

# J. B. TREASURE & Co. Ltd.

## FIRE- RESISTANT GLASS

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J.B. Treasure offer a range of fire resistant glasses which have been tested to BS 476 by approved testing houses and will offer half hour, hour or even two hour resistance if suitably glazed.

FIRELITE is an extremely versatile glass ceramic offering many user benefits and advantages. It has a low thermal co-efficient of expansion, high thermal shock resistance and will not fracture at 800°C if submerged in cold water. Firelite's high mechanical strength exceeds that of ordinary window glass, and its excellent transparency, with an attractive amber tint, ensures maximum safety. Firelite's major advantage is that it can be cut to any size virtually on site which allows the flexibility to make last minute variations, and shortens lead times to only a few days.

PYRAN is a thermally pre-stressed heat resisting borosilicate glass with low thermal expansion which can provide fire ratings in excess of two hours. Pyran is clear and remains transparent when there is a fire. Pyran also has a good impact resistance being a BS6206 Class C safety glass. It will not shatter during the sudden rise in temperatures experienced in the early stages of a fire and it is only above 820°C that the glass begins to slump in the frame. Pyran sheets are cut to the exact size required prior to heat treatment and are supplied with the edges ground and arrissed. Pyran cannot be drilled or notched and cannot be cut or worked on site.

### SPECIFICATIONS :

	<b>FIRELITE</b>	<b>PYRAN</b>
THICKNESS	5mm	6.5mm +/- 0.5mm
SURFACE FINISH	Polished or standard.	Float
MAXIMUM SHEET SIZE	1829mm x 914mm	2000mm x 1200mm
MINIMUM SHEET SIZE	No Minimum	200mm x 300mm
THERMAL CO-EFFICIENT	$-3 \times 10^{-7} / ^\circ\text{C}$	$3.25 \times 10^{-6} / ^\circ\text{C}$
THERMAL SHOCK	800° C	350° C
THERMAL CONDUCTIVITY	1.18 Kcal/m hr °C	5.8 W/m °C

For use on escape routes, where vision panels are required in the interests of general safety and where fire protection considerations call for more than just a simple barrier to the passage of smoke. Both PYRAN and FIRELITE retain their clarity unlike conventional laminated fire-resisting glasses which become opaque when heat is present

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