

Card Print at TAGnology RFID GmbH

Overview of provision of data for card layout

To ensure a smooth process in the preliminary stage and in the production of your card, following points must be observed in preparing the data.

Although the card printing technology is to be treated in no different way than other printed materials, but some specific things has to be considered.

Quick Guide

1. Printing process

I. offset printing

in 80 grid pattern (150lpi) with process colours (4-c colour) (C) Cyan, (M) Magenta, (Y) Yellow, (K) Black or spot colours (Pantone)
Registration accuracy: min. 0,10mm
Screen angle: Y = 0%, C=15%, K=45%, M=75%

II. screen printing

up to max. 28er grid pattern (60lpi)
Use in full surface pressure (covering), metallic colours (e.g. gold or silver), and even of printing of writing fields. With a combined screen / offset printing the offset design should always overprint the screen printing.

2. Artwork

Digital data (always original files)

- On a scale of 1:1 incl. all graphics (TIFF, EPS...) and all fonts you want (please create a separate file)
- Fonts must be PostScript capable (maybe converting into vector graphic)
Programs and formats (Macintosh/Windows) should be created with a resolution of 600 DPI
- Please adjust date file.

Preferred artwork: *printable PDF file*

Following points are important when you create your card design:

- Note at your map scale all punch marks and register marks at your graphic data.
- When illustration runs off the edge of the trimmed page the pressure has a bleed or a congestion of at least 2.5mm | 3 mm; which has to be applied to all sides of the card.
- Logos, images and texts should be positioned at least 2,5mm of card edge or magnetic stripe or write fields.
- Magnetic stripes, writing fields, chip modules, borders (card size), holograms and other improvements must not be applied in the data.
- Please forward us writing fields (you'd like to write with ballpoint pens) with a separate file.
- For gaps which have to be printed in a different colour, please consider a printing and manufacturing tolerance of at least 0.2mm.
- Colour specification in (K) or Pantone (C)- not RGB – encoded!
- When printing in process colours please forward us always your colour proof or proof.

Detailed Information

Suitable Program

Data from these programs could be processed by TAGnology (always PC not MAC!) MAC files only possible after agreement of TAGnology!

- Adobe InDesign CS up to version CS3
- Adobe Illustrator CS up to version CS3
- CorelDraw X3
- Adobe Photoshop up to version CS3
- PDF (up to version 1.3, especially PDF/X3 – format fonts always has to be embedded!)

If you work with other programs like above mentioned, please check in advance if TAGnology could process this data.

We could not process layout templates from text or presentation programs such as *Word®* or *PowerPoint®* or from *CAD-Programs* such as *AutoCad®* or *Designer®*.

Data transfer

The data could be forwarded to us with following media:

