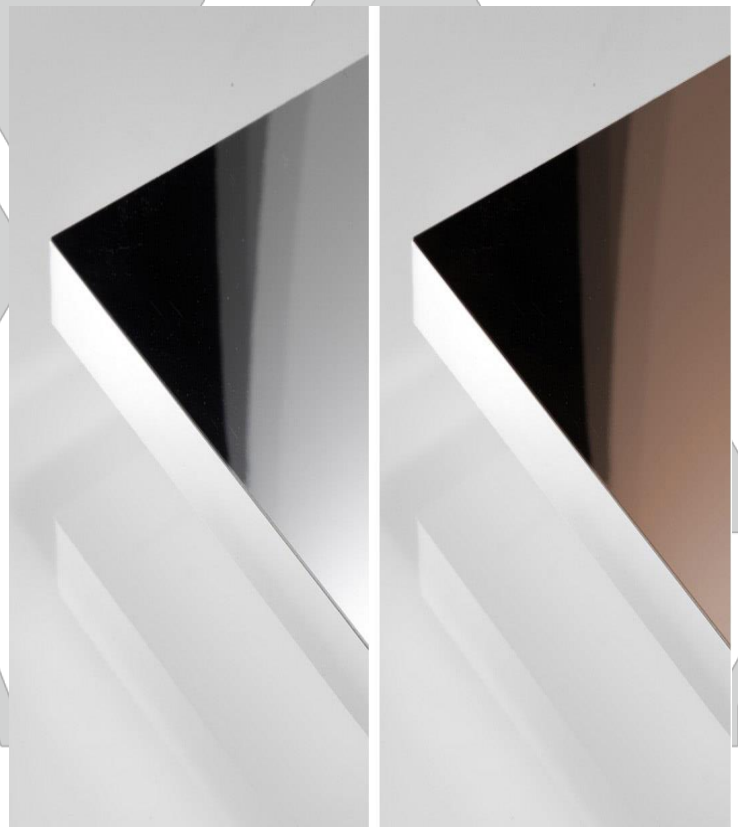
3B® Made in Italy

MIRROR

3B

MELAMINE/PET FACED MDF

- Created by using PET (Poly-Ethylene terephthalate) based foils
- The Mirror products can be easily cut to size and drilled
- Lightweight products
- Coated in a synthetic mirror-like foil eliminating the need for special packaging and making them very cost effective



FLEXIBLE MDF

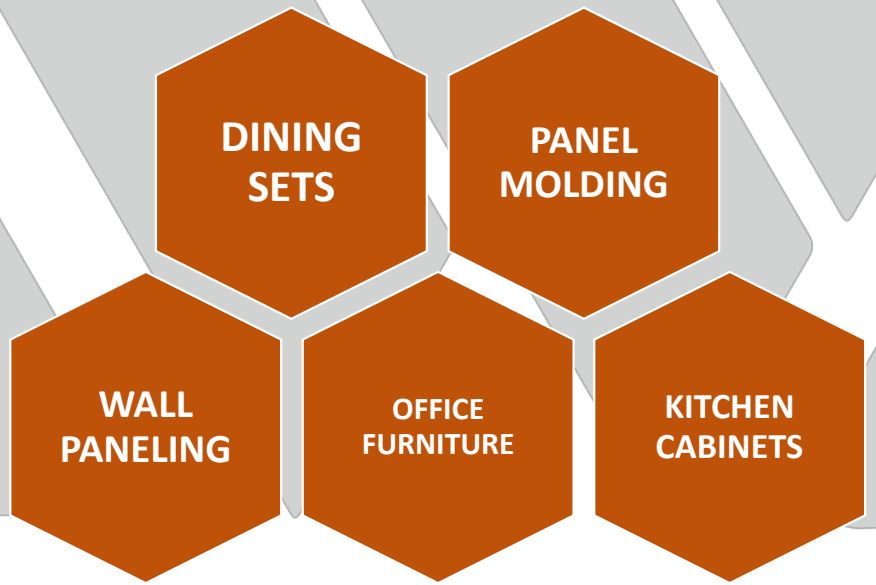
Flexible MDF is processed to allow the panel to bend and curve to whatever shape you'd like.
Just like regular MDF, it can be painted, veneered or laminated to create one-of-a-kind pieces.

VENEER FACED MDF

- Veneered MDF is made up from quality real wood veneers bonded to premium MDF.
- Each piece has a different variation in shading, color, structure, and grain, which characterizes the product.
- Veneered MDF is an ideal alternative to solid wood.

