

# GREENOPLAST™

wood plastic composites

WPC DOORS | WPC BOARDS

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## Bookshelf from PVC foam boards

## BOARDS

A promising product for global wood based panel industry

### Product Intro

WPC boards are available with various names like 'Construction boards', 'Crust foam boards', 'Calcium boards', 'WPC shuttering boards', 'WPC MDF boards', WPC Plates, PVC foam boards, WPC sheets, WPC panels, WPC formwork panels etc. in global markets. WPC boards can be produced with flexible density range varies from 500 kg/cum to 900 kg/cum. Another important characteristic is the surface density of this product and which also can be adjusted between a range of 55 shore D to 85 shore D surface hardness.

These boards are covering a large application area starting from interior grade boards being used for making furniture, kitchen cabinets, kitchen shutters. Taking further, these boards are being used for making temporary shelters for government housing projects, construction site pavilions/shelters, low cost housing projects and other road and building projects.

## BOARDS

A promising product for global wood based panel industry



Decorative wall panel from  
WPC boards

### Comparison with conventional wood panels

WPC as a Polymer with thermoplastic nature gives advantage of 'Re-cycling'. Thus, we can save lot of natural resources. It gives other natural advantages of Moisture resistance and Termite resistance. Thus, it is being accepted as the 'Life time Investment product' by the Indian lower middle class.

Surface of WPVC is quite polished, even, grain less, non porous, clean, calibration free which can be printed, painted and coated directly. It is a 'ready to use product' for total carcass applications. WPVC is the best product for 'Joinery systems' and it can be joined or sandwiched very fast and solid with 'PVC Solvent Cements'. This is the fastest technique –played with WPVC boards for making of various product compositions. Whether it's a 35 to 100 mm thick solid structure or curvilinear chair/tripod or a master piece in children furniture, you can make it quickly possible with WPVC sheet and solvent cement.

Density from 550 kg/cum to 650 kg/cum is the perfect fit for screwing and screw holding applications. The regular method of carpentry with PVC foam sheet works well with 'screw and solvent' mechanism. Actually it is similar to the plywood and water based adhesive system only but making time will be minutes instead of long hours. And final structure will be moisture proof, termite proof and may be with even 'Buy back warrantee' too!



Digital wall panel from  
PVC foam board

## APPLICATIONS

Reliable product for lifetime investment

### Modular Kitchens

Back paneling **Main doors**

Kitchen cabinets

Bathroom doors

Curved components

Office furniture

Partitioning systems

Other house hold furniture

**Chairs** Wardrobes

Internal doors

Windows **Carcases**

**Digital panels**

**Decorative wall tiles**

CNC routed panels

Digital print on PVC foam board

## SURFACE DECORATION

use without high pressure laminate

Digital printed panels & Doors

Can be used without HPL or Prelam

Direct printing with high resolution

Direct UV coating with gloss/matt finishes

Any HPL or Veneer design can be created

Digiprint panel at the cost of Digital HPL

Any customized design can be possible

Best use in 'Architecture concepts'

