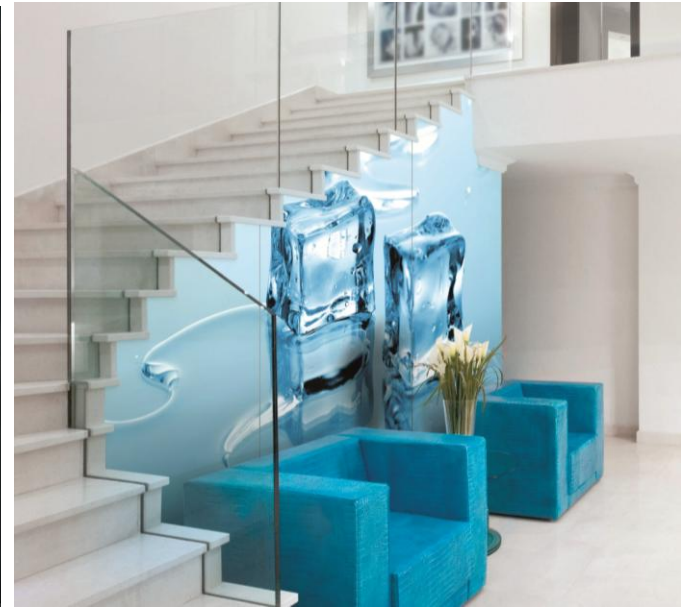
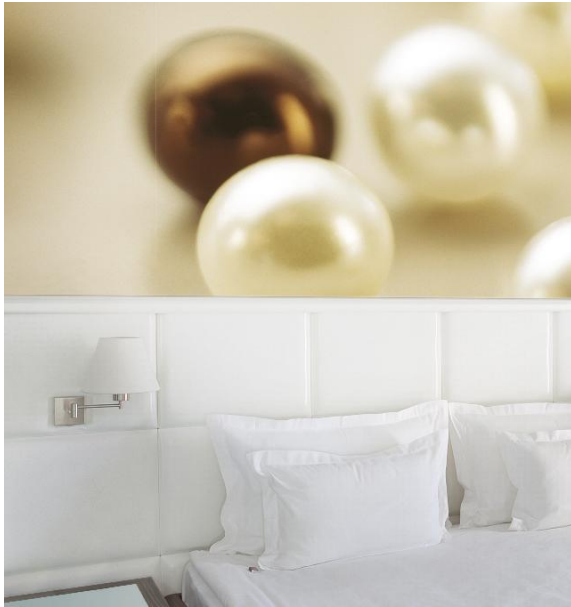


# TECHNICAL Guide

*Signature*

Personalized Digital Laminate

polyrey



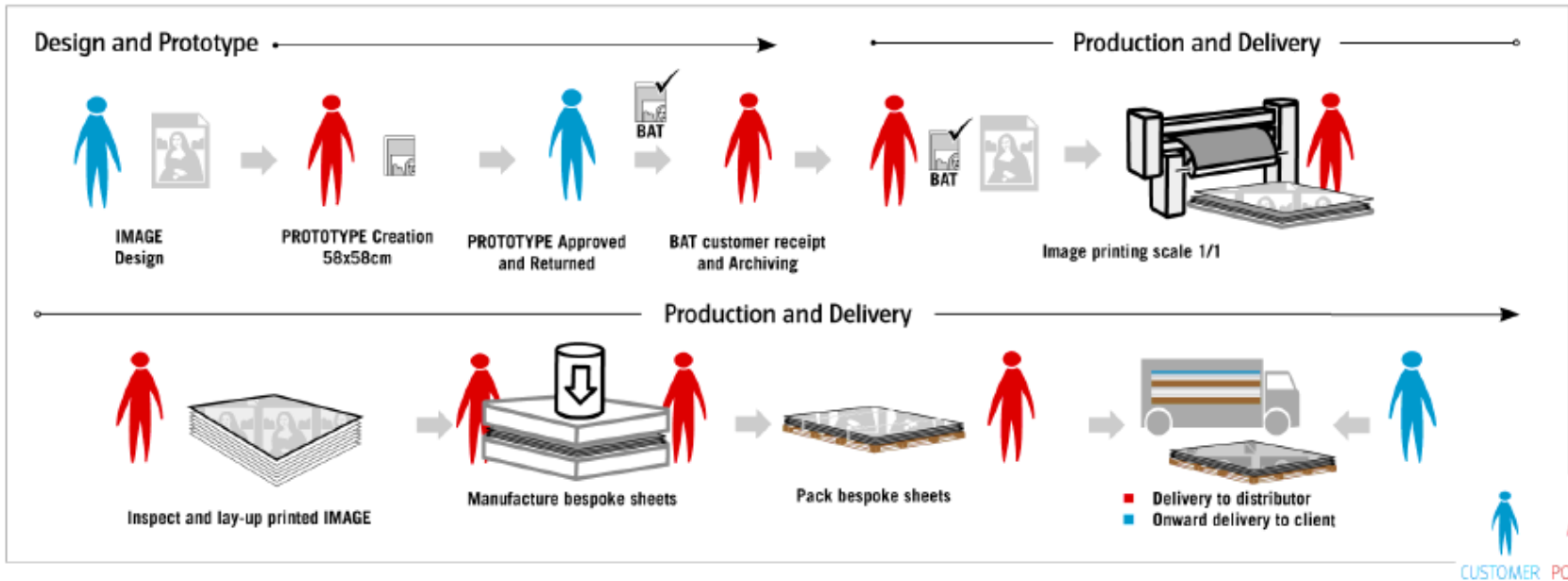
Choose the personalised digital laminate:

- To create unique decors for your projects.
- To enhance the brand using the brand's visual identity.
- To offer decors which are not feasible with traditional methods.
- For signage (maps, signs, ...).



Use the personalised digital laminate:

- Photos, graphic designs or a composition printing.
- On High Pressure Laminate, Compact or HPL bonded boards.
- Single, multi images or a fresco
- Available in 5 sheet sizes (from 215 x 97 cm to 412 x 151 cm)



## Digital laminate manufacturing process:

- Creation of the image file following the technical guide requirements.
- Laminate prototype printing for validation.
- Prototype validation by the client's Project Manager.
- Picture printing and panel manufacturing.
- Delivery of the panels to our partnering distributor.

