

## SPECIFICATION Vii@FIRE FIRE CURTAIN BARRIER

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### Product Name and Model:

Vii@Fire fire curtain barrier

Vii@Fire forms an engineered fire-separating element in accordance with BS 476-22.8:1987 for 120 minutes Integrity. The manufacturer shall operate and be certified to BS EN ISO 9001 for quality management systems, and BS EN ISO 14001 for environmental management systems. The manufacturer shall operate and shall have certification and listing with an independent accredited certification body operating an accredited UKAS installer, commissioning and servicing scheme.

The frame consists of a head box, side channels and a bottom bar manufactured from galvanised steel. The curtain is retained in the side channels to resist pressure (as standard 20 Pa) and impact (Double Severe Duty).

The curtain type [EFP™ 2/1000] shall comprise of a woven glass fibre, stainless steel wire reinforced fabric with a micronized aluminium filled fire retardant polyurethane. The fabric material shall be tested independently for fire propagation to BS 476-6:1989+A1:2009, and for surface spread of flame to BS 476-7:1997 to achieve National Class '0' in accordance with A13(b) of Approved Document B (Volumes 1 & 2) 2006 Edition 'Fire Safety' to England & Wales Building Regulations 2000.

The curtain is fixed and wound around a steel roller which is powered by an internal 24Vdc electric motor including gearbox, electromechanical distance travel/limit switches, linked to an internal 24Vdc electromagnetic brake.

Vii@Fire shall open and close under mains power. In the event of mains power failure, it remains retracted (open) using its own dedicated battery back-up power supply for a pre-determined period (nominally 30 minutes). If signalled during this period it will to descend (close). At the end of the pre-determined time delay if no signal is received it shall self-close with fail-safe by gravity, using patented true TOTAL (TGFS). All modes of descent (closing) shall be in a controlled manner. Gravity fail-safe, controlled rates of descend, using the unique VarioSpeed™ function, and self-closing shall be tested independently. This safety feature is essential to avoid dangerous guillotine/free-fall deployment.

The system shall the facility to warn against obstructions within the path of travel via an audible warning. The system shall have the facility to be signalled by a fire alarm system, or independent local smoke or heat detector for activation. When closing shall have the facility to warn occupants of an operation via a beacon or audible warning. When closed shall have the facility to be retracted (opened) in an emergency without the need for mains power.

The steel frame components can be polyester powder coated to suit a range of colours.

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