

Pyroguard



Fire Glass Solutions from

CGI
INTERNATIONAL LTD

**FIRE GLASS
TO GO!**

INTRODUCING CGI INTERNATIONAL LTD

For almost 20 years, the company now trading as **CGI International** has been involved in the manufacture and distribution of specialist fire-resisting glasses.

Since commencing with a single fire-glass product in the early 1980's, CGI now offers the most comprehensive fire-rated glass range from any single company source; in total more than 12 different glass products.

For the US market CGI identifies its **Pyroguard range** as the fire-rated glass with the most answers to the specific technical and commercial needs of the North American market place.

Presently the company manufactures Pyroguard in a dedicated and purpose-built facility in the North West of England, using a patented and unique manufacturing process. This process, developed and refined by CGI, is described later in this brochure.



Pyroguard is already sold in more than 20 countries throughout the world and offers 5 essential features:

- Non-wired appearance
- Tested and approved fire rating for 20 minutes (no hose test required)
- No-compromise Category I impact resistance
- Easy to obtain, ex stock availability
- Integrity with radiation control



Pyroguard®

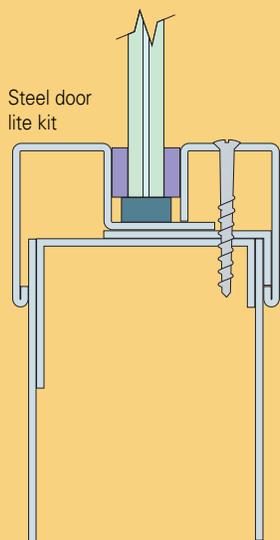
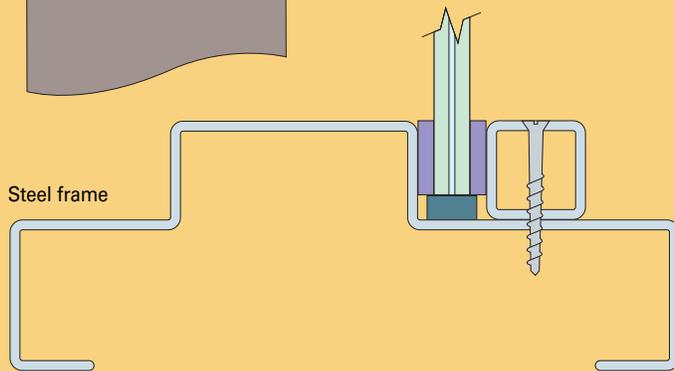
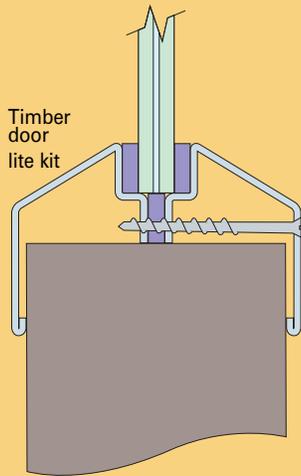
FIRE RATED

Tested to the US standard for 20 minutes fire resistance by both ITS/Warnock Hersey and by the Underwriters' Laboratory (UL), Pyroguard will be listed as suitable for wood and metal door vision panels (direct glazed or with the use of lite kits) and for sidelites, borrowed lites and transoms. The test standard is UBC 7-2, Part 1 (1997)/ UL10C-1998 with positive pressure.

Unlike many of the non-wired glasses offered in the market place, the glazing conditions for Pyroguard are not so critical that you can risk getting it wrong with too much edge cover or too little edge clearance; rather the glazing conditions for Pyroguard are 'user friendly' and helpful to non-specialist fire glass installers.

