

GUIDELINES

FOR PRINT FILES PREPARATION



1. GENERAL INFORMATION

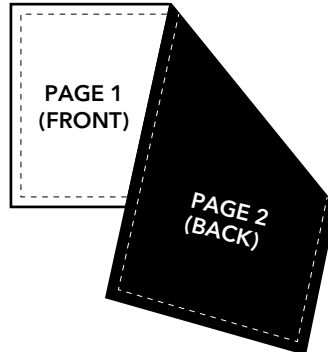
The following document details the technical requirements for the preparation of print files sent to Nordsign Print Republic. The printing house archives the files digitally for a period of one month from the date the files were received.

We ask you to familiarize yourself with these guidelines to allow us to maintain the quickest possible production time and assure highest quality.

2. TYPES OF FILES AND SAVE SETTINGS

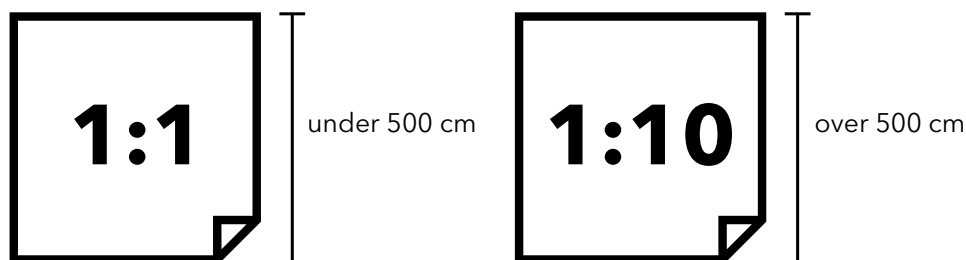
2.1. FILE FORMATS

- preferred:
 - Multi-vector graphic in **PDF** (1.3 fidelity or higher, scaled 1:1 or 1:10, embedded objects)
 - Bitmap TIF (LZW compression, flat, scaled 1:1 or 1:10)
- other acceptable formats
 - **EPS** (version CS6 or higher, fonts converted to curves, flat transparency)
 - **AI** (version CS6 or higher, fonts converted to curves, flat transparency)
 - **PSD** (version CS6 or higher, flat)
 - **JPEG** (standard compression method)
- in addition
 - The file name **should not** exceed **70 characters**.
 - If the file contains more than one artwork or pages with different size, files will **not be accepted**.
 - The exceptions are files for all our **double-sided products**, where multi-page file consisting of two pages (**Page 1 - Front, Page 2 - Back**) is necessary.
 - If the same motive is to be used on both sides, please make sure that file also contains two (**same!**) sides.



2.2. SIZE AND SCALING

- Size should be expressed always as **width x height** (i.e. 200x100)
- Size on the purchase order should be the same as the graphic
- Size should be expressed in centimeters
- Graphics under 500 cm size should be scaled 1:1, larger ones - 1:10



2.3. RESOLUTION AND FONT HEIGHT

SIZE	A4	under 10 m ²	10-25 m ²	25-50 m ²	over 50 m ²
RESOLUTION	150 ppi	100 ppi	80 ppi	50 ppi	30 ppi

- In case of files scaled 1:10, the resolution should have 10 times the ppi.
- The minimum font height for all printing technologies is **0,5 cm**.
- The minimum width of font/line outline for latex is **0,001 cm**, for other technologies **0,3 cm**.
- In case the font height or the width of font outline is smaller, the text on the banner may be **unreadable**.

3. COLORS

3.1. COLOR MODELS

- Print files should be prepared in the CMYK color model. If we receive files in RGB color mode, they will be automatically converted to CMYK and the colors may appear differently.
- We only print according to **ISO Coated V2**. If the profile embedded in the file is different or missing altogether, the colors may change.
- Files should not contain spot colors (i.e. from PANTONE palette).
- Black and white graphics should be prepared in **greyscale**.

3.2. BLACK COLOR

- Using only K color for black elements, will result in a neutral black but with insufficient saturation. For that reason, we recommend a combination of all four processing colors, which - depending on printing technique - are as follows:

DYE SUB / DIRECT	C0, M0, Y0, K100
DYE SUB (LED)	C0, M40, Y40, K100
DIRECT (LED)	C60, M60, Y40, K100
UV Backlit Standard	C50, M50, Y50, K100
UV Backlit Premium	C60, M60, Y40, K100

