

# MATERIAL INSTRUCTIONS

14.08.2015

## LARGE FORMATS

### 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 1,200 ppi for all printing methods.

#### 2. BLEED MARGINS

All materials must come with 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.

#### 3. FONTS

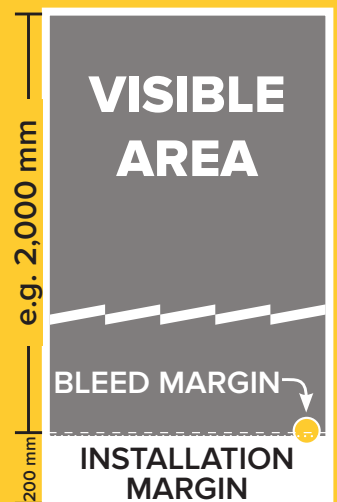
Fonts must be complete and embedded entirely in the PDF. Fonts included in graphic files are most likely to work when converted into paths. Reverse types (white text on a coloured background) of less than 10 points must be discussed with the printer due to a possible misalignment affecting the readability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

### SUFFICIENT IMAGE RESOLUTION

ROLLUP:



### IF YOU HAVE QUESTIONS, PLEASE ASK



Painopalvelut



Markkinoinnin palvelut



Tapahtuma- ja myymäläpalvelut



Logistiikka ja ulkoistukset



Rakentamisen ja teollisuuden palvelut



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## 5. COLOURS

For four-colour works, we recommend that you define the colours as process colours (CMYK), only any 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: **IsoCoated\_v2, Coated FOGRA 39**
- uncoated paper: **IsoUncoated, PSO Uncoated**

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

## 6. CREATING A PDF

WHEN CREATING A PDF, please note the following:

- Always include **cutting lines** in the PDF (with a 3 mm margin)
- The material must be **centred on the page**
- All pages must have the **same size** and **same 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 programmes). As an exception, fabric printing produces the best black with the following mix: C30/M30/Y30/K100.

## 9. DIE CUTTING

- Die cut materials 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 cutting 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.

### E-mail submission

- You can submit the material by e-mail. You can find city-specific material addresses on the contact page of our website. The recommended max. size is 10 MB.

### FTP submission

- Works both with a web browser and an FTP programme.
- **Helsinki: ip.grano.fi** – for temporary material transfers, the user can log in with a public username. Both the username and the password are "vieras".
- **Other cities: ftp.grano.fi** – ask your contact person for a username and password.
- **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  
30/30/30/100**



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