# TECHNICAL GUIDE

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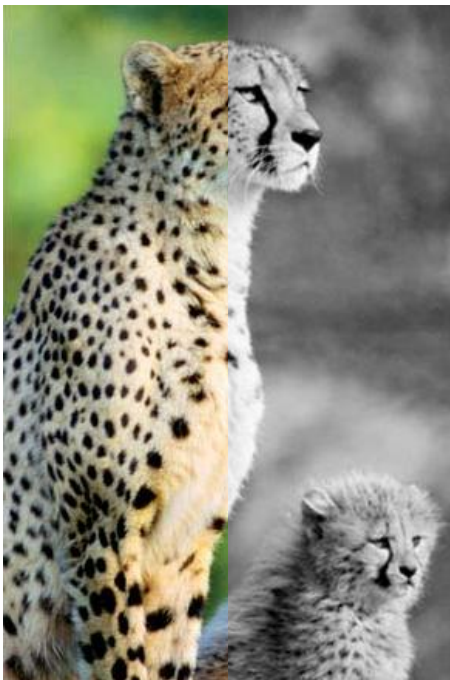
Signature Projects Manager  
Mail : [signature@polyrey.com](mailto:signature@polyrey.com)

- I. Image file characteristics – p7**
  - a. Different pictures types
  - b. File saving format
  - c. File colorimetry
  - d. Resolution and image size
  - e. Synthesis
  
- II. Image files assembling - p15**
  - a. Unique image or simple panel
  - b. Multi / mixed images
  - c. Fresco
  
- III. Colorimetry – p23**

All documents have to be finalised before handing them over to Polyrey.

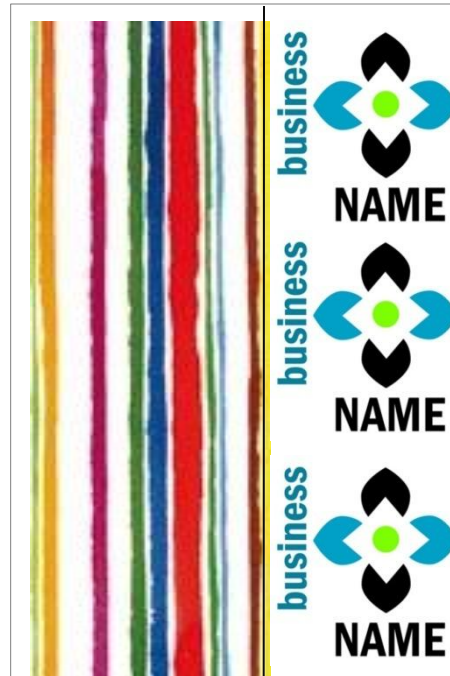
## I. Image file characteristics

### a. Different picture types



PICTURE

COLOUR – BLACK & WHITE



DRAWING

LOGO - ILLUSTRATION



COMPOSITION

PHOTO + TEXT

## I. Image file characteristics

### a. Different picture types

- **Image sources**

- ✓ Image libraries : Select pictures with largest scale and 300dpi.
- ✓ From a scanner : A high definition scanner must be used.

- **From a digital camera**

- ✓ The picture must be taken in high definition, uncompressed TIF or 12 MPx, to be printed in large size.

- **Image copyrights**

- ✓ Utilisation and exploitation rights must be paid by the client. They are responsible for these rights and should be able to provide an attestation if requested.

# I. Image file characteristics

## b. File saving format

✓ FORMATS TO BE USED:

FORMAT	TYPE OF DATA
.ai, .eps, PDF print <sup>(2)</sup>	Vecteurs – Adobe Illustrator <sup>(1)</sup>
.eps, .psd, .tif	Pixels – Adobe Photoshop <sup>(1)</sup>

(1) Creative Suite 5 or previous (CS5)

(2) PDF certified type PDFX



FORMATS NOT ACCEPTED: .jpg, .gif, .bmp, .doc, .ppt, raw

## I. Image file characteristics

### c. File colorimetry



**NOT ACCEPTED : RGB - Red, Green, Blue**

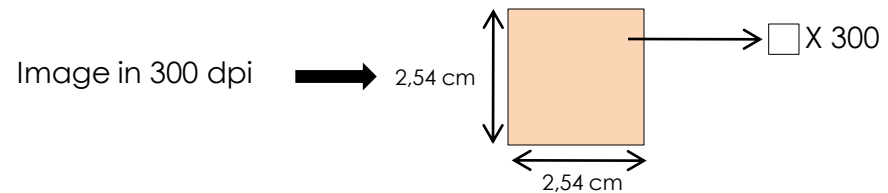


# I. Image file characteristics

## d. Resolution and image size

- ✓ **DPI** – Dot Per Inch : number of pixels making up the picture per square inch.

Distance from which the human eye can no longer see pixels	Image's Resolution in scale 1
6,3 cm	1200 dpi
12.7 cm	600 dpi
20 cm	380 dpi
25.3 cm	300 dpi
30 cm	253 dpi
50 cm	152 dpi
76 cm	100 dpi
1 m	76 dpi
1.50 m	50 dpi
2 m	38 dpi
3 m	25 dpi
5 m	15 dpi
10 m	7,6 dpi
20 m	3,8 dpi

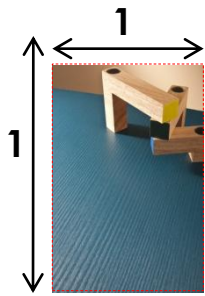


## PICTURE RESOLUTION TO BE ADHERED TO :

- 150 dpi minimum if original file in scale 1
- 300 dpi minimum if original file in scale 1/4

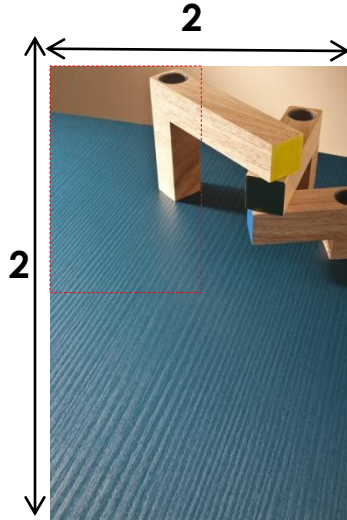
## I. Image file characteristics

### d. Resolution and image size



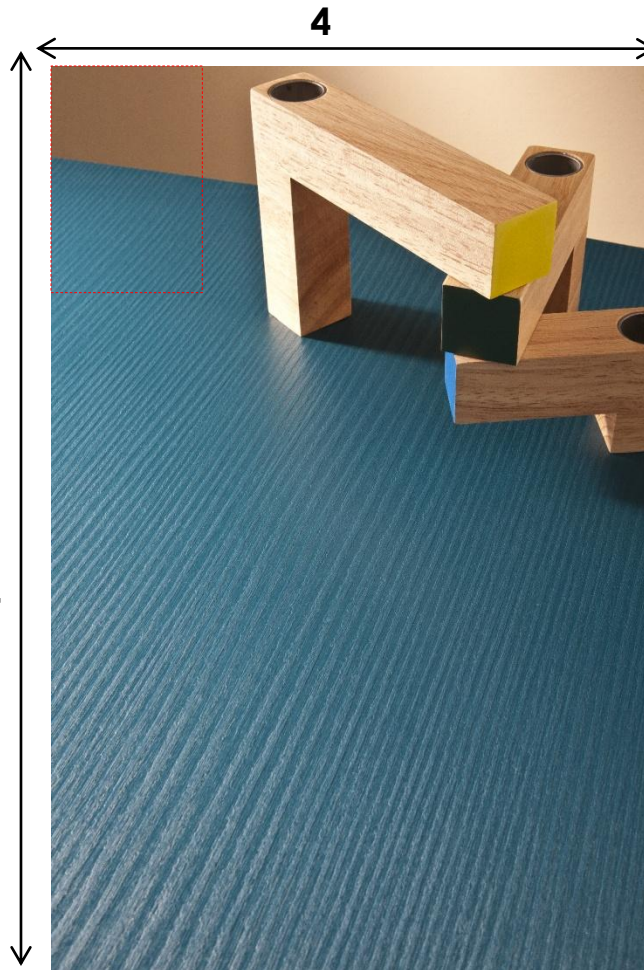
100%

EX:300 dpi



200%

EX:220 dpi



400%

**STOP**  
Maximum  
enlargement

EX:150 dpi



## I. Image file characteristics

d. Resolution and image size

### Image size and resolution effects

Original 72 dpi



x4 - 400%

Blurred / pixelated printing



**A low quality image will result in a bad quality print.**

An image too compressed or with a heterogeneous colorimetry produces poor printing.

