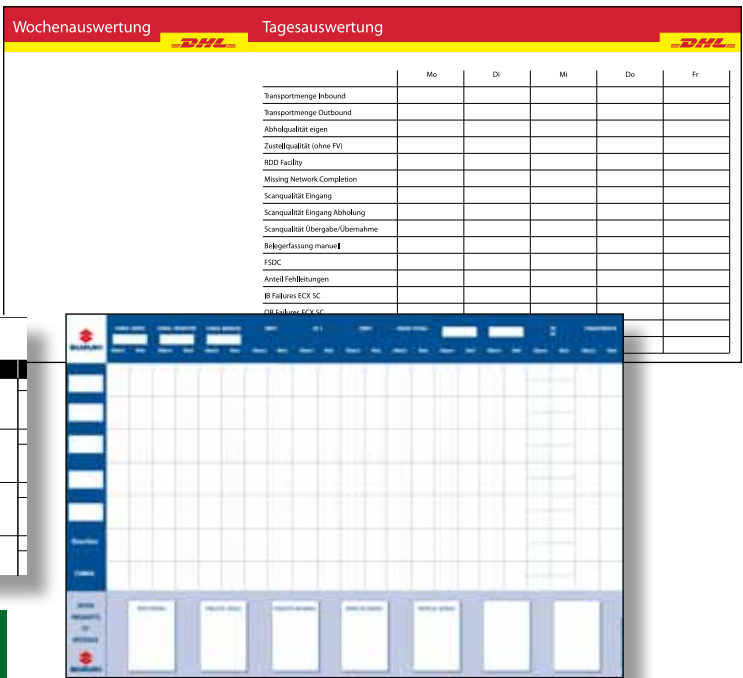
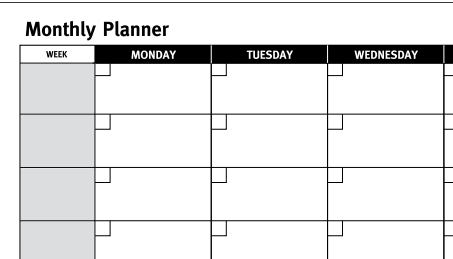
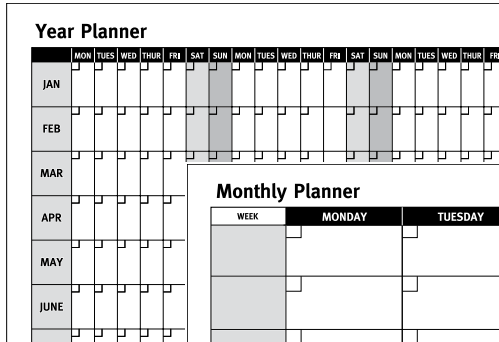


Other graphic applications

Different commercial and educational planners with custom made or standard printing.



Photoluminescent screenprinted signs glow in the dark by emitting light absorbed from daylight or artificial light. These signs are mainly used to point out safety exits.

Maps

- 13. Map football stadium, Amsterdam - The Netherlands
- 14. Tourist map, Nieuwenhoven - Belgium
- 15. City map, Peer - Belgium
- 16. Map Hyde Park, London - United Kingdom
- 17. City map, Zutendaal - Belgium
- 18. Map on standard in Friesland - The Netherlands
- 19. University site plan - France

screenprinting applications in ceramicsteel

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Environmental Policy: PolyVision strives for continuous improvement in all areas of environmental stewardship – responsible use of raw materials and natural resources, design processes and operation of all facilities – to protect, replenish, and restore the communities in which we live and serve.

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Public Buildings • Photographs • Directional Signs
Advertising • Historical Markers • Artwork
Public Transportation • Maps • Decorative Wall Cladding



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The extraordinary quality and durability of PolyVision ceramicsteel provide a highly functional surface for an unlimited range of silkscreen applications, including surfaces for public buildings, decorative wall surfaces, signs, historical markers, fine art and photography. PolyVision has advanced the silkscreen printing process to its highest level from a quality as well as an aesthetic point of view. With the enameling technology, single or full-colour images are applied and fired into the ceramicsteel surface resulting in an increased surface value with unlimited lifetime expectancy.

Advantages
Unique quality characteristics



Chemical Resistant



Scratch Resistant



Bacteria Resistant



Fire Resistant



Graffiti Resistant



Stain Resistant



Process Description

Artwork:
1. Metro station Sint Kathelijne, Brussels - Belgium • 2. Metro station, Prague - Czech Republic • 3 Bridge cladding - The Netherlands • 4. Metro station Lemonnier, Brussels - Belgium • 5. Metro station, Prague - Czech Republic

Signage and Information panels:
6. SOS corner in metro station, Amsterdam - The Netherlands • 7. Touristic info panel, Esneux - Belgium • 8. Info panel, Peer - Belgium • 9. Street name - Belgium • 10. Touristic info panel, Hastière - Belgium • 11. Touristic info panel, Genk - Belgium • 12. Info panel metro station - The Netherlands

Base Artwork and Films

For the production of PolyVision's Graphic Ceramicsteel, the original artwork, a high resolution picture, slide or clear drawing must be available. PolyVision creates the films. However, the client may choose to supply PolyVision with the film material that matches our process requirements (available upon request).

Screens

Screens are manufactured by stretching a porous polyester cloth over an aluminium frame. The cloth has an emulsion layer and the number of dots per inch of colour is determined by the grade of the cloth. The film image is placed upon the screen and exposed to UV-light. Where the light affects the emulsion layer, it is fixed on the screen cloth. The dark areas may then be washed away with water leaving a negative illustration on the screen, parts of which are porous and can allow enamel pastes to be screened through onto the PolyVision ceramicsteel surface.

Enamel Pastes

The enamel pastes, a mixture of enamel powder and oil, are developed and manufactured in the PolyVision laboratory according to the Pantone or RAL colour requested reference. The accuracy of these colour pastes is essential for the end result of the screenprinted graphic artwork.

Screenprinting

The actual printing is done with semi-automatic flat table screen printing machines. PolyVision has invested in the latest technology guaranteeing optimal quality and accuracy. The ceramicsteel sheet is accurately positioned and vacuum adhered to the table. The enamel paste is pushed through the screen onto the ceramic and the sheet is then dried in an infrared furnace. After the last printing, the ceramic sheet is fired at a temperature of over 700 °C, resulting in a fusion between the enamel paste and the ceramicsteel.

Technical Information

1180 x 3000 mm (up to 5000 mm max. on request)
Maximum dimension of the printed surface

1200 x 5000 mm
Maximum plate to be screen printed

When supplying films, please note:

- films must be designed to full-size (1/1)
- 50% elliptical dots
- positive films have emulsion layer on top
- transparent polyester film
- density: minimum 10%, maximum 90%.