AREA OF USE

Veneer Faced MDF



ASMAR WOOD ACADEMY

THIN MDF

MDF Paper Overlay

- Extra thin, medium density fiberboard
- Laminated layer on its surface.
- Standardized structure
- Very good for profiling and easier and cleaner to process
- Fairly cheap and low cost product
- Able to beautify any space that requires the wall or ceiling to be decorated with many wood grains and designs.


CHIPBOARDS

CHIPBOARD

Chipboards are made of small wood particles glued, pressed, rolled over, and cut to different standard sizes.

M.R. CHIPBOARD

Moisture Resistant Chipboard as Standard Chipboard is produced in the same manner however it is resistant to humidity due to the type of resin used.

As a result, expansion and swelling when exposed to humidity is kept minimal, making it ideal for applications in bathrooms and kitchens.

Sauerland Spanplatte

...Solutions for the better door

Chipboard

- Provides an ideal combination of light weight and stability.
- Weight is reduced by up to 60%.
- Very low thickness swelling, which is unusual for wood based materials.
- Very high impact resistance

MFC "MELAMINE FACED CHIPBOARD"

The melamine-faced chipboard boards are made of raw chipboard sheets whose surfaces are coated with decor paper impregnated with melamine resins, under certain conditions of temperature and pressure.

QUALITY

- Quality of Core (chipboard)
- Quality of melamine paper
- Cleanliness of edges when cutting
- No orange peel effect (evenness)
- Resistance to abrasion
- Resistance to staining by chemical agents

innovus®

Decorative Products

ASMAR WOOD ACADEMY

ASMAR WOOD ACADEMY

VARIO

ASMAR WOOD ACADEMY


BASALT ELM
CLAY ELM
SOIL ELM
innovus essence
SAND ELM
TERRACOTA ELM

HPL VS. MFC

MANUFACTURING PROCESS

High Pressure Laminate is made of phenolic resin impregnated sheets and a melamine resin impregnated decor, which are bonded under the combined effect of heat and high pressure, thus producing a highly durable product.

The Melamine paper is a decorative sheet impregnated with phenolic resin which is pressed at low pressure on a chipboard substrate and has a lower surface resistance than the HPL

HPL VS. MFC

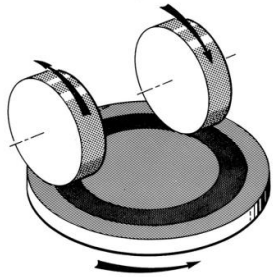
MOISTURE-RESISTANCE / WEIGHT

HPL is dense enough to hold back moisture

Due to the addition of moisture proof agents, we obtain moisture resistant MFC
MFC is lighter than HPL in same size

HPL VS. MFC

SCRATCH RESISTANCE
WEAR AND ABRASION



350 ROUNDS

350 ROUNDS

ENVIRONMENTAL AWARENESS

HPL

HARD TO BE NATURALLY DEGRADED

NOT RECYCLED EASILY

CONTAINS LESS FORMALDEHYDE THAN MFC'S

MFC

NATURALLY DEGRADEDABLE

EASILY RECYCLED

CONTAINS FORMALDEHYDE YET MFC'S WITH HIGHER QUALITY CONTAINS MUCH LESS

PRICE

HPL

$$$$

MFC

$$

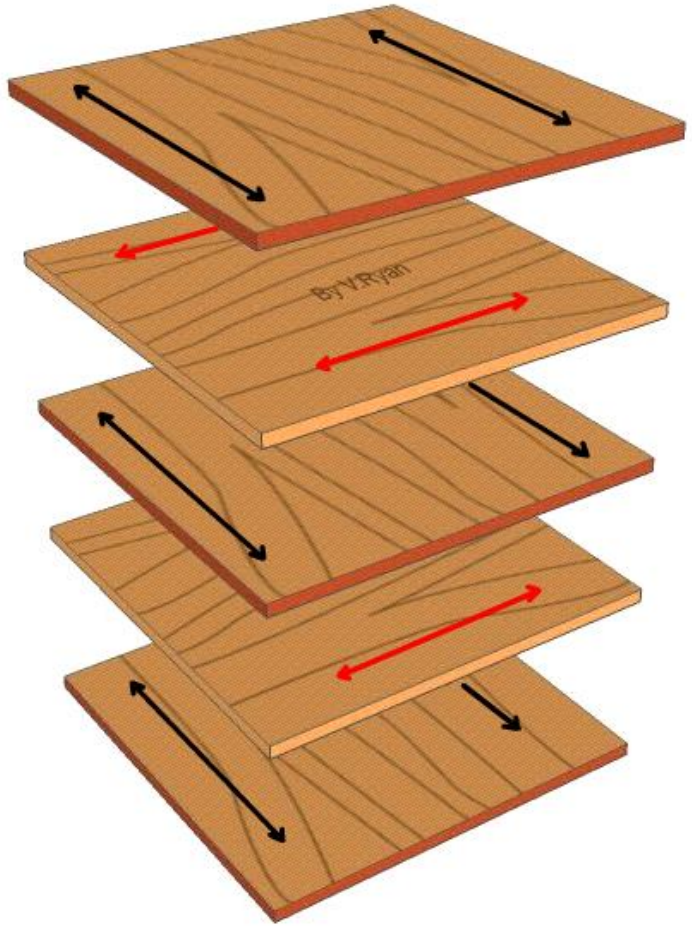
The price of MFC is usually less expensive than HPL simply because it does not cost as much to manufacture.


