

GUIDELINES

FOR PRINT FILES PREPARATION



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LARGE FORMAT

UV, SOLVENT, SUBLIMATION

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LARGE FORMAT

UV, SOLVENT, SUBLIMATION, LATEX



01





FILE TYPES



1.1 Only closed files are **ACCEPTED**, preferred formats: tiff

.pdf .tiff .eps

1.2 Open files are **NOT ACCEPTED**, i.e.

.ai .cdr .indd .psd

1.3 PDF files must be prepared:

- In composite
- Postscript level 1, 2 or 3
- PDF 1.6 (acrobat 7)
- PDF files cannot be password protected
- Cannot come from internet converters



GENERAL INFO

- 2.1 LaboPrint S.A. uses the metric system. LaboPrint S.A. is not responsible for any errors in conversion to the metric system. Rounding up of an artwork size is always to the nearest whole.

EXAMPLE 1:

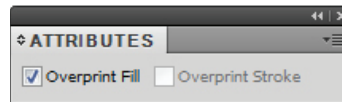
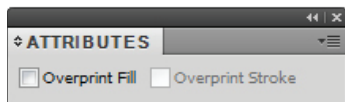
40x60 inch = 102x153 cm
40*2,54 = 101,6 rounded up to 102 cm
60*2,54 = 152,4 rounded up to 153 cm



EXAMPLE 2:

6x11 st6p = 186x341 cm
6*30,48 = 182,88 rounded up to 183cm
11*30,48 = 335,28 rounded up to 336 cm

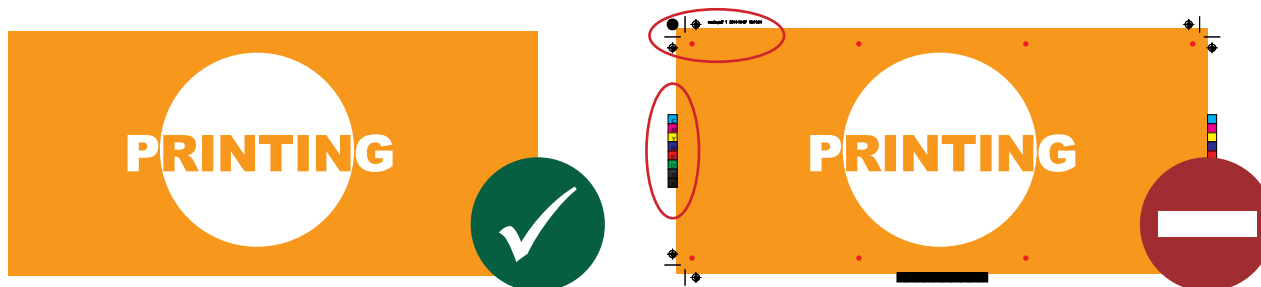
- 2.2 Overprints **MUST NOT** be used in files. Labo Print S.A. is not responsible for any errors in print caused by the use of overprints.

EXAMPLE:



- 2.3 Every order should be accompanied with a preview in the form of .jpg file in the display resolution. The preview file will make it possible to correctly verify the contents of the print file. Complaints to orders without the preview will not be considered valid.
- 2.4 Print file names must be as short as possible to enable fast and proper identification. Special marks and national characters (e.g. q ć ł * < > ? : ; / \ etc.) must not be used in file names. You must name the print files PRINT. Preview files must be named PREV.
- EXAMPLE:**
-  *banner_st_stevens_PRINT.pdf*
banner_st_stevens_PREV.jpg
-  *17052014_SPF148799_banner_st_stevens_1570mmx6800mm_v3.1_._.pdf*
SPF148799_änschnitt.jpg
- 2.5 Print files with an artwork size under 5m must be prepared in a 1:1 scale. Print files with an artwork exceeding 5m must be prepared in a 1:10 scale. LaboPrint S.A. will not accept files in any other scale. The resolution should be selected in accordance with the Table in pt 3.1
- 2.6 Print files must not have marked eyelets or include descriptions, file names, registration marks, cutting marks, densitometry scale or any other elements which are not the design.

