



TECHNICAL INFORMATION SHEET 1 – FIRE RESISTANT GLASS

The table below lists the products available from stock at N & C Glass along with their respective fire ratings and suitability for use in various situations and frame types.

Fire Resistance Integrity / Insulation (Minutes)	Product	Internal Or External	Max Tested Size Timber * Doors Screens	Max Tested Size Steel * Doors Screens	Impact Rating To BS EN 14449	Acoustic Rating
30 / 0	Pyrostem Safety Wired Clear	Both	Doors 818 x 1980 high Screens 1208 x 2607 high	No Evidence For Doors Screens 1537 x 2600 high	3 (B) 3	31 dB
30 / 0	7mm Pilkington Pyrodur Plus 30 - 104	Internal	Doors 950w x 2050 high Screens 1093 x 2050 high	Doors 1069 x 2050 high Screens 1690 x 2050 high	2 (B) 2	35 dB
30 / 0	7.2mm Pyroguard	Both	Doors – Various up to 0.72m2 Screens – Various up to 2.52m2	Doors – Various up to 0.82m2 Screens – Various up to 1.62m2	3 (B) 3	31 dB
30 / 0	10mm Pilkington Pyrodur 30 - 201	Both	Doors 965 x 2240 high Screens 2114 x 2523 high	Doors 1069 x 2415 high Screens 2561 x 3000 high	1 (B) 1	36 dB
60 / 0	Pyrostem Safety Wired Clear	Both	626 x 1300 high doors No Evidence For Screens	No Evidence For Doors Screens 1488 x 2516 high	3 (B) 3	31 dB
60 / 0	7mm Firedoor 60 (C G I)	Both	Doors 300 x 1400 high No Evidence For Screens	No Evidence For Doors No Evidence For Screens	3 (B) 3	31 dB
60 / 0	13mm Pilkington Pyrodur 60 - 20	Both	Doors 647 x 2017 high Screens 1400 x 2000 high	No Evidence For Doors Screens 1688 x 2033 high	1 (B) 1	38 dB
30/30	14mm Pilkington Pyrostop 30 - 103	Internal	T.B.A	T.B.A	2 (B) 2	38 dB
60 / 30	15mm Pilkington Pyrostop 30 - 10	Internal	Doors 630 x 1790 high Screens 1750 x 3000 high	No Evidence For Doors Screens 1852 x 1852 high	2 (B) 2	38 dB
60 / 30	18mm Pilkington Pyrostop 30 - 20	External	Doors 630 x 1790 high Screens 1750 x 3000 high	No Evidence For Doors Screens 1852 x 1852 high	1 (B) 1	38 dB
60 / 60	23mm Pilkington Pyrostop 60 - 101	Internal	Doors 793 x 1791 high Screens 1750 x 3000 high	Doors 785 x 2280 high Screens 1495 x 2895 high	1 (B) 1	40 dB
60 / 60	27mm Pilkington Pyrostop 60 - 201	External	Doors 793 x 1791 high Screens 1750 x 3000 high	Doors 785 x 2280 high Screens 1495 x 2895 high	1 (B) 1	41 dB

* - If your sizes exceed the maximum tested sizes shown above, please contact N & C Glass for further advice.

Improved fire ratings are available for I G Units, please contact N & C Glass for further information.

Information is for guideline purposes only. In order for products to meet their respective fire resistance requirements, they must be installed into an approved framing system using only materials specified in the relevant fire certificate test summary.

Copies of all fire certificate test summaries are available upon request.

LONDON
Unit 27, Gemini Business Park
Hornet Way
Beckton, E6 7FF
Tel : 020 7473 0999
Fax : 020 7476 1017

orders.london@nichollsandclarke.com

FAREHAM
28 Barnes Wallis Road
Fareham
Hampshire, PO15 5TT
Tel : 01489 589858
Fax : 01489 574474

orders.fareham@nichollsandclarke.com

info.glass@nichollsandclarke.com

0845 6051350



TECHNICAL INFORMATION SHEET 1 – FIRE RESISTANT GLASS

PRODUCTS

There are various types of fire resistant glass's available and these will generally fall into one of three main categories which are Wired, Laminated and modified toughened.

WIRED PRODUCTS

These products are manufactured with a square steel wire mesh running through the glass which is designed to hold the glass together in the event of breakage or fire. Such products are available in both clear and textured (obscured) form and there are also some versions which are safety rated to BS EN 14449 3(B)3 for impact. These products are suitable for integrity only situations and do not offer any insulation. Products that are stocked by N & C Glass which fall into this category are :

Pyrostem Safety Clear, Georgian Wire Cast.

LAMINATED PRODUCTS

These products are manufactured by sandwiching one or more fire resistant intumescent interlayers in between two or more sheets of clear glass. Ranging in thickness from 7mm to 27mm, such glasses offer varying levels of protection in the event of fire and are also all safety rated for impact to BS EN 14449. As laminated glass's some of them can also offer the additional benefit of insulation from fire, meaning that although a fire may be raging on the other side, the protected side will remain cool to touch for periods of up to 60 minutes for single glazed panels. Amongst the laminated fire resistant glass products that are stocked by N & C Glass are :

7mm Pilkington Pyrodur Plus, 10 & 13mm Pilkington Pyrodur, 15, 18, 23 & 27mm Pilkington Pyrostop, 7.2mm Pyroguard in Clear, Satin & Obscure, 7mm Firedoor 60.

MODIFIED TOUGHENED

These products are manufactured by toughening glass and adding various metallic coatings to the surface or additional elements into the raw glass mixture in order to give the glass more resistance to heat in the event of fire. However in the same way as the wired products these types of glass can only be used in integrity only situations and do not offer any insulation at all. These are all manufactured to order and therefore are not normal stocked products. N & C Glass can obtain these products if required, and some examples of these glass types are :

Pyran 'S', Pyroceť, Pyrosec, Pyroclear.

DOUBLE GLAZED FIRE RESISTANT GLASS UNITS

All fire resistant glass's can be incorporated into double glazed units in order to meet either building regulations, extended fire protection criteria or for simple aesthetic purposes. N & C Glass can manufacture fire resistant units to attestation level one which will meet most customer requirements.

To conform to UK legal requirements, all fire rated units must be manufactured to attestation level one.

LONDON

Unit 27, Gemini Business Park
Hornet Way
Beckton, E6 7FF
Tel : 020 7473 0999
Fax : 020 7476 1017

orders.london@nichollsandclarke.com

FAREHAM

28 Barnes Wallis Road
Fareham
Hampshire, PO15 5TT
Tel : 01489 589858
Fax : 01489 574474

orders.fareham@nichollsandclarke.com

info.glass@nichollsandclarke.com

0845 6051350

