



## **Fire Resistant & Acoustic Glazing Solutions**





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Phone : 01422 861116  
Fax : 01422 861126  
Email : sales@performanceglass.co.uk  
Web : performanceglass.co.uk



## About PGP

Performance Glass Processing has been founded on quality and service, set up to provide on-demand fire rated and acoustic glass products to the timber, Aluminium and steel manufacturers of West Yorkshire.

Since 2014 we have been expanding our product range to cover decorative products for domestic, retail and commercial projects, and in January 2015 we began our highly successful IGU manufacturing department. We now cover the whole of the UK mainland, and are proud to be associated with some of the best names in the industry.

## Install & Supply

As well as processing glass, we offer an installation service on special projects. Our projects team offers complete materials supply for fire rated, and acoustically demanding projects.

The unique approach at Performance Glass allows our clients to deliver high value projects on budget and on time, whilst giving you complete control over the supply chain.

Whether you require timber, Aluminium, steel or upvc, our time-served teams will take care of your needs from proposal through to completion.

Please do not hesitate to get in touch if you require this service.

Find us on  
  







## Timber Firescreens

### PERFORMANCE

- Fire rated in accordance with BS 476 Part 22: 1987 to FR30 & FR60 (Glass can be supplied as integrity only, or integrity and insulation)
- Acoustic tests of non-fire and fire-rated / safety glass in accordance with BS EN ISO 140:3 1995
- Single and Double glazed options available

### CONSTRUCTION

- FR 30 glazed screens available as approved softwood or hardwood
- FR 60 glazed screens available as approved hardwood
- All glazing types supplied are approved safety glass to BS 6206 and Approved Document K, where required
- Butt jointed glazing options available
- Supplied in a white primed finish as standard

ANOSCREEN

## Steel Firescreens

'Our unbiased access to the proprietary steel profile market enables us to offer a versatile range of options for your project. Whether powder coated mild steel, satin finished or bright polished stainless steel, 30/0 rated or 120/120 rated, our systems comply with the very latest test standards.'



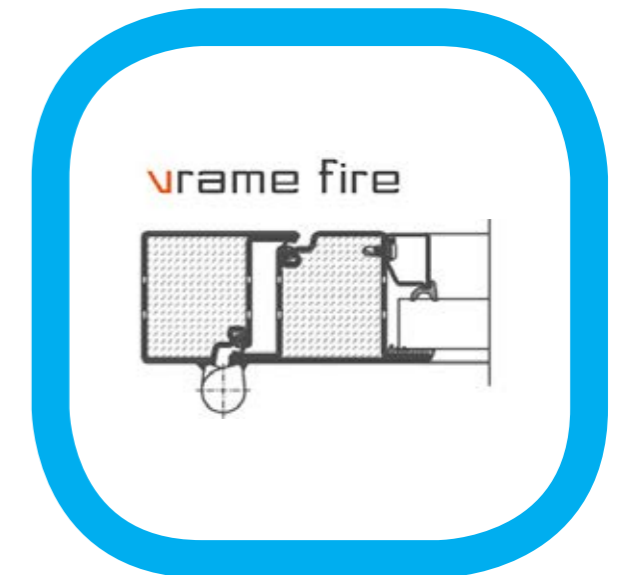
RP Technik Fire and Smoke protection systems are effective, smart and design oriented.

Modular building set, one profile for all classifications EI30,60 and 90 due to application of variable isolators.

JANSEN



voestalpine



# Our Aluminium Fire Rated Systems

Our Aluminium fire screens are manufactured on site giving you full control over the supply chain, complying with the very latest test standards.



