



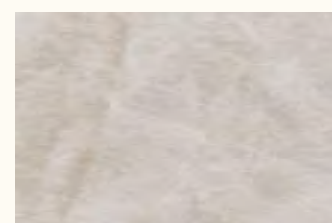
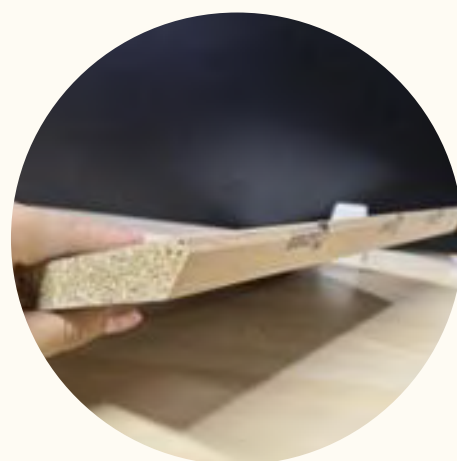
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Palmeco Tech Limited

Introducing **Palmeco® Box**

Palmeco Board – Box is a superb eco-friendly substrate designed for flat-packed and box-type furniture



Superior Performance



Fire Proof
Class A



Water
resistant



Anti-termites



Green & zero
carbon footprint



SEPT | 2023

Sustainable Community

palmeco
Green is our calling

Palmeco® Box MS 850

A premium fire proof board with sanded finishes to provide higher level of flatness and squareness. An Internationally patent protected material, Palmeco Box is a highly durable material that meets the needs of the cabinet-making trades and projects.

Density **850kg/m³**
Thickness **18mm/12mm (on request)**
Size **1220mm * 2440mm**

Other sizes and thickness upon request

- Upcycled Fibre Waste
- Low Carbon Production
- Non-Combustible
- Moisture Resistant
- No VOC
- Anti-Termite
- No Formaldehyde
- Easy to Use



Palmeco® Board - Box MS-850
Fire proof attribute makes it a perfect substrate for kitchen cabinets

Excellent performance

$\leq 0.2\%$ Thickness swelling after 24-hr immersion	$\leq 0.2\%$ Heat exposure deformation rate	$\pm 0.2\text{mm}$ Thickness Tolerance	$\leq 6\%$ Water content
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Palmeco Box's water resistant ability and durability assure your vanity suites are free from water damages , keeping your washroom in top and healthy condition



Upgrade your culinary haven with fire resistant Palmeco Box 850 - It provides a perfect blend of functionality and elegance as well as a fire -safe home.



Transform your living space with Palmeco Box - our low carbon sustainable board can elevate a greener living environment for you and your family.

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Palmeco® Box offers you a GREENER alternative

Specifying Quality Wood Casework Is Fundamental

While the core or substrate is not the visible portion of a cabinet, its selection is very important to the durability and performance of the casework. Materials made of the cabinet construction members (framing, base, side and fixed backs) in order of best performance should be specified.

Common problems with other materials used for kitchen cabinets



Termite Infestation



Mold Growth



Pronged to warping



Toxic emission



Water Damage



High maintenance cost

Palmeco Box helps tackle these problems !

Palmeco BOX vs Other Substrates

Palmeco Board
- 0.44
CO2ekg



Other Materials

0.76 MPF
0.81 Plywood
1.12 HDF
CO2ekg

	Palmeco Box	Plywood	High Density Fibrebaord	MDF
Density (kg/m³)	850	650 - 850 (Subject to Species of Plywood)	900 - 1000	700 - 850
Thickness (mm)	18	4 - 18	4 - 18	4 - 18
Size (mm)	1220 * 2440 (1200 * 3000)	1220 * 2440	1220 * 2440	1220 * 2440
Surface Uniformity	Good	Good	Very good	Very good
Screw Holding Ability	Good	Very Good	Fair	Doesn't Hold Screws
Strength / Loading	Strong	Strong	Fair	Very Weak
Toxicity - VOCs and Formaldehyde	No Formaldehyde / VOCs detected	High in Formaldehyde / VOCs	High in Formaldehyde / VOCs	High in Formaldehyde / VOCs
Fire Resistant Ability	Class A - Non-Combustible	Flammable Toxic Gas Emissions when Burns	Highly Flammable Toxic Gas Emissions when Burns	Highly Flammable Toxic Gas Emissions when Burns
Water Resistance	Very Strong and Stable No Swelling after Water Submersion	Not Stable Swelling and Layers Splitting Apart	Not Stable with Swelling Prone to Mold Growth, Termites	Very Weak with Serious Swelling Prone to Mold Growth, Termites
Durability and Sustainability	Durable and Reusable due to Strong Resistance to Water, Fire, Mold Growth and Insects	Not Durable due to Water Damage and its Consequential Mold and Insect Growth	Not Durable due to Water Damage and its Consequential Mold and Insect Growth	Not Durable due to Water Damage and its Consequential Mold and Insect Growth
Eco-Friendliness (CO2e/Kg)	-0.44 (Carbon Neutral) *	0.81 **	1.12 **	0.76 **

