

## Imageable Files of IT8.7/4 Default Layouts ReadMe File

This ReadMe file accompanies and provides information in support of the following files:

- IT8.7-4\_VISUAL.eps
- IT8.7-4\_VISUAL.pdf
- IT8.7-4\_RANDOM.eps
- IT8.7-4\_RANDOM.pdf
- IT8-7-4\_DEFAULT.csv
- IT8-7-4\_IT873\_MATCH.csv
- IT8-7-4\_IT873\_CREATE.xls

The eps and pdf files are imageable files of the default visual and random layouts of the IT8.7/4 data set described in ANSI/IT8.7/4-2005. The IT8-7-4\_04-DEFAULT.csv file provides the row/column positions for both the visual and random layouts,. The file IT8-7-4\_04-IT873\_MATCH.csv contains a cross-reference to the PatchIDs of the IT8.7/3 data set and IT8-7-4\_04-IT873\_CREATE.xls is a spreadsheet that provides a convenient way to create an IT8.7/3 data file from a IT8.7/4 data file.

### Background Information

The ANSI/IT8.7/4-2005.standard does not require that any particular arrangement be used for printing the data set. However, it was felt by the CGATS committee that default layouts were desirable to facilitate use of the target in many applications. Accordingly, two default layouts are defined for the convenience of users..

One is for "visual" use where the appearance of the target is based on the ECI visual layout and the additional patches required by CGATS are contained in four columns across the 33 patch short dimension. This allows the row column designators for the patches contained in the ECI visual layout to remain unchanged.

In the second layout, the patches were randomized to minimize the influence of the target arrangement itself on the final results. However, to facilitate the use of patches within the target for process control verification, 15 patches were selected and placed in a block bounded by rows 16 to 18 and columns 23 to 27.

#### Layout of process control patches within default random layout

Patch ID	Row	Column	C%	M%	Y%	K%
1287	16	23	100	0	0	0
1307	16	24	0	100	0	0
1327	16	25	0	0	100	0
1347	16	26	0	0	0	100
1369	16	27	80	65	65	0
1296	17	23	50	0	0	0

1316	17	24	0	50	0	0
1336	17	25	0	0	50	0
1356	17	26	0	0	0	50
1611	17	27	50	40	40	0
657	18	23	0	100	100	0
721	18	24	100	0	100	0
81	18	25	100	100	0	0
1387	18	26	0	0	0	0
1372	18	27	20	12	12	0

## Permissions

These image files and the associated data files IT8-7-4\_DEFAULT.csv and T8-7-4\_IT873\_MATCH.csv may be used and distributed without restriction as long as the ANSI/IT8.7/4-2005 standard is clearly identified as the source of these images and files.

Although the image files may be freely distributed within the conditions defined, the relationship between Patch ID and CMYK ink values is a normative part of the ANSI/IT8.7/4-2005 standard and covered by copyright restrictions. These data may be included as part of measurement and characterization data reports, however these data may not be included in commercial products, or items that are sold, without appropriate license from NPES, the secretariat to CGATS. The relationship between Patch ID and CMYK ink values alone may not be published in any form, either hardcopy or electronic, without an appropriate license from NPES.

## Image File Description

The files provided have a nominal patch dimension of 6 mm by 6 mm. In addition automated reading alignment patches are included along each long dimension. Row column numbers are also included along one short and one long dimension to facilitate patch identification. This results in an image area of approximately 11.8 inches by 8.5 inches (300 mm by 216 mm).

Users are reminded that the physical size of these images may be scaled as necessary based on the printing area available and the reading requirements of the measurement system to be used for evaluation.

Both the .pdf and .eps files have been prepared as vector data. Users are cautioned that many applications that are used to convert these files to raster data (typically .tif files) use 8-bit encoding of the tone values. Such 8-bit encoding cannot exactly specify the tone values used and slight quantization errors will occur. For example if a tone value of 10% is encoded in 8 bits in a typical application (where 255 is 0% and 0 is 100%) the nearest value to 10% is 230, which corresponds to 9.8%.

**More Information**

Users of these files are urged to purchase a copy of ANSI/IT8.7/4. An order form is available at <http://www.npes.org/standards/orderform.html>.