

# Repro Origination Specification



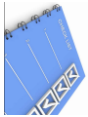
## Process information

- Offset Litho
- Front: Maximum 7 colours & 2 varnishes
- Reverse: Maximum 2 colours (inline)
- Reverse: Maximum 7 colours & 2 varnishes (2<sup>nd</sup> pass)
- Sequence: Metallic, Black, Cyan, Magenta, Yellow, Spot
- Maximum print area of 700 x 1000mm
- Maximum T.A.C. 280%



## Colour Management

- Colour Space is FOGRA39L
- Please supply an Epson proof to follow for CMYK
- Digital Pantone will be used for colour targets unless advised differently.
- In accordance with ISO12647, colour targets on press will be matched unvarnished.



## File requirements

- File format:
  - Illustrator CC (saved with PDF content)
  - Normalised PDF
- Artwork to be supplied to repro@firstan.co.uk
- Text to be outlined
- High resolution images to be supplied separately
- Correct cutter guide positioned (set to overprint)
- Varnish free areas and varnish type included (set to overprint)
- Cutter guide to be as supplied by Firstan CAD department
- Trim box set to cutter guide extremities



## Braille

- Braille & Embossing needs to be positioned 8mm away from cuts and creases (otherwise process will be completed in a separate pass to cutting)
- Braille font = Marburg Medium



## Substrate

- Specified material needs to be indicated on the artwork legend. (if not advised a fit for purpose folding box board will be used)
- Coated or Uncoated material needs to be stated on the artwork legend. (if not advised the Coated side will be prioritised)
- FSC logo - please request FSC label guidelines from Repro department



## Fonts & Vectors

- Minimum line (positive) = 0.1mm
- Minimum line (negative) = 0.2mm
- Minimum line metallic (negative) = 0.3mm
- Minimum grip = 0.15mm
- Minimum metallic grip = 0.07mm
- Minimum bleed = 3mm
- Minimum font size = 6pt
- Metallic/multi colour (negative) = 7pt
- Screen ruling = 200lpi
- Minimum dot = 5%
- Maximum dot = 95%



## Barcodes

- Bar width reduction = 0
- Minimum EAN13 size = 80%

# Colour Management Statement

Firstan have been awarded Bodoni PressSIGN PoS certification for printing and pre-press for printing in accordance with ISO12647.

To print in accordance with ISO requirements Firstan control and maintain the following systems:

- Esko Automation Engine pre press workflow
- Digital proofing to FOGRA39L
- D50 Lighting
- Inks ordered to Digital pantone  
(unless otherwise specified)
- Special inks ordered by spectral data
- CTP with accurate curve data
- Closed loop print process
- Measuring and reporting to Delta E 2000

Colour bars will be read by our in-line systems un-varnished.

*Any varnish added after the colour verification process may show readings outside of the Delta E tolerance expected.*

## Colour Management Equipment:

- Bodoni PressSign – outputs TVI data to our CTP department and colour reports
- Rutherford closed loop system – Closed loop ink duct system
- Xrite Easytrax – End of press colour scanning system
- Xrite Exact – Advance spectrophotometer connected to colour iQC and IFS.
- Xrite iOne
- Metafix Fountain Solution control – accurately controls the press damping
- Esko Automation Engine pre press workflow – automated workflow controlling approvals and storage of digital artwork files
- Kodak Harmony – adjusts dot gain curve data based on press fingerprint
- Epson P9000 with in line spectrophotometer
- GMG Colour Proof
- Komori inline PDF comparator