Original 300 dpi



More than 400%

## I. Image file characteristics

### e. Synthesis

- Files formats:

FORMAT	TYPE OF DATA
.ai, .eps, PDF Print	Vecteurs – Adobe Illustrator
.eps, .psd, .tif	Pixels – Adobe Photoshop

- Colorimetry: CMYK

- With a resolution of:

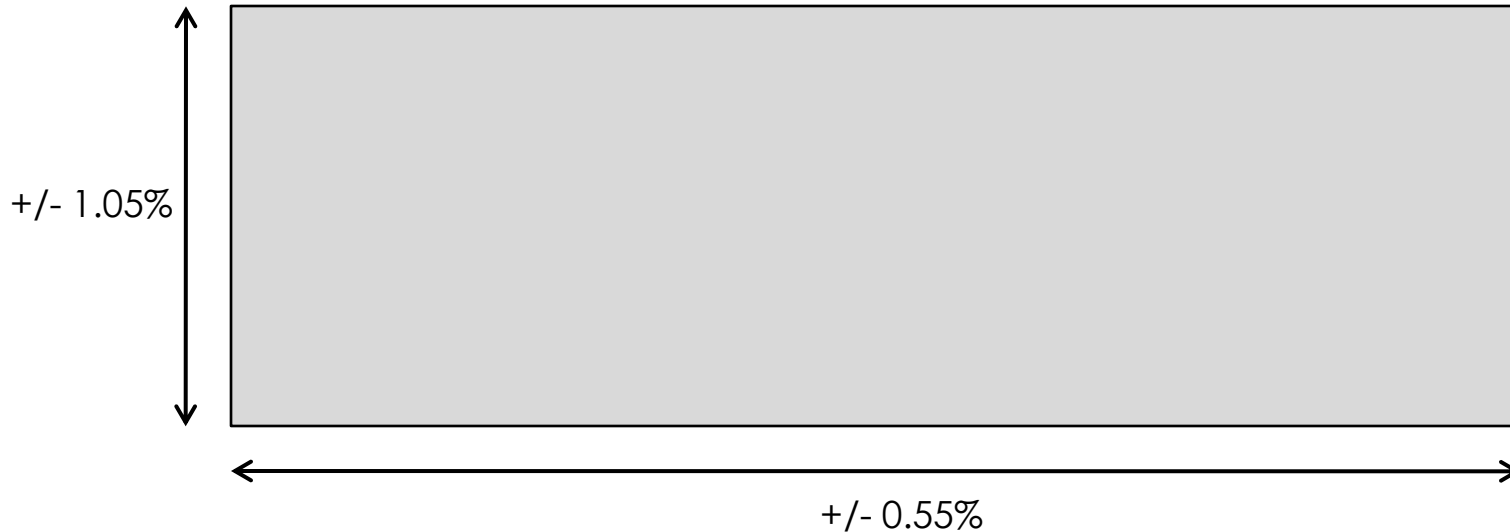
- ✓ 150 dpi minimum if scale 1
- ✓ 300 dpi minimum if scale  $\frac{1}{4}$

- With a clear file name (eg : Projetname\_Date.pdf)

## II. Image file assembling

### a. Unique image or simple panel

**Note:** During the manufacturing process, the printed image may experience a dimensional variation of maximum  $\pm 0.55\%$  in length and  $\pm 1.05\%$  in width compared to the original dimensions of the digital file delivered, as mentioned in the EN438 norm. This is why a bleed has to be used as explained in the following pages.



## II. Image file assembling

### a. Unique image or simple panel

- Leave a bleed of 2cm all around the image
- Add the file name in the bleed

Minimum 2cm bleed<sup>(1)</sup>

HPL Panel



Usable printing area<sup>(3)</sup>

File name<sup>(2)</sup>

<b>Delievered sheet size</b>	<b>215 x 97</b>	<b>245 x 124</b>	<b>307 x 124</b>	<b>307 x 132</b>	<b>412 x 151</b>
<b>File's size</b>	<b>215 x 97</b>	<b>245 x 124</b>	<b>307 x 124</b>	<b>307 x 132</b>	<b>412 x 151</b>
<b>Usable printing area <sup>(3)</sup></b>	<b>211 x 95</b>	<b>241 x 120</b>	<b>303 x 120</b>	<b>303 x 128</b>	<b>408 x 147</b>

(1) Except for 215x97 cm sheet size

(2) Same as the one used to name the file in .eps, .tif or .Pdf – short and clear

