



REAL COLOR  
WORKSHOP

## PRINTED HPL CATALOG 2016

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“ custom your laminate from here”

[www.rcodecoration.com](http://www.rcodecoration.com)

## What is digital print technology?

Digital printing ,also named Inkjet printing ,transfers digital image onto substrates by ink-printing directly. It is widely applied in plastic,textile before while digital print on decor paper has developed and gains its popularity among these years.Unlike traditional screen printing decor ,digital printed decor paper could be customized with any patterns in high resolution without limitation in woodgrain and solid color.Digital decor is always laminated with other paper,such as kraft paper on wood substrate like MDF, particleboard to make custom HPL/compact board,custom melamine impregnated board and so on.



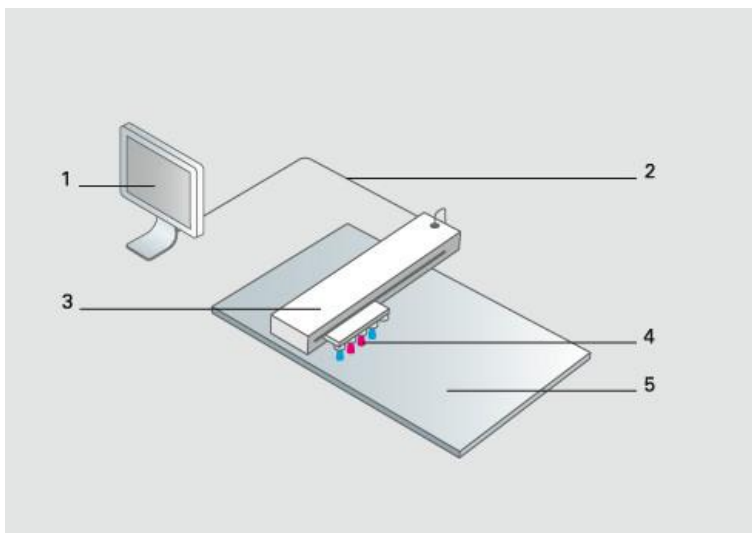
### Digital inkjet printer

## Digital printing on decor paper

By digital printing ,we **transfer high resolution graphic information directly from the printer to decor paper, and then laminate with other papers or substrates to make final board products.**

- Rollers plays an vital role in transferring ink onto decor paper in rotogravure(screen printing process), which may result in poor distribution of ink,such as white dots,color aberration.While digital printing allow deep places,grooves and open pores can be colored as its contact-less between printer and decor, which render overall color consistency
- A higher resolution available with intense color of expanded gamut,which delivers superior clarity without fading out for more than 10 years.
- Large pre-printing work are necessary in screen printing ,including rollers making ,installation and certain amount of paper stock. By digital printing, the decor can be changed anytime and anywhere required, which eliminates make-ready time and accelerate leading time successfully.