The ADS 80 FR 30 & FR 60 systems have been tested in accordance with European standards (EN 1364/1634) and German standards (DIN 4102), fulfilling all the requirements of fire protection classes EI30 (T30/F30) & EI60 (T60/F60)

Ideal for internal or external application, these systems are approved with an excellent choice of fire rated glass products:

- PYRANOVA®
- SchücoFlam
- Contraflam
- Contraflam Lite
- Pyrodur
- Pyrostop



**ADS 80 FR 30**

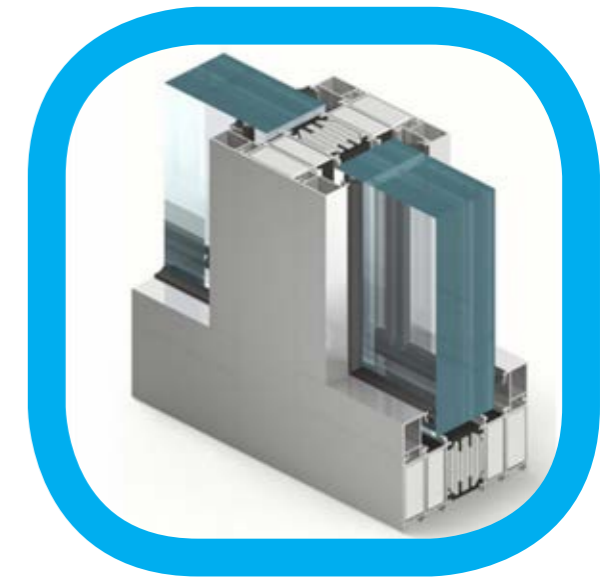


Our Fire Rated product range includes door and window wall partitions for both internal and external applications. Depending on requirements, these products can achieve different levels of performance in terms of fire rating.

Available in EW30 to EI90 in MB-78EI system for doors and screens, and up to EI120 using MB-118EI for window walls.

Approved glasses with Aluprof Systems -

- PYRANOVA®
- Fireswiss Foam
- Polflam
- Contraflam
- Contraflam Lite
- Pyrobel
- Pyrostop
- Swissflam
- Swissflam Lite



**ALUPROF MB 118EI**



**ALUPROF MB 78EI**



## Aluprof System features and benefits:

- Systems fully tested to the latest EN 1364/1634 and certified with CERTIFIRE scheme
- The largest selection of glass products tested and approved
- Corrosion resistance and number of finishes including dual colour and anodising
- Excellent weather-tightness combined with high thermal and acoustic performance
- Maximum screen height is 4000mm for window wall
- Application of the typical euro grooves enable the installation of most of the available fittings offered by major companies



## RAUFERNO PVCU Range

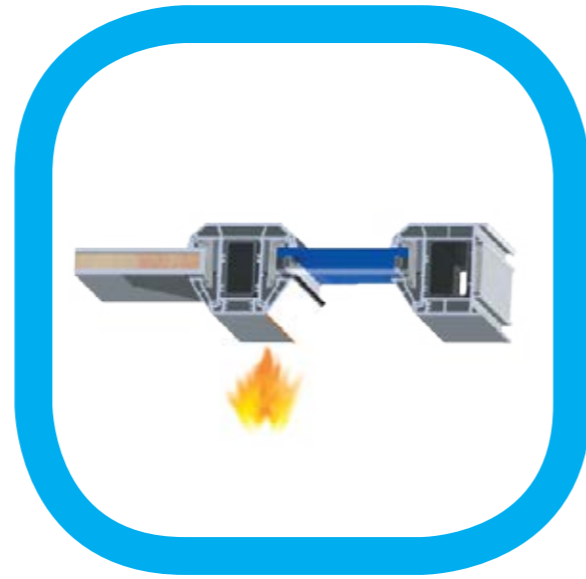
No longer restricted by traditional fire rated materials and construction techniques, RAUFERNO gives you the freedom to use PVC-U fire resistant windows and still comply fully with current building regulations for most protected areas, due to full certification to BS476 Parts 20 and 22.

The RAUFERNO PVC-U fire resistant windows, a patented industry first, is based upon and has all of the design and security benefits of the REHAU TOTAL70 70mm profile.

