

# Pilkington Pyroshield™ Plus

## – Usage



### Applications

Pilkington **Pyroshield™ Plus** has been specifically developed to meet the dual requirements of fire protection (including passing the hose-stream test) and impact safety to CPSC 16CFR 1201 - Category 1. However in order to meet these criteria and comply with recent code changes, Pilkington **Pyroshield™ Plus** must be supplied, glazed and labeled as detailed below.

### Maximum glazing sizes

**Impact Safety** – in areas where codes require CPSC 16 CFR 1201 to be adhered to, Category 1 products can be glazed to a maximum of 9 sq ft. Where fire-protection is also a requirement, sizes will be limited by the maximum approved tested size.

**Fire Protection** – testing, rather than local codes, determine the maximum sizes for the use of fire-protection glasses, Pilkington **Pyroshield™ Plus** is fire-rated for 20,45,60 and 90 minutes with hose stream test as follows:

### Labelling

Each stock sheet of Pilkington **Pyroshield™ Plus** carries a removable UL approved pack label detailing its performance. However, at point of installation, each lite must carry a permanent label, applied by the final provider during production of the finished cut size. This must be in accordance with an approved labeling program (e.g. UL, etc). A copy of a typical permanent label is attached.

Rating	Assembly	Max. Exposed Area (sq. in.)	Max. Width of Exposed Glazing (in.)	or	Max Height. of Exposed Glazing (in.)	Stop Height (min)
20 to 45 min.	Doors (non-temp rise)†	1,296	24		54	5/8”
	Other than doors*†	1,296	36		36	5/8”
60 min.	Doors (temp rise)†	100	20		20	5/8”
90 min.	Doors (temp rise)†	100	20		20	5/8”

\* Pilkington **Pyroshield™ Plus** - Diamond only

† Subject to suitable glazing with Pemko FGL 3000, or FG3000 Caulk

Further details can be found on [www.ul.com](http://www.ul.com) – please check for most recent test data

### Glazing

To ensure that the product performs as tested, Pilkington **Pyroshield™ Plus** must be glazed with appropriate glazing tapes or caulks per the UL testing reports. The tape used with each lite of Pilkington **Pyroshield™ Plus** must be Pemko FGL 3000, or FG3000 Caulk (per the listing granted by UL). Details of supply can be sourced from the supplier of the glass or from [www.pemko.com](http://www.pemko.com)

### Handling and Storage

Pilkington **Pyroshield™ Plus** must be kept dry; water penetration between the plates can stain the surface and cause plates to stick together. Water can also be drawn along the wires by capillary action and cause rusting. It should also be stored in dry conditions, out of direct sunlight and excessive heat.

It should be stacked in a near vertical position (a 3° to 5° lean is recommended), fully supported to prevent sag, set on strips of wood or similar soft material.

Special care should be taken to protect the glass, particularly the edges, from impact damage or localised pressure.

Damaged glass should not be glazed since the damage may be propagated into cracks by thermal or mechanical stress.

#### **Cleaning**

Pyroshield Plus should be cleaned with a cloth and cleaning solution that are non-abrasive. Clear soapy water or proprietary window cleaners are recommended.

It is important that the edge sealing compound is waterproof, as water must not penetrate onto the wires.

#### **Cutting**

Pyroshield Plus is a laminate; and requires scoring of the glass on both sides. Score the “clear” glass side first, and then turn the glass over. Now, score the “wired” glass side making sure the score is directly above the cut on the other surface. Both cuts should be “run”, supporting the glass uniformly on a flat surface. The laminate interlayer should be cut using a sharp blade. The wires should then be broken by flexing one part of the glass upwards, with the clear glass face down.

For any further information on Pilkington **Pyroshield™** Plus, please contact Pilkington or your local distributor.

This publication gives a general description of the product and materials. It is the responsibility of the users to ensure that their use is appropriate for any particular application and that such application complies with all relevant local and national legislation, standards, codes of practice and other requirements.

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Pilkington **Pyroshield™** is a trade mark of the Pilkington Group.



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