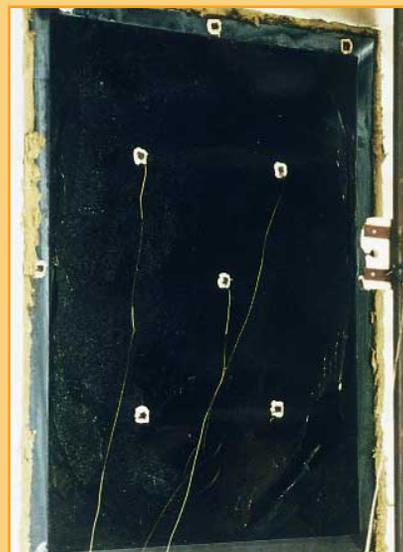
Under fire conditions Pyroguard glass does not have to stay intact or in one piece, because the glass is designed to crack, to allow the special REACTIVE INTERLAYER to form the fire barrier, thereby providing both a fire-stop and protection against radiated heat-flux.

Look at the pictures below to see the difference between the reacted interlayer of Pyroguard (black) and the usual clear appearance of regular fire-integrity rated glass.

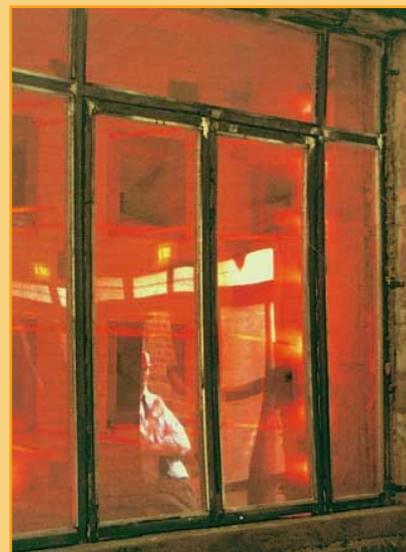


- 5/16" Pyroguard
- 1/8" KTape
- 1/4" Vermipan setting piece

Left - Typical glazing arrangements for Pyroguard



Pyroguard



Tempered fire glass

Pyroguard[®]

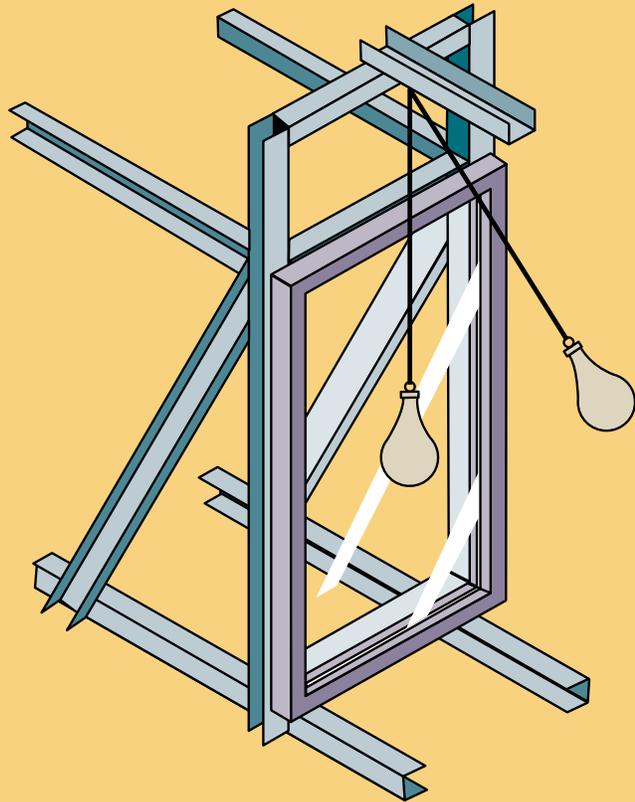
IMPACT RESISTANT

With all applications of fire-rated glass it is essential also to meet the relevant impact standards as laid out in ANSI Z97.1 (1984) and in CPSC 16 CFR 1201.