RAUFERNO provides you with all the safety and security of traditional fire rated products, but with PVC-U's added inherent benefits of:

- Improved thermal insulation
- Sound Proofing
- Low maintenance
- Excellent security options

With performance of all fire rated products so critical, REHAU has taken every step possible to ensure unsurpassed standards of manufacture through approved fabricators. To receive REHAU accreditation, all fabricators (who must be BSI, BBA or FIRAS accredited) must undergo certified REHAU training and provide proof of a top level QC system. To ensure correct installation, installers must be trained by a recognised scheme for fire products.



## Acoustic and Laminated Glass

Our array of ready-made Saint-Gobain acoustic glasses are cut and stocked in-house from 6.8mm though to 16.8mm. The use of acoustic glass is becoming more popular in office fit outs, schools, hospitals and residential developments. The use of glass in these applications creates an illusion of space and light, adding to the aesthetic appeal of the room. In addition to this, today's glazing options offer privacy both for audio and visual specifications.

Depending on the specification, our specialist acoustic glass range is available in a variety of thicknesses, and dB ratings, offering in excess of 35dB Rw as standard, 50dB Rw on demand, and as high as 60dB Rw using verified construction techniques. Please feel free to give us a call and our friendly team will give you the best technical advice to ensure your getting the right glass for you.



## The Pyroguard Range

Pyroguard glass is designed to provide safe and visually appealing glazing solutions in a variety of building applications. Here are some of the stock products available to protect your building against smoke and fire while retaining optimum temperature, natural light and acoustic control:

Name	Thickness (mm)	Certifire	Impact Rating to EN12600	Acoustic Rating
Pyroguard EW30 Impact	7	CF 257	2(B)2	33 dB Rw
Pyroguard EW30 Satin	7	CF 257	2(B)2	33 dB Rw
Pyroguard FD60	7	CF 257	2(B)2	33 dB Rw
Pyroguard EW30 Impact (10)	10	CF 257	2(B)2	34 dB Rw
Pyroguard EW30 Priva-See	11	CF 257	2(B)2	33 dB Rw
Pyroguard EW30 Maxi	11	CF 257	2(B)2	35 dB Rw
Pyroguard EW60	11	CF 257	2(B)2	35 dB Rw
Pyroguard EI30 (INT)	15	CF 437	1(B)1	38 dB Rw
Pyroguard EI30 (EXT)	19	CF 437	1(B)1	39 dB Rw
Pyroguard EI60 (INT)	23	CF 437	1(B)1	40 dB Rw
Pyroguard EI60 (EXT)	27	CF 437	1(B)1	41 dB Rw

To compliment the stock products, Pyroguard's bespoke toughened range is a fast growing competitor, offering high quality and versatility for a wide range of internal and external applications. The EW and EI range use

one or multiple fire rated inter-layers which are UV stable, and extensive testing with IGU's makes them a good choice for building envelopes and acoustic partitions.

## PYROBELite & PYROBEL

AGC's PYROBELite is an annealed laminated glass construction. PYROBELite 7 and 12 have been the market leaders for many years and the intumescent interlayer(s) offer comfortably large pane sizes for 30 and 60 minutes integrity respectively. The EG range allows for external use, and offers a P2A security rating suitable for PAS24 assessment.

AGC's PYROBEL range is a laminated annealed glass construction, using multiple fire rated inter-layers to offer both integrity and insulation. These have been the market leaders for many years and their unique structure allows them to achieve larger pane sizes than many other comparable products. With specifically designed horizontal application panels, this range covers most eventualities.

