

Screen Printing on PYRAN[®] S

Fire glazing gets colourful





PYRAN® S -

life gets colourful

Glass in buildings can now be enhanced with bright colours and distinctive patterns. The variety of colours and patterns available for screen printing are almost unlimited. Now designers and architects can exploit their creativity on fire resistant glass.

As a thermally toughened borosilicate glass, PYRAN® S has a lot more to offer. Compared to soda lime glass, PYRAN® S has a lower thermal expansion and higher resistance to temperature. That's why PYRAN® S fire resistant glass can be fully screen printed. This method of decorating PYRAN® S has been tested for up to two hours integrity.



Screen printing on PYRAN® S goes way beyond pure aesthetics:

Complete surface decoration is possible due to the special strength and stability of PYRAN® S.

By applying different density of patterns it is possible to adjust transparency and energy absorption.

Wide range of colours and patterns offer unlimited design opportunities.



COMBINATION
of Safety & Design



Glass and colours

The RAL colour palette is the basis for the standard colours used for printing. A small deviation from the RAL colours can occur during the production process. The colour effect of printed PYRAN® S can vary depending on the glass thickness and viewing conditions. Colours are applied to the glass either by screen printing or a rolling process depending on the degree of coverage required. During the toughening process the colours are burnt into the glass making them colourfast, abrasion-proof, scratch resistant and weatherproof. Screen printed PYRAN® S should be cleaned and maintained as with other toughened glasses. Monolithic safety glass like PYRAN® S cannot be processed after toughening. Please state which side is to be printed when ordering.



Screen printing

The illustrated range of patterns on the following pages are shown in actual size (1:1). Further designs are available on request.

It is recommended to make a sample before every print run based on the application conditions and the intended purpose of the glass.

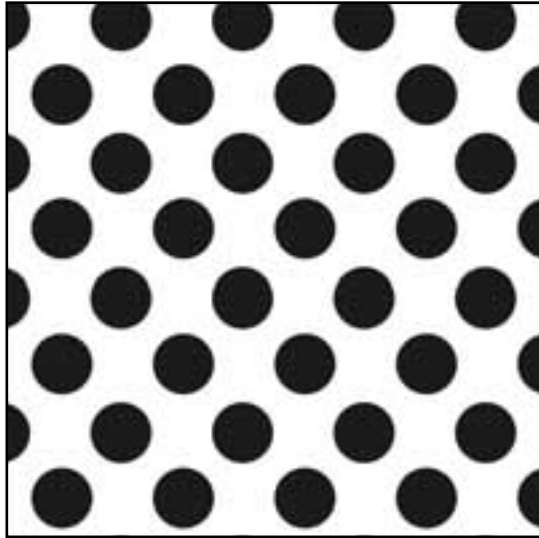
▶ For more information and technical advice please contact:

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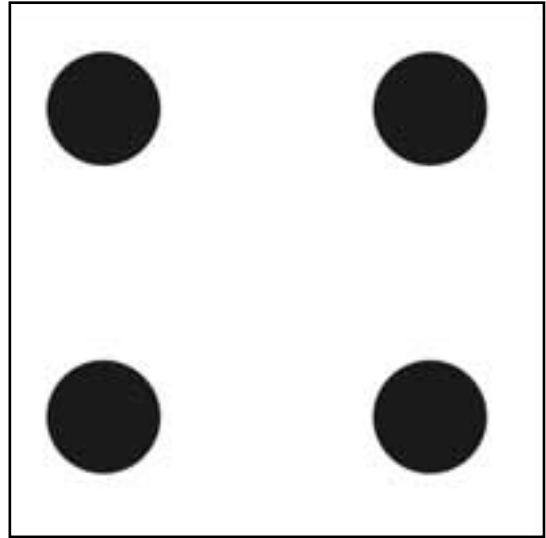
Available sizes

