

Pilkington **Pyroshield™ 2** Technical Information



Product Data

Glass Type	Product Code	Number in a Pack	Stock Plate Size (mm)
7 mm Pilkington Pyroshield™ 2 Safety Clear	RYS	16	3300 × 1980
6 mm Pilkington Pyroshield™ 2 Texture	RPO	21	3210 × 2000

Technical Information

Glass Type	Fire Resistance (integrity only) (mins)	Approved Maximum Sizes ^[1] (mm)			
		Doors	Screens ^[2]		
			Sidelights	Fanlights	Panels
Timber Frames					
7 mm Pilkington Pyroshield™ 2 Safety Clear	30	For test evidence see Certifire CF718 for various glazing systems		2600 × 1537 ^[3] (max area 3.2 m ²)	
	60	550 × 1300		310 × 1300	1110 × 750 1240 × 2286
6 mm Pilkington Pyroshield™ 2 Texture	30	Less than 0.5 m ² small dimension <250 mm for glass within 1500 mm of floor level		1400 × 2000	
Steel Frames					
7 mm Pilkington Pyroshield™ 2 Safety Clear	30	For test evidence visit pilkington.co.uk/pyroshield2		2600 × 1537 (max area 3.2 m ²)	
6 mm Pilkington Pyroshield™ 2 Texture	30	Less than 0.5 m ² plate size, small dimension <250 mm for glass within 1500 mm of floor level		1400 × 2000	
	60	N/A		960 × 2000	

The convention followed for cut size is width × height

Physical Data

Glass Type	Fire Resistance (integrity only) mins	Light Transmittance	Weight approx kg/m ²	Glass Thickness Range mm	Sound Reduction R _w (C; C _{tr})	BS EN 12600 Impact Classification ^[4]
7 mm Pilkington Pyroshield™ 2 Safety Clear	30/60	0.77	18	7.0-7.4	31 (-2; -3) dB	3(B)3
6 mm Pilkington Pyroshield™ 2 Texture	30/60	0.79	16	5.8-6.5	31 (-2; -3) dB	NPD ^[5]

^[1] Refer to Certifire CF 718 for more information on dimensions and glazing details

^[2] Use Pilkington **Pyroshield™ 2** Safety Clear for areas subject to Approved Document N requirements.

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

^[3] Hardwood

^[4] Ref test certificate DMP-RPT-03-0055. TNO

^[5] No Performance Determined

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 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, email pilkington@respond.uk.com or phone **01744 692000**.

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CE marking confirms that a product complies with its relevant harmonised European Norm. The CE marking label for each product, including declared values, can be found at www.pilkington.com/CE



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