Name	Thickness (mm)	Certifire	Impact Rating to EN12600	Acoustic Rating
PYROBELite 7	7.9	CF 377	3(B)3	34 dB Rw
PYROBELite 9EG	12.1	CF 377	1(B)1	37 dB Rw
PYROBELite 12	12.3	CF 377	2(B)2	36 dB Rw
PYROBEL 16	17.3	CF 377	2(B)2	39 dB Rw
PYROBEL 19H	19.1	CF 377	1(B)1	38 dB Rw
PYROBEL 23H	23.7	CF 377	1(B)1	39 dB Rw
PYROBEL 28H	28.4	CF 377	1(B)1	41 dB Rw

Performance Glass offers a complete range of fire resistant glasses, tested and approved according to European and National Standards, that provide a unique combination of LIGHT, TRANSPARENCY and FIRE PROTECTION, for all building applications, framing types, fire resistance classes and durations.

# Our Schott Fire Rated Products

Performance Glass Processing Ltd is an official UK stockist of PYRANOVA® speciality glass, offering fully-processed panes and able to advise customers on the most suitable fire-resistant glazing solutions. With a broad industry network and a commitment to high quality products and outstanding customer service, our company is ideally suited to support SCHOTT in further developing its PYRANOVA® business in the UK market.

PYRANOVA® is a reliable, high specification speciality glass for fire-resistant glazing, combining full insulation with fire integrity and impact protection. This clear, laminated composite glass is made up of several thin panes of float glass, with a transparent fire-resistant layer that intumesces in the event of a fire. When used as a component in fire-resistant glazing, PYRANOVA® speciality glass meets the requirements of fire resistance classes

EI 15 to EI 120. It prevents the passage of fire, smoke and heat radiation and, due to its structure, protects against fires from either side. This makes it ideally suited to glazing systems situated in escape routes. PYRANOVA® specialty glass has been tested within a number of frame types including timber, steel & Aluminium. It has also successfully passed fire tests in a butt-jointed configuration up to 3m high.

**SCHOTT**  
glass made of ideas

Name	Thickness (mm)	Certifire	Impact Rating to EN12600	Acoustic Rating
PYRAN®S	6	CF 291	1(C)1	31 dB Rw
PYRAN®S	8	CF 291	1(C)1	32 dB Rw
PYRAN®S	10	CF 291	1(C)1	33 dB Rw
PYRAN®S	12	CF 291	1(C)1	34 dB Rw

Name	Thickness (mm)	Certifire	Impact Rating to EN12600	Acoustic Rating
PYRANOVA® 15 S2.0	11	CF 386	2(B)2	36 dB Rw
PYRANOVA® 30	15	CF 862	2(B)2	38 dB Rw
PYRANOVA® 30	19	CF 862	2(B)2	38 dB Rw
PYRANOVA® 60	23	CF 862	1(B)1	41 dB Rw
PYRANOVA® 60	27	CF 862	1(B)1	41 dB Rw
PYRANOVA® 90	37	CF 862	1(B)1	44 dB Rw
PYRANOVA® 90	40	CF 862	1(B)1	44 dB Rw
PYRANOVA® 120	52	CF 862	1(B)1	44 dB Rw
PYRANOVA® 120	54	CF 862	1(B)1	44 dB Rw

PYRAN®S is the only toughened borosilicate glass available on the market. PYRAN®S soaks up much larger amounts of heat before deforming and allows it to achieve higher integrity ratings than conventional sodalime products; it can even be used as a butt jointed system to achieve 60 minutes integrity.

PYRANOVA® is a laminated annealed glass construction, using one or multiple fire rated inter-layers to offer integrity, radiation control, and insulation, dependant on the thickness. PYRANOVA®60, 90, and 120, are all constructed using low iron glass for enhanced clarity.

PYRAN®S offers excellent resistance against heat to 450°C, making it an excellent product to use in heat deflection for fire pits, as well as for use where high temperatures are prevalent. Its clear optical quality likens it in appearance to low iron sodalime glass.



## Fireswiss Cool

FIRESWISS COOL achieves 30 minutes integrity to EN 1364 – 1 and can give up to 49 minutes integrity along with the benefit of partial insulation against radiated heat, helping prevent the increase of room temperatures and enabling access to escape paths and exits in the event of fire.