EXAMPLE:

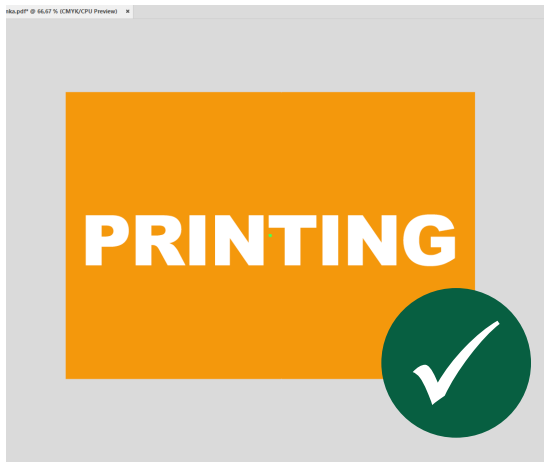




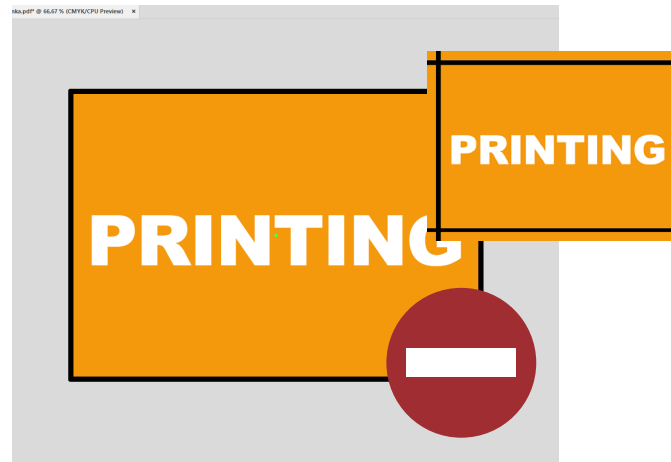
2.7 FRAMES IN THE PRINT FILES

Files shall be prepared for printing without frames placed close to the edges of the graphics.

EXAMPLE 1:

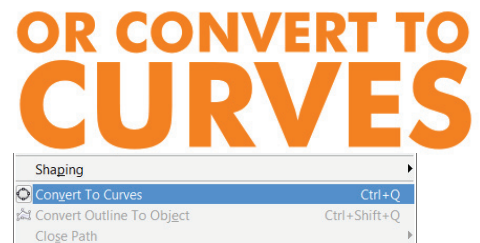
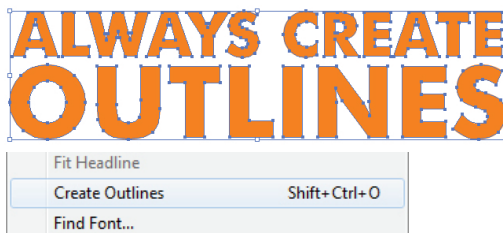


EXAMPLE 2:



2.8 All texts in the files must be changed to curved / outlined.

EXAMPLE:





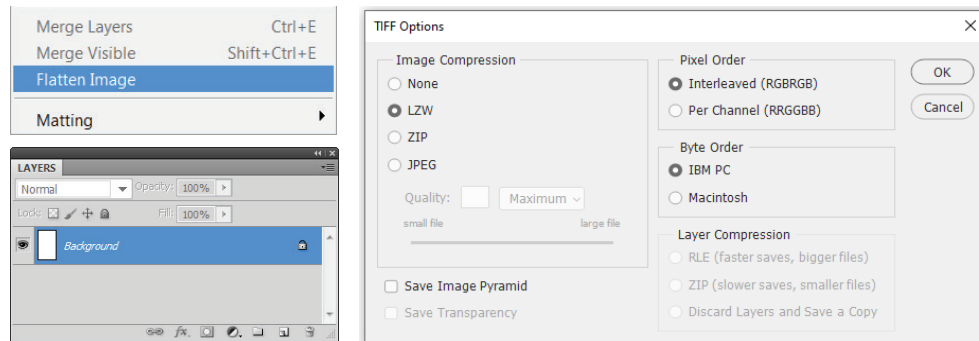
2.9 All bitmaps and other elements of the design must be embedded in the document.