The historical ability to obtain a waiver from impact safety, just because you were using a fire-rated glass has been overtaken by revisions in the safety codes and most code enforcers are insisting that both current impact standards *and* fire standards are being met.

With the range of modern fire-rated glasses available in the market today meeting both fire and safety codes there is **no need to compromise**.

With **Pyroguard**, you get a full Category I safety rating, in its natural form, without films, without coatings and without risk.



WORRIED ABOUT WIRED?

You may have read the debate (or even have been involved in it) regarding the potentially unsafe use of wired glass, a product primarily designed for fire-safety protection but often used in high risk areas such as doors, side panels and low level glazing.

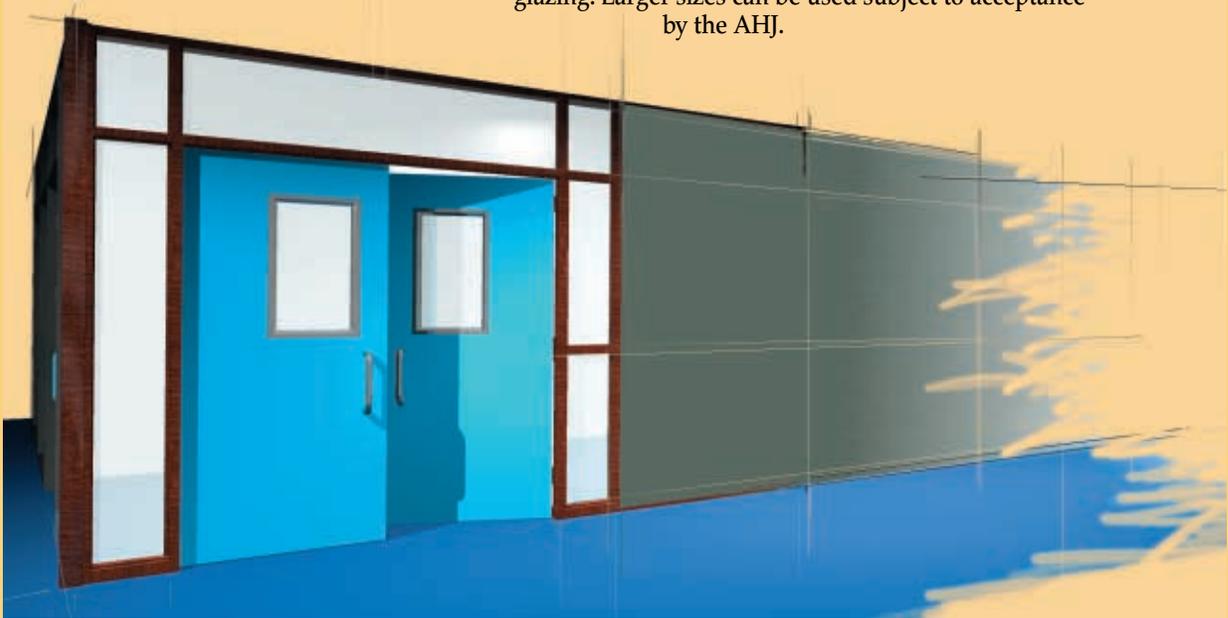
With Pyroguard you have all the answers

- Non-wired or wired versions
- All at least 20 minute fire-rated
- All at least Category I impact rated
- Available from local stockholder (just like wired glass)
- Integrity with radiation control



WHERE TO USE PYROGUARD

The graphic below indicates where you may be required to use a fire rated and impact safety rated glass. In these situations, subject to compliant frame test details and applicable building code use, 5/16" Pyroguard fire resisting and impact safety rated glass can be specified and used up to the maximum area allowable for Cat. I safety glazing. Larger sizes can be used subject to acceptance by the AHJ.



HOW TO SPECIFY PYROGUARD CLEAR

A non-wired 20 minute rated laminated fire glass with category I impact safety rating

5/16" (7.2mm) Pyroguard Clear 3-ply laminate with resin based fire resistant interlayer.

