

MATERIAL INSTRUCTIONS

LARGE

FORMATS

When submitting printable PDF Materials, please check the following:

1. IMAGE RESOLUTION

Continuous-tone image resolution should follow the limits for 1:1 sized images mentioned below.

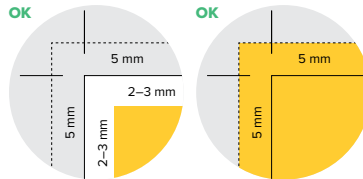
- 72–150 ppi
- for photo paper, 200 ppi
- for large fabrics, 50 ppi

For line art, the recommended resolution is 1200 ppi for all printing methods.

2. BLEED MARGINS 5 MM OK

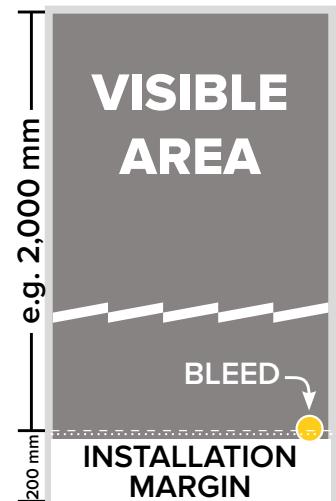
All materials must come with 5 mm bleed margins. Without bleed margins, there may be unwanted white areas on the edges of the printed product.

- for one-sided prints, 5 mm
- for two-sided prints, 10 mm
- note: **rollup materials** must have a 200 mm **installation margin**
- Sewing margins for different post-treatment methods:
 - Clean cut fabrics must have a 5 mm bleed.
 - When the edge of the fabric is folded and sewn (hemming), please leave a 20 mm sewing margin for each edge to be sewn.
 - There should also be a 20 mm sewing margin for a reinforcement band.
 - Tunnel hems need a sewing margin three times the diameter of the pipe. E.g. for a 50 mm pipe, leave a 150 mm sewing margin to the material.



SUFFICIENT IMAGE RESOLUTION

ROLLUP:



IF YOU'RE UNSURE, PLEASE ASK

3. FONTS

- Fonts must be complete and embedded entirely in the PDF.
- Fonts included in graphic files are most likely to work when converted into paths.
- Reverse types (white text on a coloured background) of less than 10 points must be discussed with the printer due to a possible misalignment affecting the readability of the text.

4. LINE THICKNESS

The smallest recommended line thickness is 0.25 pt. Narrow lines should not be used for multi-colour, rasterised or reverse printing.

GRANO

Grano
Kuortaneenkatu 1
00520 Helsinki
+358 29 1800 400
We are open Mon–Fri 8 am–4 pm
grano.fi

5. COLOURS

For four-colour materials, we recommend that you define the colours as process colours (CMYK); only additional colours are defined as SPOT/PANTONE colours. For digital printing, you can also use RGB colours in the images: Our default profile for RGB images is sRGB.

Our recommended CMYK colour profiles:

- coated paper: **PSO Coated v3, FOGRA 51**
- uncoated paper: **PSO Uncoated v3, FOGRA 52**

If you are using RGB materials, we recommend that you submit a layout package.

6. CREATING A PDF

Regardless of the printing method, please note the following:

- Always include **cutting lines** in the PDF (with a 3 mm margin)
- The material must be **centred on the page**
- The material must be divided into individual pages, no double pages
- All pages must have the **same size** and **orientation**

7. OVERPRINT

Please do not use overprinting for any other partial colour than black or, when using a white additional colour, white. Ask for more information if you'd like to use overprinting for other colours.

8. FOUR-COLOUR BLACK

Please do not use four-colour black (= Registration black of layout programs). As an exception, fabric printing produces the best black with the following mix: C40/M40/Y20/K100.

9. SHAPE CUTTING

- Materials that need to be cut into shape must have cutting lines with the spot colour "Cut_1" (M100) and overprinting. Ask for further instructions if necessary.
- The cutting line must be a **single continuous line**, not several separate pieces.
- If possible, submit the material **with and without the cut line**, making it possible to use the material with as many different printing methods as possible.

10. MATERIAL SUBMISSION

Please submit the material as agreed beforehand. We recommend that you pack the material into one .zip file.

FTP submission

- Works both with a web browser and an FTP program.
- <https://transfer.grano.fi> – for temporary material transfers, the user can log in with a public username. Both the username and the password are "vieras".
- **After the transfer, please notify your contact person by e-mail.**



**PLEASE NOTE
THAT PDF
PROOFING AND
ANY ADDITIONAL
WORK DUE TO IT
WILL BE
INVOICED
WORK UNLESS
OTHERWISE
AGREED.**

**100% BLACK
0/0/0/100
40/40/20/100**

Grano
Kuortaneenkatu 1
00520 Helsinki
+358 29 1800 400
We are open Mon–Fri 8 am–4 pm
grano.fi