



**LEGATORIA
EDITORIALE
GIOVANNI
OLIVOTTO**

General informations

Legatoria Editoriale Giovanni Olivotto L.E.G.O. S.p.A. is committed to providing a consistent printing service with the PDF files and the color proofs provided.

This document contains some guidelines for the supply of digital materials intended for offset printing. For more detailed information, please contact your L.E.G.O. representative.

The latest version of this document can be found in the support area of the website legogroup.com

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Technical specifications of the PDF file

Characteristics of the PDF file

All pages validated for printing should be provided in PDF format.

The PDF file

- ✓ should have composite CMYK color output (not RGB) + any Spot/Pantone colors so that the number of separations is equal to the number of printing plates/printing colors;
- ✓ should have the fonts embedded in the PDF file;
- ✓ should be a single file made up of several single pages (no facing/spread pages).

The best choice is to generate PDF/X-4:2010 version Acrobat 1.6 with appropriate Output Intent.

Editions and Layers

- Single language printing → generate a CMYK composite PDF file together with the text (no additional layers for the text).
- Co-edition printing → generate a CMYK composite PDF file with black text (5th color) on an additional layer (one layer for each language).
Otherwise generate a single layer PDF file with 5th color black text in overprint.
Use InDesign layers and spot colors to generate a multilevel PDF with spot colors (Acrobat 1.6 version).



Color Profiles and Output Intent

No color profiles should be included or attached to the PDF document to be sent.
L.E.G.O. uses the standard color spaces (PSO and ISO).

If you generate a PDF/X-4 from InDesign, please convert to destination keeping the numerical values and choose the correct Output Intent, that is:

- ✓ ISO Coated v2 300 (Fogra39) for coated papers;
- ✓ PSO Uncoated 12647 (Fogra47) for uncoated papers.

If you are familiar with the revised ISO 12647-2:2013, please choose PSO Coated v3 (Fogra51) or PSO Uncoated v3 (Fogra52) and use a PDF/X-4.

If you do not know which paper will be used, always export the PDF to ISO Coated v2 300 or contact your L.E.G.O. representative.

Bleeds and Margins (ArtBox, TrimBox, BleedBox and MediaBox)

ArtBox delimits the area in which it is safe to place graphics;
TrimBox defines the size of the trimmed document;
BleedBox defines the size of the trimmed document plus bleeds;
MediaBox specifies the width and height of the PDF file.

Adobe Acrobat allows you to view these areas from the menu
Preferences → Page display → Show art, trim, & bleed boxes.

The TrimBox and BleedBox areas of the PDF file should be defined and corrected, while the MediaBox area should be the same for all pages.

- ✓ For interiors, the bleed should be 3 mm (or more) per side.
- ✓ The covers needs a greater bleed. Please refer to the cover template (PDF file with measurements) provided in 1:1 scale by your L.E.G.O. representative.
- ✓ Always add crop marks (printer marks).



Image resolution, enlargement/reduction and compression

Duotone/Tritone printing	→	composite PDFs required
Color images	→	optimal value: 300 dpi (or more) minimum suggested value: 254 dpi
Grayscale images	→	300 dpi (or more)
Lineart and bitmap	→	1200 dpi (or more)
Foil blocking files (PDF), Spot UV files and barcodes	→	vector graphics file required

For maximum quality images should be paginated at 100%.
It is recommended not to exceed the thresholds of 125% for enlargement and 50% for reduction.

Choose ZIP compression or, as a second choice, JPEG at maximum quality.

Texts

Black type should be set up to overprint.
Colored text should be set up to knockout when it runs over color (white text too).
Please contact your L.E.G.O. representative when texts contain:

- ✓ dithered black;
 - ✓ special effects and/or inks (metallics, fluo, etc.).
-

Coverage (Total Ink Limit/Total Ink Coverage/Total Area Coverage)

The suggested coverage is:

- ✓ 300% for coated papers;
- ✓ 280% for uncoated papers.

The maximum amount of the sum of the 4 inks should never exceed:

- ✓ 330% for coated papers;
- ✓ 300% for uncoated papers.

Strong black channel generation is recommended for graytones in CMYK mode.

For solid blacks (e.g. black backgrounds), please use
 $K = 100 + \% C + \% M$ (if possible do not use Y).