Glass thickness	Minimum glass dimensions	Minimum printable dimensions	Maximum glass dimensions	Maximum printable dimensions
6, 8, 10 and 12mm	130mm x 270mm	200mm x 400mm	1600mm x 3000mm	Depends on chosen pattern. Refer to following pages

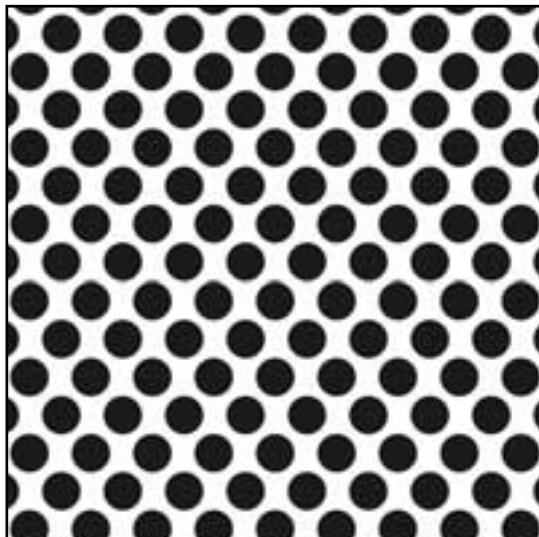
Standard screen printing patterns



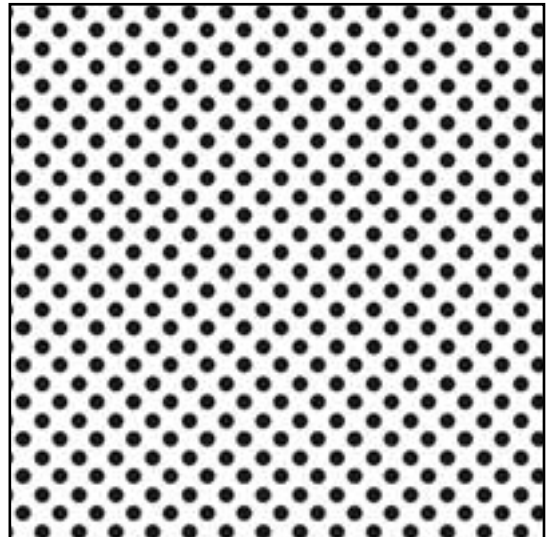
Pattern:	Ref: PP 05 Dots Ø 8mm
Degree of printing:	34%
Max print area:	1400mm x 3000mm



Pattern:	Ref: PP 07 Dots Ø 15mm
Degree of printing:	15%
Max print area:	1600mm x 3000mm



Pattern:	Ref: PP 08 Dots Ø 5mm
Degree of printing:	60%
Max print area:	1600mm x 3000mm



Pattern:	Ref: PP 09 Dots Ø 2mm
Degree of printing:	30%
Max print area:	1600mm x 3000mm

