



Fire-resistant glasses

Pilkington Pyrostop™

Pilkington Pyrodur™



PILKINGTON

Pilkington **Pyrostop™** and Pilkington **Pyrodur™**

Protection and Fire Safety

- Save lives
- Limit fire damage to property and valuables
- Protect the building's structure
- Provide escape corridors and protected access for firefighters

Transparency and Fire Safety

- Provide a light and comfortable environment in which to live and work
- Exploit the flexibility in design that glass offers

Benefits

- Totally clear, unobstructed vision
- Restrict the spread of flames, smoke and hot gases
- Approved in the widest range of sizes
- Provide a wide range of design and application options
- Limit conductive and radiative heat transfer
- Suitable for internal, external and even for horizontal applications
- Excellent sound reduction properties
- Successfully tested as single and double glazing all over the world
- Available as insulating glass units to offer fire and impact resistance with additional features, e.g. environmental control
- Well known and accepted by Fire and Building Control Authorities
- Processed in Australia to minimise lead times
- Readily available through a nationwide network of licensed companies

Additionally, Pilkington **Pyrostop™**

- Incorporates Pilkington **Optiwhite™** (23 mm and thicker) for superior light transmission

Incorporated into a proprietary fire door system, timber doors are available in partial, half and fully glazed options. Utilising Pilkington **Pyrostop™** 30-20, 18 mm, such systems open up a whole new range of design options where FRL's of -/60/30 are required.





Utilising steel framed fire door systems and side lites, Pilkington **Pyrostop™** helps extend clear fire-resistant design parameters previously not readily available in the Australian market.

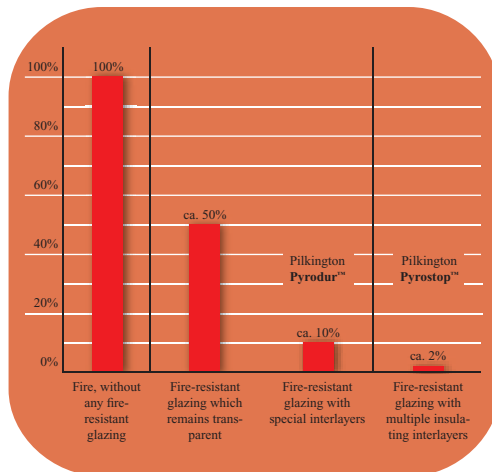
Definitions

Integrity

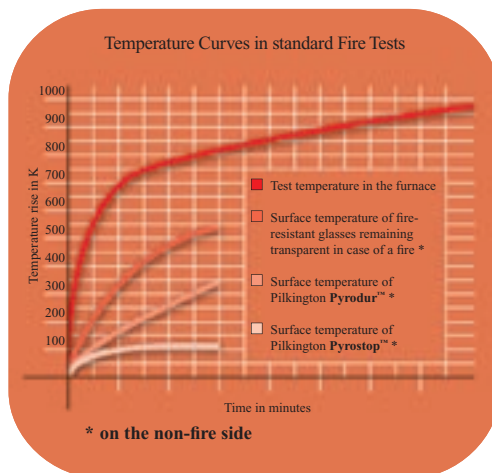
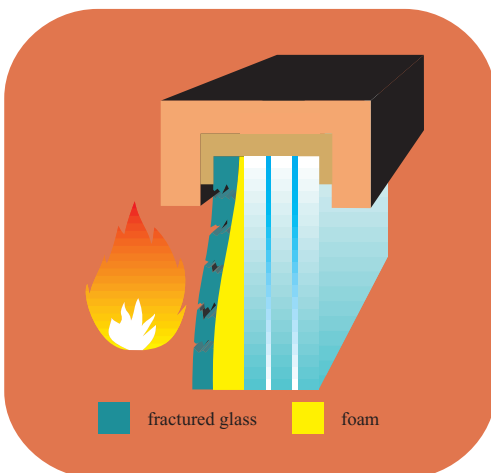
The ability of the system to keep back flames, smoke and hot gases. No flaming on the non-fire side within the approved time classification.

Insulation

Temperature rise on the unexposed fire side shall not be more than 140 °C (average value) or 180 °C (maximum individual value) above ambient temperature.



Radiant heat transfer after 30 minutes.



Reaction of Pilkington **Pyrostop™** and Pilkington **Pyrodur™** in case of fire.

An ideal solution for heritage buildings when upgrading of fire compartmentalisation requires products to be approved to AS 1530.4 for fire resistance. Solutions such as this could contain a pair of -60/30 rated fire doors with either -60/60 or greater side and top lites.



The Full Range of Fire Solutions in Glass

Pilkington Pyrostop™

- A totally clear glass which provides the complete performance range: insulation and radiant heat protection with integrity behaviour
- Insulation performance categories rated at 30, 60, 90, 120 and 180 minutes according to the chosen product
- Interlayers react to the fire to give an opaque insulating shield
- Available as single or insulating glass units
- Fully transparent before exposure to fire, provides completely functional design flexibility
- Worldwide use for over 25 years

Pilkington Pyrodur™

- A totally clear glass
- Resists flames, smoke and hot gases
- Integrity fire-resistant performance tested and approved for 30 and 60 minutes
- Interlayer reacts to the fire to produce an opaque barrier to flame and thermal radiation
- Limits the transmission of conductive and radiant heat from the fire
- Available as single or insulating glass units

Combinations

Pilkington **Pyrostop™** and Pilkington **Pyrodur™** are designed to be combined with the full range of Pilkington glasses in either insulating units or as monolithic glazing for all glazing situations. This gives full scope to design glazing with thermal insulation, solar control, acoustic insulation, safety and security properties – all with built-in high performance fire protection.

1. Thermal Insulation

As an insulating glass unit combined with Pilkington **Energy Advantage™** (coating on surface 2), cavity filled with air

2. Solar Control

As an insulating glass unit combined with Pilkington **Solar E™** (coating on surface 2), cavity filled with air

3. Noise Reduction

As an insulating glass unit combined with Pilkington Acoustic Laminated Safety Glass, cavity filled with air

4. Safety and Security

Combined with Pilkington Security Glass

Recommendations and Application

Pilkington Pyrostop™ and Pilkington Pyrodur™ are suitable for

- Partition walls for interior use
- Fixed glazing for interior applications, vertical and horizontal
- Fire doors in fan light and side panel assemblies
- Windows/facade glazings
- Roof and sloping glazings

Subject to confirmation of: fire tested assembly/safety requirement/thermal stress check/wind loading check (facades). Please verify compliance with local regulations.

Application

- Extensively approved in more than 800 fire rated assemblies (by independent authorities world-wide). Details can be provided on request.
- It is the installer's responsibility to ensure that the glasses are installed in a fully tested and certified glazing system, and that the assemblies meet local regulatory requirements.
- Meet impact performance requirements of AS 2208, up to class A.

Further information

For further information on how the range of Pilkington fire-resistant glass solutions can meet the requirements of architects, authorities, insurance bodies, owners and occupiers alike, please go to www.pilkington.com.au or contact +61 (0)3 92 12 22 22.

Steel framed, fully glazed, -/60/30 fire doors used as lift lobby and fire escape doors.





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