



# Repro Guide



At one location,  
over 300 experts work  
on more than 25,000 m<sup>2</sup>

**FOR YOUR SUCCESS.**



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**You can contact us at any time for a free consultation. We are looking forward to hear from you.**



- Open data** ■ Please ensure that the data is complete. If you send us open data, all typesetting documents, images and fonts must be included.
- Collection** ■ InDesign offers a collection routine that can be used to pack all data. It is important to pack the fonts so that they are not missing when the document is opened. We are not responsible for the completeness and accuracy of the data.
- Illustrator** ■ If you have placed images in your file, these should be embedded in the Illustrator file.

You can choose from the following delivery types:

- E-Mail** ■ E-Mail (max. 15 MB; to the person responsible)
- KL Upload** ■ <http://upload.kldruck.de>
- FTP-Server** ■ Please ask for access data; you will be informed automatically by e-mail after the upload.

**If you send us data on a regular basis, we can offer you real-time data verification via FTP. Please do not hesitate to contact us.**

**ICC-Profiles**



The basis of every good print file is an ICC color profile. This ensures the correct color representation for your desired printing process to match the selected substrate.

[Download ICC-Profiles](#)

**Colorsettings**



If you are working with the Adobe Creativ Suite, we have also created a \*.csf file for you to download.

Installation of the CSF file via Adobe Bridge.  
*Edit -> Color settings -> Place file -> Select*

This applies globally to all your Adobe products on your workstation.

**Win-Path:** *C:\Users\USER\AppData\Roaming\Adobe\Color\Settings*

**Mac-Path:** *USER > Library > Application Support > Adobe > Color > Settings > Colorsettings*

[Download CSF](#)

**JobOptions**



To save you time, we have generated the required JobOptions for the PDF export and made them available for download.

[Download JobOptions](#)

**We will be happy to help you with the installation.**





## PDF/X-4:2010



PDF/X-4 is a special PDF format for printing that offers many advantages:

### **Transparencies preserved** →

No need to reduce transparency, better quality.

### **Integrated color management** →

Supports ICC color profiles for consistent color reproduction.

**Embedded fonts** → Prevents missing or replaced fonts.

**Media-neutral work** → Supports RGB and CMYK color spaces for optimal adjustments to the machine color space.

**Layers & metadata** → Can contain layers to manage different print versions.

**Standardized & reliable** → Based on PDF 1.6, compatible with modern workflows.

**Better image quality** → Supports 16-bit images for maximum quality print data.

## Filename



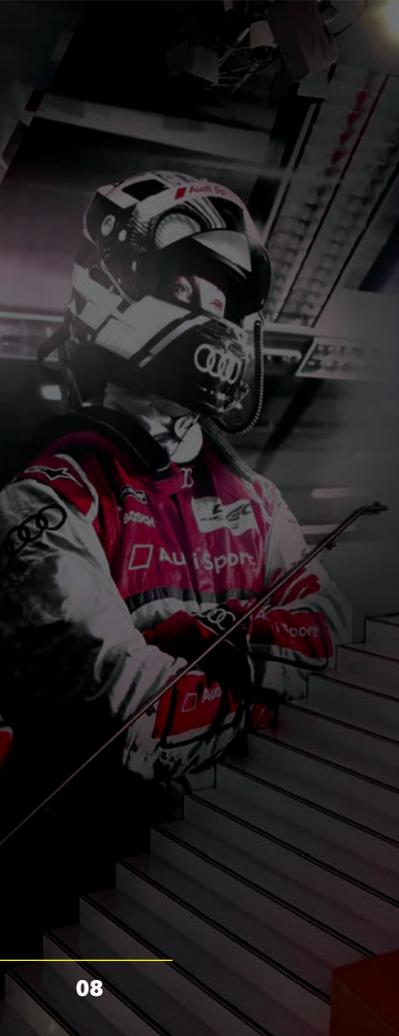
If available, please consider the following:

- insert the order, title and item number of KL in the file name
- please do not use any special characters or umlauts
- please specify the final format in the file name

Bsp.: 25500999-1-01\_3000x2000mm.pdf

- Bleed** ■ Please make sure to always create your document format in the net or final format, all other allowances are defined in the bleed. If you are working on a scale of 1 to 10, also create your bleed in the factor.
- 1 to 1 = 3.0 mm bleed  
1 to 10 = 0.3 mm bleed
- Textile printing** ■ If we produce in textile printing, we require 15 mm bleed all around the motif. Please do not use any cutting marks or similar, only the pure bleed. We sew the rubber piping into this bleed as an example to ensure that there are no blemishes.
- For hemstitching, the allowance is determined by the bar diameter.
- Example: rod  $\varnothing$  50 mm = allowance (trim) of 129.58 mm
- We will be happy to send you the formula for individual calculation.
- Scale/ UserUnit** ■ If you are creating data that is larger (W x H) than 5080 mm, please use a scale of 1 to 10.
- Final format: 7,000 x 9,000 mm  
File format: 700 x 900 mm
- Maximum pdf format per page: 5,080 mm x 5,080 mm
- Resolution** ■ In large format printing, we require at least **50 dpi in the final format**, as most large formats are viewed at a large viewing distance. For a 1 to 10, image data should be available at 500 dpi. You can send 1 to 1 prints as usual at 300 dpi.





