

## Performance boost for fire safety glass with Technoform's warm edge solution

With a hybrid construction of precision-engineered polypropylene and steel, Technoform's SP14 warm edge spacer enables a leading UK insulating glass manufacturer to combine high thermal efficiency and structural stability and fire resistance in insulating glass units.

[Read more about it here.](#)

### The company

Pyroguard is part of the Technical Fire Safety Group, and the world's leading independent provider of fire safety glazing systems for timber, steel and aluminium applications. With production facilities based in the UK and France and further sales representation covering the UK & Ireland, France, Netherlands, Scandinavia, Spain, Germany, Middle East, and North America, the company manufactures fire safety glass that enables architects, specifiers and installers to achieve their vision of safe and beautiful living and working spaces.

## The challenge

In the UK, warm edge spacers are recognized as a key element in the energy efficiency of glazing - and this particularly applies to fire-safe windows. Warm edge spacers can help buildings meet the requirements of building regulations, Part L (energy performance) and Part B (fire safety), improving environmental performance and safety records.

Pyroguard were looking for a field-proven quality warm edge solution for the manufacture of fire-resistant insulating glass units (IGU) that would reduce environmental impact through high energy efficiency while meeting strict fire safety regulations. Furthermore, the company was looking for an innovative supplier with superior experience in warm edge solutions.

**“Warm edge spacers are increasingly used throughout the glazing industry to reduce system thermal bridging, becoming a critical factor for manufacturers, architects and planners.”\***



## The solution

Technoform’s warm edge spacer SP14 provides Pyroguard with all the necessary properties to meet the high requirements for safety glass. The SP14’s hybrid construction of precision-engineered polypropylene and steel has superior thermal properties, while the steel co-extruded into the spacer ensures structural stability and durability in fire situations.

Pyroguard and Technoform together successfully collaborated on an extensive full scale fire testing program and launched a new fire safety solution with high thermal efficiency. Pyroguard’s SP14-equipped fire-rated IGUs have successfully passed the demanding EN BS 1364 fire resistance test for insulating glass units at Warringtonfire (UK) and Efectis (FR).

**“Our partnership with Technoform has enabled us to now bring improved thermal performance to the fire safety glass sector, combining safety with sustainability.”\***

## The result

With Technoform as an experienced partner for warm edge solutions, Pyroguard was able to give its fire-resistant safety glass a massive thermal performance boost as well as additional durability and stability in fire situations due to the unique composition of the Technoform SP14. The entire process from requirements gathering, feasibility analysis and testing to market launch was successfully accomplished in close and trustful cooperation between the two companies.

Thanks to the thermal upgrade of its safety glass with Technoform's SP14 warm edge spacers, Pyroguard now has a state-of-the-art product that guarantees the company an edge in the market and long-term competitiveness. Both companies will continue to collaborate on continuously improving the performance of Pyroguard's safety units and drive this innovative system into the market.

**"We're very proud to be the first fire safety glass manufacturer to offer this performance upgrade as standard in the market."\***

**\* Quotes by Andy Lake, Sales Director UK & IRE at Pyroguard**



## About Technoform's SP14 warm edge spacer in fire resistant systems

Unlike conventional metal spacers that conduct heat and cause the glass to break, Technoform's SP14 spacer maintains its full structural integrity in case of fire and prevents the transfer of heat, limiting the spread of fire and smoke. Furthermore, the SP14 enables warm edge solutions for fire-resistant glasses with high thermal performance.

## Thermal edge bond solutions for insulating glass

in cooperation with



TECHNICAL FIRE SAFETY GROUP