(3) Delivered sheet size, deducted from the margin area

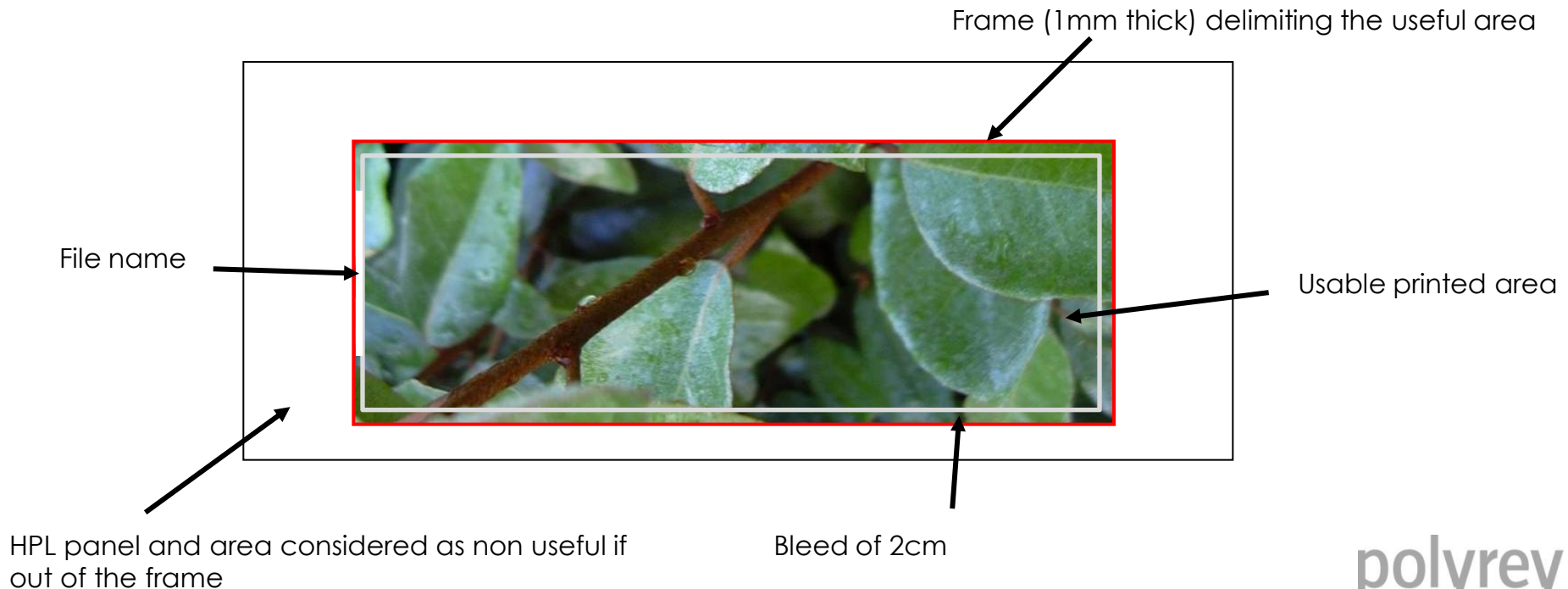
## II. Image file assembling

### a. Unique image or simple panel



In the file, add a frame of at least 1 mm thick around the 2cm bleed and maximum around the delivered Polyrey panel size. This will indicate whether the possible bleed remaining after cutting will be used or not.

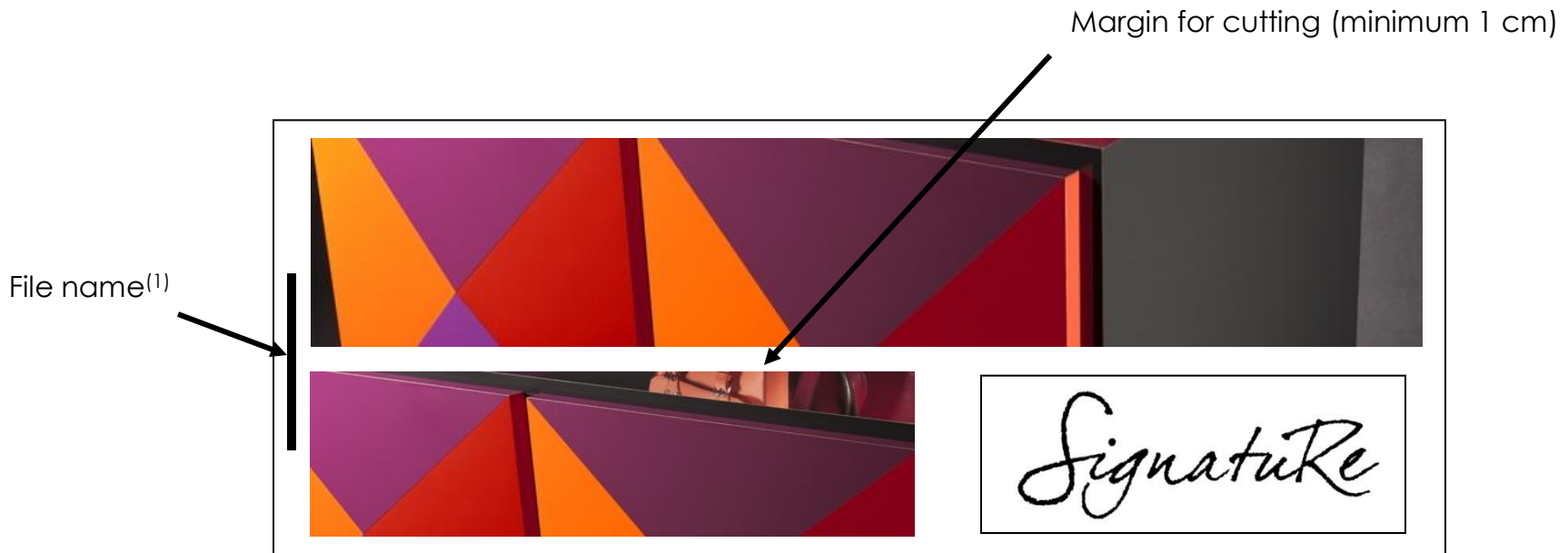
Any area outside this frame won't go through quality check as it will be considered useless once the panel will be cut at the printed image size.



## II. Image file assembling

### b. Multi / mixed images

- Leave a minimum of 1 cm cutting margin between images
- Supply a PDF file presenting the final file, on which panels are identified in order to locate panels during the manufacturing process. (eg: P1, P2, P3...etc)

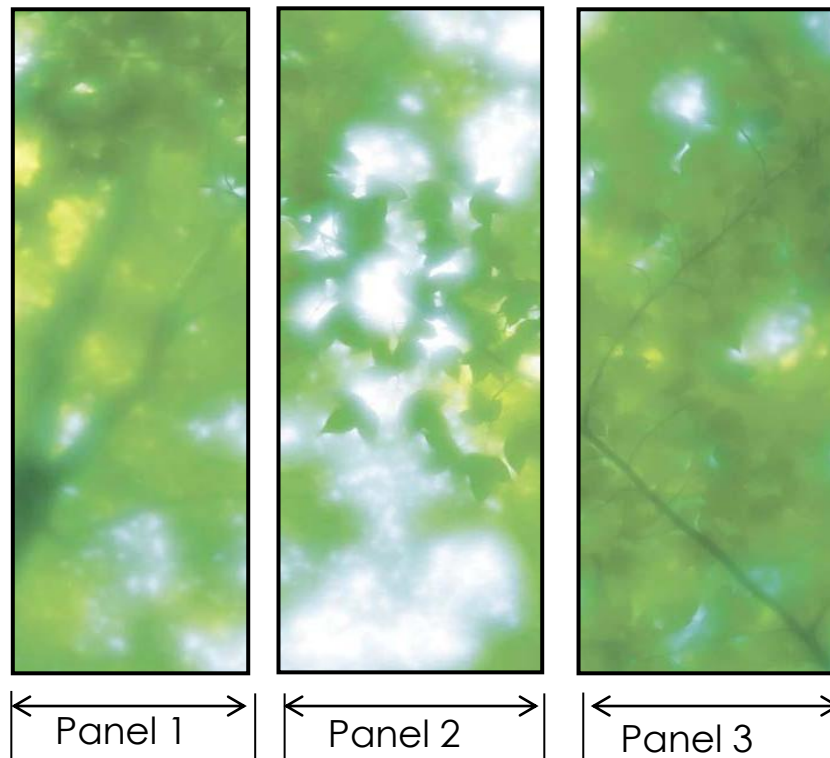


(1) Same as the one used to name the file in .eps, .tif or .Pdf – short and clear

