

Fairfax_SydNews_V2 ICC Set

This document provides key background information on process profiles used within the PhotoShop CSF file supplied. The file is intended for use with coldset, web offset printing on 42gsm Newsprint manufactured by Norske Skog printed at a screen ruling of 100lpi.

All those who carry out color transformations for reproduction on newsprint should use these settings that contains process specific ICC files for the specific destination color spaces.

When everyone working on the production process adopts the same system of color management, the potential is there to maintain color accuracy from input to output.

ICC compatibility

The profiles contained in this CSF file conform to the conventions of the ICC standard for colour profiles, and could be used with any ICC-compatible application with any ICC-compatible CMM (Colour Management Module) on any platform.

PhotoShop 6.x and 7.x Color Management Settings

Loading the CSF File

The CSF supplied should be loaded in the following place to have it appear in the settings menu of the color settings dialogue box:

(Windows)

Program Files / Common Files / Adobe / Color / Settings.

(Mac OS)

System Folder / Application Support / Adobe / Color / Settings.

To load the settings supplied with this readme file when located in a different place on your system:

1. Choose Edit > Color settings.
2. In the Color Settings dialog box, click Load.
3. Locate and select the desired color settings file and click load.

When you load a custom color settings file, it appears as the active choice in the settings menu of the Color Settings dialog box. If you load a settings file that has been saved outside the recommended location, it temporarily replaces the other option in the settings menu until another settings file is loaded.

RGB Working Space: ColorMatchRGB

ColorMatchRGB has been chosen as the RGB working space. All files being opened should be converted to this working space. ColorMatchRGB is an open standard monitor RGB space providing an ideal space for pre-press editing. This color space is large enough to accommodate CMYK news print work, magazine work, and RGB monitor and television gamuts.

Untagged and tagged RGB images should in most cases be converted to the working space used in this set-up. For more information, consult your help file shipped with PhotoShop.

CMYK Working Space: Fairfax_Syd_NewsColour_V2

ICC profile for Fairfax Coldset Web Printing using Norske Skog Newsprint 42gsm at 100 line screen, conventional plates.

Based on measurements taken from Chullora print site.

Paper: 42gsm

Date of Profile Production: 06/05/03

Printing Process: Newspaper Web, Coldset inks

Measuring Techniques: SpectroscanT, two samples per square, 5 sheets averaged from press run.

Measuring Conditions: One sided print out of the test chart, measuring conditions: D 50/2 measuring setup, which means the calibration for colourmetric data is done relative to absolute white. A D50 light source was used and the observer was positioned at an angle of less than 2 degrees vertically to the surface. No polarising filter was used for determining colourmetric values.

Software Used: Gretag ProfileMaker 4.0.

Separation Settings: MaxK, black start 5%, total ink setting of 235% Max Black 93%.

Default Rendering Intent: Perceptual with Logo classic gamut mapping variant; paper grey axis.

CMM: Defined by Application

Grey Working Space: Dot Gain 25%

Working Space reflecting a dot gain of 25%. Evaluation and measurement of printed step wedges indicated this is the optimal dot gain compensation necessary for Chullora Fairfax print site.

Based on measurements taken from Chullora print site.

Paper: 42gsm

Date of Profile Production: 06/04/03

Printing Process: Newspaper Web, Coldset inks

Spot Working Space: Dot Gain 25%.

As per Mono working space and dot gain compensation.

Notes on characterization data

The profiles are based on characterization tables that were generated using the standard procedure for outputting a digital data set specified in ISO 12642 (IT8.7/3). The color table was output on film while observing the rule laid down in ISO 12647-3 [3] that the percentage data value shall equal the tone value on film. Printing was performed on press under carefully controlled conditions while observing the tone value and solid density and achievable colour gamut specifications of ISO 12647-3 [3] standard for coldset offset printing. The Colorimetric measurement with a spectrophotometer (Gretag SpectroscanT) followed the pertinent standard for graphic arts, namely 5.6 of ISO 12647-1 [1], which specifies geometry 0/45 or 45/0; 2 degree observer according to the new tables in the standard, illuminant D50, CIELAB System.

References

[1] ISO 12647-1, Graphic technology - Process control for the manufacture of half-tone colour separations, proof and production prints - Part 1: Parameters and measurement methods

[2] ISO 12647-2 Graphic technology - Process control for the manufacture of half-tone colour separations, proof and production prints, Part 2: Offset processes

[3] ISO 12647-3 Graphic technology - Process control for the manufacture of half-tone colour separations, proofs and production prints, part 3 Coldset lithography on newsprint

[4] ISO 12642, Graphic technology - Prepress digital data exchange - Input data for characterisation of 4-colour process printing