



## ESG **Pyrotech**™

### Clear Fire Resistant Safety Glass

#### ESG **Pyrotech**™ **630**

##### FIRE CERTIFICATE SUMMARY

Glazed Screen Assembly

Fire resistance: E30

Test Institute: Chiltern International Fire

Test Number: Chilt/RF07 129

Test Standard: BS476: Part 22:1987

Test Result: 36 Minutes (There was no failure of this criteria at the time of test termination)

#### ESG **Pyrotech**™ **660**

##### FIRE CERTIFICATE SUMMARY

Glazed Screen Assembly

Fire resistance: E60

Test Institute: Chiltern International Fire

Test Number: Chilt/RF07 162

Test Standard: BSEN 1364: Part 1:1999

Test Result: 67 Minutes (There was no failure of this criteria at the time of test termination)

**Certified by CERTIFIRE : CF628**



## ESG Pyrotech™ 630 and 660

### Construction

The frame was made from Wright Style mild steel profile ref no. 5050L and had section dimensions 50mm x 70mm including a 20mm high stop bar. The perimeter frame was fixed using 100mm Spax masonry screws at 300mm centres. The multi panel glazed screen was glazed with 6mm thick ESG Pyrotech™ clear fire resistant safety glass supported on 4mm x 20mm non combustible setting blocks. The transoms and mullions were of the system type ref no 5050T and had section dimensions 50mm x 90mm. Between the face of the glass and the glazing bead, ceramic tape 20mm x 4mm was fitted. The glass was retained by Wright Style 'clip on' beading ref no GL35 over steel glazing studs at 250mm centres and 30mm in from each end.

### Performance

**ESG Pyrotech™ 630:** The specimen satisfied the performance requirements specified in BS 476: Part 22: 1987 for the following period: Integrity: 36 minutes\*.

\*There was no failure of criteria at the time of test termination.

**ESG Pyrotech™ 660:** The specimen satisfied the performance requirements specified in BSEN 1364: Part 1:1999 for the following period: Integrity: 67 minutes\*.

Radiation: 17 minutes to 15 kW/m<sup>2</sup>

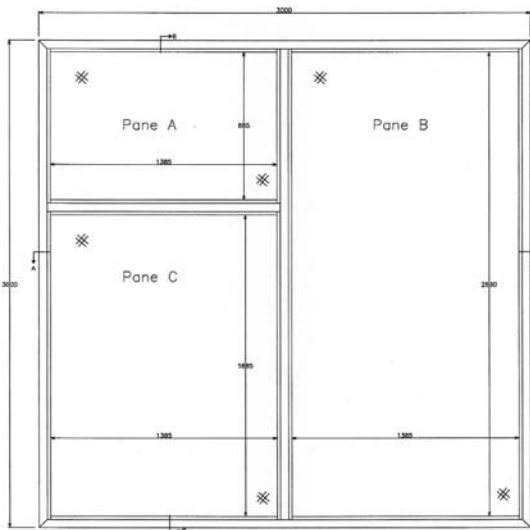
\*There was no failure of criteria at the time of test termination.

### Safety Rating

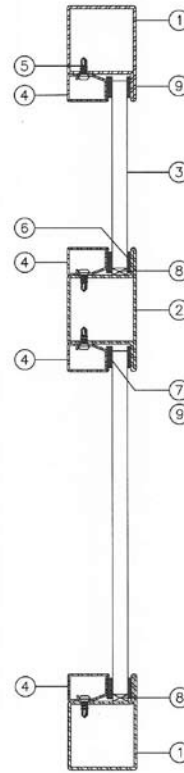
ESG Pyrotech™ clear fire resistant safety glass is tested and certified as a Class 1 safety glazing material in accordance with BS EN 12150:2000 and has also achieved Class 1 status under the impact testing standard BS EN 12600:2002.

### Fire Test Glass Sizes

ESG Pyrotech™ 630		ESG Pyrotech™ 660	
Pane A	1415mm x 915mm	Pane A	1415mm x 1630mm
Pane B	1415mm x 2890mm	Pane B	1200mm x 2890mm
Pane C	1415mm x 1915mm	Pane C	1415mm x 1630mm



For further information please call or email ESG using the contact details below.



### Parts list

1. Wright Style mild steel profiles (ref: 5050L)
2. Wright Style mild steel profile (ref: 5050T)
3. ESG Pyrotech™ 630/660\* clear fire resistant safety glass
4. Wright Style glazing beads (ref: GL35)
5. Glazing Studs (ref BN65M)
6. Ceramic glazing tape 20mm x 3mm
7. Ceramic glazing tape 20mm x 4mm
8. 20mm x 4mm non combustible setting block
9. Autostic Ceramic Alkaline Adhesive (\*only required when using ESG Pyrotech™ 660).

### Product Description

ESG Pyrotech™ is a monolithic thermally toughened sheet of 6mm glass. The glass possesses high mechanical stability with tempered safety characteristics and is heat soak tested as standard.

### Installation

The use of compatible panel sizes, frames and glazing methods is essential to ensure that the products perform to the tested and approved parameters of the ESG Pyrotech™ fire test certificates.

ESG Pyrotech™ is a tempered Class 1 product and must be ordered to the exact size as it can not be altered after manufacture. ESG Pyrotech™ is suitable for use both internally and externally. ESG Pyrotech™ 660 must be bonded in place using 'Autostic' ceramic adhesive on the top edge only.

### Frame types

To enable ESG Pyrotech™ to be easily used by a wide range of frame manufacturers, Schuco Jansen and Forster for example, the products have been approved within the CERTIFIRE scheme.

(CERTIFIRE is a strictly controlled and independently assessed approved scheme (run by Warrington Fire Research Ltd) which assesses the test evidence available for products and provides a field of application for their use.)

### Site storage and handling

Care should be taken to avoid damage to the edges of the glass when handling ESG Pyrotech™. The glass edges should be supported on timber blocks or other non-abrasive materials and stacked upright.

### Maintenance

ESG Pyrotech™ glass requires no special maintenance procedures. Once installed the glass should be cleaned regularly using warm water and a liquid detergent, washed down with clean water. Damaged or broken panels should be replaced, as this could affect the fire performance capabilities of the product.