## II. Image file assembling

c. Fresco

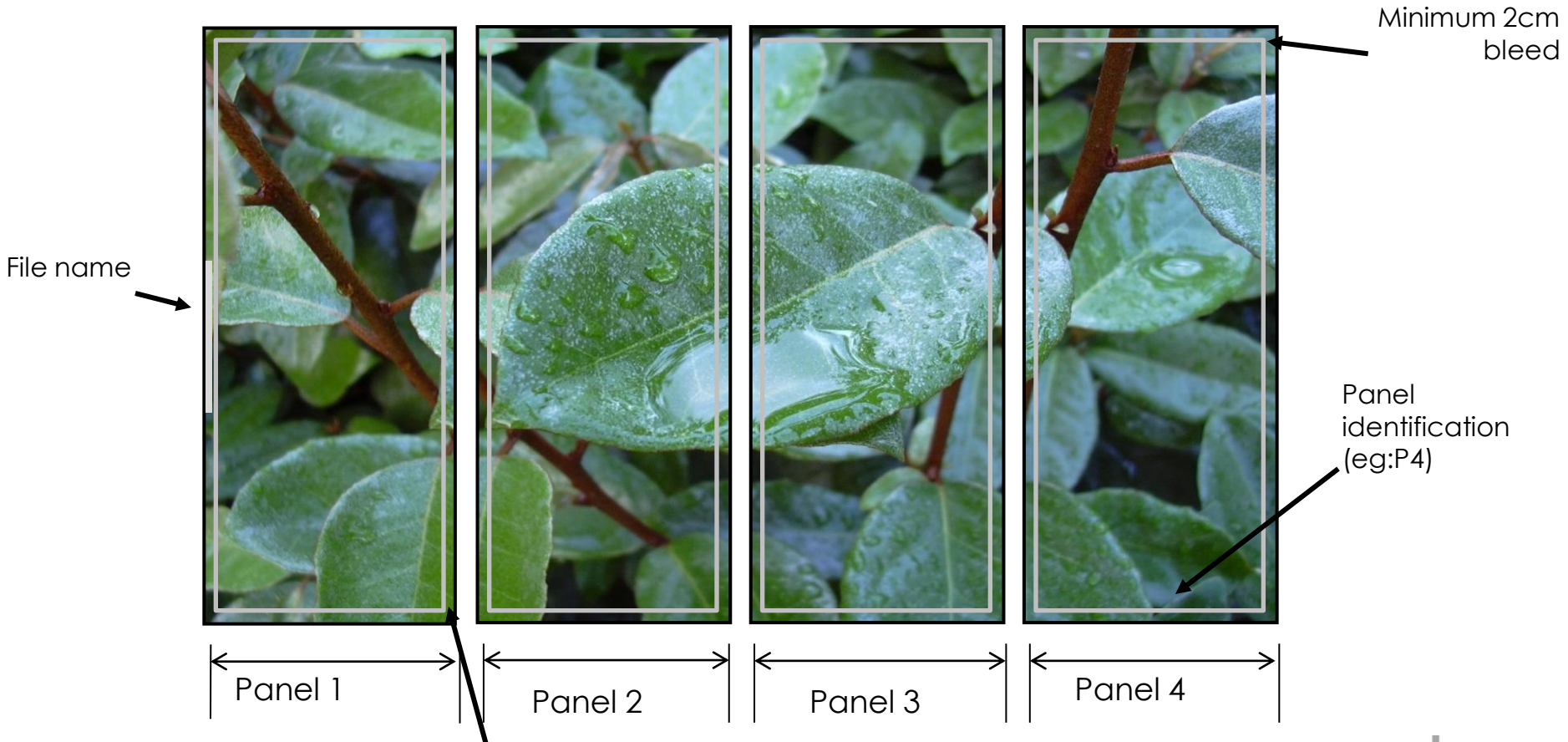
- Cut the image in the number of panels needed for the final configuration. Remember you can put together small areas on one panel (ex: edges).
- Supply a PDF file presenting the final file, on which panels are identified in order to locate panels during the manufacturing process. (eg: P1, P2, P3...etc)



## II. Image file assembling

c. Fresco

The bleed at the panel junction will allow a perfect joint

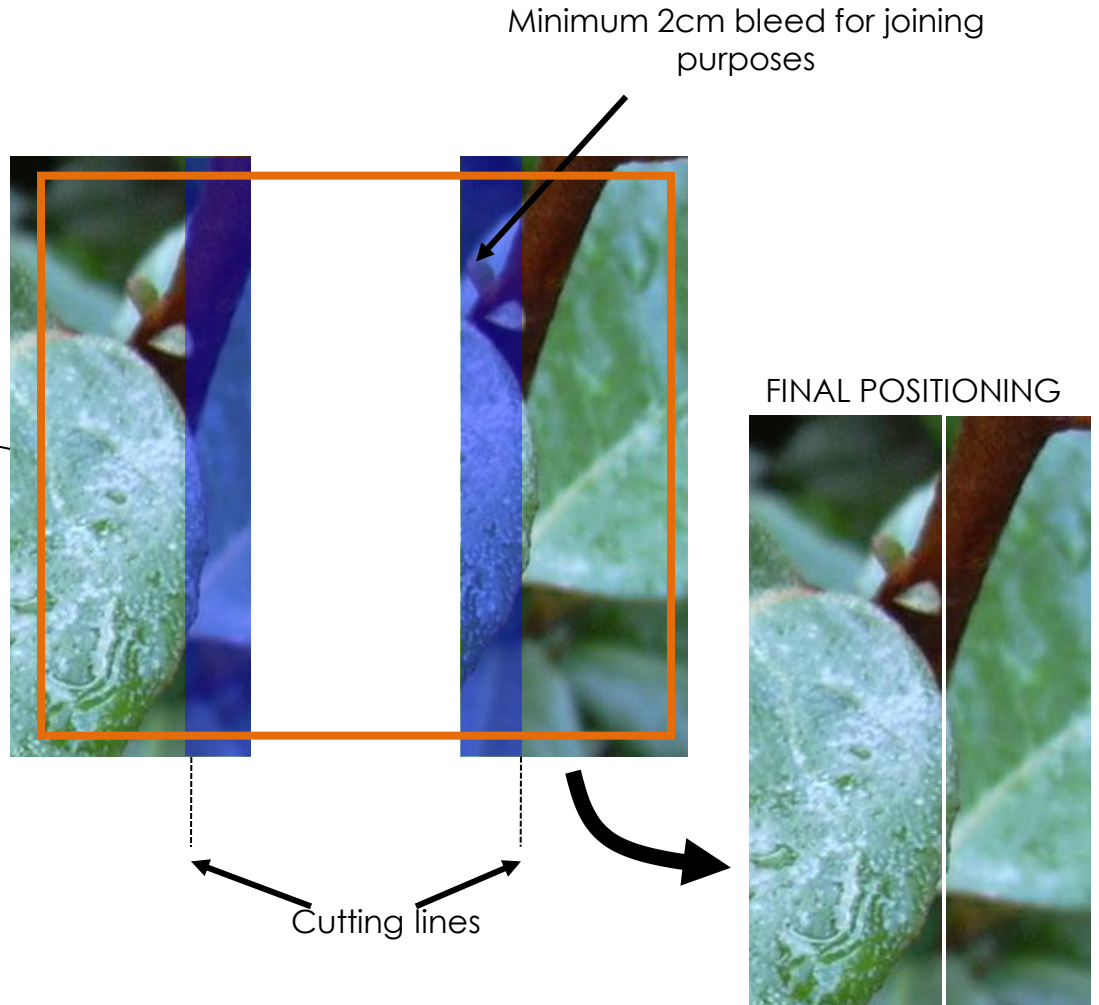
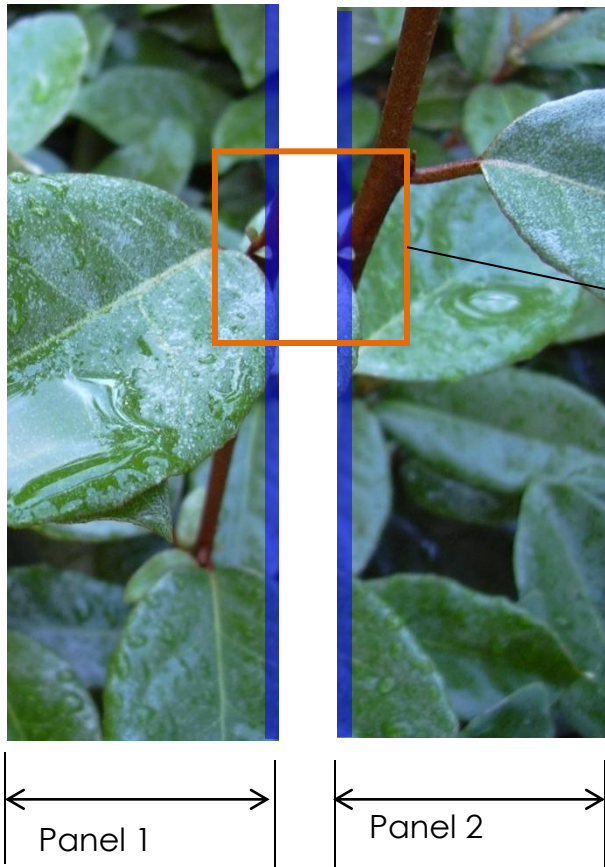