- Color space** ■ All our processes are set up for ISO coated v2. Of course, ISO uncoated v2 is also available for uncoated papers.
- Spot Color** ■ Special colors such as RAL, PANTONE, HKS, etc. are converted into the corresponding color space of the machine using our color server via Lab<sup>®</sup> mapping. If you require special colors, we recommend fine-tuning with our pre-press department. Please get in touch with your sales contact from our team.
- Press proof** ■ We will be happy to produce a proof from your data. This allows you to get a real picture of the result and make any necessary adjustments. Please get in touch with your sales contact from our team
- Proofs** ■ We will be happy to create proofs of your files. Please get in touch with your sales contact from our team

**Overprinting**

All technical colors must always be set to “overprint” in the PDF. This can be found in the Adobe products under:

Adobe InDesign: Window > Output > Attributes > Overprint contour  
Adobe Illustrator: Window > Attributes

To check, use:

Adobe Acrobat Pro: Print production > Output preview > Overprint

**CUT-Contour**

If you want contour-cut prints, you can realize this very easily. Please create a special color channel with the name “CUT” in your document. Select 100% magenta as the color.

Now create an outline with a thickness of 1 pt in your desired shape on your finished layout. You only need to set this outline to “overprint”.

**White printing**

We can print with the special color white on various machines. If you wish to do this, please create the spot color “White”. Here too, the spot color must be set to overprint, otherwise we will no longer have any CMYK values in the PDF at these points. Attributes > Overprint area.

**If you prefer our support, feel free to contact our prepress experts at any time and free of charge by telephone: +49 2204 209-26 or by email: [druckvorstufe@kldruck.de](mailto:druckvorstufe@kldruck.de).**





**CutOuts**

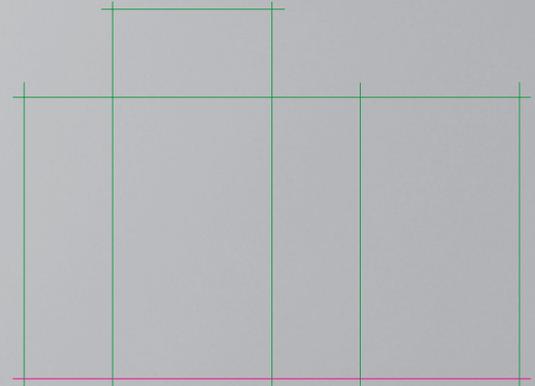


Contour-cut prints are always something special. Here you can see some examples.

Classic plate print with cut-out.



Classic contour cut incl. trimming



**5-sided box processing without base**

- Green** = V-CUT (individual lines with overlap)
- Pink** = CUT (final format cut)

## Classic large surfaces 4/0-colored

Variant	Designation	Poster format	Data format	Bleed	Resolution
4/1-Poster	Double A0	1.190 x 1.680 mm	297,5 x 420 mm	3 mm	530 dpi (1:1)
6/1-Poster	Advertising Pillar	1.190 x 2.520 mm	297,5 x 630 mm	3 mm	530 dpi (1:1)
8/1-Poster	Poster	1.190 x 3.360 mm	297,5 x 840 mm	3 mm	530 dpi (1:1)
18/1	Large Surface	3.560 x 2.520 mm	594,0 x 420 mm	3 mm	300 dpi (1:1)
40/1	Super Poster	5.260 x 3.720 mm	876,66 x 620 mm	3 mm	450 dpi (1:1)

## Backlit posters 4/0-colored

Variant	Poster format	Visible format	Data format	Bleed	Resolution
City light poster	1.185 x 1.750 mm	1.120 x 1.660 mm	296,25 x 437,5 mm	3 mm	530 dpi (1:1)
City light column	1.185 x 3.500 mm	1.130 x 3.370 mm	197,5 x 583,33 mm	3 mm	530 dpi (1:1)
Megalight	3.560 x 2.520 mm	3.400 x 2.400 mm	594 x 420 mm	3 mm	300 dpi (1:1)





### QSD



We are certified according to DIN ISO 12647 - The Digital Printing Quality Seal stands for qualified and competent employees, efficient and reliable production processes and the highest quality in digital printing in the respective company! For us, quality starts with the layout program.