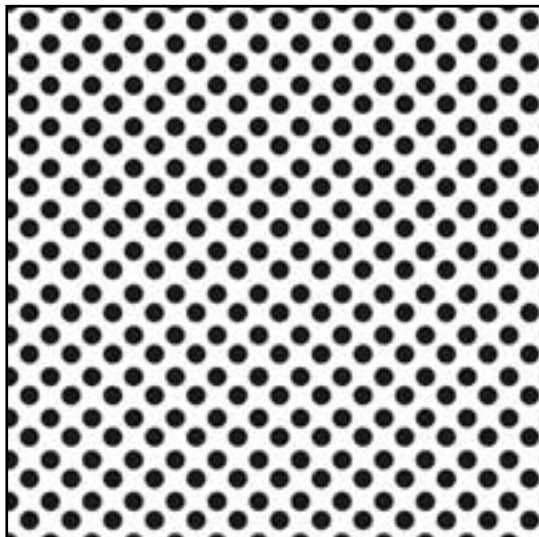
Standard screen printing patterns



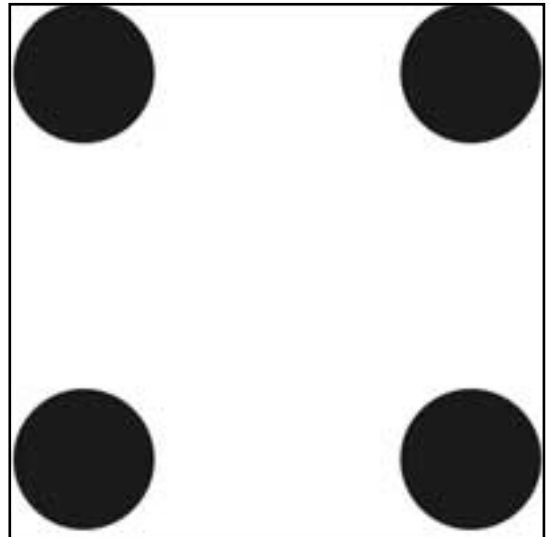
Pattern:	Ref: PP 10 Dots Ø 20mm
Degree of printing:	40%
Max print area:	1600mm x 3000mm



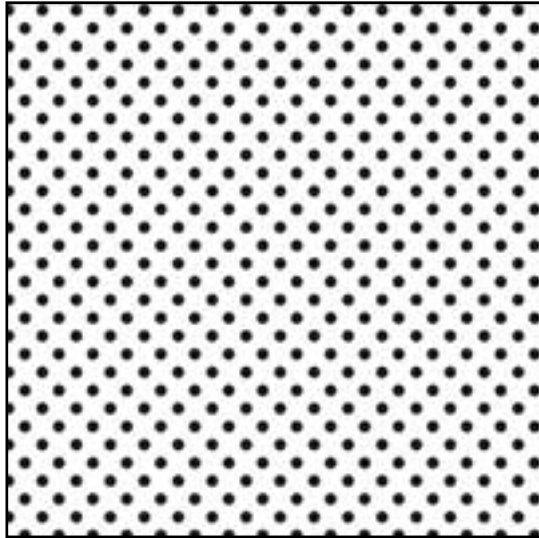
Pattern:	Ref: PP 11 Dots Ø 8mm
Degree of printing:	40%
Max print area:	1600mm x 3000mm



Pattern:	Ref: PP 12 Dots Ø 2.5mm
Degree of printing:	24%
Max print area:	1600mm x 3000mm



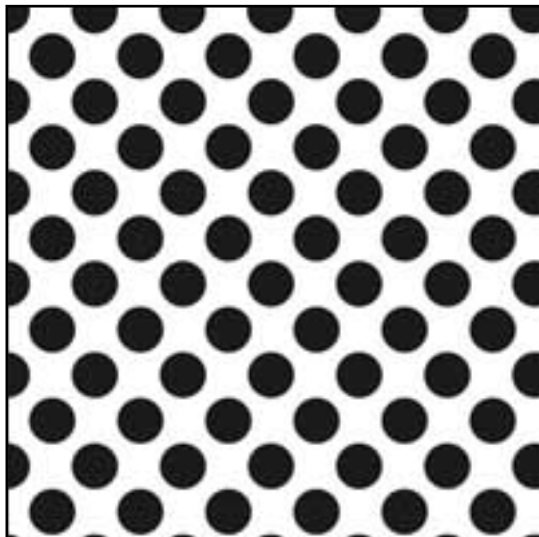
Pattern:	Ref: PP 13 Dots Ø 20mm
Degree of printing:	9%
Max print area:	1600mm x 3000mm



Pattern:	Ref: PP 14 Dots Ø 1.5mm
Degree of printing:	10%
Max print area:	1600mm x 3000mm



