

Pilkington Pyroshield™ 2

Technical Information and Classification & Performance Definitions



Product Data

Glass Type	Product Code	Number in a Pack	Stock Plate Size
Pilkington Pyroshield™ 2 Safety Clear	RYS	16	3300 x 1980
Pilkington Pyroshield™ 2 Texture	RPO	22	3353 x 1829

Technical Information

Fire Performance Table for Timber Frames					
Glass Type	Fire Resistance (mins) integrity only	Approved Maximum Sizes Timber Frames ^a (mm)			
		Doors		Screens ^b	
Pilkington Pyroshield™ 2 Safety Clear	E30	For test evidence visit pilkington.co.uk/pyroshield2		2288 x 1353 ^c (max area 3.2 m ²)	
		Door	Sidelights	Fanlights	Panels
	E60	550 x 1300	310 x 1300	1110 x 750	1240 x 1742
Pilkington Pyroshield™ 2 Texture	E30	Less than 0.5 m ² small dimension ≤250 mm for glass within 1500 mm of floor level		1400 x 2000	
Fire Performance Table for Steel Frames					
Glass Type	Fire Resistance (mins) integrity only	Approved Maximum Sizes Steel Frames ^a (mm)			
		Doors		Screens ^b	
Pilkington Pyroshield™ 2 Safety Clear	E30	For test evidence visit pilkington.co.uk/pyroshield2		2600 x 1537 (max area 3.2 m ²)	
Pilkington Pyroshield™ 2 Texture	E30	Less than 0.5 m ² plate size, small dimension ≤250 mm for glass within 1500 mm of floor level		1400 x 2000	

The convention followed for cut size is width x height

Physical Data

Glass Type	Fire Resistance (integrity)	Light Transmittance	Weight (approx kg/m ²)	Glass Thickness Tolerance (mm)	Typical Glazing Thickness (mm)	Sound Reduction Rw (C; Ctr)	BS EN 12600 Impact Classification ^e
Pilkington Pyroshield™ 2 Safety Clear	E30/E60	0.77	18	±0.2	7.2	31 (-2; -3)dB	3(B)3
Pilkington Pyroshield™ 2 Texture	E30	0.79	16	±0.6	6.8	31 (-2; -3)dB	NPD ^d

^a Refer to fire test summaries for frame details

^b 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

^c Hardwood

^d No Performance Determined

^e 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 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
FR 1448	30 minute double doors and screen in hardwood
FR 1636	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

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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