



Fire Protection Glazing

Pyran®SFOG: Intelligent and Efficient Protection for Fire Protection Glazing with Water Mist

FOGTEC Brandschutz GmbH & Co. KG has, in cooperation with the company SCHOTT JENAer GLAS GmbH, developed an integrated system combining the high cooling effect of FOGTEC water mist with the efficiency and light weight of PYRAN® S.

The patented PYRAN®SFOG system has been targeted at absorbing the heat radiation generated in case of a fire.

Water is atomised by FOGTEC water mist systems at a pressure of 100 bar by special nozzles, forming a fine water mist which offers excellent heat binding properties.

The conversion of water to a fine spray of extremely small droplets permits the rapid absorption of thermal energy and at the same time a reflection of heat radiation.

PYRAN®S is a monolithic, thermally prestressed borosilicate glass. When used in fire protection glazing, it is an effective protection against the spread of fire and smoke. However, the thermal radiation emanating from a fire will still pass through the glass. Such thermal radiation is absorbed and reflected by the water mist so that escape routes along the fire protection glazing become upgraded.

The PYRAN®SFOG System permits transparent, architecturally sophisticated and yet cost-effective solutions for the protection of buildings against fire.

Architects, consulting engineers and planning experts are now in a position to integrate lighter and more transparent glass constructions into buildings of high aesthetic value because the use of PYRAN®SFOG allows to incorporate larger glass surfaces and glasses of lighter weight.



The Smarter Way of Fire Fighting

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The PYRAN®SFOG System ensures that the glass remains **transparent** even when exposed to the effects of heat, in contrast to conventional F-glazings.



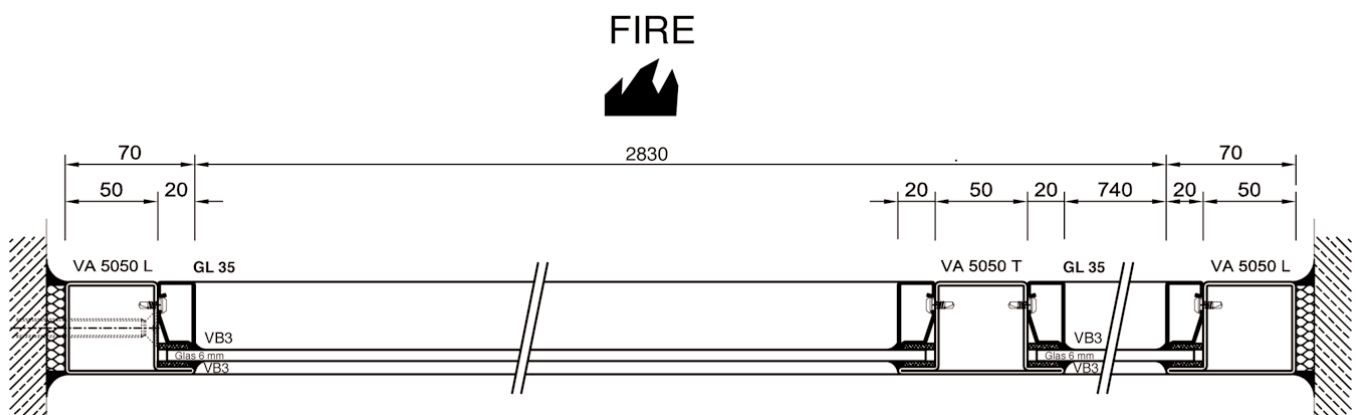
Especially applications with high demands on fire protection, such as atria, museums and archives, but also clean rooms, are predestined for using this system. The light-weight feature of PYRAN®SFOG, which is superior to glasses of the same classification, allows a higher degree of flexibility already at the planning stage.

Possible applications:

- Archives
- Museums
- Hospitals
- Hotels
- Public buildings
- Schools
- Airports
- Stadiums
- Theatres

System advantages:

- **Visibility through the glass, also in case of fire**
- **Light and architecturally sophisticated construction solutions**
- **Flexibility at planning stage**
- **Upgrading of escape routes by binding of heat radiation**



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