

TECHNICAL GUIDELINES FOR DATA DELIVERY

UPDATED: 12 DECEMBER 2024

Valid for the SCHELLING Group and its subsidiaries.

Dear valued customers

In our data delivery guidelines, we show you the most important points to be observed when creating and delivering your data. This ensures efficient processing of your data in our workflow.

Optimal cooperation with our customers for the production of flawless print products is a central concern for us.

When delivering data for the first time, we recommend that you provide us with test data in advance. If additional work is necessary, we will discuss the further procedure with you. Please do not hesitate to contact us for assistance and information.

Prepress- and printing specific information on data delivery

Printing methods

Offset printing, flexo printing, relief printing, digital printing, LFP printing (Large Format Printing)

Screen rulings

Offset printing: 34, 54, 60, 70 lines per centimetre and FM screen rulings

Flexo printing: 16, 24, 28, 34, 40, 48, 60 lines per centimetre screen ruling

Programs

Adobe CC, ArtPro, Microsoft Office, QuarkXPress

Data transfer

FTP (access data available on request)

E-Mail (up to max. 10 MB)

DVD / USB stick / external hard drive

Proof

For a colour-fast reproduction in print, we require a binding proof on coated or uncoated paper with placed and valid measuring element.

We would be very happy to produce a binding colour proof for you. A proof is always only an approximation of the printing result and not a 100% colour reference.

We cannot guarantee to achieve the desired reproduction of colours in printing for data delivered without a proof.

PDF/X-4

Please create a PDF/X-4, in Acrobat 3.0 (PDF 1.3) no layers are supported, they are reduced to the background layer, additionally this version also does not support graphics with live transparency effects (see www.pdfx-ready.ch). Delivered PDFs are considered «good for print» after consultation. Costs incurred due to incorrect die-cutting, document build-up, print stoppage if colour proof is not achieved, etc., must be invoiced. You can, however, instruct us to subject the data to a brief check against payment of the additional expenditure.

Delivery of open-format data

- Open-format data should only be delivered if corrections still need to be made by us.
- Microsoft Office files are not suitable as printing data.
- The conversion of documents in older versions may result in wrapping or conversion errors.
- All fonts used shall be supplied including the complete character set.
Before passing on fonts, the legal situation must be taken into account.

Pantone colours

If Pantone colours are converted into CMYK colours before the printing process, perceptible colour differences may occur, depending on colour tone.

Pantone colours are simulated in the proof and may deviate from the original colour tone.

Barcode

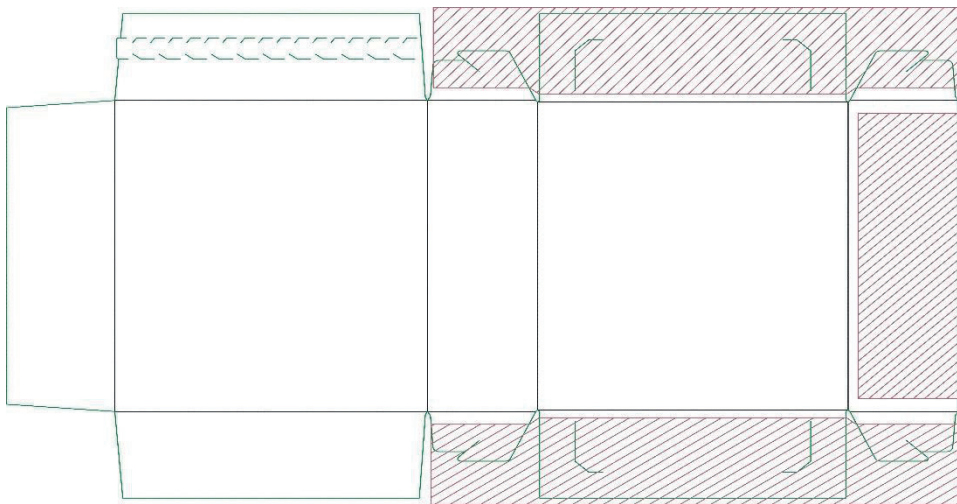
If no barcode is used in reproducible data, a correspondingly large placeholder must be created. This is given a solid colour with the name «barcode». Furthermore, the type and size of the coding to be used must be specified. If a barcode is used, the following must be observed: Barcodes must not be smaller than 80% (Flexo not smaller than 110%), coloured in a dark colour and placed on a light background. The barcode should be checked for readability. Basically, the GS1 guidelines must be adhered to. In print-ready data, the data manufacturer is liable for any necessary post-processing of the barcode, e.g. due to unreadable codes.