Bleed/overlapping area allowing cutting and joining of the panels.

## II. Image file assembling

c. Fresco

➤ Allow a bleed area

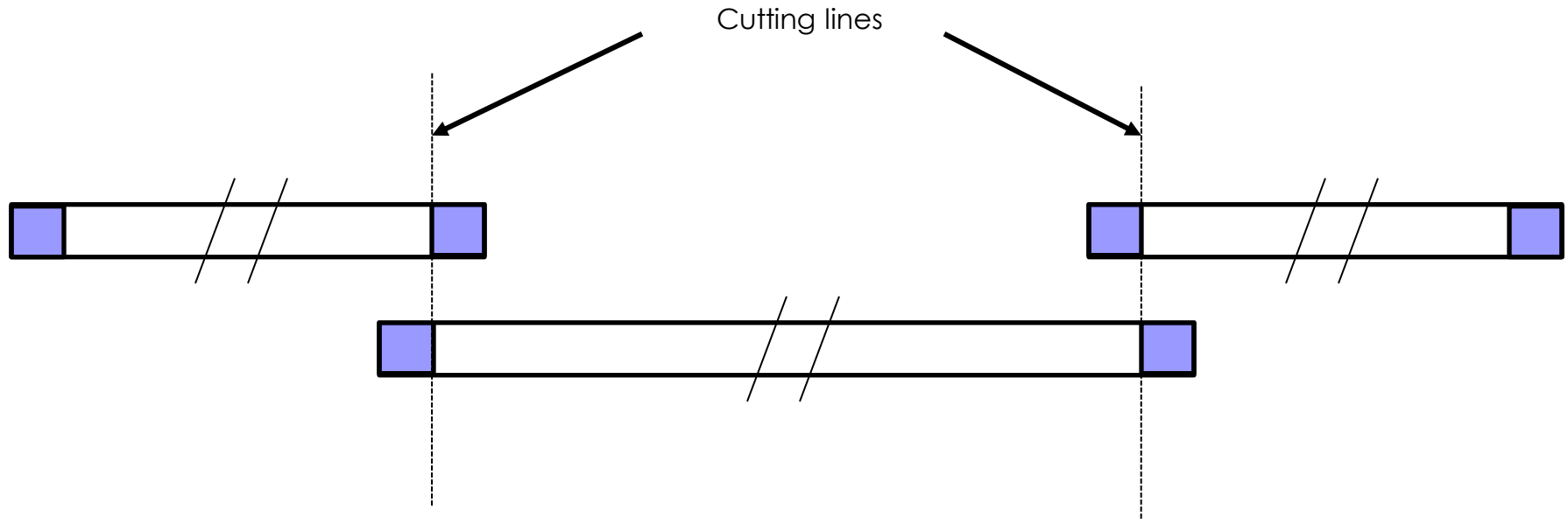


## II. Image file assembling

c. Fresco

➤ **Allow a bleed area**

Fresco assembly – sectional view



 Bleed of 2 cm

 Rest of the panel

## III. Colorimetry

**If a specific colorimetry is required, it is imperative for the target reference to be supplied before the production of the prototype.**

Accepted target colorimetry:

1. Print on matt paper
2. Pantone reference
3. Product sample (sticker, PVC, tarpaulin...)

If you need to send it by post, please mark the sample/print with the project reference and send to the following address:

Polyrey SAS  
Service Signature  
700 route de Bergerac  
24150 Baneuil



Polyrey produces a prototype with a colorimetry as close as possible to the target considering the technical limitation of digital print (inks, papers,...).

A perfect match between the target colour and the print can't be guaranteed.