Fire rated at 20 minute (non hose stream)

Impact tested to ANSI Z97.1 (1984) and to CPSC 16CRF 1201-98 Category I.

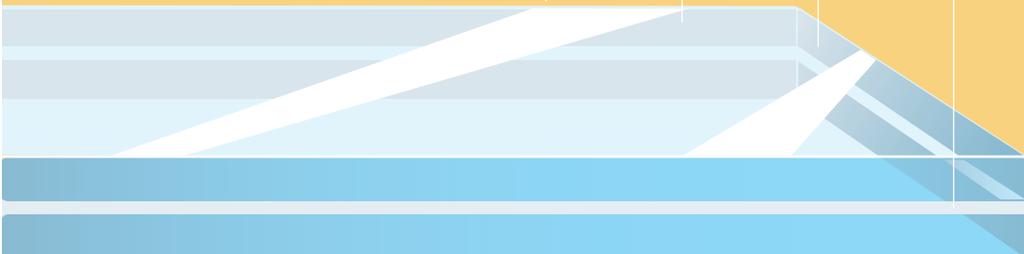
THE PYROGUARD TECHNOLOGY- HOW DO WE DO IT?

Easy to cut by hand or machine

1/8" float glass

No edge treatment required

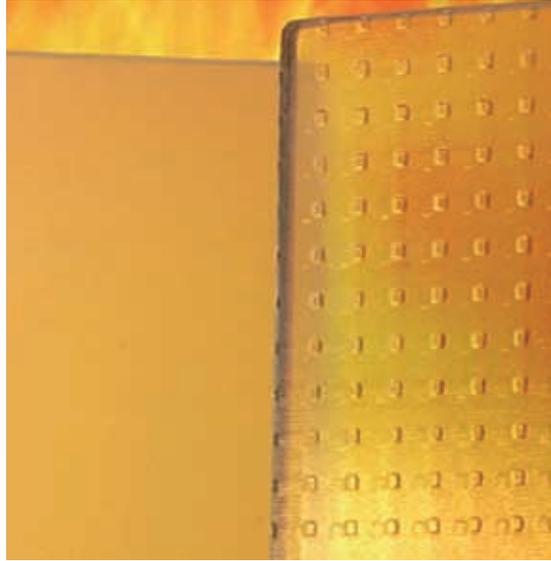
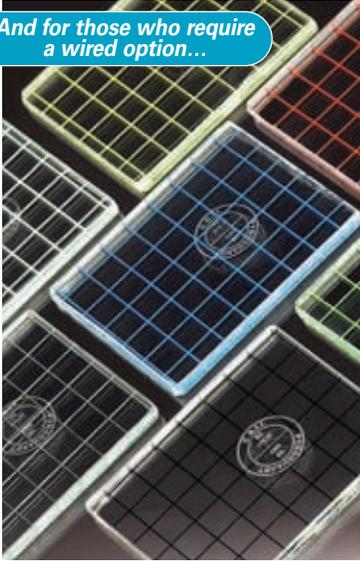
Special resin interlayer



MORE PYROGUARD...

Produced to meet a demand for a fire glass for use where a degree of privacy is required CGI International now offer Pyroguard Satin and Pyroguard Master. These glasses have all the fire rating and integrity features of Pyroguard Clear while providing privacy without the need for expensive etching, sandblasting or filming techniques.

And for those who require
a wired option...



I LIKE IT - HOW CAN I GET IT?

All Pyroguard glasses are available throughout the USA via a network of registered distributors who are empowered to cut the glass and mark it with the proper code-fulfilling stamp.

Pyroguard is made in stock sizes of 98"x62" and 106"x62" so they can be held in stock and easily man-handled if necessary by two people in a small glass shop.

Case sizes are available as follows:

Standard case	20 sheets 98"x62"
Mini case	10 sheets 98"x62"



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