EXAMPLE:



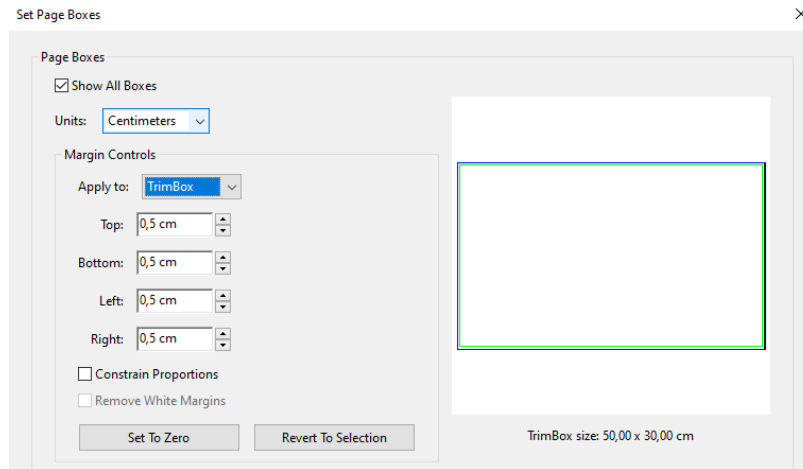
2.10 TIFF files must be flattened to the background and saved with LZW compression.

EXAMPLE:



2.11 Files must include Trim Box compatible with the target artwork format.

EXAMPLE:



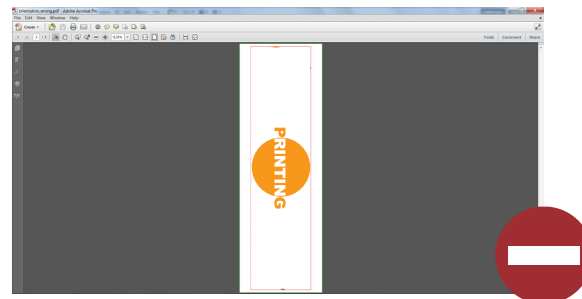
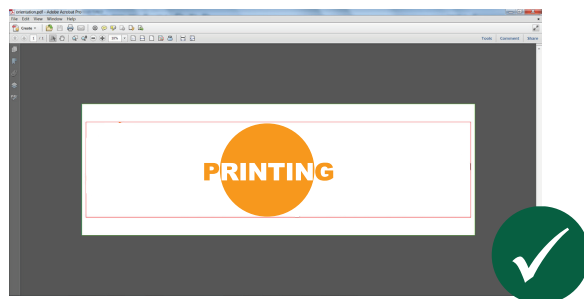
2.12 Each design must be saved as a separate file or on a separate page in a multi-page file. Multiple designs cannot be prepared as a single artwork.

2.13 Files must not contain „OPI” comments.

2.14 The orientation of print files must match the orientation on the order. It is crucial due to the finishing processes (eyelets, welds, sleeves positioning and mounting of other accessories).

EXAMPLE:

Size of ordered print: Width 300cm x Height 100cm





FILE RESOLUTION

3.1 Size vs resolution chart:

| ARTWORK SIZE | RESOLUTION (FILE IN SCALE 1:1*) |
|------------------------|------------------------------------|
| Up to A4 | 300 ppi |
| Up to 2 m ² | 150 ppi |
| 2-5m ² | 100 ppi |
| 5-25 m ² | 80 ppi |
| 25-50m ² | 50 ppi |
| over 50m ² | 30 ppi |

* In case of files in the scale of 1:10 the resolution must be 10 times higher than the one specified.

3.2 A file must not be bigger than 500MB.



FONTS

3.3 Minimum font size for different printing technologies.

| TECHNOLOGY | SIZE |
|-------------|--------|
| UV | 10 pkt |
| UV FLAT | 9 pkt |
| LATEX | 7 pkt |
| SOLVENT HR | 6 pkt |
| SUBLIMATION | 17 pkt |



BLEED & SAFE AREA

- 4.1 Each file must contain bleed area. Proper use of bleed ensures that the finishing of a print will be done correctly.

| FINISHING | BLEED |
|-----------|-------|
| Standard | 0,5cm |

- 4.2 Each file must have a safe area for texts and other important design elements. The size of safe area depends on the finishing of the print. Using suggested safe areas guarantees that no text or important design element will be sewn over, welded, missing or deformed in any other way.