FIRESWISS COOL is available in 7, 9, & 11mm thicknesses, enabling effective fire protection and is ideal for applications such as fire doors and internal partitioning.

FIRESWISS COOL has enviably clear optical qualities and added safety benefits, achieving 3(B)3 impact safety levels in 7mm, 2(B)2 in 9mm thickness, and 1(B)1 in 11mm thickness.

- 30 Minute integrity fire resistant glass
- Protection against fire and smoke
- Reduced heat radiation
- Superior optical clarity
- Added impact safety benefits

Name	Thickness (mm)	Certifire	Impact Rating to EN12600	Acoustic Rating
Fireswiss Cool 30-7	7	CF 699	3(B)3	35 dB Rw
Fireswiss Cool 30-7 2(B)2	9	CF 699	2(B)2	35 dB Rw
Fireswiss	11-16	CF 699	1(B)1	36 dB Rw

Name	Thickness (mm)	Certifire	Impact Rating to EN12600	Acoustic Rating
Fireswiss Foam 30-15	15	CF 592	1(B)1	38 dB Rw
Fireswiss Foam 30-19	19	CF 592	1(B)1	39 dB Rw
Fireswiss Foam 60-23	23	CF 592	1(B)1	43 dB Rw
Fireswiss Foam 60-27	27	CF 592	1(B)1	44 dB Rw



## Fireswiss Foam

FIRESWISS FOAM can provide up to 60 minutes integrity and insulation, protecting both people and property in the event of a fire.

FIRESWISS FOAM is available in thicknesses from 15mm to 27mm depending on the fire rating required and whether required for internal or external glazing.

FIRESWISS FOAM has enviably clear optical qualities and is available in large tested sizes.

- Up to 60 minutes integrity and insulation
- Protection against fire, smoke and heat
- Available in large tested sizes
- Superior optical quality

FIRESWISS COOL & FIRESWISS FOAM by Glas Trösch leads the market with superior acoustic performance.

## The Performance IGU Range

Manufactured in-house to ensure the highest quality for both residential and commercial applications, our Insulated Glass Units incorporate the most current technical specifications.

IGU 's are made using 2 or more pieces of glass, separated by a spacer, and sealed hermetically. We then add insulating inert gasses such as Argon or Krypton, that increase the performance and reduce distortion in hot and cold conditions.

We specialise in Fire Rated and Acoustic Units and our extended product range can offer the added benefits of security, thermal insulation, and solar control, to name but a few. IGU 's can be designed for all-year round performance, keeping you warm in the winter and cool in the summer, making them the ideal choice for everyone.



## Pellini Screenline Integrated Blinds

Not only do IGU 's offer energy efficiency, they can also incorporate integrated blinds and decorative effects.

Integrated blinds are becoming ever popular, particularly in conservatories and bi folding doors. The blinds do not get damp, dirty or dusty and they can't be damaged by little hands or pets. They provide additional privacy due to their edge-to-edge slats, and can be sealed within a double or triple glazed unit without compromising the integrity of the hermetic seal; assuring the longevity of the glazing and blinds. So whether you are looking to add a bit of elegance to your home, to show off the style innovation, or you simply want them for hygiene purposes, integrated blinds are a great choice all round.

The blinds are available in a range of different colours and sizes, which are unique to each type of blind and model, perfect for every residential or commercial property.





# Specialist Products

## Firelite

Firelite is a ceramic glass with a slight brown colour tint inherent in its construction.

This product is widely used for 120/0 fire doors, and inspection panels into high temperature equipment. It can be cut and processed similar to ordinary sodalime glass and will remain in its annealed state. The ceramic glass can be laminated to a standard sodalime glass to create a safety rated panel where required.

## Pyroguard's Georgian Wired Glass

Pyroguard's Pyrostem 2 is a high quality annealed Georgian Wired Glass with highly polished surfaces.

It offers the highest rating of any wired product offering up to 90 mins integrity into steel.