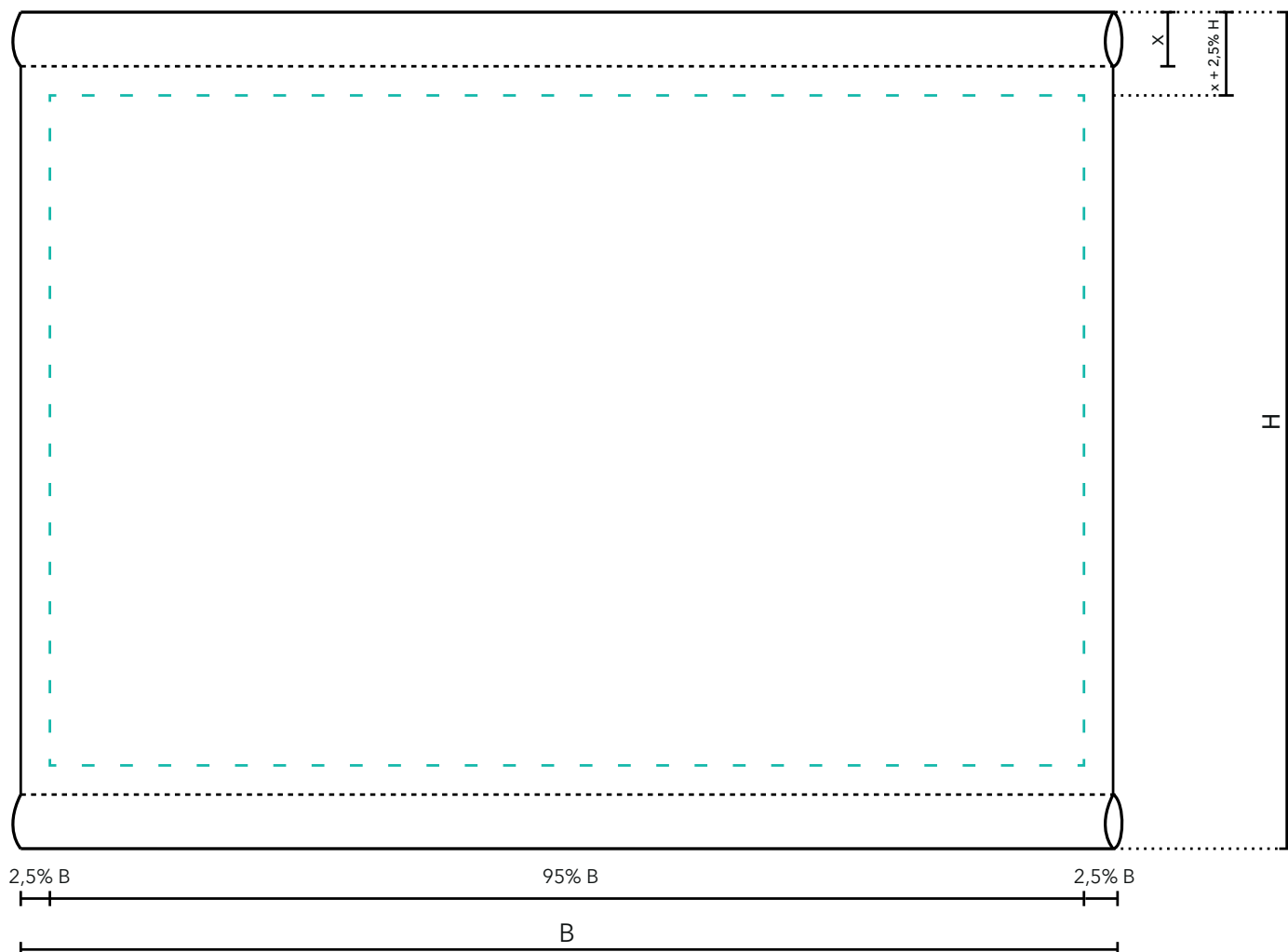
3.3. COLOR MATCHING

- We match colors to Pantone Color Bridge C.
- Matching colors to proof or indicated PANTONE, RAL, HKS sample requires an additional fee.
- The acceptable deviation of CIELAB ΔE in print according to Lab parameters is $\Delta E \leq 5$.
If $\Delta E \geq 5$ to the expected color, we attempt to make the closest possible match in colors from the CMYK gamut.
- If a satisfactory match is not possible, we match to the Coated Process CP instead.

4. PRINT MARGINS (BLEED) AND SAFETY AREA

- Every graphic should have print margins of 2 cm on each side.
- For UV print, the graphic should have 1 cm of safety area.
- Textiles printed by sublimation are more susceptible to stretching. Therefore, the recommended safety area for key elements (text, important graphical element) is no less than of 5% of the given size.
- In case of Open Seam finishing, the safety area should be reduced by the flat size of the tunnel. (look at the preview)

Preview



B - width [cm] H - height [cm] x - open seam measured flat [cm]

- - - - - safety area sewing

5. PLOTTERING

- For graphics cut to shape, the cutting lines should be in their separate layer „**CutContour**“.
Minimal contour thickness is 2mm.
- The graphic should be prepared with print margin of 5 mm.

VINYL  ^{2mm} | min. 10mm Plottering

VINYL  ^{3mm} | min. 15mm Printing + Plottering

VINYL  ^{5mm} | min. 25mm Printing + Plottering + Laminating

6. ADDITIONAL INFORMATION

- Submitting a print file that does not meet the above guidelines may result in errors in print for which the printing house does not accept responsibility.
- If our DTP spots a problem with the print file, they may correct it but it also may impact production time.
- Prints that have the shorter side exceeding the maximum printing width, will be panelled.
In such cases, we recommend that you send us the files in one piece so that the panelling is done by our printing house. If you do the panelling yourself, we cannot guarantee exact matching of the graphical elements.
- We recommend preparing files for Pallet Cover in parts (each element as a separate file).
- Should you require more information, you are welcome to contact our Sales Team (support@nordsign.com) who will then direct your questions to our DTP department.