PLYWOOD

PLYWOOD

This alternation of the grain is called cross-graining and has several important benefits:

- It reduces the tendency of wood to split when nailed in at the edges
- It reduces expansion and shrinkage, providing improved dimensional stability
- It makes the strength of the panel consistent across all directions



OKOUME PLYWOOD

- Very attractive for fine woodworking applications
- Pinkish brown to pale red
- High strength to weight ratio
- Made of 100% Okoume Veneer (Tropical Hardwood)

AREA OF USE

- KITCHEN CABINETS
- FURNITURE MAKING
- PACKAGING

BIRCH PLYWOOD

- Plain surface
- Smooth surface
- High strength to weight ratio
- Made of 100% Birch veneer
- Pale White Color

AREA OF USE

- FURNITURE
- SHELVES
- WARDROBES
- KITCHEN CABINETS
- TABLES


SHUTTERING PLYWOOD

SHUTTERING PLYWOOD

Shuttering plywood is designed specially for concrete form work.

The base panel is coated on both sides with phenolic film, and the edges are sealed with acrylic resin to protect against moisture absorption.

PANELS

SHUTTERING PLYWOOD

ORIENTED STRAND BOARD

OSB "ORIENTED STRAND BOARD"

Oriented Strand Boards is an engineered lumber formed by adding adhesives and then compressing layers of wood flakes in specific orientations.

OSB TYPES

OSB/1	General purpose boards and for interior fitments (including furniture) for use in dry conditions
OSB/2	Load-bearing boards for use in dry conditions
OSB/3	Load-bearing boards for use in humid conditions
OSB/4	Heavy-duty load-bearing boards for use in humid conditions

The adhesive resins types used include:

OSB/1	Urea-formaldehyde
OSB/2	Isocyanate based glue (or PMDI Poly-Methylene diphenyl diisocyanate based) in inner regions with Melamine-Urea-formaldehyde or Phenol formaldehyde resin glues at surface
OSB/3&4	Phenol formaldehyde resin throughout

SHUTTERING OSB

It is made with the same process of the standard type but instead, a special waterproof resin is used.