Electronic

Email: office@rfid-webshop.com

or directly to your contact person

Postal

TAGnology RFID GmbH

Grazer Vorstadt 142

A-8570 Voitsberg

AUSTRIA

data medium: CD-ROM, DVD-ROM

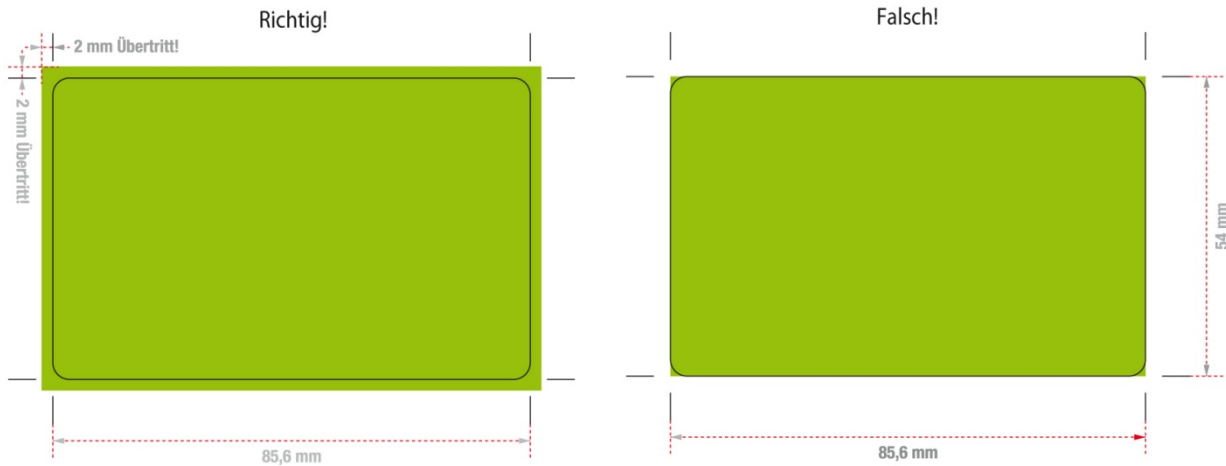
Colour

- If colours are printed as spot colours, please defined them even in the respective programs (e.g. Pantone, HKS,)
- Otherwise you have to defined all colours you created as process colours (CMYK).
- Please make sure that same colours were not named in two different ways (e.g. HKS 15 K and HKS15K), as they appear and interpreted in the file as two different colours.
- Attention: Make sure that the colour mode in Illustrator even is adjusted of CMYK. When you create special colours please ensure that they are even in CMYK colour mode!
- Data, which include RGB-colours, must be converted to CMYK. Please pay attention, that trough this conversion - from RGB to CMYK - colours can variegate! Therefore, the layout has to be forwarded in CMYK mode to us.
- If black coloured text on surfaces should be overprint or for a rick black colour in areas or in very large black text the max. colour application should be 300% (eg C50/M30/Y30/K100) or less.

Please note: The screen display is not the right colour match (except on color-calibrated monitors)! For the colour in your document, you can control it in using a colour chart or colour book or you order a colour proof.

Edge trim

For elements which run off the edge (images, gradients,...) the pressure has a bleed or a congestion of at least 2.5mm | 3 mm; (see example). Texts should not be placed closer than 2-3mm to the final format.



Fonts

Is a conversion of fonts to paths not possible (the complete data, changes,...) we ask you to consider the following:

- Fonts with an open file has always to be enclosed when you send them; is this, regarding licensing issues, not possible or we do not have to intervene in the layout (changes, additions, ...) you have to vectorize even the font!
- Layouts which include strange fonts (Cyrillic, Arabic, Chinese,...) should always be vectorized

Program- or file-specific settings

Adobe Illustrator

Please make sure at open Illustrator files that the document fonts are included or converted to paths.

All images used in the layout must also be included, or be embedded with high resolution in the document.

Adobe Photoshop

Please only forward us following formats: PSD, TIFF, EPS. The resolution must be at least 300 dpi. If you use images from the Internet, they have a resolution of 72 dpi and are not reproducible for print.

The color mode should be (except for duplex, grayscale images, etc.) CMYK, we could not accept RGB images in any case.

Clipping paths must be saved for EPS export.

Adobe InDesign

Make sure that for open InDesign files the document fonts are included or converted to paths.

Even the images used in the document must also be included, or be embedded in the document.

Transmission as PDF – file

If there are no further changes should be done at the layout, please transmit the layout as PDF file. The PDF should correspond to PDF X1a or PDF-X3 standard. The required settings can be found on the following pages. This standard is the easiest and safest way to create a PDF file safety for production.

You can only edit very limited in PDF files, if we receive them they will be treated as print-ready documents.

If the layout has to be changed after we receive the PDF file, there always can be problems to edit the file. In that case the file must be opened again in a standard layout program, which can lead to problems. If the file can be opened and even edit, it depends at what program the layout and even PDF file was created.

Guide to create a print.pdf file

To ensure a smooth process for your card print production, please pay attention to the following points when creating the print PDF.

PDF/X-1a export from a standard layout program

To avoid problems at print and / or to avoid in pre-press, forward us your layout file as PDF/X-1a with 2-3 mm bleed difference.

The PDF / X standard was specifically defined for the submission of artworks, where X-1a provides, that the file only contain CMYK or spot colors and the fonts are embedded and the transparencies have been flattened.

Adobe InDesign

Step 1:

Please choose after creating your document "File Export".

As a default in General menu, select "PDF / X-1a.

All other options leave unchanged

Step 2:

The "compression" can be skipped.

In the "marks and bleeds" select "crop marks", as "offset" setting

contact 1.5 mm and as cut 2-3 mm on each edge (if you not already chosen this in the document setting and the document is low).

Step 3:

Now, your InDesign document will be issued. For all other settings in the InDesign PDF export menu, the default values are maintained. Of course, you should to get (depending on monitor calibration, output medium, etc.) exact colour values in print, your settings in colour management have to be correctly (starting with CS2 version). (Edit - Color Settings)

If you forward us your artwork as an InDesign file and not as print PDF file:

In that case please pack your InDesign file. The file include and pack in that way all links (images, fonts, etc.) – so that we could open the artwork or file after we receive them from you.

Note: The record and reproduction costs are charged according to expenditure.

For errors in supplied data/files/artworks and the consequences resulting therefore shall not be liable to TAGnology RFID GmbH.

For further information or questions please do not hesitate to contact us.

Your TAGnology Team

