

TECHNICAL INFORMATION

SMARTPAPER CLASSIC



Smartpaper Classic - Technical guidelines

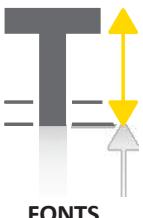
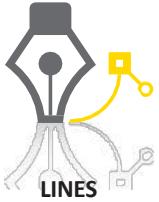


If you follow these guidelines when creating your PDF file, your newspaper will be perfectly prepared for our online newspaper printing service.

| NEWSPAPER FORMAT | PAGE SIZE TYPE AREA | |
|------------------------------------|-----------------------|--------------------------|
| FULL FORMAT/ BROADSHEET | FORMAT | SATZE SPIEGEL |
| | 340 x 480 mm | 315 x 445 mm |
| | 340 x 470 mm | 315 x 435 mm |
| | 315 x 470 mm | 282 x 435 mm |
| | 310 x 480 mm | 285 x 445 mm |
| | 290 x 480 mm | 270 x 445 mm |
| HALF SIZE/ TABLOID | FORMAT | Type Area (Print Mirror) |
| | 240 x 340 mm | 215 x 315 mm |
| | 240 x 310 mm | 215 x 290 mm |
| | 240 x 290 mm | 215 x 270 mm |
| | 235 x 340 mm | 200 x 305 mm |
| | 235 x 315 mm | 200 x 282 mm |

| TECHNOLOGY | TECHNICAL PRINTING SPECIFICATIONS |
|--|--|
| HALFTONE RANGE <ul style="list-style-type: none"> • Highlights: 0 % • Light 5 % (still stable dot) • Depth 85 % (still open dot) | SOLID INK DENSITIES / TOLERANCE <ul style="list-style-type: none"> • CMY: 0.90 • K: 1.10 • Tolerance: 0.10 |
| SCREEN RULING (Ipi) <ul style="list-style-type: none"> • 40-48 screen, • Sublima with 60 screen | TONE VALUE INCREASE <ul style="list-style-type: none"> • 24 %-26 % in the mid-tone |
| SCREEN ANGULATION <ul style="list-style-type: none"> • C: 15 ° M: 75 ° Y: 0 ° K: 45 ° | COLOR SEPERATION <ul style="list-style-type: none"> • GCR, medium black, maximum total color build-up 240 % |
| COLOR DESIGNATION <ul style="list-style-type: none"> • 4c EUROSKALA | GRAY BALANCE <ul style="list-style-type: none"> • C: 30 % M: 24 % Y: 24 % |
| COLOR PROFILE <ul style="list-style-type: none"> • DIN ISO 12647 Process standard offset printing (newspaper printing) | |

| TECHNOLOGY | TECHNICAL PRINTING SPECIFICATIONS |
|---|--|
|  DATA DELIVERY | <ul style="list-style-type: none"> Files can be uploaded via our web portal or FTP server. Access details will be provided during the ordering process. Please upload complete newspaper files, not individual pages. |
|  PARAMETERS FOR PDF CREATION PARAMETERS FOR EPS CREATION | <ul style="list-style-type: none"> Preferred format: PDF 1.3 Grayscale elements: output in black separation only (applies to images as well) Color output: process colors only (CMYK) Total color application: Coldset maximum 240% Save Illustrator EPS files in Postscript Level 1 format Do not save Photoshop EPS files as DCS separation |
|  IMAGES/RESOLUTION | <ul style="list-style-type: none"> Place images at 1:1 scale in the layout Convert all images to the target print color space before submission Image resolution (1-color and 4-color): Minimum 240 dpi, optimal 1,270 dpi Screen ruling: 100 lpi Maximum color coverage: 240% Image compression: LZW or ZIP recommended Resolution line graphics: min. 600, optimum 1,200 dpi Save in JPEG, TIFF or Photoshop EPS format Save color images in CMYK mode Duplex images, RGB and LAB images and images with indexed colors cannot be processed. All the border elements used in the files, such as images and logos, must be supplied. For best print results, we recommend using ICC color profiles. ICC profiles can be downloaded free of charge from wan-ifra.org |

| TECHNOLOGY | TECHNICAL PRINTING SPECIFICATIONS |
|---|--|
|  FONTS | <ul style="list-style-type: none"> • All fonts must be embedded in the document; do not use system fonts. • Minimum font size: 6 pt (sans-serif fonts recommended) • Apply overprint for text below 10 pt |
|  ICC-PROFILES | <ul style="list-style-type: none"> • 4c: ISOnewspaper26v4.icc • Black/White: ISOnewspaper26v4_gr.icc |
|  LINES | <ul style="list-style-type: none"> • Minimum line weight: 0.2 pt • No hairlines |
|  PRINT MARKS | <ul style="list-style-type: none"> • Do not include any crop marks, registration marks, color bars, sheet information, or any other print marks in the file |

PAPER

A single roll of newsprint contains approximately 20 kilometers of paper, running through our rotary presses at speeds exceeding 11 meters per second. Collectively, our printing process requires nearly 2.8 million kilograms of ink each year. After four-color printing on both sides of the continuous web, the paper is automatically cut, folded, and finished to the desired broadsheet or tabloid format.

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| FULL FORMAT/ BROADSHEET | PAPER Newspaper printing standard | GRAMMAGE/(g/m²) 42,5 45,0 52,0 |
| HALF FORMAT/ TABLOID | Improved quality (higher degree of whiteness) | 52,0 |

**ADDRESS**

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