



## Pilkington **Pyroshield™** 2 Safety Clear

### Technical Information

#### Product Data

| Glass Type  | Product Code | Number in a Pack | Stock Plate Size (mm) |
|---|--------------|------------------|-----------------------|
| 7 mm Pilkington <b>Pyroshield™</b> 2 Safety Clear | RYS          | 16               | 3300 × 1980           |

#### Technical Information

| Glass Type  | Fire Resistance (integrity only) (mins) | Approved Maximum Sizes <sup>[1]</sup> (mm)   |                        |  |             |
|---|---|--|------------------------|--|-------------|
|   |   | Doors  | Screens <sup>[2]</sup> |  |             |
|   |   | Sidelights   | Fanlights              | Panels   |             |
| <b>Timber Frames</b>                              |   |  |                        |  |             |
| 7 mm Pilkington <b>Pyroshield™</b> 2 Safety Clear | 30                                      | For test evidence see Certifire CF718 for various glazing systems                                      |                        | 2600 × 1537 <sup>[3]</sup><br>(max area 3.2 m <sup>2</sup> ) |             |
|   | 60 <sup>[4]</sup>                       | 550 × 1300   | 310 × 1300             | 1110 × 750   | 1240 × 2286 |
| <b>Steel Frames</b>                               |   |  |                        |  |             |
| 7 mm Pilkington <b>Pyroshield™</b> 2 Safety Clear | 30                                      | For test evidence visit <a href="http://pilkington.co.uk/pyroshield2">pilkington.co.uk/pyroshield2</a> |                        | 2600 × 1537<br>(max area 3.2 m <sup>2</sup> )                |             |

The convention followed for cut size is width × height

#### Physical Data

| Glass Type  | Fire Resistance (integrity only) | Light Transmittance | Weight | Glass Thickness Range | Sound Reduction | BS EN 12600 Impact Classification <sup>[4]</sup> |
|---|----------------------------------|---------------------|--------|-----------------------|-----------------|--|
|   | mins                             |                     |        |                       |                 |  |
| 7 mm Pilkington <b>Pyroshield™</b> 2 Safety Clear | 30/60                            | 0.77                | 18     | 7.0-7.4               | 31 (-2; -3) dB  | 3(B)3  |

<sup>[1]</sup> Refer to Certifire CF 718 for more information on dimensions and glazing details

<sup>[2]</sup> Use Pilkington **Pyroshield™** 2 Safety Clear for areas subject to Approved Document K requirements.

In critical areas for impact safety, the minor dimension of Pilkington **Pyroshield™** 2 Safety Clear should not exceed 900 mm

<sup>[3]</sup> Hardwood

<sup>[4]</sup> Ref test certificate DMP-RPT-03-0055. TNO

## Classification & Performance Definitions

### Relevant Fire Test Standards

BS EN 13501-2 – Fire classification of construction products and building elements.  
Part 2: Classification using data from fire resistance tests, excluding ventilation services.

BS 476 – Fire tests on building materials and structures.

Part 20: General requirements.

Part 22: Methods for the determination of the fire-resistance of non-loadbearing elements of construction.

BS EN 1363 – Fire resistance tests.

Part 1: General requirements.

Part 2: Alternative and additional procedures.

BS EN 1364 – Fire resistance tests for non-loadbearing elements.

Part 1: Walls.

Part 2: Ceiling (Non Load Bearing).

Part 4: Curtain Walling.

BS EN 1365

Part 2: Floors and roofs.

BS EN 1634 – Fire resistance tests for door and shutter assemblies.

Part 1: Fire doors and shutters.

### Relevant Impact Safety Test Standards

BS EN 12600: 2002 Glass in building

– pendulum test.

Impact test method and classification for flat glass.

### Example Fire Test Summaries

(Consult [www.pilkington.co.uk/pyroshield2](http://www.pilkington.co.uk/pyroshield2) for details)

| Fire Test Assessment Reference | Fire Performance and Frame Details                               |
|--------------------------------|--|
| 709A                           | 30 minute timber door in softwood double pane                    |
| 709B                           | 30 minute timber door softwood single pane                       |
| FR1448                         | 30 minute double doors and screen in hardwood                    |
| FR1636                         | 30 minute multi pane hardwood screen                             |
| Warres 103033                  | 30 minute multi pane softwood screen                             |
| Warres 47850                   | 30 minute multi pane steel screen                                |
| Warres 60280                   | 30 minute multi pane hardwood screen                             |
| Warres 62324                   | 30 minute multi pane steel screen with IGU                       |
| Warres 62325                   | 30 minute multi pane horizontal steel screen with or without IGU |
| Warres 70068                   | 30 minute multi pane softwood screen                             |
| Chilt/RF10083                  | 60 minute door and surrounds in hardwood                         |
| Chilt/RF10043                  | 30 minute doorset with glazed screen                             |
| Chilt/A10162                   | 30 and 60 minute doors and screens                               |
| CF 718                         | Certifire multiple applications                                  |
| WF 185633                      | 30 minute screen BS EN 1364                                      |
| WF 160964                      | 30 minute screen IGU, BS EN 1364                                 |
| CFR 1102081                    | 60 minute multi pane hardwood screen                             |
| CFR 1107051                    | 60 minute multi pane hardwood screen                             |
| CFR 1204241                    | 60 minute softwood screen  |

Note Regulation 38 of the Building Regulations requires that relevant fire safety information is passed on to those responsible for the fire safety precautions in the building once occupied, for the purposes of compliance with the fire safety risk assessment obligations under the Regulatory Reform (Fire Safety) Order 2005. Those relying on Pilkington test evidence should ensure that there is traceability of the Pilkington **Pyroshield™ 2** product through their purchase, supply, and confirmation of installation documentation and that the glazing installation is carried out according to the specification for the glass, glazing system, frame and fixings provided in the relevant applicable Pilkington test report.

### Thermal Safety

The possibility of excessive thermal stress being developed in the glass due to solar radiation should be considered at all stages of design and construction. It is recommended that a thermal safety check is performed for all sloping installations or when used in Insulating Glass Units or secondary glazing.

**For further details** visit [www.pilkington.co.uk/pyroshield2](http://www.pilkington.co.uk/pyroshield2), or email [enquiries@pilkington.com](mailto:enquiries@pilkington.com)

This publication provides only a general description of the products. Further, more detailed, information may be obtained from your local supplier of Pilkington products. It is the responsibility of the user to ensure that the use of these products is appropriate for any particular application and that such use complies with all relevant legislation, standards, codes of practice and other requirements. To the fullest extent permitted by applicable laws, Nippon Sheet Glass Co. Ltd. and its subsidiary companies disclaim all liability for any error in or omission from this publication and for all consequences of relying on it. Pilkington and "Pyroshield" are trademarks owned by Nippon Sheet Glass Co. Ltd, or a subsidiary thereof.



CE marking confirms that a product complies with its relevant harmonised European Norm.

The Declaration of Performance for each product, including declared values, can be found at [www.pilkington.com/CE](http://www.pilkington.com/CE)



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