BLOCK BOARD

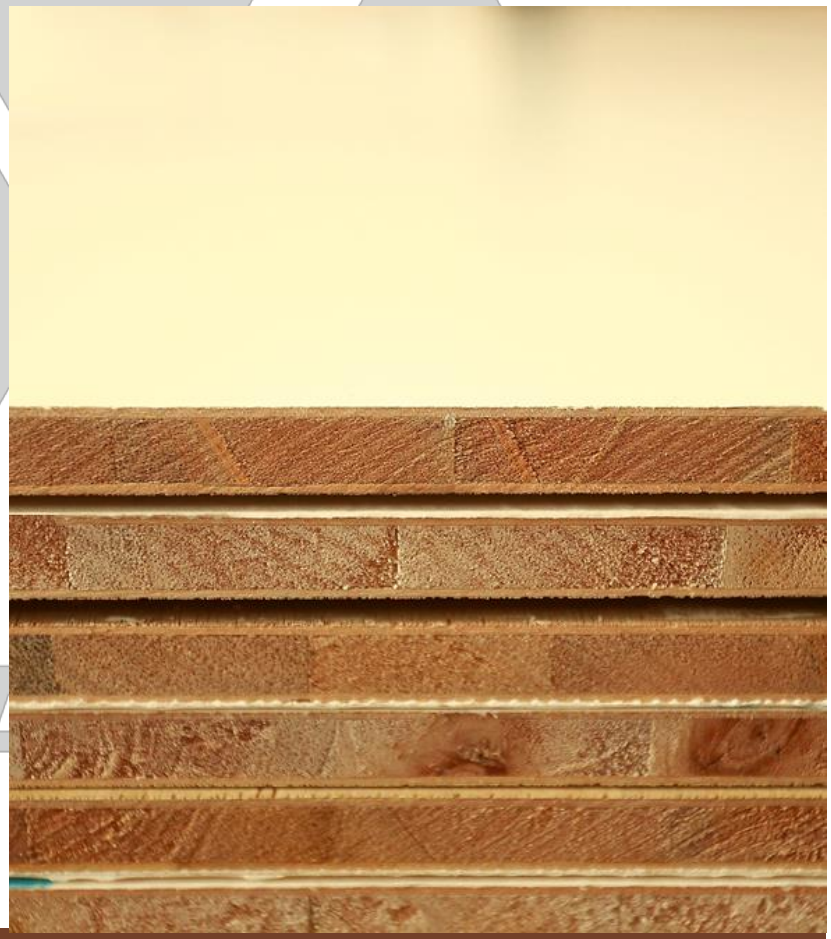
BLOCKBOARD

Block board is made up of a core of softwood strips.

Some of the European wood species used as core are	**White Wood & Red Wood**
Some of the Indonesian wood species used as core are:	**Light Meranti & Falcata**

The strips are placed edge to edge and sandwiched between veneers of hardwood.

A single veneer on both sides is known as 3-ply.
A double veneer on both sides is called 5-ply.



Block Board

Block boards shall be of the following two grades:

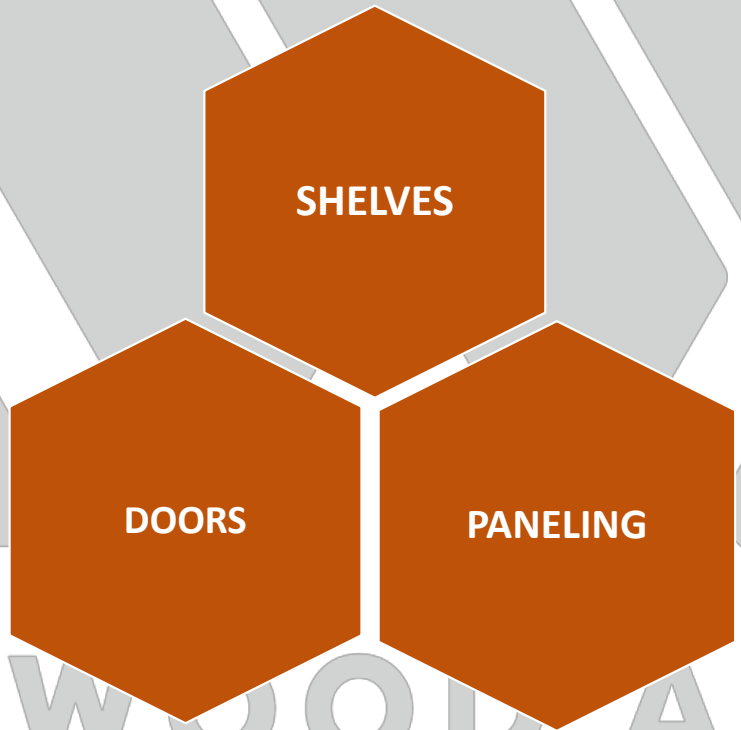
A	WBP Grade — Such block board may be used for bus bodies, railway coaches, prefabricated houses, etc., where it is likely to be exposed to high humidity and for external use
B	MR Grade— Such block board may be used for interior use such as furniture, partition, paneling, ceiling, etc.

Each of the grades specified above shall be of the following two types:

A	Decorative Type — These are block boards with decorative face veneers on one or both sides for use in high class furniture, paneling, interior decoration, partitions, etc.
B	Commercial Type — These are block boards with veneers of commercial timber on both sides and are used for ordinary furniture, table tops, partitions and paneling to be painted over flooring and seats of bus bodies, railway carriages, etc