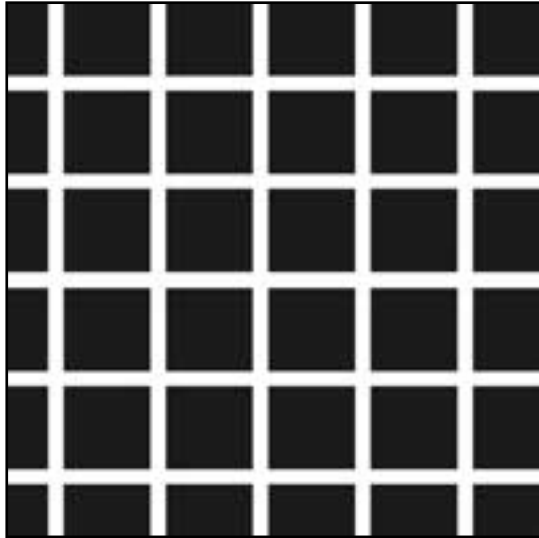
Pattern:	Ref: PP 15 Dots Ø 8mm
Degree of printing:	70%
Max print area:	1600mm x 3000mm



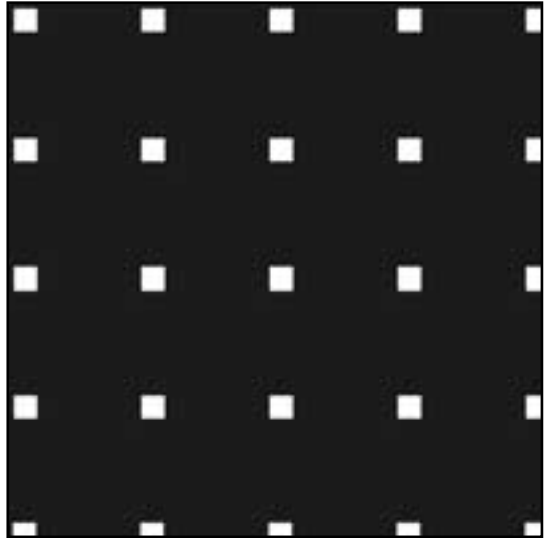
Pattern:	Ref: PP 16 Dots Ø 6mm
Degree of printing:	50%
Max print area:	1600mm x 3000mm



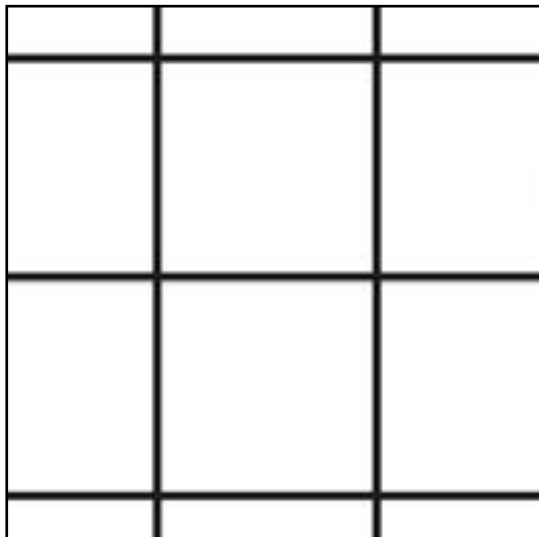
Pattern:	Ref: PP 18 Dots Ø 15mm
Degree of printing:	40%
Max print area:	1600mm x 3000mm



