

Reprographics Specifications for Springfield Solutions Print

Guidance and directions to ensure that the correct reprographic and pre-Press materials are provided to facilitate an effective print treatment

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General

Please ensure reprographics and pre-Press materials are supplied in line with these specifications. Reprographics and /or other materials received that are not in line with these specifications may be returned to its originators and may cause a delay to the print process for which the originator will be responsible.

Springfield Solutions Limited may, at the request of client, modify 3rd party produced reprographics that fall outside of specification, though this may be subject to a fee.

The “Perfect Package”



Adobe Acrobat Hi Res PDF



All submissions of reprographics and pre-Press materials to Springfield Solutions should include the following:

- Adobe Acrobat Hi-Resolution PDF
- Adobe Acrobat Lo-Resolution PDF
- Hard Copy Proof.

The nature of the proof should reflect the demands on the proof:

- For colour matching, a colour accurate proof is required that is comprehensively colour managed to reflect the performance characteristics of the press that will print the job
- For content approval only, any proofing document that will allow all pack components and text to be clearly seen and/or read

All hard copy proof must be signed off by an appropriate authority to signify client acceptance prior to dispatch to Springfield Solutions.

Creating & Managing Hi-Resolution PDFs

Hi-Resolution PDFs of reprographic content are mandatory as they enable the efficient processing of orders by Springfield Solutions **Step & Plate** team using the Pandora functionality of their Prinergy workflow.



Adobe Acrobat Hi Res PDF

If no Hi-Resolution PDF is supplied, the **Step & Plate** team will not process the order, which may jeopardize print timings.

When naming Hi-Resolution PDFs, please ensure that the file name starts with the label code and ends with the suffix “_HR.pdf”. This suffix will ensure that the **Step & Plate** team at Springfield Solutions knows that this is a Hi-Resolution version of the PDF.

Please do not use more than 28 characters when naming the Hi-Resolution PDFs. The 28 character limit includes the “_HR.pdf” suffix referenced above. This character limit is important as the Pandora application within Prinerger will not accept files in excess of 28 characters in file name.

Managing & Naming Colours



The maximum number of colours that should be in the file should be six. Foil blocking and varnish layers do not count as a colour.

Where possible you should avoid synthesizing target colours with more than 3 colours from the extended standard colour set:

- Cyan
- Magenta
- Yellow
- Black
- Orange
- Green
- Violet

Colours made from more than 3 components have a higher “patterning” risk on the press. If in doubt, please consult your contact at Springfield Solutions.

Please also avoid tonal values of <5% and >95%.

For jobs that may be produced digitally, try to avoid combinations of Green and White if this is possible. The combination of green and white requires ink changes on the digital presses that are time consuming and costly. If in doubt, please consult your contact at Springfield Solutions.

Please name all Pantone colours with the suffix “CV” at the end, i.e. PANTONE 123 CV. This naming convention is important as it will allow the Step & Plate team to map the colour using Prinerger functionality when preparing files for digital printing. Failure to name Pantone colours in this way does not allow us to exploit technology, causes waste and unnecessary cost.

If Printed White is required, please name the colour “Printed White”.

Please delete ALL un-used colours off the file. Please ensure reprographic files do not contain embedded colour profiles.

This is important as the digital presses will print all colours in the file, even if not used to produce the label. This results in additional ink and consumable costs. This is avoidable waste.

Please note that it is unlikely that the colours shown by your monitor will be the same as is produced by the printing process, this is because a monitor displays in RGB and is subject to Balance and Contrast adjustments. Please also note that a desk Inkjet or Laser printer will also not truly reflect the colours on the industrial scale printing press, as these printers are not normally calibrated to do so.

The Reprographic Treatment

Technical Specifications:

The technical specifications below should allow you to build the file correctly.