### SMETA



“Sedex Members Ethical Trade Audit” stands for the highest social and ethical standards in the supply chain and ensures responsible and sustainable business practices.

### TISAX



“Trusted Information Security Assessment Exchange” - in accordance with DIN ISO 27001 guarantees the highest security standards when handling sensitive data and strengthens the protection of information throughout the entire supply chain.

- FSC** ■ Since 2011, the FSC seal has stood for responsible forest management and guarantees that wood and paper products come from sustainably managed forests - an important contribution to environmental and climate protection as well as biodiversity.
- ClimatePartner** ■ ClimatePartner enables us to calculate and reduce our CO<sub>2</sub> emissions and offset them through certified climate protection projects - a transparent and measurable contribution to sustainability.
- natureOffice** ■ NatureOffice supports us in calculating, reducing and offsetting CO<sub>2</sub> emissions through certified climate protection projects - for a sustainable and climate-neutral future.





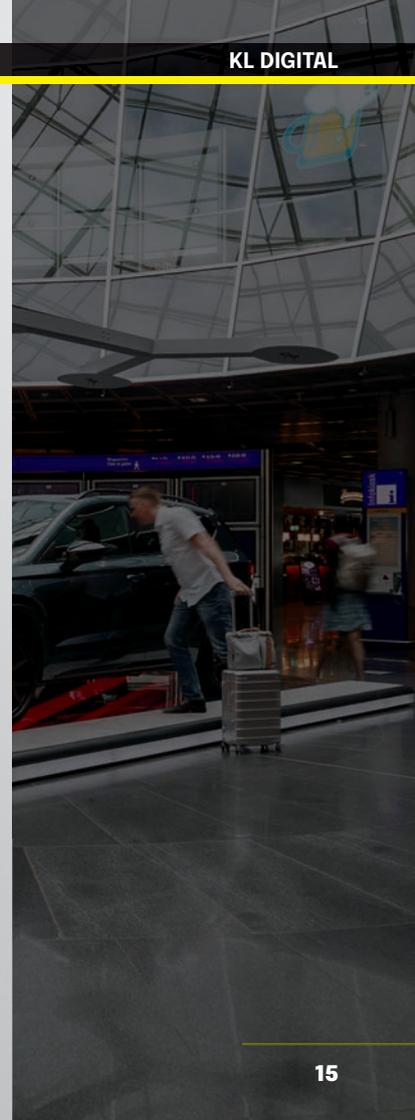
<b>Display technology</b>	■	LCD, OLED for In- & Outdoor
<b>Display sizes</b>	■	32 to 115 Inch
<b>Brightnesses</b>		350 – 4000 cdm <sup>2</sup>
<b>Resolutions (native)</b>	■	Full HD 1.920 x 1.080 Pixel 4K 3.840 x 2.160 Pixel
<b>Interfaces</b>	■	DisplayPort (HDCP) HDMI (HDCP) USB 2.0 Slot-in PC
<b>Alignment</b>	■	Portrait format, landscape format
<b>Haze Level (%)</b>	■	The haze level value indicates how well a display is anti-reflective. The higher the haze level, the higher the anti-reflective coating. A higher haze level is always recommended if the display is positioned in direct proximity to a light source. The maximum anti-glare level is approx. 40%.

- LED technology** ■ SMS, COB etc. für In- & Outdoor
- Display sizes** ■ Customized
 

LED modules consist of cabinets, which are units that can be assembled into a wall according to your needs. Cabinet sizes are available in 500x500mm (1:1) and 600x337mm (16:9).
- Brightnesses** ■ 500 – 7500 nit
- Resolutions** ■ depends on the overall size of the LED wall and the pixel pitch. (Pixel pitch describes the distance between two pixels, measured from pixel center to pixel center)
 

Pixel pitches of less than 0.5mm are currently being planned. Currently available on the market are from 0.78mm to 25mm and more.
- Projector technologies** ■ LCD, 1 Chip DLP and 3 Chip DLP with Laser Unit
- Display sizes** ■ Customized
- Brightnesses** ■ 500 – 50.000 ANSI Lumen
- Resolutions** ■
 

Full HD	1920x1080 Pixel
4K	3840x2160 Pixel
4K Wobbling	(with Image Prozessing on 4K scaled)
- Alignment** ■ DisplayPort (HDCP), HDMI (HDCP), USB 2.0



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