Key attributes of Pyrostem 2;

- Stops flames and smoke
- No wavy wires
- Offers up to 60 mins integrity into timber
- Easy to cut
- Available in cut sizes or in stock sheets

## Neoceram

Neoceram is a ceramic glass used extensively in stoves.

It has a special coating on both sides which slows down the build-up of soot considerably, and can be cleaned using soapy water and a non-abrasive cloth.

## Pilkington's Pyroshield 2

Pilkington's Pyroshield 2 is a high quality annealed Georgian Wired Glass.

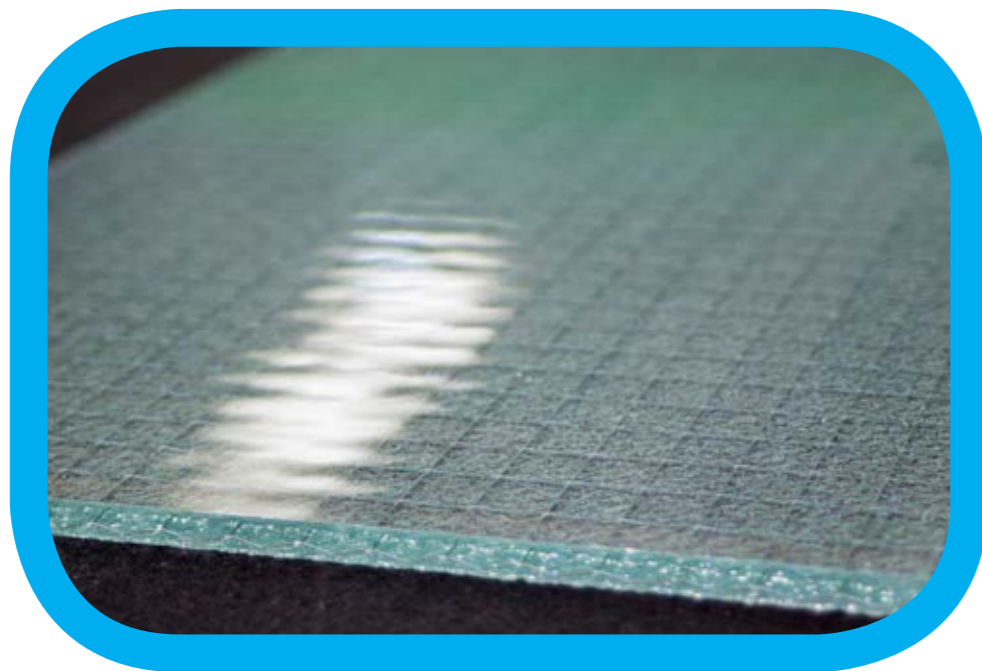
Available in a textured obscure finish, or with highly polished surfaces. Test evidence is available for double glazed units and roof-lights, and large pane sizes can be offered for vertical application.

We offer a wide range of fire-resistant glass options with varying levels of protection to suit your needs. Protection levels are measured in defined time periods (30, 60, 90, 120 and 180 minutes) in terms of either integrity and insulation, or integrity only, as designated by the British Standards.