| FINISHING | SAFE AREA (FILE IN 1:1 SCALE*) |
|--|-----------------------------------|
| BANERY Cutting to size + eyelets | 5cm |
| Welding/sewing | 5cm |
| Sleeve (double sided banner) Sleeve (flag) | 5cm + tunnel |
| Plotting/milling/cutting to size | 1cm |
| Polipropylen 10mm | 2cm |



SAFE AREA – TEXTILE PRINTS



4.3 When printing on textiles, it is very important to maintain safe areas appropriate to the size. Textiles are prone to stretching.

| PRINT LENGTH | SAFE AREA per side |
|-----------------|--------------------|
| Up to 1m | 3cm |
| Up to 5m | 5cm |
| from 5m to 10m | 10cm |
| from 10m to 20m | 20cm |
| from 20m to 30m | 35cm |
| from 30m to 40m | 45cm |

4.4 In case of textile prints, the safe area should be enlarged depending on the finish, e.g. sleeve size + safe area.





PANELLING

- 5.1** Works where short side is wider than the material are panelled. Division to panels is made by the Printing House.

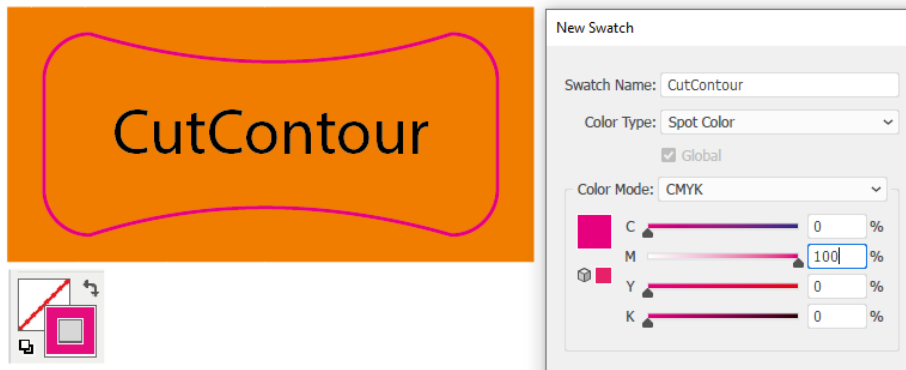
- 5.2** The Printing House discourages the Customers from panelling files themselves. In case of files panelled by the Customer, the Printing House shall not be held liable for any errors which might occur when compiling panels. Applicable especially in case of joined ZEN frames.



CONTOUR CUT LINE

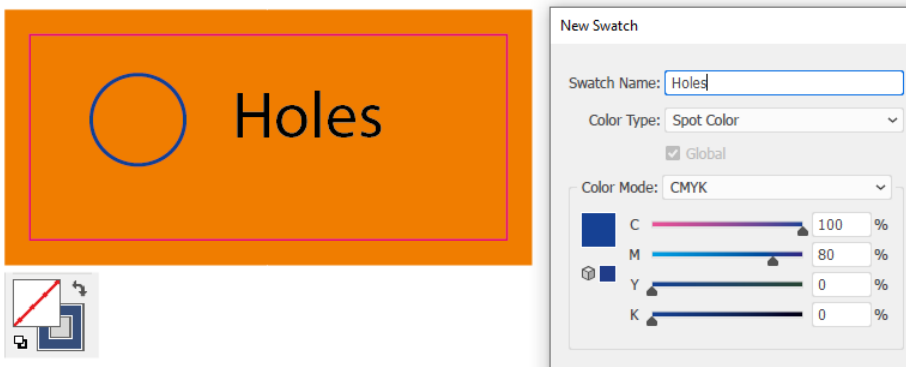
- 6.1 In case of an artwork cut to shape (foil, flags etc.) we require a cut contour to be attached to the file.
- 6.2 The cut contour should be prepared on additional layer as a stroke and saved in a PDF file. The colour of the stroke should be added to the library as a spot colour and named „CutContour“ + OVERPRINT STROKE.

EXAMPLE:



- 6.3 The holes should be prepared on an additional layer as an outline and saved in a vector file. The color of the holes should be added to the library as a spot color and named „Holes“ + OVERPRINT STROKE.