Reprographics / Print Standards	
Maximum Number of Colours per Job	6

Ink Densities	[Hi-Colour 2006 Standard] Cyan: 1.5 to 1.6 Magenta: 1.5 to 1.6 Yellow: 1.0 to 1.1 Black: 1.8 to 1.9 Orange: 1.5 to 1.6 Green: 1.5 to 1.6 Violet: 1.5 to 1.6
Dot Gain	20% at 50
Spread	0.2mm
Chokes	0.2mm
Bleeds	1.5mm
Minimum Point Size, Positive Print	4 Point Medium Sans Serif
Minimum Point Size, Negative Print	6 Point Medium Sans Serif
Screening	- Stochastic for Conventional Print - 180 HDI for Digital Print
Angles (For Digital only)	C: 4° / M: 64° / Y: 18° / K: 34°
Minimum Line Thickness Positive Print	0.15mm
Minimum Line Thickness Negative Print	0.20mm
Minimum Distance from Cutter edge	2mm
Minimum Dot %	5%
Maximum Dot %	98%
Bar Code: Bar Width Reduction (BWR)	0

Printed Whites:

When a Printed White is required on a job please make sure the white is gripped back by 0.2mm in all instances where it appears underneath another colour, this is so that if we get any spread on the white on press it will not show on the label.

Should further information be required, or if anything requires clarification, please ask your contact at Springfield Solutions.

Cutters & Bleeds:

Please ensure that the Cutter is included with each job.

The Cutter colour should be named "Cutter" and MUST be a spot colour and must be set as overprint. This is important to ensure that the Pandora application has something to snap to during the stepping process prior to print.

Please remember to add a 1.5mm bleed all around the job.

Resolution:

All images should be supplied at a minimum of 300 DPI. Any reprographic content supplied lower than 300DPI may print blurred or pixilated.

PDFs should be set as follows:

- overall resolution of 2400
- individual line art resolution of 1200DPI
- individual bitmap resolution of 300DPI

A Springfield Solutions alternative to Acrobat Distiller's Press settings is available on request. This is set to achieve best possible results for Hi Res PDFs.

Typesetting and Fonts:



Fonts should not be renamed or modified. Please do not use the text display attributes (Bold, Italic, etc). Rather, use font families with suitable choices.

Fonts should be embedded in the Hi Res PDF.

For optimal text register, it is advised to create text from a maximum of two colours. This is particularly important when using reverse-out (negative print) text.

Bar Codes:



If relevant, please place all Bar Codes in the job at 100% magnification with no truncation. Please consult your contact at Springfield Solutions in any other circumstances.

Proofs

All reprographic and Pre-Press material should be supplied with a colour proof.

The nature of the proof should reflect the demands of the proof:

For colour matching, a colour accurate proof is required that is comprehensively colour managed to reflect the performance characteristics of the press that will print the job.

When colour accurate proofing is being submitted please ensure that the proof type is acceptable to Springfield Solutions Print Division via consultation with the relevant Customer Service Representative.

If any ICC profiles have been applied to colour critical proofs, you must supply the ICC profile information together with the file.

For content approval only, any proofing document that will allow all pack components and text to be clearly seen and/or read



All hard copy proofs must be signed off by an appropriate authority to signify client acceptance prior to dispatch to Springfield Solutions.

Please ensure that all approved proofs are delivered to the relevant Print Customer Service Representative as soon as they are available. This will allow our Print Customer Service Representative to prepare Works Orders and Print Standards if required. It will also allow them to pass proofs to the Step & Plate team to allow them to check their outputs against approved client copy.

If for any reason a proof approval is withdrawn, please inform the Print Customer Service Representative as soon as possible to avoid incorrect labels being printed.

Amends to Existing Labels

If you revising or amending a label or packaging component that is printed by Springfield Solutions, please inform your Print Customer Service Representative as soon as possible to ensure the update of our system. This will stop any incorrect labels being printed during the amendment stage.

Equally, if you are aware that a label or packaging component is to be superceded by a newer version, please inform your Print Customer Service Representative as soon as possible. Please be prepared by having both old and new label codes.

Technical Questions?

In the event of any technical questions please contact:



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