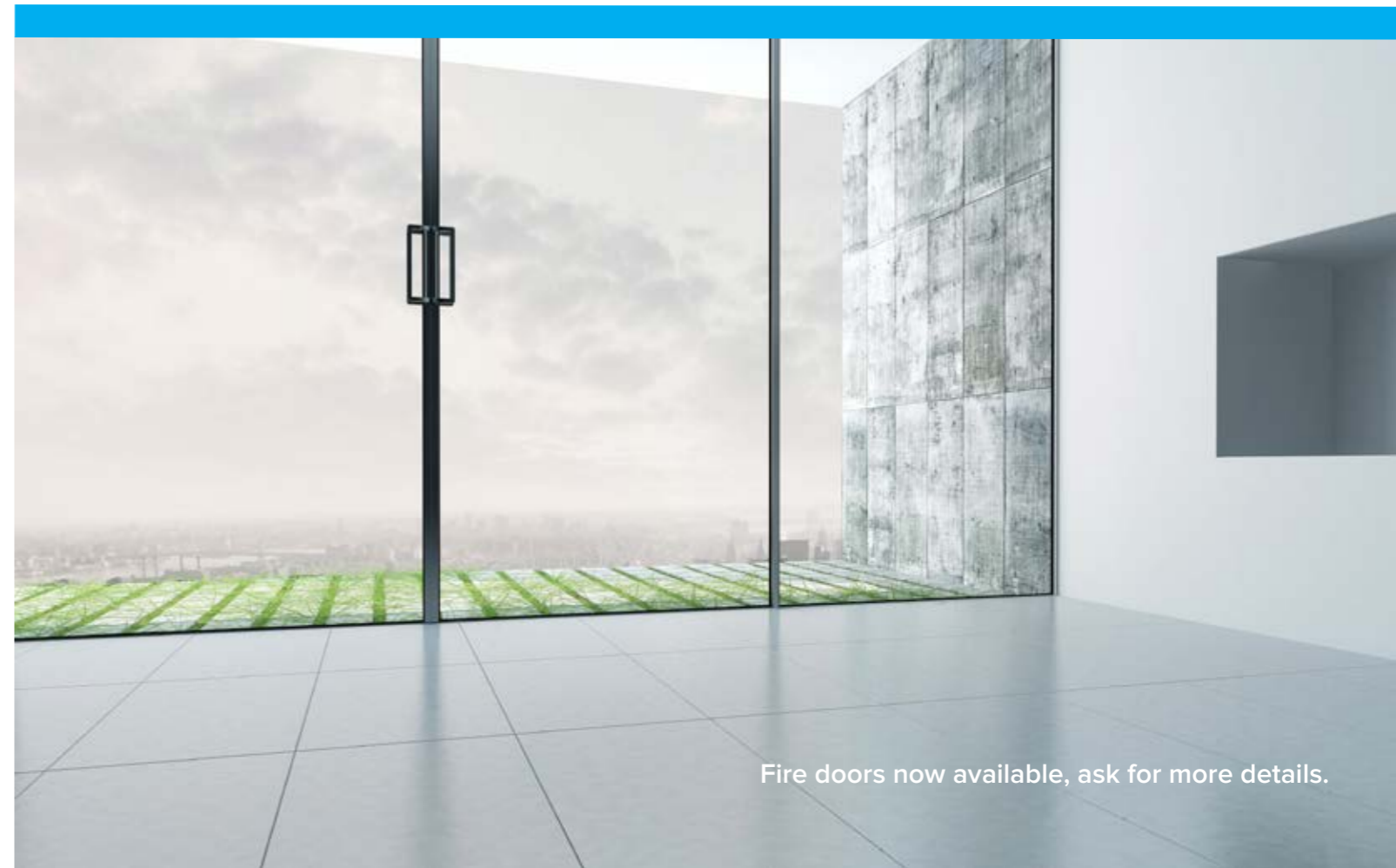
To ensure the expected fire performance is achieved, fire or heat-resistant glass must always be specified as part of a tested and approved glazing system and installed by specialists.

Today modern architecture favours transparency even far beyond the facade: Architect's prefer natural light and open spaces to determine the design of large buildings right down to their structural core.

Wherever these "open" concepts meet local construction and fire safety requirements for the protection of human life and property, transparent fire-resistant glazing comes into play. This allows modern, bright and open space design, as well as safety to be combined in a variety of multi-functional systems.



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Fire doors now available, ask for more details.





Performance Glass Processing Ltd  
Unit 8  
Brighthouse Trade Park  
Armytage Road  
Brighthouse  
HD6 1QZ

Phone : 01422 861116  
Fax : 01422 861126  
Email : sales@performanceglass.co.uk  
Web : performanceglass.co.uk



Designed by -