EXAMPLE:



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- 6.4 The Printing House does not accept nestings.
- 6.5 Cut lines should always be closed paths with the outline aligned to the center.
- 6.6 The minimum size of the milled element is 10 cm for simple shapes (e.g. circle, rectangle) and 20 cm for complex shapes (e.g. letters).
- 6.7 The minimum distance between the cut lines for plotting foils is 3 mm (5 mm for foils with laminate).

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TEMPLATE

In case of beachflags, windscreens, expo walls and other textile products, the designs must be prepared on printing house templates, which can be obtained from our sales representatives.

These mock-ups already contain a die made according to our specification. You only need to adapt the graphics to them paying attention to the safe area and the dimension with a bleed. Templates may be updated from time to time. Ask your consultant.



COLOUR

SEPARATION OF COLOURS

- 8.1 The same colour can have a different tone when printed on a different material or in a different technology.
- 8.2 All print files must be prepared in CMYK colour model with an 8-bit colour depth.
- 8.3 Files prepared in other colour spaces are automatically converted into CMYK colour space.
LaboPrint S.A. shall not be held responsible for colour differences occurring during the conversion.
- 8.4 Print files **MUST NOT** contain ICC colour profiles.
- 8.5 An artwork with a spot PANTONE colour should be saved in a PDF/EPS file.
- 8.6 In case of spot PANTONE colours, the selected colours must be used in the file.

Color Mode

CMYK Color 8 bit

Background Contents

Custom

Advanced Options

Color Profile

Coated FOGRA39 (ISO 12647-2:2004)

Pixel Aspect Ratio

Square Pixels

EXAMPLE:



Output Preview

Simulate

Simulation Profile: Coated FOGRA39 (ISO 12647-2:2004)

Simulate Overprinting Page has Overprint: No

Simulate Paper Color Set Page Background Color

Simulate Black Ink Ink Manager

Show

Show: All Warning Opacity: 100 %

Show art, trim, & bleed boxes Set Page Boxes

Preview: Separations

Separations

| Name | | |
|---|------|--|
| <input checked="" type="checkbox"/> Process Plates | | |
| <input checked="" type="checkbox"/> Process Cyan | 0% | |
| <input checked="" type="checkbox"/> Process Magenta | 0% | |
| <input checked="" type="checkbox"/> Process Yellow | 0% | |
| <input checked="" type="checkbox"/> Process Black | 0% | |
| <input checked="" type="checkbox"/> Spot Plates | | |
| <input checked="" type="checkbox"/> PANTONE Bright Orange C | 100% | |
| <input checked="" type="checkbox"/> PANTONE Cool Gray 11 C | 0% | |
| Total Area Coverage | 100% | |

Sample Size: Point Sample

Total Area Coverage 280 %

Page has Transparency: No

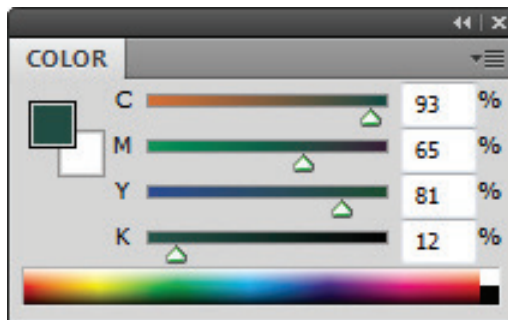
Transparency Blending Color Space: None

COLOUR MATCHING

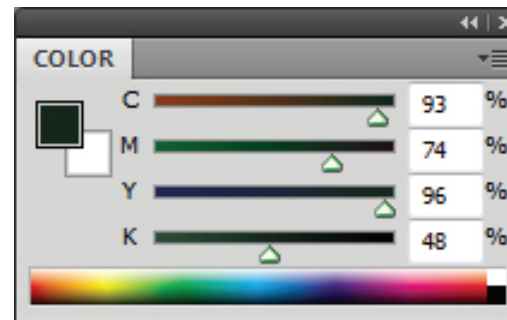


- 8.7 Printouts of PANTONE colours simulation in UV/UV Flat/Sublimation technology should be compared with PANTONE Solid Uncoated chart.
- 8.8 Prints of PANTONE simulation in Solvent/Latex technology should be compared with PANTONE Solid Coated chart.
- 8.9 It is not possible to ideally reproduce PANTONE colours in digital print. Colours on the printout may differ from the standard by one shade.
- 8.10 Metallic and fluorescent colours in digital printing are unattainable.
- 8.11 The total ink limit (TIL) cannot be higher than 300%.

