# PRINTING AND ENGRAVING SPECIFICATIONS

## 1.0 Laser engraving and screen printing

### 1.1 LOGOS FOR LASER ENGRAVING AND SCREEN PRINTING

**File format:** .eps, .ai, .pdf
**Colour:** 1c (for laser engraving) / max 4c (for screen printing)
**Colour definition:** (screen printing): Pantone, RAL HKS

**Please note!** The logo file must not contain any pixel data. Lines under 0.1mm contour thickness cannot be realized due to production reasons. We cannot process bitmap files.

### 1.2 SERVICE FOR DATA PREPARATION

If pixel data is only needed for the production, we will convert it into vector data, usable for the production. In this case, please provide us with a .jpg or .tiff of the logo in the highest possible resolution. Please note that any existing multicolour printing cannot be taken into account for laser engravings. You will receive information on the scope of the data preparation and be invoiced with the costs.

### 1.3 FONTS AS VECTOR FILES FOR LASER ENGRAVING AND SCREEN PRINTING

**File format:** .eps, .ai, .pdf
**Colour:** 1c (for laser engraving) / max 4c (for screen printing)
**Colour definition (screen printing):** Pantone, RAL HKS

**Please note!** The logo file must not contain any pixel data.

### 1.4 FONTS AS TEXT DRAFT FOR LASER ENGRAVING AND SCREEN PRINTING

**Colour:** 1c (for laser engraving) / max 4c (for screen printing)
**Colour definition:** (screen printing): Pantone, RAL HKS

**Please note!** Please add the used font to your text as a file (.ttf, .otf).

## 2.0 Design templates for packaging in digital printing

### 2.1 LOGOS FOR DESIGN TEMPLATES

**File format:** .ai, .eps, .jpg, .tiff
**Colour:** CMYK
**Resolution for pixel data: (.jpg, .tiff)** at least 300 DPI in original size

**Please note!** We recommend you deliver your logo in a vector-based file format without integration of additional pixel data (.ai,.eps, .pdf). This is the only way to ensure the best print quality / sharpness for your logo (1,200 DPI). If a production with pixel data (.jpg, .tiff) is necessary, the print quality / sharpness is slightly lower (300 DPI).

### 2.2 SERVICE FOR DATA PREPARATION

If you only have screen logos or the like, we will be happy to convert them into print data that can be used for production. Please note that colour differences may occur.
You will receive information on the scope of the data preparation and be invoiced with the costs.

## 3.0 Doming sticker

### 3.1 PRINT TEMPLATE FOR DOMING STICKERS

**File format:** PDF / X3
**Colour:** 4/0, CMYK
**Printing profile:** ISO coated V2
**Bleed allowance:** 1 mm circumferential
**Resolution:** at least 300 DPI, max. 1.200 DPI

**Please note!** For best printing results all image elements should have a resolution of 1.200 DPI. This resolution should also be considered when the PDF is created.

## 4.0 Individual lithographs for packaging in digital printing

### 4.1 PRINT TEMPLATES FOR DIGITAL PRINTING

**File format:** PDF / X3
**Colour:** 4/4, CMYK
**Printing profile:** ISO coated V2
**Bleed allowance:** 3 mm circumferential

**Please note!** For digital printing, no die-cutting or folding contours are required, as in contrast to offset production **no fill height** and **no product slits** exist. The tools are applied by means of adhesive dots.

## 5.0 Individual lithographs for packaging in offset printing

### 5.1 PRINTING TEMPLATES FOR OFFSET PRINTING

**File format:** PDF / X3
**Colour:** 4/4, CMYK
**Printing profile:** ISO coated V2
**Bleed allowance:** 3 mm circumferential

**Please note!** In our templates / cuttings for individual packaging in offset printing, die-cutting and folding contours are included. These are already in the corresponding spot colours and overprint. Please do not change these contours!

## 6.0 Further information

If you have any questions about the printing and engraving specifications, please contact our sales service by email or telephone.

Our cuttings and production templates can be found below:

***richartz.com/productiontemplates***

RICHARTZ
DAS ORIGINAL
*SEIT 1900*

RICHARTZ
EINE MARKE DES JAHRHUNDERTS
*A BRAND OF THE CENTURY*