

## Visual effects and additional functions, i.e., POLFLAM<sup>®</sup> glass in a variety of finishings

**Fire-resistant glazings are more and more often replacing ordinary, heavy walls which comply with the required fire resistance and allow providing the interiors with the desired lightness and transparency. POLFLAM<sup>®</sup> glass gives architects more options. Its large-size glass panels are truly impressive. And this is just the beginning, as they can be a perfect background for manipulating the image, light and colour.**

### Light, colour and texture

There are many possibilities for finishing POLFLAM<sup>®</sup> glass.

The first is the use of glazing as a characteristic element of interior design by using digital printing on it. Using this method ceramic paint can be applied on glass to allow obtaining most complex patterns. The glass surface can be imprinted with text or drawings, including 3D-effect images. You can also visually give it a texture of any material: marble, wood, stone, steel or concrete.

Another option is decorative screen printing. This technology allows for the whole glass panel to be covered with ceramic paint in any colour from the RAL or NCS palette or with simple graphic patterns. It does not require any additional glass panes to be sealed in; the printing is carried out directly on the POLFLAM<sup>®</sup> glass, which allows you to combine ordinary and coloured panes in one unit.

With ceramic paint, you can also differentiate the transparency of individual panes, depending on the thickness of the enamel layer applied - this gives the effect of curbing and dispersing light, regardless the colour chosen by the designer.

In the case of POLFLAM<sup>®</sup> F glass, intended for floors and stairs, functional screen printing is often used - ceramic paint with antiskid properties is applied on the glass.

All prints are hardened in the hardening process, which protects them from damage and ensures their proper durability.

The glazing of laminated glass based on the Vancev film makes it possible to achieve resemblance to stained glass. That is transparent film in a wide range of colours, allowing for changing the colour of the glass panel while maintaining its translucency.

### Other functions

What if we could control the translucency of the panes, according to needs? It's possible. This effect can be reached through adding intelligent LCD glass to POLFLAM<sup>®</sup> glass, using liquid crystal technology. This is an excellent solution for open space offices where you can create an ad hoc conference room, exhibition rooms or medical consulting rooms.

Venetian glass added to the unit provides it with transparency on the one side and mirror surface on its other side.

Lead-glass pane added-in provides optimal shielding against radiation - this is a function to be used, for example, in glazings singling off hospital X-ray rooms.

POLFLAM<sup>®</sup> fire protection glass in itself achieves soundproofing parameters recommended in places particularly exposed to noise; depending on the EI class, the Rw coefficient is 40-47 dB. Adding appropriate glass panel allows you to easily increase this value up to 52 dB. This parameter plays a particular role in places like conference rooms or concert halls.

POLFLAM<sup>®</sup> glass is a multi-functional product. Thanks to various options for finishing and added glazings, it gives designers great freedom in interior design – both in terms of visual value and functionality.



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