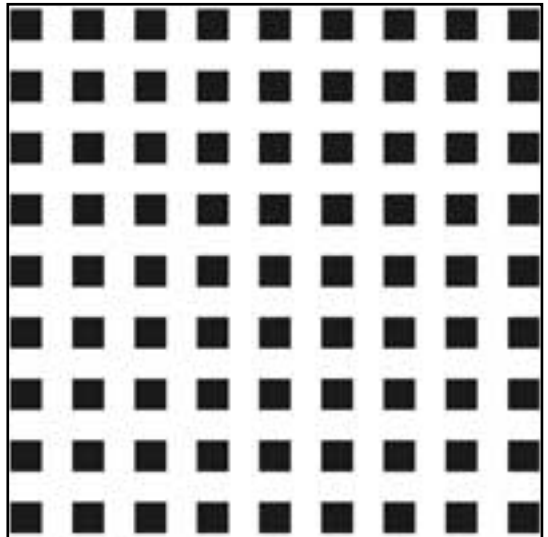
Pattern:	Ref: PK 01 11 x 11mm
Degree of printing:	70%
Max print area:	1000 x 2000/530 x 1080mm



Pattern:	Ref: PP 15 (complete surface) 3 x 3mm (non-printed)
Degree of printing:	97%
Max print area:	1400mm x 2360mm

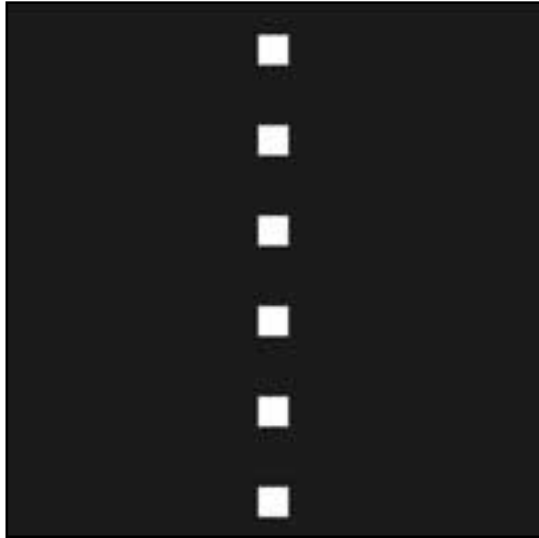


Pattern:	Ref: PK 03 30mm (line width 1mm)
Degree of printing:	6%
Max print area:	1600mm x 3000mm

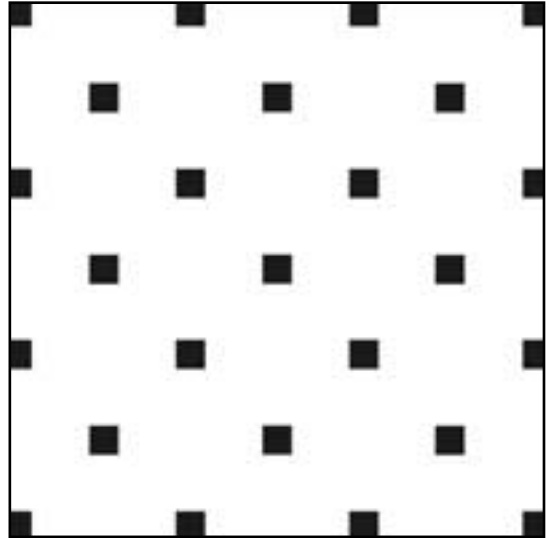


Pattern:	Ref: PK 04 4 x 4mm
Degree of printing:	25%
Max print area:	1600mm x 2500mm

