MATERIAL INSTRUCTIONS

LARGE FORMAT PRINTING

When submitting printable PDF materials, please check the following:

1. IMAGE RESOLUTION

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

- **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

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.
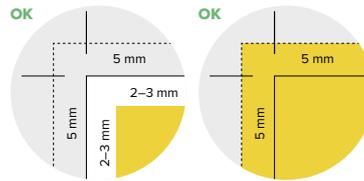
- for one-sided prints, **5 mm**
- for two-sided prints, **10 mm**
- note: **rollup materials** must have a 200 mm **installation margin**
- Sewing margins for different post-treatment methods:
  - Clean cut fabrics must have a 5 mm bleed margin.
  - When the edge of the fabric is folded and sewn (hemming), 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.

OK   OK

5 mm
5 mm
2–3 mm
2–3 mm
5 mm
5 mm

3. FONTS

- Fonts must be complete and embedded 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.
- Do not use Type1 fonts (also known as PostScript, PS1, T1, Adobe Type 1, Multiple Master or MM), as they are no longer supported as of January 2023.

SUFFICIENT IMAGE RESOLUTION

ROLLUP:

e.g. 2,000 mm

VISIBLE AREA

BLEED

200 mm

INSTALLATION MARGIN
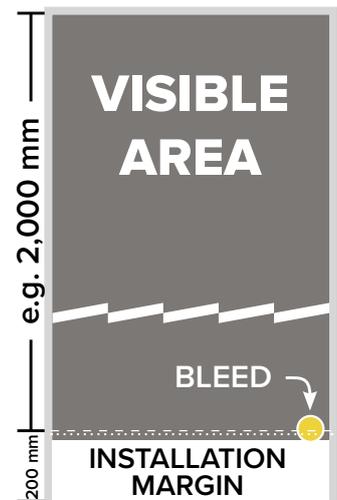
IF YOU HAVE QUESTIONS, PLEASE ASK

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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.

5. OVERPRINT

Please do not use overprinting for any other partial colour than black or, when using a white additional colour, white. The only exception to this is die cutting lines, which must be overprinted. Ask for more information if you'd like to use overprinting for other colours.

6. WHITE COLOUR

Use a white spot colour only when the product includes white print. When this is the case, use the following colour settings:
White print: spot colour named **WHITE (colour C0 M0 Y100 K0)**

7. DIE CUTTING

- Materials that need to be cut into shape must have cutting lines marked with **a spot colour named "Cut" (C0 M100 Y0 K0)** 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 cutting line**, making it possible to use the material with as many different printing methods as possible.

8. FOUR-COLOUR BLACK

Please do not use four-colour black (= Registration black in desktop publishing software). In large format printing, you do not need to add other partial colours to black in order to make it deep black. Simply using 100% black gives the best results.

9. COLOURS

For four-colour works, we recommend that you define the colours as process colours (CMYK), with only any additional colours defined as SPOT/PANTONE colours. You can also use RGB colours if you are unsure about how to translate them into process colours. Our default profile for RGB images is Adobe RGB. Be sure to always embed RGB and CMYK profiles in PDF files. This will ensure that the colours are converted correctly on our end.
Our recommended CMYKcolour profile:
- **PSO Coated v3 (FOGRA 51)**

100% BLACK 0/0/0/100

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10. CREATING A PDF

Regardless of the printing method, please note the following:
- Always include **cutting lines** in the PDF (with a 5 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 **same orientation**.

11. 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 via an FTP client.
- **http://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.**

IF THE FILE SIZE IS SMALL, YOU CAN ALSO SUBMIT YOUR MATERIAL VIA EMAIL TO YOUR REPRESENTATIVE

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