



# printer

## TRENTO

### Bleeds/layout

There should be at least 3mm of bleed for the interior pages. For any other element we will give you a layout based on the size, number of pages, material and type of binding.

### Images

The recommended resolution for CMYK or greyscale images is 300 dpi (minimum resolution of 150 dpi). For bitmap images, the suggested resolution is 1200 dpi.

The final PDF file should include only CMYK images; any RGB images must be converted in four-colour process.

Ensure also that there are no images with a pre-existing FM screen.

### PDF Files

Please provide PDF/X-1a, PDF/X-3 or PDF 1.4 files, complying with ISO12647-2 standard.

Please provide just one PDF file for the inner pages of the book, set up as single pages (not double page spreads). If you need to separate the files, name them according to the pages contained, e.g. 001-020.pdf, 021-039.pdf. In case of further corrections, provide a PDF file for each page, named accordingly.

Other elements (such as cover, jacket, or case) must be supplied PDF as one page for the outside and one page for the inside, if printed.

For end papers we require one file for the front, and if different, one for the back end paper.

In case of co-editions, provide a PDF file with the base colours CMYK, and a separate file for each language change.

### Text/Font

The font must be included in the PDF file. We suggest not to include text as image (but if necessary the recommended resolution must be respected for the bitmap images) and to not set the black text out of 4 colours.

*In order to obtain the best printing results and to maintain safe and efficient data processing, please take account of the following guidelines before providing PDF files to be used for printing.*

### Colour Management – ICC Profiles

For the conversion of images and the production of colour proofs please use the correct ICC profile in accordance with the ISO 12647-2 standard: ISOcoated\_v2\_300\_eci for coated papers, and PSO\_Uncoated\_ISO12647\_eci for offset paper, which can be found in the file archive ECI Offset 2009, on the website [www.eci.org/en/downloads](http://www.eci.org/en/downloads).

The certified colour proofs must contain the Fogra control scale to prove compliance.

### TAC (Total Area Coverage)

During the offset printing process, there is a limit for the ink absorption of the paper. We suggest not to exceed the value of 300% for the ink coverage, as indicated by Fogra and in accordance with the ISO standard.

Some kinds of paper have a substantially inferior limit (for instance all the uncoated papers); for these papers we will give you specific indications depending on the project.

The use of UCR / GCR can help compensate for the absorption limit of the paper.

### Other suggestions

It is advisable to apply UCR / GCR if you include 4 colour black and white images, or grey backgrounds.

We also suggest to strengthen any black elements (backgrounds) with an addition of 40% CMY.

Black elements must be set in overprint.

Please note that elements/lines with width lower than the minimum value for printing of 0.02 mm (thinlines) couldn't be printed or could result thinner than on the plotters and colour proofs.

Do not use any alternative colour space in the PDFs.

Do not use the registration colour for any printed elements.

Do not introduce elements without bleed, too close to the page edge. We recommend positioning no less than 5 mm from the page trim.

In case of tiny, or thin coloured elements and coloured backgrounds with elements set to knock-out, it is advisable to limit the colours to a maximum of three.

*In case of doubts we recommend you send us test PDF files.*