

## GENERAL FILE PREPARATION

### I ORDER PLACEMENT

#### Colour proof and control printout

Please attach a colour proof to your order, e.g. a digital proof, so that we can make any colour corrections if necessary. The colour proof should be clearly labelled as "Farbvorlage" (colour proof). We also recommend a control printout for level control.

#### Data carriers

The following data carriers are possible: DVD, CD-ROM, USB sticks and FireWire and USB hard drives.

#### Data transfer: Upload-Box

For files up to 2 GB please use our Upload-Box [www.upload.grieger.com](http://www.upload.grieger.com). Please contact us for an individuell ftp-account for even larger files.

#### Email

You can get the e-mail address for data transfer from our customer consultant: [info@grieger.com](mailto:info@grieger.com)

#### Programmes and file formats

All common Mac-based programmes, preferably from the Adobe Creative Cloud and its open file formats, are possible. Include all of your placed artwork, logos and fonts if you send us open files. EPS, TIFF and JPEG file formats are also possible. Please discuss these with us beforehand as each have peculiarities which need to be taken into account! If you would like to send us PDF files you have to make sure that all ICC-Profiles are correctly embedded. Only overall color corrections are possible with PDF files.

All our printers run on rip's with the original Adobe APPE. This means colormangement and calculating transparencies will be equal to the engine running in the Adobe Software. Be careful with upscaling when you are working with transparency effects when exporting PDF files! You can use RGB or CMYK color mode with correct ICC-Profiles attached. If these are missing we will use "ISOcoated\_v2\_eci" or "eciRGB\_v2" depending on the color mode.

You may use spot colors like Pantone or HKS. These colors will be converted into the output colorspace the best way possible.

#### Aspect ratio

Please lay out your files proportional to the desired output size (including bleed allowance).

## Bleed allowances

Depending on the printing process and further processing, we require different bleed allowances:

- for all digital print processes and photographic exposure: all round at least 2mm
- for subsequent lamination or carrier material: all round at least 5 mm
- for acrylic glass sealing in Diasec® process: all round at least 10 mm
- for light box motifs: please discuss with our advisers

**PLEASE NOTE:** If there is no bleed allowance in your file, we will have to slightly enlarge the image, and as a result important elements of the image might have to be cropped!

## II FILE PREPARATION FOR DIGITAL PRINTING

### Print process

We work with the following print processes in digital printing:

**UV Direct printing:** Piezo inkjet printing with UV-light-hardened inks, frequency-modulated grid in CMYK mode plus white, plate size to max. 250 x 4 x 305 cm (print resolution up to 1080 dpi)

**Environmentally-friendly latex printing:** Thermal inkjet printing with water-based latex inks, frequency-modulated grid in CMYK mode, roll width to 260 cm (print resolution 1,200 dpi)

### Resolution

Pixel-oriented images should achieve 200 dpi resolution with 1:1 end format. For fine-art printing at least 300 dpi are recommended. The prices stated in our price list apply when printable files are delivered. In order to save you time and costs, the layout of your files should be as follows:

### File size

Please lay out your files where possible in final image size, with a resolution of 200 dpi for digital printing or 300 dpi for fineart printing. If a file layout in 1:1 end format is not possible, a ratio of 1:10 is recommended. For formats over 10 m<sup>2</sup> a resolution of approx. 100 - 150 dpi in end format will suffice. If the resolution of the images used is below 72 dpi in end format, undesirable pixel structures may be visible in the printout!

Example:

Final Image size of the print:  
120 cm Breite x 100 cm  
Layout of the file (1:10):  
12 cm wide x 10 cm  
Resolution: 2000 dpi

## III FILE PREPARATION FINEART PRINTING

**FineArt printing:** Inkjet printing with pigment inks, 12 colours, max. roll width 60 inches = 1.524 m (print resolution 2,400 x 1,200 dpi)

### RGB Colour space

For fine-art printing your files must be defined as RGB colours. Our preferred colour space is „eciRGB\_v2“ (download at: [www.eci.org](http://www.eci.org)). Please do not convert existing CMYK files into RGB, our image editing experts will convert them for you.

## IV FILE PREPARATION PHOTOGRAPHIC EXPOSURE

### Resolution

For fineart printing 300 dpi with 1:1 display size are recommended.

### Print process

Gridless laser exposure (Durst Lambda or Océ LightJet) on photographic materials, such as semi-matt and glossy photographic paper and clear and opal slide materials.

### Paper formats

Durst Lambda: max. 127 cm x roll length

Océ LightJet 500 XL: max. 180 cm x 300 cm

### RGB Colour space

For photographic exposure, your files must be defined as RGB colours. Our preferred colour space is „eciRGB\_v2“ (download at: [www.eci.org](http://www.eci.org)). Please do not convert existing CMYK files into RGB, our image editing experts will convert them for you.

### Resolution

For photographic exposure 300 dpi with 1:1 display size are recommended.

### Optimum File Sizes

Examples for file sizes RGB:

Format	200 ppi	300ppi
DIN A6	2,76 MB	6,20 MB
13 x 18 cm	4,15 MB	9,34 MB
DIN A5	5,51 MB	12,4 MB
20 x 25 cm	8,87 MB	20,0 MB
DIN A4	11,1 MB	24,9 MB
DIN A3	22,1 MB	49,8 MB
50 x 60 cm	53,2 MB	119,8 MB
60 x 80 cm	85,1 MB	191,6 MB
100 x 100 cm	177,4 MB	399,1 MB
100 x 150 cm	266,1 MB	598,7 MB
120 x 200 cm	425,7 MB	957,9 MB
200 x 200 cm	709,5 MB	1,56 GB
200 x 300 cm	1,04 GB	2,34 GB