

Everlasting aesthetics

– POLFLAM[®] fire-resistant glass in timber

Contemporary architecture definitely means glass; its minimalism being combined today with the warmth and nobility of natural materials. In new buildings, windows and indoor glazing more and more often appear in timber framework. This most noble material used in the production of window and door joinery is experiencing a real renaissance. Moreover, thanks to modern technology, it can also be used in the parts where fire resistance is required.

POLFLAM[®] fire-resistant glass can be combined with wood in various ways: typically, when mounted in wooden joinery, or when a partition is put in a frameless system with wooden finishing strips. In wooden structures POLFLAM[®] glass EI 30, EI 60 and EI 90 is used, while in the frameless system – POLFLAM[®] BR glass EI 30 and EI 60 is applied.

In the partitions installed in wooden joinery, glass panels can have dimensions of up to 1800 x 3600 mm, with a maximum area of 5.44 m², and non-standard geometric shapes. In frameless systems, it is up to 2200 x 4200 mm (with the area of 9.24 m²).

Using frameless technology, you can create glazing of almost unlimited length, just adding more glass modules.

Our ability to create panels of non-standard shapes from POLFLAM[®] glass is of decisive importance in the case of renovation of historic buildings in which arches are often found. Doors mounted in such a corridor receive, for example, semi-circular sills.

POLFLAM[®] bent glass can also be mounted in wooden framing or in a frameless system with decorative wooden trims. And most importantly, the technological

and laboratory facilities of the POLFLAM[®] factory (including own furnace for fire resistance tests) allow us to test the newest solutions.

Wood used in firewalls is a very demanding, and therefore, exclusive material. Wooden structures can be combined with glass of various properties. High light transmittance (Lt), colour neutrality and high sound insulation (R_w) play a key role in every case. POLFLAM[®] glass guarantees a very high level of all these parameters.

Combination of glass and wood has become a clear trend in architecture; therefore, we will see it more often nowadays. The trend is accompanied by the development of POLFLAM[®] products applicable for fire-resistant wooden partitions.



▲ POLFLAM[®] fire-resistant glass was installed in woodwork at a Luxembourg minister's office



▲ POLFLAM[®] fire-resistant glass in the door and wooden windows with natural finishing at the school premises in Kayl, Luxembourg



▲ An example of POLFLAM[®] BR glass used in a modern office – frameless mounting with minimalist wooden strips