For Temple Interiors

Art pieces with long life

Photograph printing for gifts

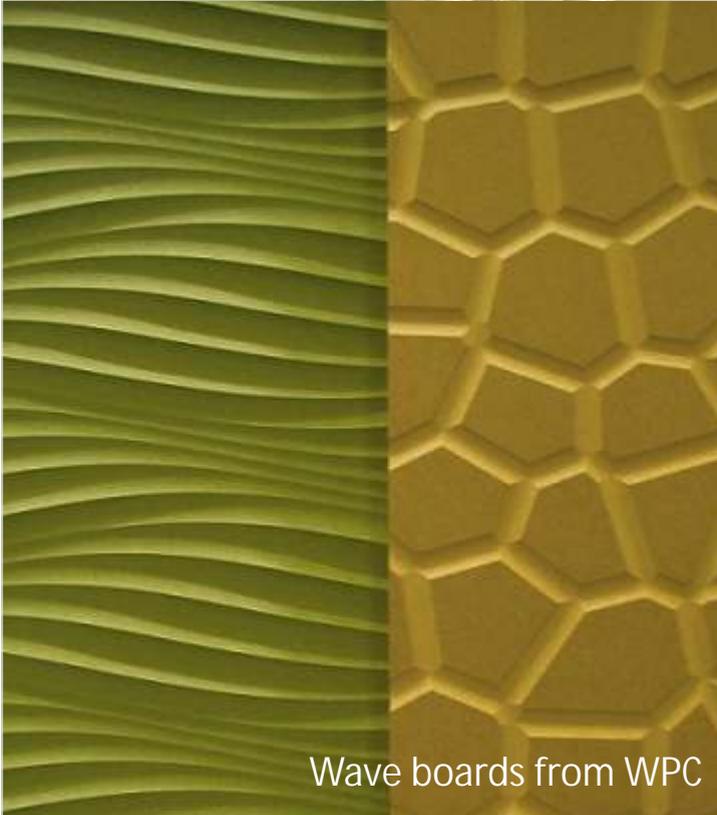
For Art galleries

## SURFACE DECORATION

Wave boards n Grill boards



Grill boards from WPC



Wave boards from WPC

CNC routed designer panels

There is a latest trend in architect and interior designing for wall paneling with WPC boards.

Walls can be covered with ready made or customized wave boards and grill boards in white, color and painted formats.

After cementing walls can be covered with such panels those are 100% termite proof.

Becoming popular for wall decoration

Moisture resistance & termite resistant

Gives creation a quite long life

Duco paint and Oil paint possible

Digital printing possible

Enriching surface decoration

Favorite amongst architects and interiors

## TECHNICAL ADVANTAGES

A technical, clean and green product for new generation

### Children double desk from WPC boards



100% Environment friendly product  
Excellent water and moisture resistance  
Best for use in humid atmosphere

Total termite resistant  
Non toxic & non pollutant  
Little Emission in compare to Plywood & MDF

Best use for medical infrastructure  
Controlled expansion and contraction  
High screw holding capacity

Highest bending strength than wood,  
Plywood and MDF  
Corrosion resistance

Best machinability  
Best for sandwich construction  
100% recyclable (buy back possible)

Saves tooling life almost 50%  
Better compressive strength  
Fire retardant

Easy to fabricate for carpenters  
Moldable structure from 90 deg to 180 deg  
Better surface hardness

## WPC BOARD – SPECIFICATIONS

Panel width  
1220 mm or 4 ft

Panel length  
Customized in 4ft, 6ft, 8ft, 10ft, 12ft, 15ft and more

Panel sizes  
8' x 4', 4' x 4', 6' x 4', 1' x 4', 2' x 4', 3' x 4', &  
customized Sizes