AREA OF USE

Block Board



MDF FACED BLOCK BOARD

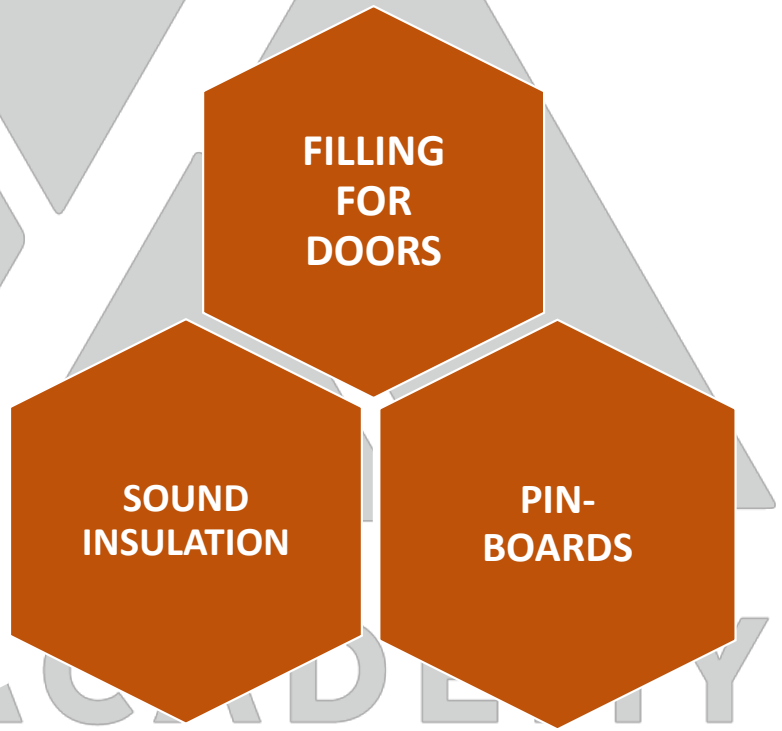
It’s a block board where each face is covered with MDF

The features of Block Board and MDF are mixed together in one Product


SOFT BOARD

SOFT BOARD

Soft board is a material made from wood fibers. These fibers contain the natural substance lignin causing the fibers to stay together. There is no extra glue added. From the wet fibers sheets are made. The boards are dried without being pressed.




LAMINATE FLOORING

FLOORING

LAMINATE FLOORING

The Wineo collection features impressive modern designs for every taste and requirement, and provides greater home comfort due to its improved surfaces and optimized formats.

CADEMY

wineo

1- Surface Texture: Various embossing ensure a high degree of authenticity. Matt and High Gloss finishes give the decor brilliance and a depth of color.

2- Wear Layer: The particular durable melamine resin overlay or the top coat is the base for classification into the corresponding application areas.

3- Decor: The decor paper or the décor varnish provides a variety of design options.

4- Core Board: The HDF core board HDF-Protect® or Aqua-Protect® is protected against swelling.

5- Profile Connection: The panels can be easily clicked into each other due to the LocTec® locking system developed by Unilin®.

6- Profile Seal: A special profile seal protects the whole connection system against moisture.

7- Backing: The melamine resin backing and the craft paper backing provides balance and guarantees high dimensional stability.

LAMINATE FLOORING

The Wineo collection features impressive modern designs for every taste and requirement, and provides greater home comfort due to its improved surfaces and optimized formats.

The Wineo Rock n’ Go collection is the talented show among the flooring solutions. It is the laminate flooring that simply rocks.
Complete, uncomplicated and innovative

WHY WINEO?

MOISTURE-RESISTANT
The new Aqua-Stop technology keeps Rock'n'Go protected from liquids and moisture. Imperceptible quelling – up to four times less than with conventional flooring.

SUITABLE FOR WET ROOMS
Thanks to Aqua-Stop technology, Rock'n'Go is also exceptionally suited for wet rooms.

EASY CARE
Thanks to the melanine resin overlays, Rock'n'Go is child's play to clean.

QUICK TO INSTALL
No further material needs – thanks to its Install Ready technology, Rock'n'Go is directly ready and as a result quick to install.

SUITABLE FOR UNDERFLOOR HEATING
Rock'n'Go can be installed without any problems onto an underfloor heating system.

UV-RESISTANT
Even when exposed to sunshine, the Rock'n'Go laminate flooring does not change thanks to its high UV- resistance.

PARTICULARLY QUIET
Extremely quiet sound behaviour thanks to the new Sound-Stop technology. Rock'n'Go is up to 40 % quieter than conventional laminate flooring – comparable to a high-quality parquet installation.

DURABLE
Rock'n'Go is stain resistant. Even furniture or chair castors leave no traces.

ANTISTATIC
The static charge of the surface, for example with dry room air, is reduced and dust does not adhere to the surface.

CERTIFICATIONS

- Low formaldehyde emission
- Low VOCs (Volatile Organic Compounds) – EPA (Environmental Protection Agency) Certified
- PVC free REACH Compliant (Regulation on Registration, Evaluation, Authorization and Restrictions of Chemicals)