

Delta Check 2000 / 1 Flameshield 240T Tube Motor Fire Roller Shutter Installed to Steel / Masonry Rigid Structures

Product Data Sheet 15 / 3

Product Description

Designed to be aesthetically pleasing in areas such as receptions, serveries and partitions between areas the Delta Check 2000 / 1 Flameshield 240T tube motor fire roller shutter door is manufactured for applications where 2 – 4 hour fire resistance is required. It is fully certified and approved by the Warrington Fire and Research Establishment for openings up to 4000mm clear width x 3800mm clear height

The shutters are constructed and fire tested in accordance with BSEN1634 – 1 and full compliance with the new Fire Standards BSEN 16034:2014

The doors have been specifically tested at Element Fire Research Centre No. 421972 on a steel and masonry / rigid structure with an extended application under BSEN15269-10 2011 WF421375 and carries a certificate of Constancy of Performance – 1121-CPR-RA5009.

It is now a legal requirement to ensure all fire doors are CE marked and all of the above tests and certification are now a legal requirement of any fire shutter.

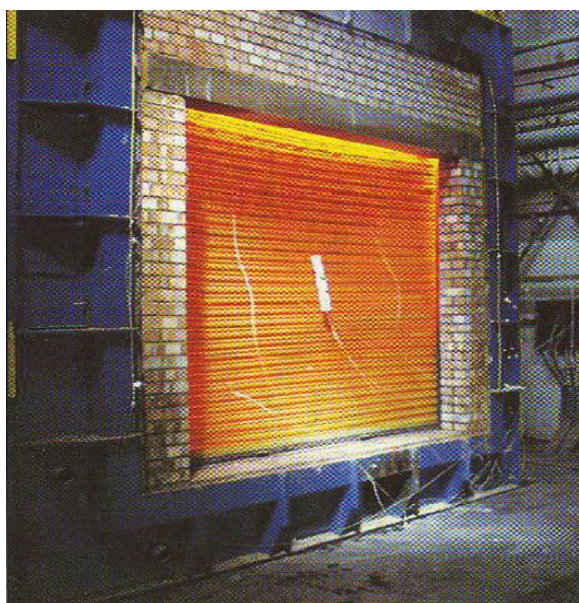
The curtain is for face fitted construction and meets the highest possible standards.

To achieve the full 4-hour fire rating the door must be fitted to masonry or steel rigid structure using proprietary fixings and capable of supporting the weight of the shutter. The steel frame must comply with current building regulations concerning structures subject to fire wall conditions and have the same fire rating as the shutter.

Where the shutters are used to protect serveries, it is assumed that the counter is composed of non-combustible material and the counter is of sufficient width to ensure that the bottom rail movement under heating cannot result in the rail overhanging the counter.

Barrel

Barrels are manufactured from mild steel tube or varying dimensions based on the overall width and height of the curtain and the gauge of lath used for the curtain. The tube wall thickness also varies and is then fitted with bobbins and mounted onto bright steel shaft varying from 18mm to 30mm diameter dependent on the overall size of the shutter. The shafts have mild steel bearing blocks at the non geared end and tubular motor at the drive end.



End Plates

End plates are constructed and fitted to a steel angle which spans the full height of the shutter, which in turn is fixed back to the wall construction. The angles are slotted to allow for expansion with an anchor point at the bottom of the angle.

Door Guides

Guides are constructed from 50mm and 65mm wide galvanised guide channel sections subject to width of shutter. These are then attached to a supporting structural galvanised angle with slotted wall fixings for fire expansion.

Curtain

Shutter curtains are constructed from 50mm flat or 75mm curved lath sections which are continuously interlocked and secured with steel endlocks.

Bottom Rail

The bottom rail is constructed from a galvanised 'T' shape section

Canopy and Fascia

Canopy and fascia are constructed from 1.5mm gauge galvanised sheet steel, which are preformed and slotted for fire expansion.

Fire Activation Device

The single phase 240V motor is equipped with several methods of operation.

The standard specification includes a fire relay box for connection to the fire alarm, battery backup to open and close the shutter in the event of a power failure and a key switch to open and close the shutter if it is also used for security purposes.

Alternatively, an optional fusible link can be fitted which will melt, activate a micro switch and close the door.



Fire Alarm Requirements

Tube motor fire shutter-

the relay provided by Enerco requires a normally open volt free signal going closed on fire.

Conventional fire shutter-

the solenoid unit requires a 24volt D.C. signal (0.5 amps on activation)

Audio Visual unit-

requires a normally open volt free signal going closed on fire.