Panel colours  
as per requirement with a MOQ of 200 boards

Product thickness range  
5 mm | 8 mm | 10 mm | 12 mm | 15 mm | 18 mm

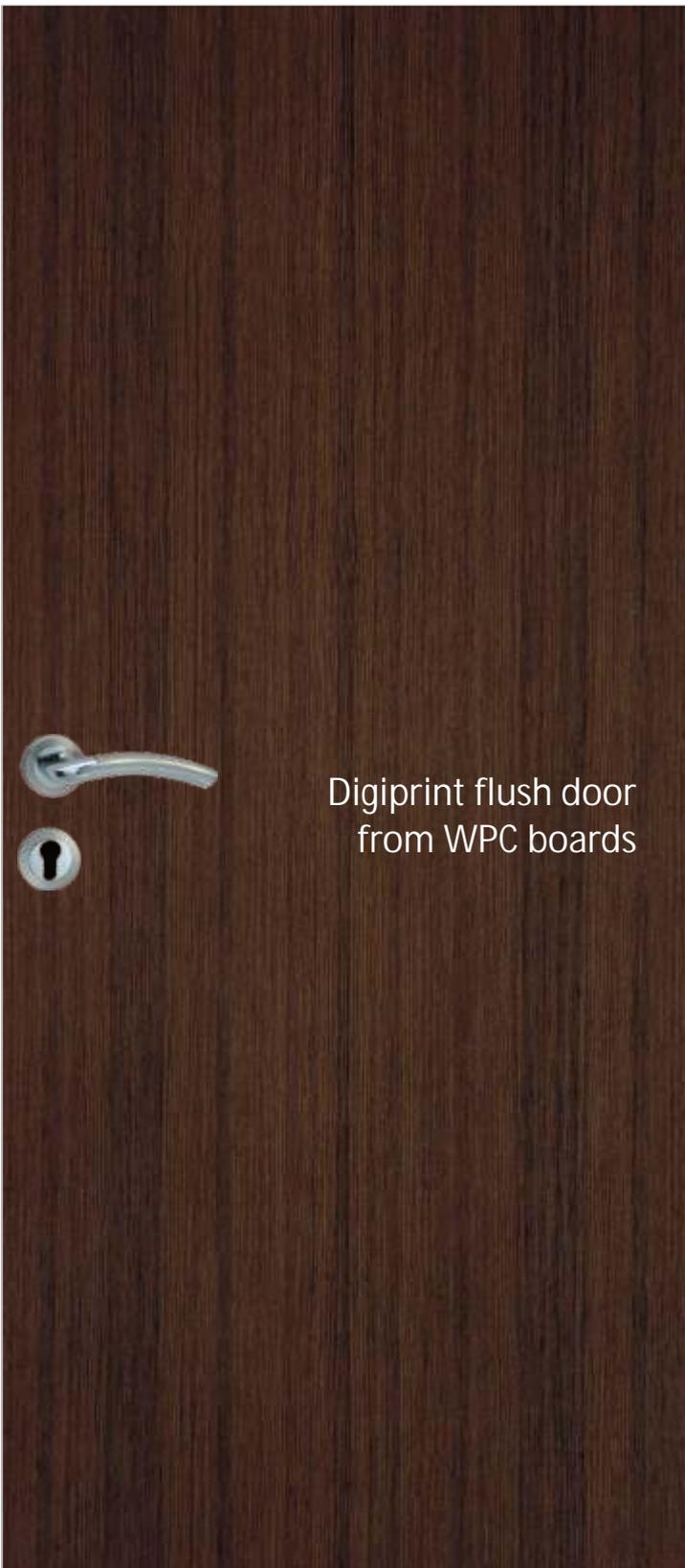
Panel density  
600 kg/cum to 900 kg/cum



Kitchen carcases  
from PVC foam boards



## WPC DOOR – SPECIFICATIONS



Digiprint flush door  
from WPC boards

### Types

1. Digiprint Flush Doors
2. Plain Flush Doors
3. Panel Doors
4. CNC routed designer Doors
5. Grill Doors
6. Bathroom Doors

### Thickness

20 mm, 24 mm, 26 mm, 28 mm, 30 mm & customized

### Width

27 inch, 30 inch, 33 inch, 36 inch & customized

### Length

72 inch, 78 inch, 84 inch & other customized sizes

### Colours

White, Brown in regular,  
customized with a MOQ of 150 Doors

CNC routed solid door  
from WPC boards

## WPC BOARDS – SPECIFICATIONS

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CNC routed cabinet  
from PVC foam boards

## TECHNICAL SPECIFICATIONS

WPC/PVC boards, WPC/PVC doors  
WPC PVC door frames.

Sr. No.	Test	Test Method	Value
1	Density, Kg/m <sup>3</sup>	IS: 1734	500 – 800
2	Water Absorption, 2 hours, %	IS: 2560	< 0.2
3	Water Absorption, 24 hours, %	IS: 2560	< 1
4	Hardness, Shore D	ASTM D 2240	> 55
5	Tensile Strength, N/mm <sup>2</sup>	IS: 1734	> 11
6	Elongation at Break, %	IS: 1734	< 10
7	Modulus of Rupture, N/mm <sup>2</sup>	IS: 1734	> 20
8	Modulus of Elasticity, N/mm <sup>2</sup>	IS: 1734	> 1500
9	Screw Withdrawal Strength, N	IS: 1734	> 1500
10	Nail Withdrawal Strength, N	IS: 1734	> 150

All information mentioned above is based on typical sample, is accurate to the best of our knowledge, and is provided without liability or commitment. As GREENOPLAST has no control over the end use of material and method of use of material, it does not give guarantee that the same results are obtained, as mentioned here. Each user of material should make their own test in their own local condition to confirm the suitability of our product for their particular use. Technical Specifications are subject to change.

## CARPENTERS CORNER

Alternative to wood  
works like a wood