*Signature*

polyrey

# MAKE YOUR PROJECTS COME TRUE

---

Signature Project Manager  
Mail: [signature@polyrey.com](mailto:signature@polyrey.com)

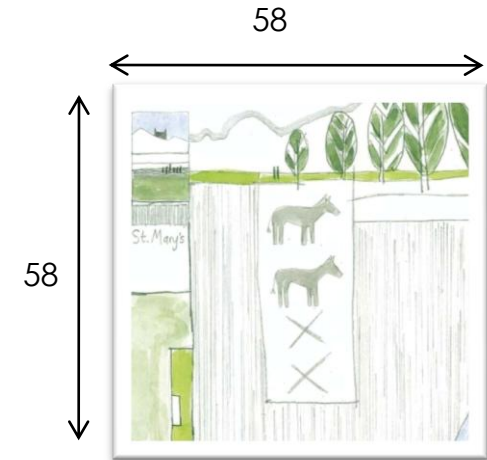


## PROTOTYPE polyrey

### SIZE 58 x 58 cm PROTOTYPE

- Mandatory, no dispensation allowed
- Printed at the final scale
- Production time: 2 to 3 weeks minimum
- Must receive written approval by the client before the order can be validated and manufactured
- Minimum delivery time of 4 weeks once the prototype has been validated

- > Same colorimetry limitations exist due to the printing/manufacturing technology.
- > « Intense » or very saturated colours can't be produced to a quality level equivalent to a laser or offset printer



To request a sample (10x15cm) and visualise the quality of the digital laminate, please contact our Projects Support team:



**UK:** +44 (0) 1923 202700 – [polyrey.uk@polyrey.com](mailto:polyrey.uk@polyrey.com)

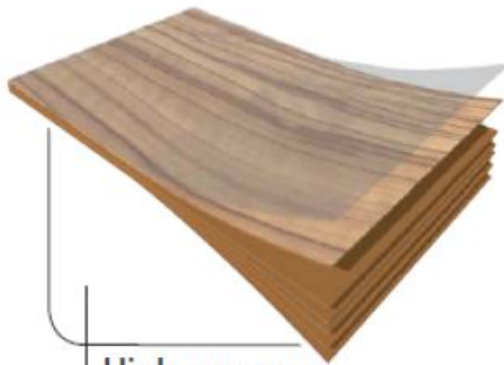
**DE:** +49 (0) 211 90 17 40 – [polyrey.deutschland@polyrey.com](mailto:polyrey.deutschland@polyrey.com)

**NL:** +31 (0) 20 708 3131 – [polyrey.benelux@polyrey.com](mailto:polyrey.benelux@polyrey.com)

**ES:** +34 (0) 932 702 180 – [polyrey.iberica@polyrey.com](mailto:polyrey.iberica@polyrey.com)

**Other countries:** +33 (0) 5 53 76 56 88 – [polyrey.export@polyrey.com](mailto:polyrey.export@polyrey.com)

Polyrey manufactures high-pressure laminate (HPL) which consists of layers of kraft and decorative paper impregnated with thermosetting resins. The combined action of heat (150 °C) and high pressure (75 kg/cm<sup>2</sup>) produces a product with excellent technical properties:



High pressure Laminate

- Excellent impact and scratch resistance
- Durability and strength
- Ease of installation and use
- Variety of decors and surface finishes
- Functional and hygienic in everyday use
- Compliant with environmental standards



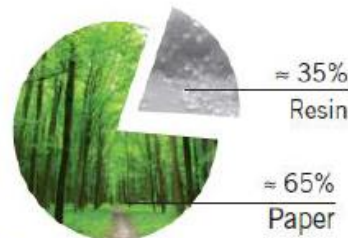
Signature, also available in:



Solid Grade Laminate



HPL bonded boards



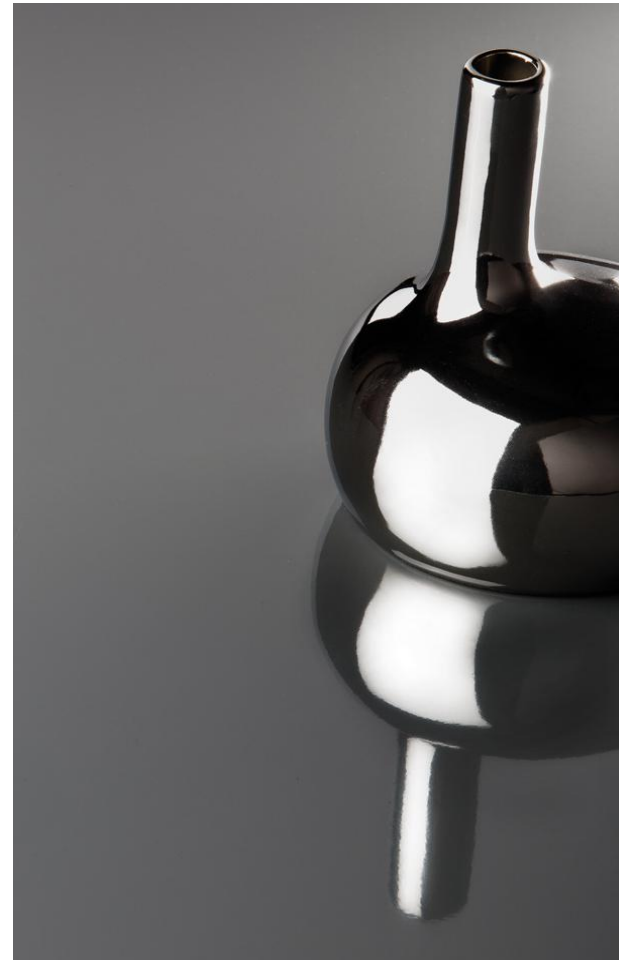
The Polyrey HPL is an **eco-certified product**, as it is composed of 65% paper obtained from renewable wood resources, and respects **European environmental standards**.