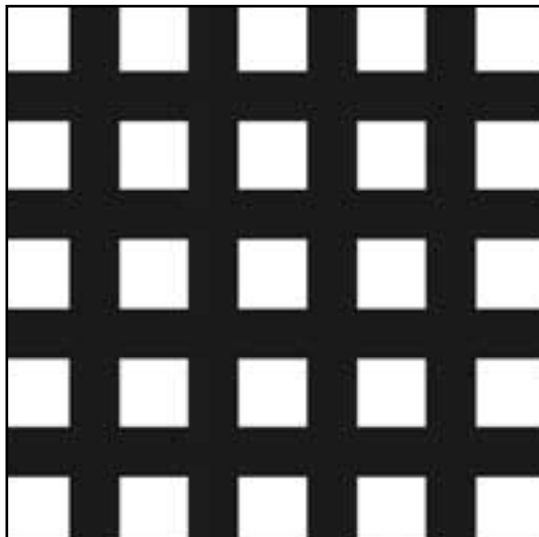
Standard screen printing patterns



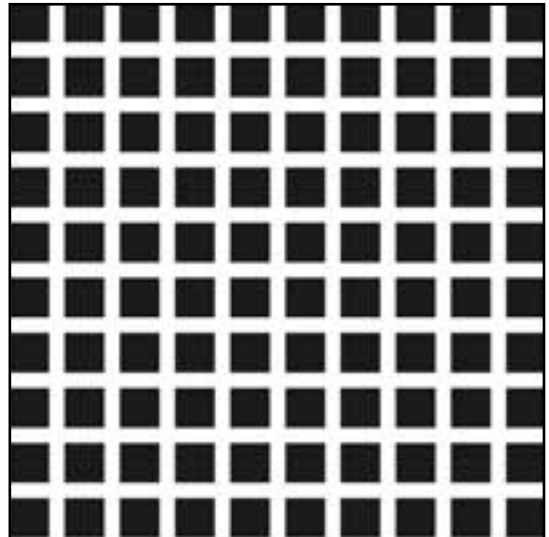
Pattern:	Ref: PK 05 58 x 58mm (114mm apart)
Degree of printing:	98%
Max print area:	1000 x 3000mm



Pattern:	Ref: PK 06 4 x 4mm
Degree of printing:	5%
Max print area:	16000 x 3000mm

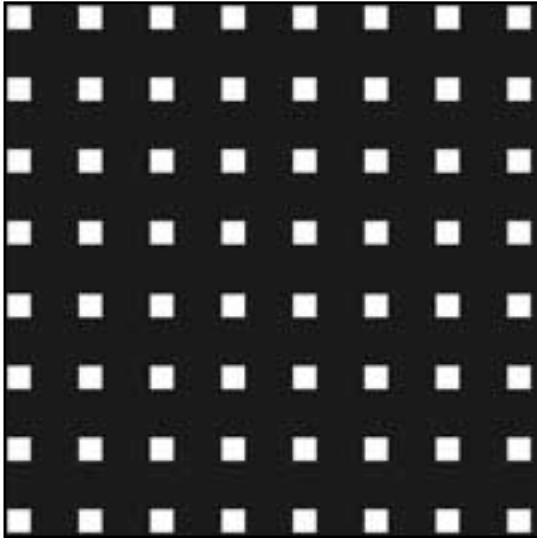


Pattern:	Ref: PK 07 8 x 8mm (complete surface)
Degree of printing:	70%
Max print area:	1600mm x 3000mm

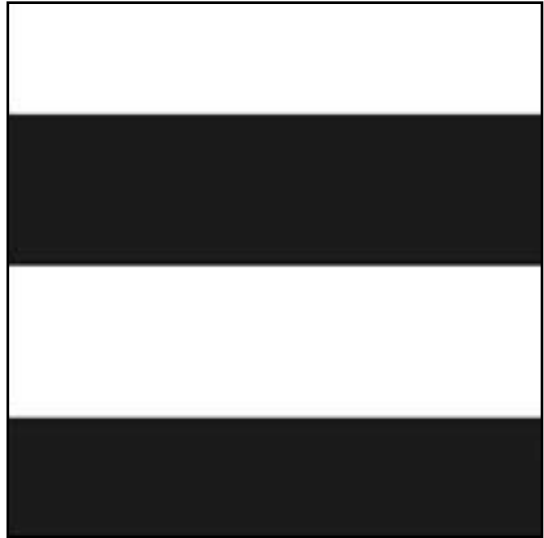


Pattern:	Ref: PK 10 5 x 5mm
Degree of printing:	50%
Max print area:	1600mm x 3000mm