Fire Curtains -

require a normally closed signal going open on fire (fail safe system)

Testing

The door can be tested by simply pulling the brake release on the back of the motor. A chain is fitted to the door to manually raise the door or simply press the up button if an auto reset solenoid is fitted.

Finish

As standard the shutters are supplied with a standard galvanized finish but can be Powder Coated to a range of standard BS/RAL colours.

Fire Products Structural Recommendation

The structure supporting the rolling door-set must be a fire resistant separating element (to B.S. 476: part 20,21,22: 1987), having a fire resistance greater or equal to that required of the door-set itself. It must be capable of supporting the door-set for the required fire resistance period without compromising the fire performance of the door-set. In addition, consideration must be given to the loads imposed by the various door-set components, i.e. endplates and barrel support brackets. It is recommended, that a critical temperature of 400 °C and steel sections with an Hp/A value below 230m⁻¹ are used for designing fire resistant steel supporting sections.

Where rolling shutters are fixed to masonry supporting elements, the masonry elements must be capable of providing a fire resistance in terms of the insulation, integrity and load bearing capacity criteria of B.S. 476: Part 21: 1987 equal to or greater than the fire resistance rating (integrity) of the rolling shutter assembly.

The surface/cill onto which the shutter closes must be composed of non-combustible material.

All openings must be capable of carrying the weight of the shutter and be equal or greater than the fire resistance of the roller shutter assembly. All roller shutter weights will be confirmed on our drawings once an order is placed.

Safety Bearings (Fire Shutters) – Risk Assessment

Effectively if the sole intended use of the shutter is as a “fire shutter” i.e. the shutter will be in the closed position, or, it will remain in the open position and close only under fire conditions then a safety bearing would not be required.

If however the shutter is also to be used in a conventional manner, then there must be a consideration that under safe working practices and Health & Safety in the work place “all upward moving doors must be provided with an effective means of protecting them from falling back and causing injury”. (In accordance with the DSMA/DHF code of practice for fire shutters).

We can provide re-settable safety bearings that have been tested to EN12604, EN 12605 and comply with the anti fall back regulation.

Optional Extras

The shutter can be supplied with a Fire Control Panel, this has incorporated into it a visual/audible alarm, timer mechanism and battery backup. The Fire Control Panel functions by accepting the signal from the fire alarm, this activates the audible/visual alarm and holds the signal to close the door for the preset period determined at the installation stage. Once the signal is released the door will fall under controlled descent until final closing. Please consult Enerco for any specific requirements.

Warranty

The Delta Check doors are supplied with a 24-month parts and labour warranty as standard providing the equipment is maintained in accordance with the manufacturer's instruction and not modified in any way whatsoever. Full details of the servicing requirements are available.

Servicing

To help protect your investment and extend the effective working life of the equipment, full maintenance packages are available, and, in most cases, we can maintain all your existing doors and loading bay equipment. The door must be serviced at least once per annum. Full details of our preventative maintenance packages are available on request. Enerco recommend the first service is carried out 6 months after installation.

We have Worksafe Contractor, CHAS accreditation as well as being active members of the Doors and Hardware Federation (DHF) where we have their seal of approval for the service and maintenance of doors. We ensure that our staff are trained to the highest standard and all have an NVQ qualification in line with current industry guidelines This NVQ is in addition to the CSCS Health and Safety, First Aid, Asbestos Awareness and other training including product training applicable to our industry and is continually being updated.



Other products in the Delta range from Enerco include: -

- Delta Guard – Commercial Shutters
- Delta Roll – Steel Roller Shutter Doors
- Delta Speed – High Speed Doors
- Delta Secure – High Speed Security Doors
- Delta Slide – Insulated Overhead Doors
- Delta Insudoor – Insulated Roller Shutters
- Delta Part – Sliding, Bi-folding Insulated Doors
- Delta Strip – Strip Curtains
- Delta Steel – Steel Security Door Sets
- Delta Fold – Steel Sliding Folding Shutters
- Delta Level – Dock Levellers
- Delta Lift – Scissor Lifts
- Delta Seal – Dock Sealing Systems
- Delta Shield – Perimeter Security
- Delta Bar – Window Bars
- Delta Grille – Retractable Window Grilles
- Delta Service – Service and Repairs
- Delta Load – Loading Bay Accessories
- Delta Garage – Garage Doors
- Delta Aluglaze – Aluminium Entrance Systems

Please contact our sales team for more information on 01525 289322 or a brochure. Alternatively visit our web site www.enerco.co.uk.

We reserve the right to change the specification without prior notification or alteration of the product data sheet.