

## Process

RISO is a Digital Duplicator. Like in Screen Printing or Offset, a master is generated for each colour. Created to produce many copies from the same master efficiently and affordably, it was a technique sought by designers, illustrators, and artists to have unique and vibrant prints due to its colour palette, print character, and ecological component. Being a technique created for a different purpose, its use imposes some limitations, which we constantly try to overcome. However, it is not a high-definition or precision printing method, so expectations should be adjusted to the technique.

## Format

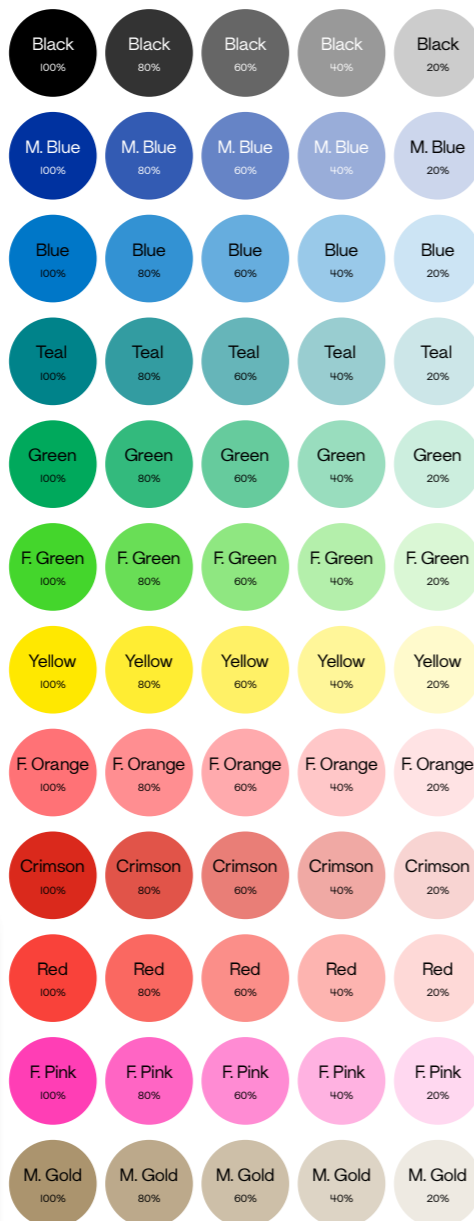
RISO does not print the entire area of the A3; a margin of at least 7mm around the page must be respected. The more filled the printing area is, it is advisable to increase the margin, especially at the top.

Paper Format  
297mm x 420mm

**A3**

Printable Area  
283mm x 406mm

## Colours



## Photography

Creating Bitmaps or assigning Halftones is unnecessary, as the RISO translates the image into dots.

## Lines

Do not use lines smaller than 0.25pt.

## Superimposing Colours

Through the overlay of colours, new colours can be generated. For this, the percentages of the colours must be worked on in the final artwork. Metallic Gold is a unique, opaque colour; its tone is influenced by overlay, although less than other colours. This colour can be printed on coloured paper, including black paper. The multiplication of colours also occurs on coloured papers.



## Typography

Do not use weights lower than 6pt in positive and in negative, lower than 8pt. This can vary depending on the typographic choice and its legibility. The text should always be in vector format, set up in software such as Illustrator or InDesign.

Lorem ipsum dolor sit amet

8pt

Lorem ipsum dolor sit amet

6pt

## Paper Stock

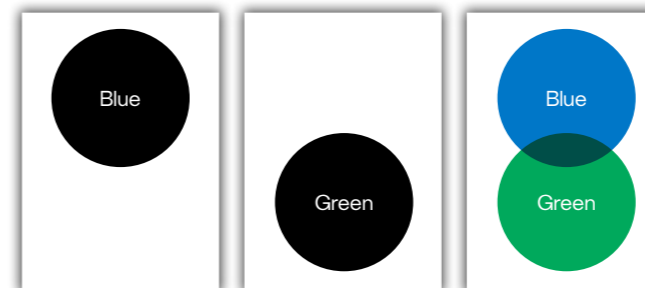
Our stock is constantly being updated. Check the available stock on our website.

## File Setup

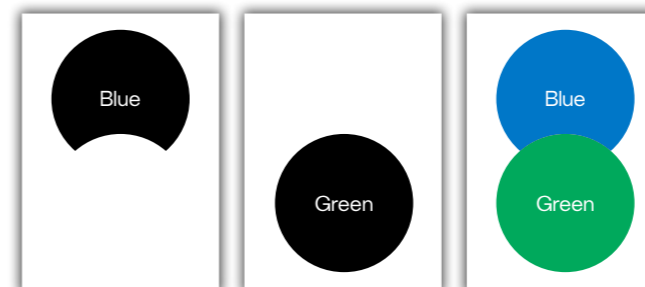
Mode/Profile: Greyscale;  
Format: A3 (297mm x 420mm);  
Margins: 7mm (minimum);  
Typography: vector (do not rasterize);  
Resolution: 600 dpi;  
Files: One PDF ("Flattened") for each Color/Layer (name the files);

### Attention

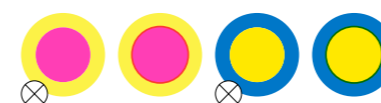
Don't include crop marks that exceed the A3 format;  
Don't include effects (example: multiply);  
Don't create masks (for example, clipping masks);  
Don't include transparencies;  
Gradients from 20% to 100%;  
Do not include invisible layers;  
Do not use 100% colour backgrounds (use 70% or less).  
We can setup your files for printing, which is agreed upon and budgeted in advance.



(Example: Overlapping Colours)  
#01 Ficheiro PDF: *blue.pdf*  
#02 Ficheiro PDF: *green.pdf*



(Example: Knockout Colours)  
#01 Ficheiro PDF: *blue.pdf*  
#02 Ficheiro PDF: *green.pdf*



To achieve the best registration between layers/colours, it is necessary to ensure some bleed (trapping) between the layers.

## Finishes

We collaborate with various finishing companies: cutting, folding, binding, etc. If justified, we can manage this production, provided it is agreed upon and budgeted in advance.

## Imperfections & Expectations

RISO is a very particular technique, and it is expected that some imperfections in printing may occur, including ink transfer between pages, areas where ink fill is not regular, inconsistencies in colour registration, between fronts and backs, and/or in the print run; "Track Marks" - ink transfer by the roller pulling the paper; or "Needle Marks" - ink transfer by the needle removing the paper from the drum; etc. Some of these imperfections can be mitigated by using an eraser. Expectations of the results should be adjusted to the technique.

## Terms & Conditions

### Quotes

Every project is different and requires an evaluation. For any information, contact: [riso@desisto.pt](mailto:riso@desisto.pt)

### Delivery Time

Delivery times are defined at the start of each project. At least one day of printing and drying should be considered for each layer/colour.

### Printing a File with Errors

We are not responsible for any printing errors caused by a poorly file setup provided by the client.

### Shipping

Only for orders over 40€, shipping is charged separately.

### Payment

Payment is made upon Project Delivery: MBWay, Cash, or Bank Transfer (proof of payment required).