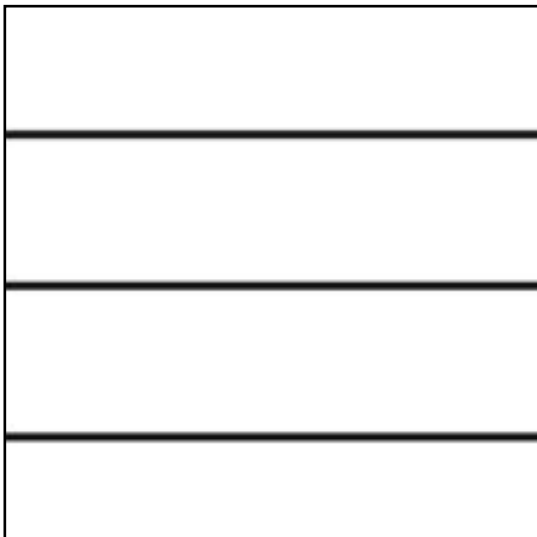
Standard screen printing patterns



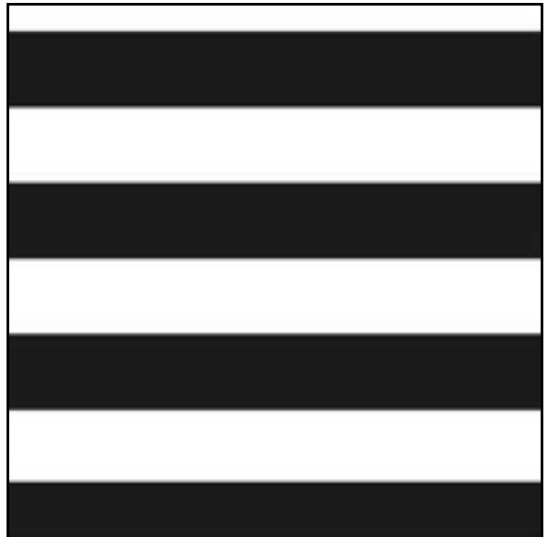
Pattern:	Ref: PK 11 3 x 3mm (non-printed)
Degree of printing:	90%
Max print area:	1600mm x 3000mm



Pattern:	Ref: PL 08 20mm width, 20mm apart
Degree of printing:	50%
Max print area:	1600mm x 2200mm



Pattern:	Ref: PL 09 1mm width, 29mm apart
Degree of printing:	3%
Max print area:	1600mm x 2000mm



Pattern:	Ref: PL 10 10mm width, 10mm apart
Degree of printing:	50%
Max print area:	1600mm x 3000mm

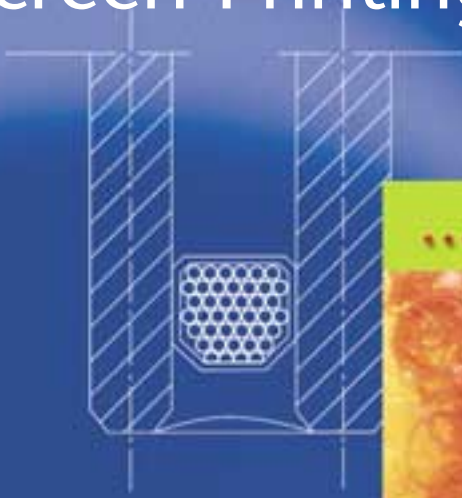
RAL-COLOUR RANGE



The colours illustrated above are only a selection of the range available. Further colours are available upon request. Reproduction of the coloured swatches illustrated can result in some variation from the original colours.



Screen Printing on PYRAN[®] S



... life gets colourful



The number of possible colours and patterns available for screen printing on PYRAN[®] S is almost unlimited. Due to the special properties of the thermally toughened borosilicate glass it is possible to print on large areas of PYRAN[®] S. So creativity can now be used in designing fire resistant glazing.

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