EXAMPLE:



TIL = 251% < 300%



TIL = 311% > 300%

- 8.12 If accurate colour representation is necessary, a PROOF must be supplied.
- 8.13 PROOFS must be prepared after final verification of the print files.
- 8.14 In the absence of a colour model, the artwork is printed in accordance with CMYK colour values contained in the file.
- 8.15 With each resumption (reprint production) it is necessary to redo the colour matching.
- 8.16 LaboPrint S.A. does not cross reference CMYK colours with RAL/HKS charts or coloured foils.

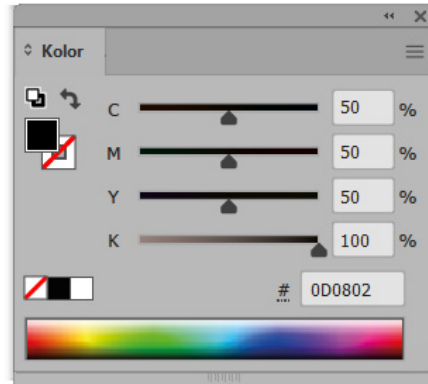


BLACK COLOUR

8.17 To obtain the right saturation of the black colour depth the following values must be used (depending on the technology):

CORRECT VALUES (DEPENDING ON THE TECHNOLOGY)

EXAMPLE:

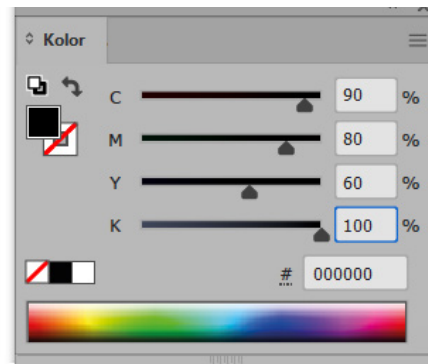


SUBLIMATION UV/SOLVENT

LIGHTBOX – MATERIAL FOR ILLUMINATED FRAMES



EXAMPLE:



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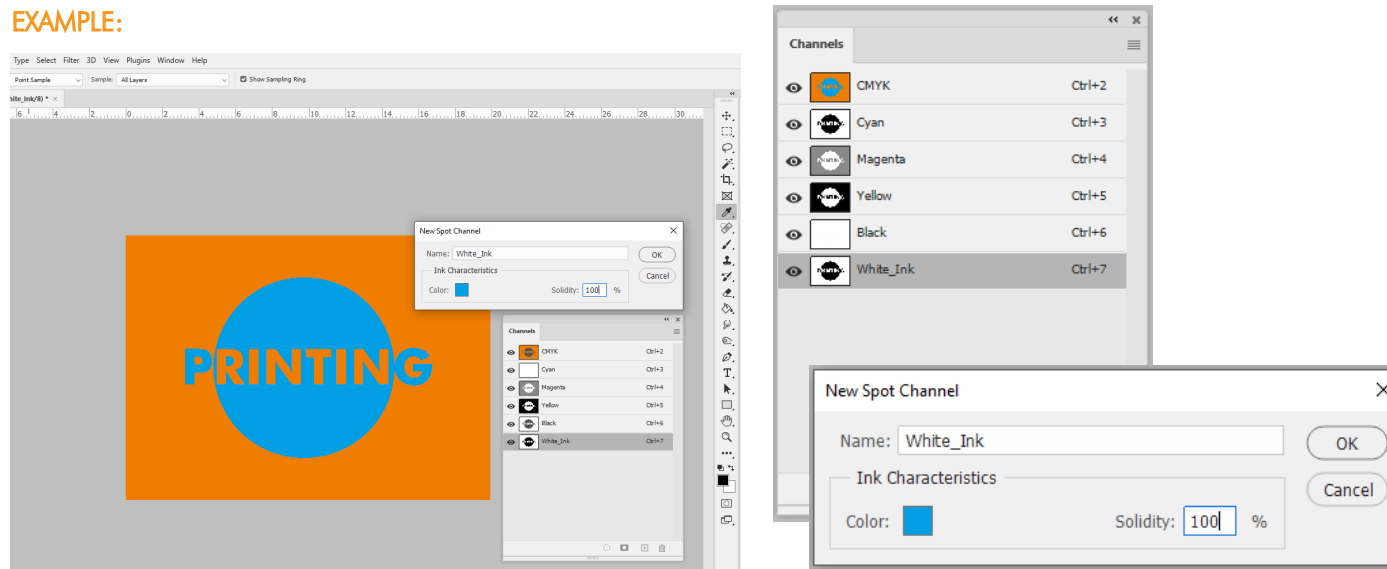