### How does digital printer work ?

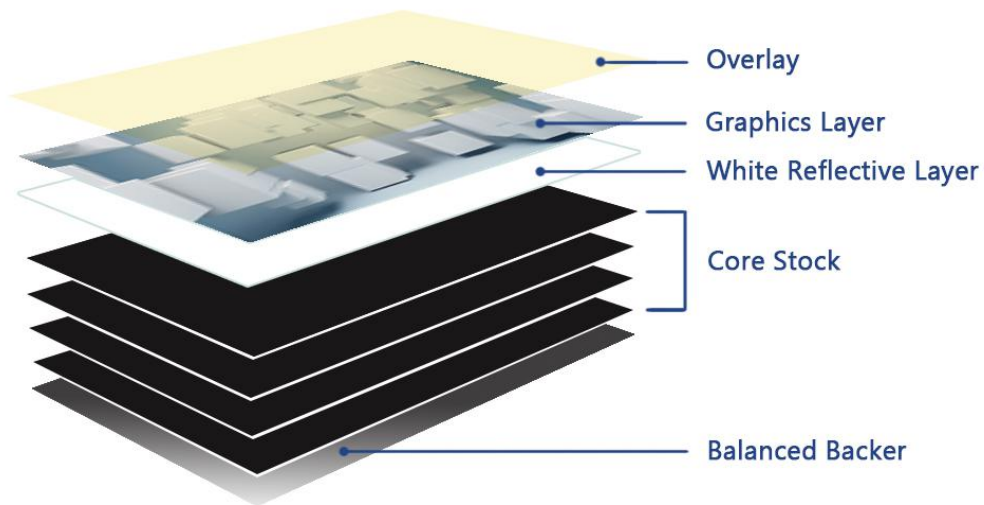


1 PC 2 Data transfer 3 Printing unit 4 Ink transfer 5 Printing substrate

## Digital print laminate

With digital print decor paper impregnated and other papers under proficient lamination process, we custom digital print Laminate as your request.

### What does digital print laminate make of ?



The composition of the digital print HPL is the similar as the normal HPL laminate while with little differences on paper.

- **Backer sheets** are designed to prevent the panel from warping and bending. Backer sheets are normally in dark brown or black, and should be sanded to facilitate bonding on substrates
- **Core layers of HPL are kraft** impregnated with phenolic resin, and the thick layers of it separating decor paper from substrate, which guarantees the color layers not effecting by substrate effectively.
- **A sheet of reflective white material** is laid on top of core materials in some cases, which differs from normal HPL laminate. The layers insures the brightness and vibrant of HPL.
- **Digital print decor paper** is customized into any patterns you request
- **Overlay** features anti-UV and scratch resistant.

## Manufacturing process



- Stacking all paper in lamination machine at pressures approximately 1200 lbs. per square inch at temperatures not exceeding 300° F (148° C).



- Panels are cut and finished with carbide-tipped in CNC machine. Any size and shape are available, including cut-outs and embossing layers. Laminate edges should be trimmed smooth and Corners should be finished smooth or as client request. Backside is sanded in most cases to facilitate bonding on substrate.

## Application

Panels are As standard woodgrain and solid color HPL laminates, digital laminate have wide application, from interior to exterior

Mainly include:

- Tabletop
- Countertop/benchttop
- Interior wall
- Exterior wall(wall cladding)
- Locker
- Door
- Toilet cubicle
- Signage
- Locker
- Chair/stool
- Cabinet door
- Splashback
- Decorative painting

“Custom your ideas on anywhere”



TABLETOP





## INTERIOR WALL

### HPL laminate size

Like standard HPL laminate, we have multiple options regarding the thickness and sizes of HPL digital printed. Thickness ranges from 3mm to 25mm (over 9mm thick panels belong to compact board). And panels range from 4'x6' (1220mm\*1830mm) to 8'x10' (2440\*3050mm). Most common sizes include:

#### Thickness (mm)

- 0.6mm            could be post-formed and be applied on bent surface
- 0.8mm
- 1.0mm            most common option
- 1.2mm
- 1.5mm
- 2.2mm
- 3.0mm

#### Size(mm)

- 1220\*1830
- 1220\*2440        standard size
- 1220\*3050
- 1220\*3660
- 1525\*1830
- 1525\*2440
- 1830\*2440        hot-rated size
- 1830\*3050        hot-rated size
- 1830\*3660



EXTERIOR WALL

"Custom wall with digital print laminate to promote your brand or personalized your decoration"

INTERIOR WALL



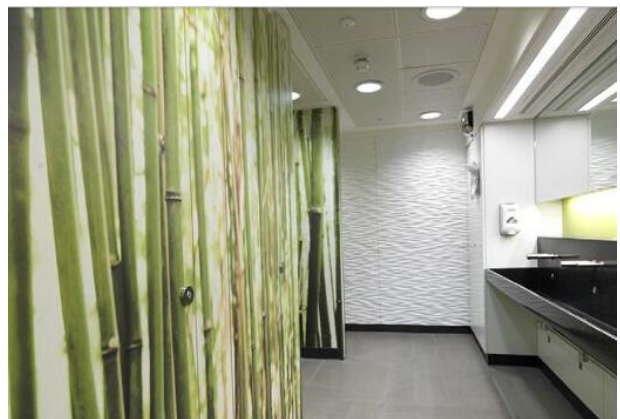


## DOOR

“ Digital print laminate could be applied on sliding door, MDF molding door to ensure safety and appearance elegance.”