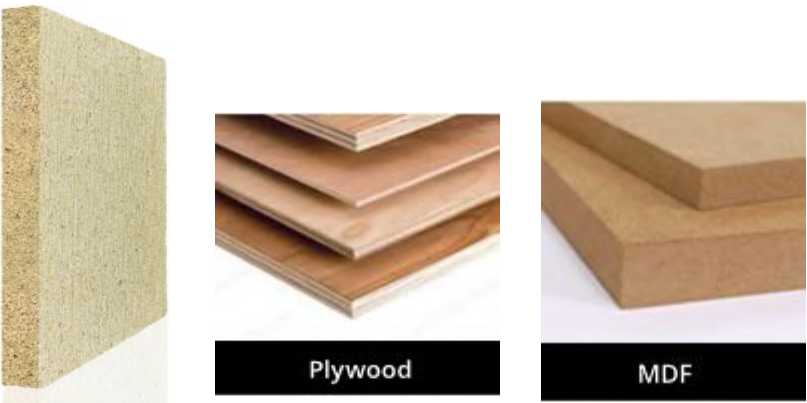


Palmeco board is Green. The manufacturing process consumes very little energy with close to zero carbon emission. The board is made from an abundant mineral and oil palm wastes that would otherwise be dumped into the landfill.



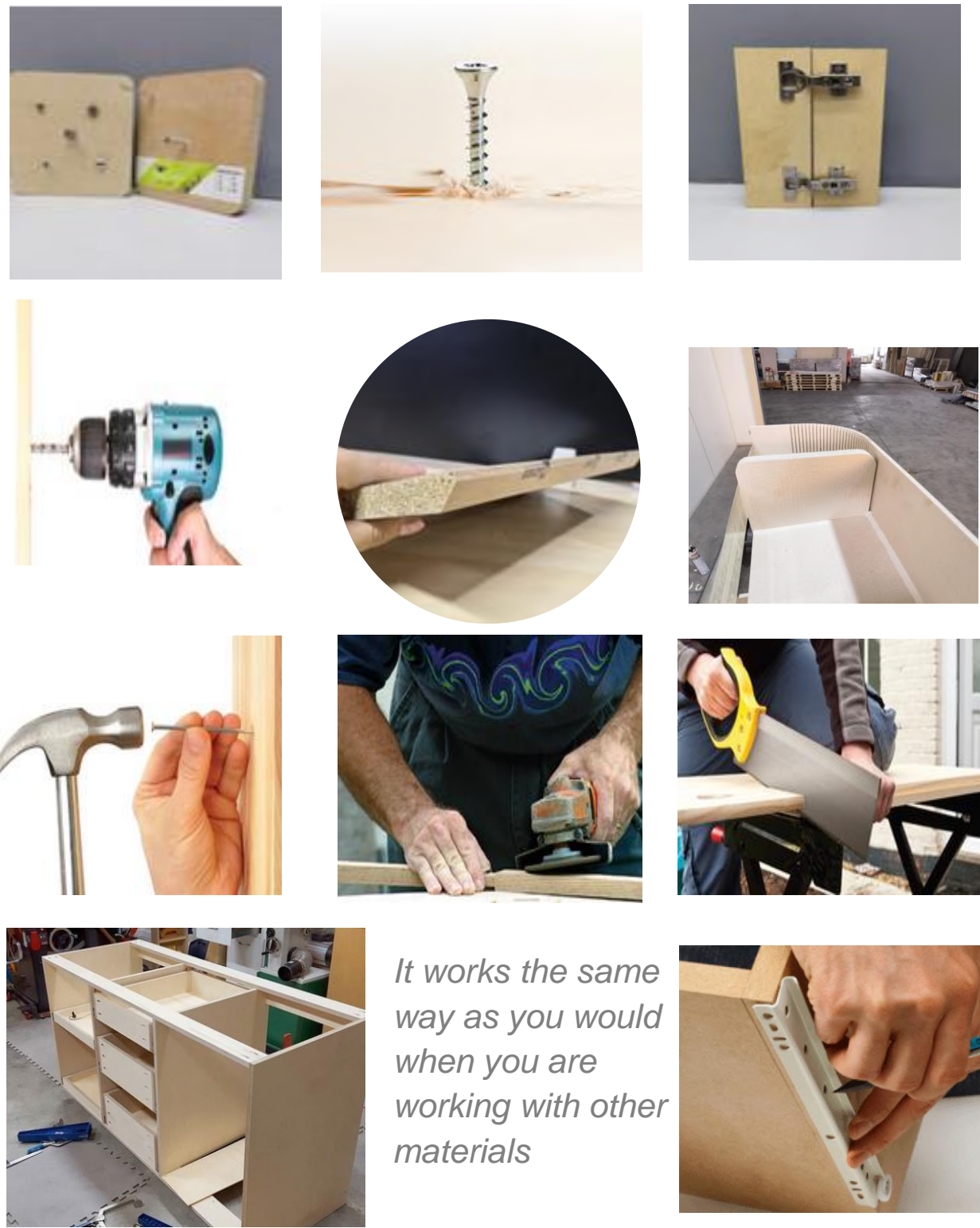
Palmeco® Box is versatile for casework

This rigid breathable composite board is easy to use, and it can receive most surface finishes available in the market.

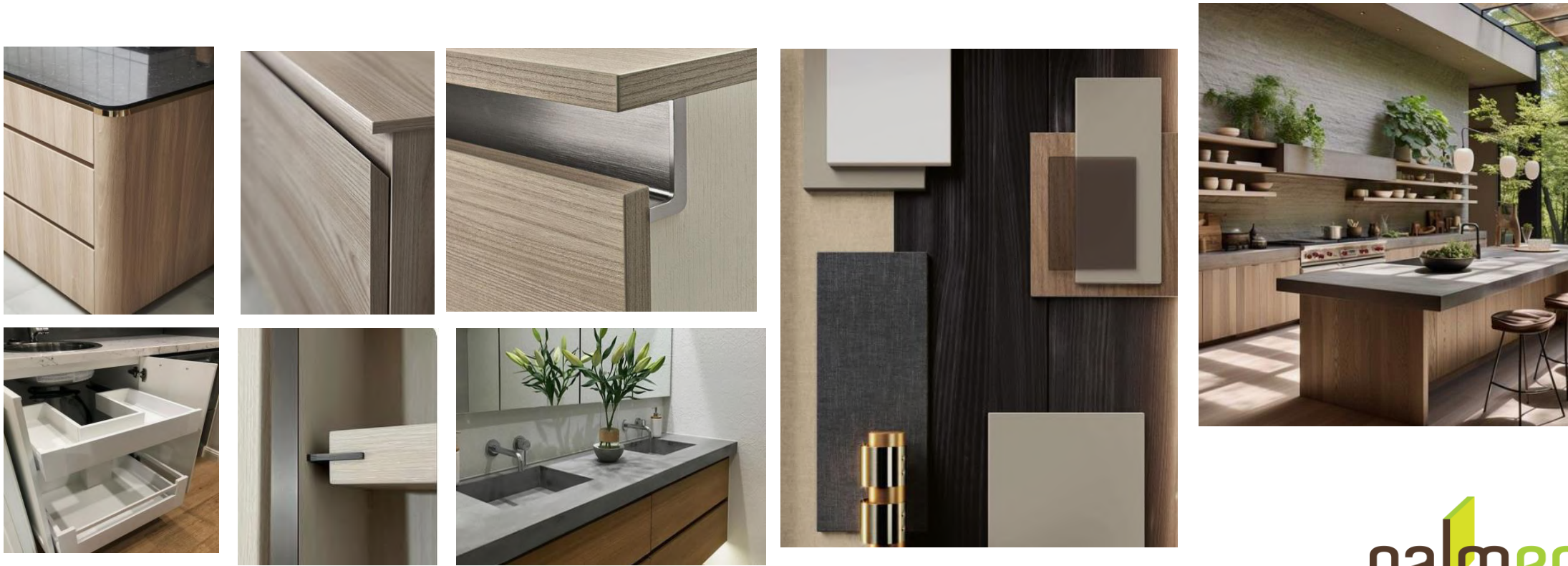


Palmeco BOX vs Other Substrates

	Palmeco Box	Plywood	High Density Fibrebaord	MDF
Suitable to Receive Surface Finishes	HPL	Yes	Yes	Yes
	PVC / PET	Yes	Yes	Yes
	Fabric	Yes	Yes	Yes
	Natural Stone	Yes	No	No
	Creamic Tile	Yes	No	No
	Metal	Yes	No	No



It works the same way as you would when you are working with other materials



Palmeco® Box is suitable base materials for a wide range of decorative surfaces



Palmeco Box serves as the base material over which thin decorative veneers or surface materials such as PVC, PET, Melamine, HPL, natural stone, sintered stone, tiles, glass, fabric and leather can be applied on. Thus, core material selection is very important when it comes to striking a balance between performance characteristic and prices. The substrate core of any decorative material determines the lifespan and well being of your cabinets and furnitures.