WHITE COLOUR

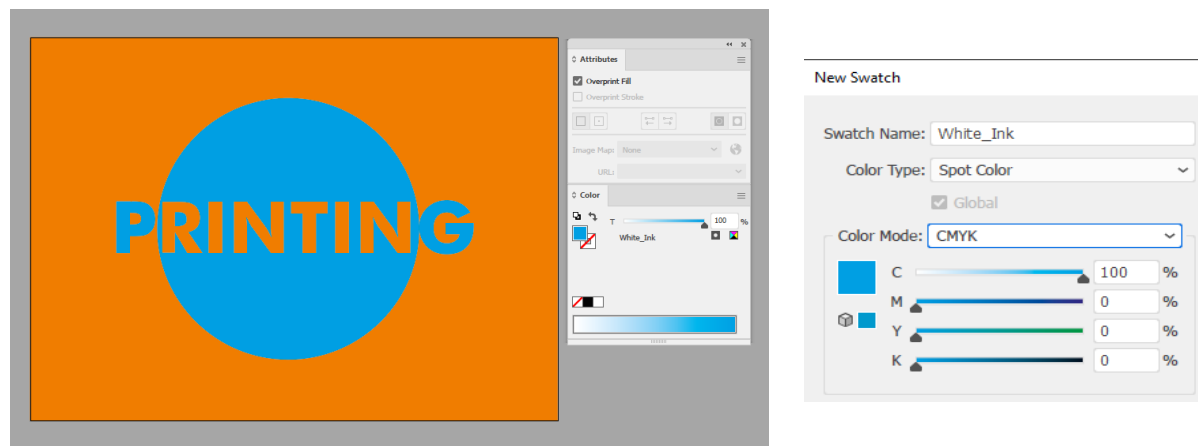
- 8.18 In case of a raster file, the white overprint under the part of the graphic should be prepared as a new channel of a spot colour with 100% saturation, CMYK 100/0/0/0 values and described as „White Ink“.

EXAMPLE:



- 8.19 The white overprint under the part of the graphic must be prepared on a separate layer of the vector file. A new swatch of a spot colour with 100% saturation must be used and named „White_Ink“ + OVERPRINT.

EXAMPLE:



8



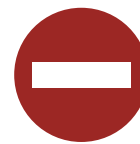
DIGITAL
PRINTING LABELS

0
2

FILES PREPARATION



.pdf



.ai



.cdr



.indd



.psd

- 1.1 We **ACCEPT** finalised output files, saved in PDF format (up to 1.6 version).
- 1.2 Production files in other formats (CDR, AI, PSD, etc.) will **NOT BE ACCEPTED**.
- 1.3 The net size of the file should be consistent with the size given in the order (trimbox)
- 1.4 Bitmap resolution 300-360 dpi.
- 1.5 All fonts should be changed into curves - minimal font size 6pt. Minimal font height 1,2mm. (Jettron 4900).
- 1.6 All graphic elements should be embedded in the file.
- 1.7 Please add 1 mm of bleed per side in each file (bleedbox).
- 1.8 The minimum safe area is 1 mm from the cut line.





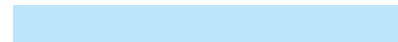
- 1.9 The file should not contain any printing marks – colour scales, cutting marks and other.
- 1.10 Cutting template should be saved as a separate layer defined with the **spot colour** previously saved in the colour library as **CutContour** – the layer has to be prepared as an overprint; in case of a missing cut contour, it will be automatically added to the net size of the file and with 2mm rounded corners.