Sliding door



Door in restroom



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## Why choose digital print laminate ?

Printed HPL has a **wide application** from wall panel to cabinet. post-form laminate allows itself applicable curved surface.

HPL surface features **high resistance to acids, solvents and stains**. Easy to clean with damp cloth or detergent.

All materials **are certified for environmental sustainability**. Laminating on substrate to decrease formaldehyde emission and 0-VOC adhesives

Water-based ink allows great absorption of pigment to achieve **best visual effect**. Colors would sustain for a long period.

**Special UV resistant layer** over laminate to prevent color fading effectively

Blended with aluminum oxide, over layer of HPL **reduces surface abrasion** and passes cycle testing up to over 9000 cycles

Our HPL is certified by ASTM Furnace testing, with **high anti-smoke index and fire, preventing cigarette burning**

Printed HPL shares the great anti-impact performance, with **loading weight up to 300 pounds**.

**Post-formed tops** are available with seamless edge desired both in vertical and horizontal application

### TOILET CUBICLE



Printed laminate HPL could be applied on toilet door, toilet panels or vanity, or urinal partitions.



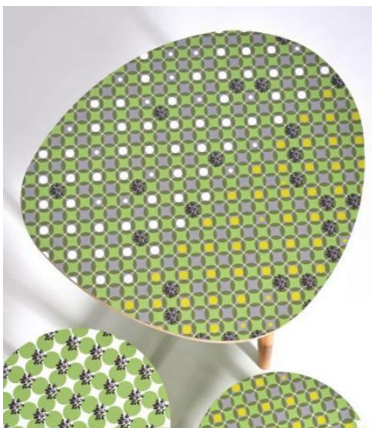


## SIGNAGE

Signages could be seen in many places, such as display board in museum, zoo or showroom, guideboard in the street, as well as billboards. The exposing environments requires signages to be anti-moisture, fire-retardant, scratch-proof, and any other characteristics. Digital print HPL could meet all these requirements.



## OTHER APPLICATION



Chair/stool



Cabinet

## Surface treatment

we custom your digital print laminate more combining more surface treatment, such as satin, high gloss, or wave vertical. More than 20 surface treatment are available.



Feather



High gloss



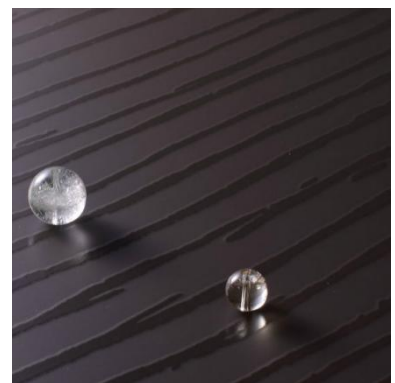
Matte



Satin



horizontal lines



wave grain

More surface contact: [daniel@rccodecoration.com](mailto:daniel@rccodecoration.com)

# Order processing

## 1. FILE PREPARATION

- designs/photos/logo
- CMYK acceptable
- file format in .eps/.pdf/.tif/.psd
- minimum 300 dpi

## 2. SAMPLE LAMINATION

- file adjust by our designer
- one free sample for a project
- sample sizes up to 60cm\*60cm normally.Actual project sizes also accepted
- sample completion within maximum 10 days upon receipt of approval by client
- special requirement such as surface treatment and corner effect are required in sample

## 3. SAMPLE CONFIRMATION

- sample sent to client by express.Delivery fee negotiated by both parties.
- sample confirmation in appearance, mechanical property and special requirement like edge finishing.
- sample kept and sealed by client for quality issue in the future.

## 4. MASS ORDER CONFIRMATION

- once sample confirmed
- delivery time for 50-500 pcs are within 7-14 days generally
- we accept minimum order from 5 pieces
- other order details(payment terms or delivery) confirmation

# Contact

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