FINISHES - TEXTURES

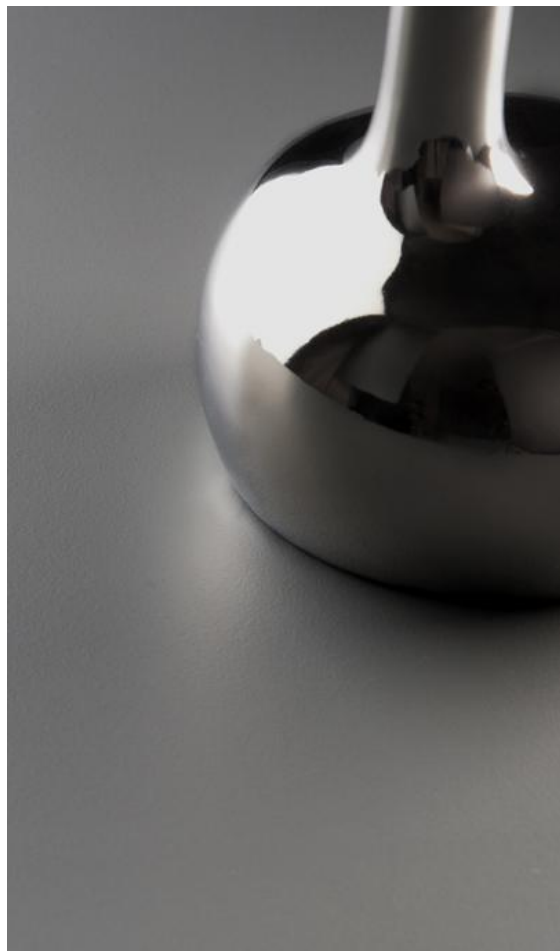


FA Satin / eggshell



BRI High Gloss

FINISHES - TEXTURES



**EXM** Matt



**SURF** Raised grain



**SOFT** Silky

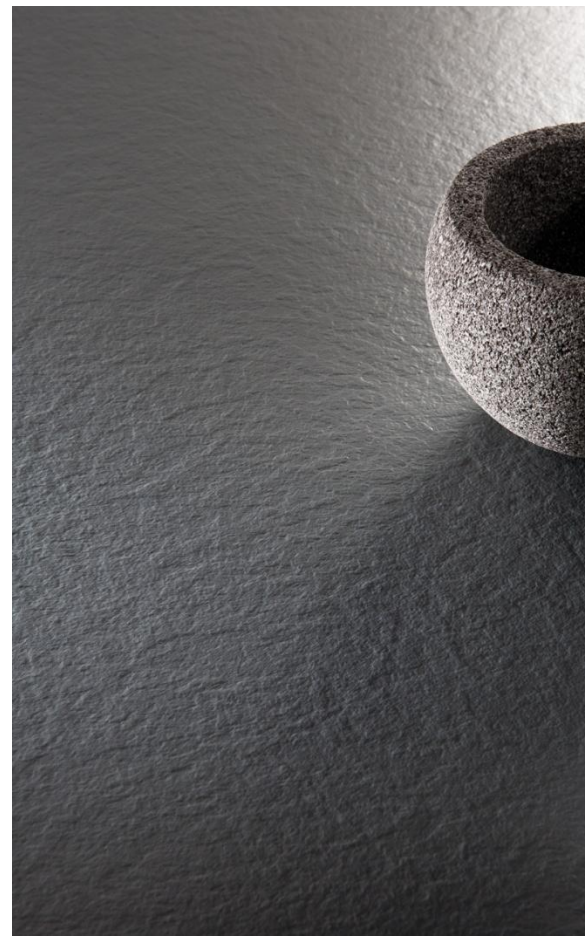
FINISHES - TEXTURES



**ALG** Brushed metal effect

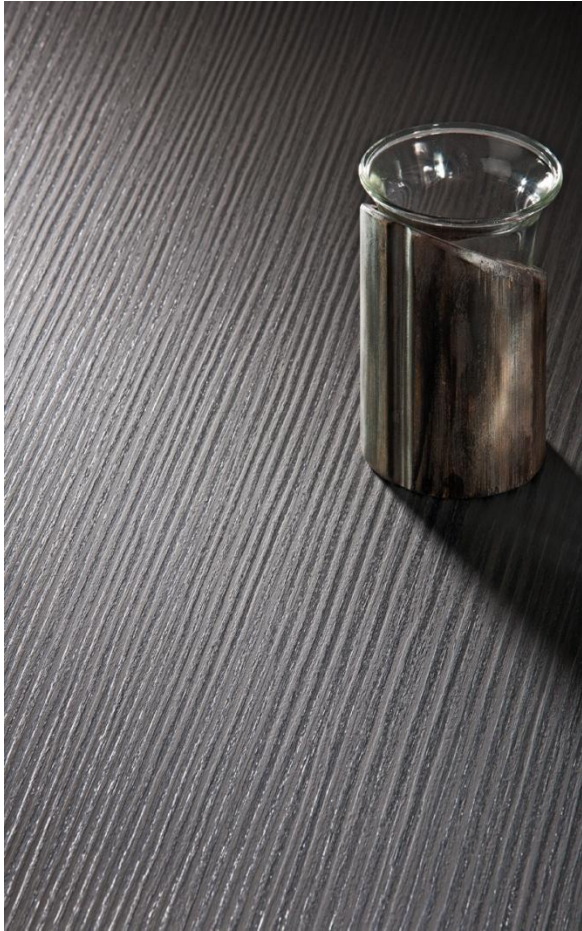


**GRANIT** Textured granite effect



**ROC** Authentic stone effect

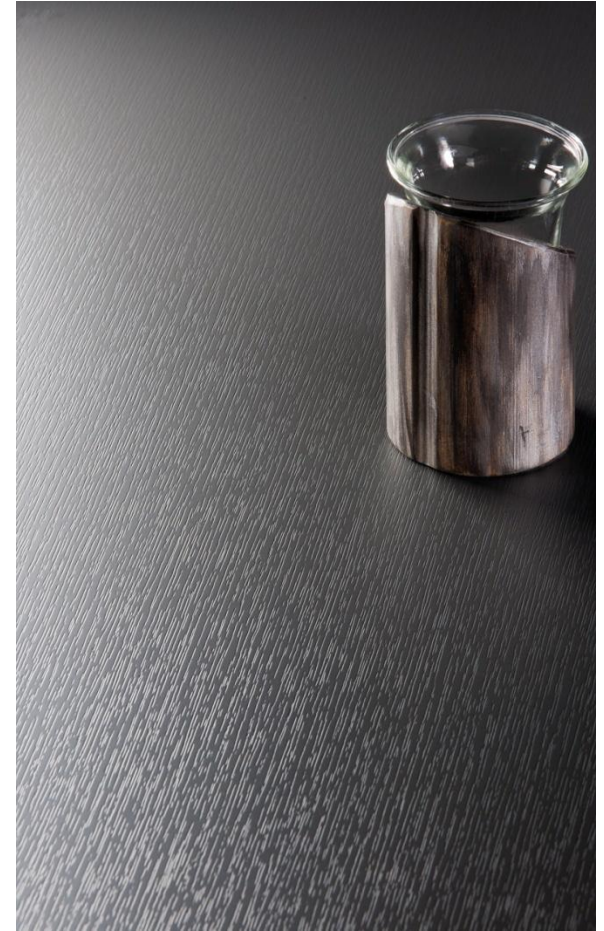
FINISHES - TEXTURES



**LEG** Lined matt & gloss effect



**EPM** Sanded wood effect



**GRAIN** Elegant fine wood grain

## Offer

High Pressure Laminate – Signature on one side			
Size (cm)	Finish	Quality	Thickness (mm)
215 x 97	FA - EXM	Standard and Fire retardant (M1)	0.8
245 x 124	FA	Cold bendable <sup>(1)</sup> and Fire retardant (M1)	
307 x 124	FA		
307 x 132	BRI	Standard and Fire retardant (M1)	1
	BRI		1
307 x 132	FA – SURF – GRAIN – GRANIT - EXM – EPIMAT – SOFT – LEG – ALG - ROC	Cold bendable <sup>(1)</sup> and Fire retardant (M1)	0.8
412 x 151	SURF – SOFT – BRI	Cold bendable <sup>(1)</sup>	

<sup>(1)</sup> Minimum bending radius of 20cm. No postforming grade.

- Note: BRI and EPIMAT for vertical use only

## Offer

### COMPACT – Signature on one side / white backing on the reverse

Size (cm)	Finish	Quality	Thickness (mm)
215 x 97 307 x 124	FA	Standard and Fire retardant (M1)	4 - 6 - 8 - 10 – 12.5

### HPL bonded board – Signature on one side / white backing on the reverse

Size (cm)	Finish	Quality	Thickness (mm)
307 x 124	FA – SURF – SOFT – BRI – EXM – GRAIN – EPM – LEG – GRANIT – ROC – ALG	Standard, Fire retardant (M1) and moisture resistant	19.6

• Note: BRI and EPIMAT for vertical use only