



MDF - is medium-density fiberboard, which is basically engineered wood obtained by breaking down hardwood and softwood composites. Since an MDF board is made up of small wood fibers, there are no visible wood grains or knots. The fibers are joined together using wax to produce panels by applying pressure or high temperature.

MDF is generally cheaper when compared to plywood. The surface of an MDF board is very smooth and makes for a great base for duco paint. It is easy to cut and carve (Jaali / Router) designs out of MDF. It is denser and stronger than a particle board.

Prelam MDF - These are Pre-processed boards and are available in multiple colors. Mostly used in the carcass.

HDHMR - HDHMR stands for High-Density High Moisture Resistance. It is basically an upgraded term of plywood, used to develop tough and robust wooden usage. Explaining the definition, the HDHMR board is made by combining fiber chips, and forest wood waste through a homogeneous construction process. These fiber chips are pressed together to form a single layer, removing small wood content to form a robust high-density board.

Prelam HDHMR - These are Pre-processed boards and are available in multiple colors. Mostly used in the carcass.

MDF & Prelam MDF	HDHMR & Prelam HDHMR
Smooth finish and consistency	HDHMR boards come with pre-paint or polished surface, which gives them a smooth and glossy shine
Malleable and easy to work with	Low - maintenance
More durable than a lot of hardwoods	HDHMR boards are stronger & durable than any other material
MDF boards are termite & borer resistant	HDHMR boards are also termite & borer resistant
Less water & moisture resistant than HDHMR	High water and moisture resistant
MDF board price is less	HDF board price is high
Formaldehyde is an integral part of the adhesive used to bond together the wood fibers which form MDF panels. At extreme concentrations, formaldehyde is known to cause some serious health problems. Still, there is no health risk from the amount of formaldehyde gas given off by MDF	HDHMR boards release less formaldehyde fume. That means it's safe for both environment & homes.

Material Metrics Guide – Comparison between HDHMR vs Plywood

HDHMR	Plywood
Superior quality wood	Good quality wood
Tougher than any plywood available in the market.	Not as tough as HDHMR.
Not susceptible to attacks from termites, borers & fungus.	Susceptible to termite infestations, borers & fungus.
Highly resistant to moisture.	Affected by moisture & humidity levels in the air.
Smooth finish and consistency in thickness.	Has undulation and its thickness is not uniform.
Easy to work with Routed designs.	Not compatible with Routed Designs.
Can apply Duco paint finish, Membrane Press, No waviness.	Not Compatible with DUCO Paint, Membrane pressing.

Material Metrics Guide – Comparison between HDHMR vs Plywood

HDHMR Boards	Ordinary Plywood
Highly Borer & Termite Resistant	Easy Prey & Termite
Highly Water-resistant	Non-Resistant to water
Uniform & Higher Density of more than 850 Kg/m3	Non-uniform & low Density of 600-750 Kg/m3
Highly durable & tougher than plywood	More tear & wear
Screw withdrawal strength edge: >350 Screw withdrawal strength face: >450	Screw withdrawal strength edge: >200 Screw withdrawal strength edge: >325

Material Metrics Guide - Kitchen

	Carcass Core Material				Shutter Core Material			
	BWP	MR Ply	PreLam - MDF	PreLam - HDHMR	BWP	MR Ply	MDF	HDHMR
Kitchen Base / Tall / Mid Tall	✓	✓	✓	✓	✓	✓	✓	✓
Kitchen Wall	✓	✓	✓	✓	✓	✓	✓	✓
Kitchen Loft	✓	✓	✓	✓	✓	✓	✓	✓
If the Kitchen Cabinet Core is PostLam MR Ply with Décor Colour, Then Wet areas Like Sink Aqua, etc should be in BWP Ply.								
If the Kitchen Cabinet Core is PostLam MR White, Then Wet areas Like Sink Aqua, etc should be in Prelam HDHMR White								
If the Kitchen Cabinet Core is PreLam MDF White, Then Wet areas Like Sink Aqua, etc should be in Prelam HDHMR White								

Material Metrics Guide – Wardrobe & Storage Unit

	Carcass Core Material				Shutter Core Material			
	BWP	MR Ply	PreLam - MDF	Lam - HDHMR	BWP	MR Ply	MDF	HDHMR
Hinged Wardrobe	✓	✓	✓	✓	✗	✗	✓	✓
Sliding Wardrobe	✓	✓	✓	✓	✗	✗	✓	✗
Loft	✓	✓	✓	✓	✓	✓	✓	✓
Storage	✓	✓	✓	✓	✓	✓	✓	✓

We can suggest BWP Ply carcass in wardrobe if the customer is very specific about the material

Ply is not recommended for the Hinged wardrobe shutters due to wrapage or Bending issue in the shutter

Sliding Wardrobes - For All the Profile Designs shutters MDF core is set as the default