Punching contour

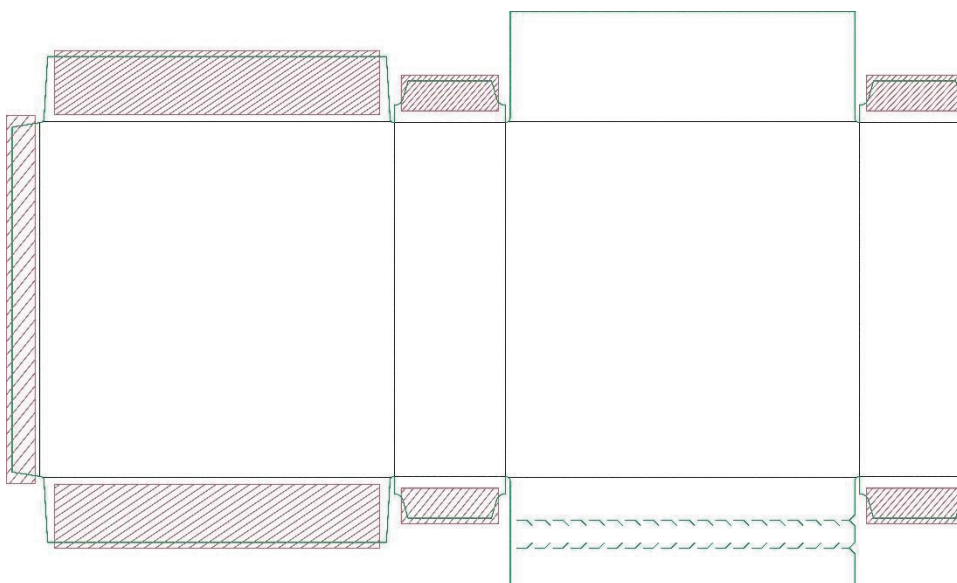
For optimal data processing, the binding print data file must be taken from the digital punching contour created by us. The punching contour must be requested before the print data is created and must be created in the file on its own layer with its own solid colour and the level designation «CAD» or «Stanze».

- We can provide you with the die-cutting contour data in the file formats .pdf, .eps or .cf2.
- The trim allowance (image canvas beyond the punching line) is at least 5 mm.
- The line thickness of the CAD should be 0.7 mm.
- The document size = CAD size + 20 mm in width + height (CAD must be exactly centred).

Example 1: Folding box blank (red marked area = ink and varnish free)



Example 2: Glued folding box (red marked area = ink and varnish free)



Requirements for print-ready data

| Printing process | Offset printing | Flexo printing label | Flexo printing corrugated board | Digital printing | Digital LFP printing |
|-----------------------------|---|------------------------------|---------------------------------|---|---|
| ICC Profil coated | PSO coated v3 300% | PSO coated v3 300% | PSO coated v3 300% | PSO coated v3 300% | PSO coated v3 300% |
| ICC Profil uncoated | PSO uncoated v3 (Fogra52) | PSO uncoated v3 (Fogra52) | PSO uncoated v3 (Fogra52) | PSO uncoated v3 (Fogra52) | PSO uncoated v3 (Fogra52) |
| ICC Profil FM | PSO coated v3 300% | – | – | – | – |
| Minimum line width pos. | ☐ 0,15 mm | ☐ 0,2 mm | ☐ 0,2 mm | ☐ 0,2 mm | ☐ 0,2 mm |
| Minimum line width neg. | ■ 0,15 mm | ■ 0,2 mm | ■ 0,5 mm | ■ 0,2 mm | ■ 0,5 mm |
| Minimum font size pos. | ☐ 3 pt. ⁽¹⁾ | ☐ 3 pt. ⁽¹⁾ | ☐ 8 pt. | ☐ 3 pt. ⁽¹⁾ | ☐ 8 pt. |
| Minimum font size neg. | ■ 5 pt. | ■ 5 pt. | ■ 10 pt. | ■ 5 pt. | ■ 10 pt. |
| Minimum tonal value | 2% | 3% | 3% | 2% | 2% |
| Bleeding | Automatically by RIP | 0,1–0,2 mm | Automatically by RIP | – | – |
| Cropping | 3 bis 5 mm | 2 bis 3 mm | 5 mm | 3 bis 5 mm | 5 mm |
| Half-tone image resolutions | 300 ppi (min. 220 ppi) | 300 ppi (min. 220 ppi) | 300 ppi (min. 150 ppi) | 300 ppi (min. 150 ppi) | 300 ppi (min. 150 ppi) |
| Bitmap image resolutions | 2400 ppi (min. 800 ppi) | 2400 ppi (min. 800 ppi) | 1200 ppi | 1200 ppi (min. 800 ppi) | 1200 ppi (min. 800 ppi) |
| Maximum colour application | regulated by ICC-profile ⁽²⁾ | 320% | 320% | regulated by ICC-profile ⁽²⁾ | regulated by ICC-profile ⁽²⁾ |

⁽¹⁾ By agreement down to 1 pt. (microprint).

⁽²⁾ The customer does not need to observe the maximum colour application.
SCHELLING AG and Birkhäuser+GBC AG employ specialised software for reduction.