CutContour colour should be set to CMYK 0/100/0/0 thickness 0,25pt

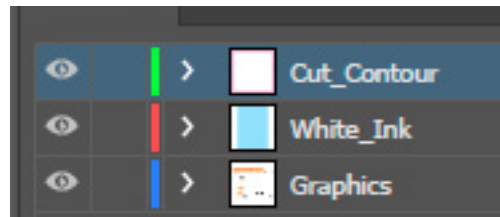


- 1.11 White underprint is used with transparent and metallic materials. Graphic elements printed with white ink should be saved as a separate layer defined with the **spot colour** previously saved in the colour library as **White_Ink**. Remember to turn overprint attribute on.

White_Ink should be set to CMYK 30/0/0/0



Layers White_Ink and CutContour should be placed on separate layers.



- 1.12 Bar codes - should be saved as vector files with 100% black; otherwise, we cannot guarantee the code will be readable for the scanners. Minimal width of the code is 21mm. Black should be set as CMYK 0/0/0/100; turn off overprint on black colour.



COLOUR SETTINGS

JETRION 4900

- 2.1 Black does not have to be enhanced with other CMYK colours; small texts and barcodes, must be prepared as **100%K**, without other colour components.

XEIKON 3500

- 2.2 Black should be set as **100%K**, it would be acceptable with other components only for works without white underprint (White_Ink).
- 2.3 All graphics should be converted into CMYK colour system (except for cut contour and white print elements).
- 2.4 Without embedded colour profiles
- 2.5 Spot colours (Pantone, HKS) converted to CMYK (except for cut contour and white print elements). Unconverted spot colours will be automatically converted to CMYK colour scale. Our CMS is based on ISO Coated_v2 reference profile, in accordance to which we adjust the colour profiles for our printing materials.



UPLOADING PRINT FILES

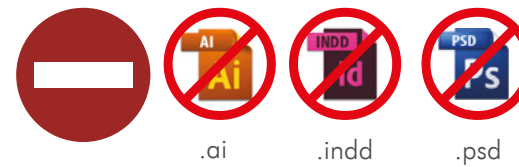
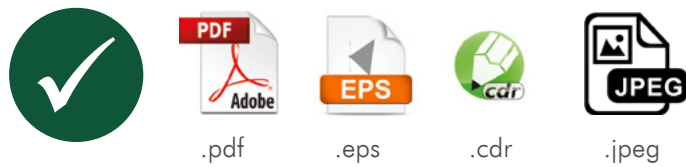
- 3.1 The print files should be named in a similar manner, which also enables to easily discern each file.
- 3.2 The file names should not contain any special characters.
- 3.3 The file names ought to be in polish or English.
- 3.4 Files up to 15 MB can be sent via e-mail.
- 3.5 All files should be uploaded directly to our FTP server. Each customer has an individual access account to obtain the login information contact your advisor
- 3.5 Files that are not prepared according to the Guidelines shall be printed at the customers responsibility or corrected upon the applicable fee.



SPATIAL LETTERS

03

FILES PREPARATION



1.1 **ACCEPTED** closed files format .cdr, .pdf, .eps and supported by previews in .jpeg or .pdf.

1.2 Fonts should be changed to curves / outlined

1.3 Bitmaps must be embedded in the file.

1.4 Files should be saved in scale 1:1 or 1:10.

NOT ACCEPTED open files formats:





3D SIGNS

- 2.1 The total size of a single object in a spatial sign (simple shapes: square, circle, rectangle, punctuation, accents, a dot above "i" etc.) can have minimum 2 cm x 2 cm for non-illuminated letters and 5 cm x 5 cm for illuminated letters.
- 2.2 Minimal distance between cut lines is 3mm (cutting tool size).
- 2.3 The minimum distance between the inner edges in a single sign is 1,5 cm (LED size).

LIGHTBOX

- 2.4 The size of milled elements of the lightbox should not be smaller than 10x10cm. Elements smaller than 10x10cm can be done prior to consultation.
- 2.5 Minimal distance between cut lines is 3mm (cutting tool size).

FONTS

- 2.6 Simple fonts, e.g. Arial – possible to make.
- 2.7 Serif fonts e.g. Times New Roman – manufacturing prior to consultation.
- 2.8 Decorative, complicated and non-standard fonts – manufacturing prior to consultation.

Sample

Sample

Sample

