

# PRINTING DATA SPECIFICATIONS

**For a smooth and reliable transfer of printing data, please comply with the following points: the printing data should comply with ISO Standard PDF/X1a or PDF/X4.**

## **File formats**

Please produce PDF/X1a or PDF/X4 directly from Adobe CS. In addition, „open“ data with editable text and all images are desirable.

## **Images**

Images should be at least 300 dpi resolution in final size. Bitmaps, scanned logos or codes must be at least 1200 dpi final resolution.

## **Fonts**

In accordance with the above-mentioned ISO standards, all fonts must be 100% embedded in the PDF.

## **Colour spaces**

Only the colour spaces CMYK and spot colour may be used.

## **Colour designations**

The colours used must correspond to the print colours. Technical colours, e.g. for the die-cutting outline or Braille, must be clearly designated and must be set up overprinting these elements. A key indicating the print colours and auxiliary colours is desirable.

## **Trimming and trapping**

All elements and images which meet at a line of intersection (die-cutting outline exterior) must be bled off 2 mm. The data shall not contain any trapping (colour over- or underlaps). Please lay out black as overprinting.

## **Braille**

Braille must be structured according to the ECMA standards (dot size 1.6 mm/10 mm line spacing/at least 8 mm from creasing and cutting lines). Please indicate the plain text outside of the die-cutting outline.

## **Die-cutting outline**

Please structure the printing data on a Rondo die-cutting outline. This outline cannot be changed and must be coloured in a technical colour with overprinting.

## **Folding box with reverse-side printing**

Please produce a 2-sided PDF, with identical page size.

## **Varnish-free and/or ink-free areas**

Indicate corresponding zones with a technical colour.

## **Communication channel for printing data**

E-mail, sFTP/FTP, HTTP, HTTPs download from the customer's own system or via the Rondo „Webcenter“ communication platform.