

FIRE SHUTTER - FIREROLL ACOUSTIC E120

Acoustic Rated and Fire Resisting Roller Shutter

DATA SHEET REFERENCE NO. 3-11

NOVEMBER 2020

Bolton Gate Company's Fireroll range of roller shutters is the most comprehensive available in the market. A further addition is the Fireroll Acoustic E120 Roller Shutter which combines fire resistance with a high degree of sound reduction.

In an extensive testing regime at the Department of Acoustics at Salford University and two Fire Test Laboratories, the door achieved a sound reduction of a maximum 25.2dB (at 2000Hz) with a 22dB Rw, and having been fire-tested to EN 1634-1, is rated E120 in accordance with EN13501, EN13241, EN16034 & EN15269. In keeping with the same testing, the shutter is also rated either EW90 or EW120 dependant on size for face fixed arrangements.

A special double curtain arrangement is also available which reduces sound transmission further to a maximum of 39.1dB (at 2000Hz) with a 32dB Rw.

The product is CE marked accordingly.

The product can be utilized in any application where fire and sound compartmentation are required but is ideally suited to school kitchens in multi-function school halls where regulations dictate that a fire resistance is necessary but where a sound break is also essential to avoid disruption from kitchen staff when assemblies or classes are taking place. Larger applications include exhibition halls where its' incorporation allows sound and fire resistance at a fraction of the price of other door types such as movable walls

STANDARD SPECIFICATION

Operation

All shutters are electrically operated by a 230-volt nominal single phase or 400-volt nominal three phase Speedsafe motor mounted on one endplate and have adjustable limit switches incorporated to stop the shutter at the end of each travel.

A pull cord and hand chain are provided for use in the event of power failure.

Standard operation is via a low-level push button station with emergency stop button.

In a fire condition, gravity failsafe closing is activated by a 24-volt DC signal (0.37 amps) from the client's fire alarm panel to the auto reset solenoid which releases the motor brake and is backed up by a fusible link.

A safety brake is supplied to comply with the safeguarding requirements of EN 12604.

Curtain

Shutter curtains are constructed from 100mm high flat section continuously interlocked galvanised steel laths which are securely held in place by steel end locks. Each lath is infilled with fire resisting acoustic material.

Bottom Rail

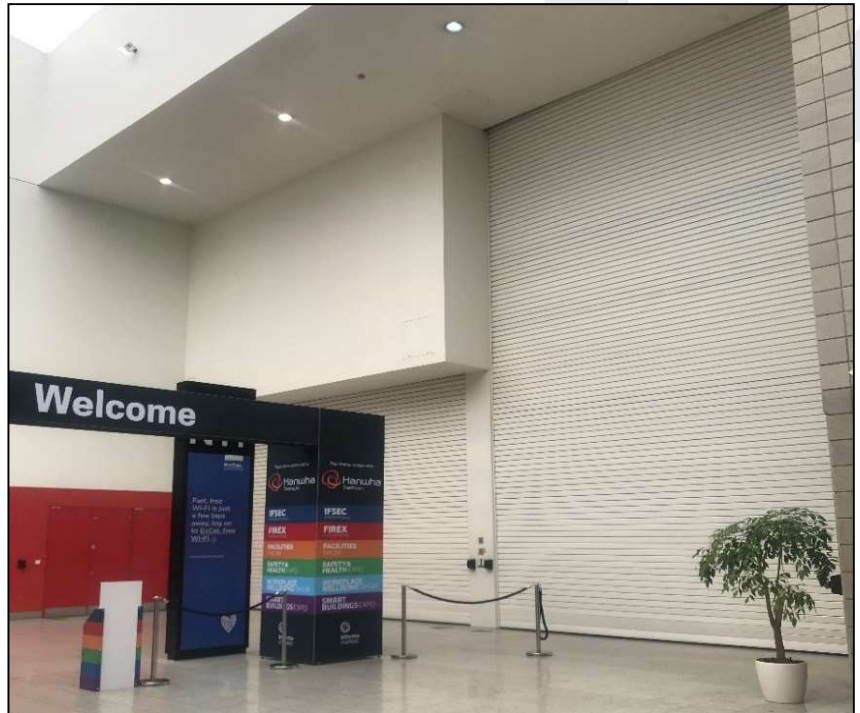
The bottom rail comprises a standard lath fitted with a galvanised steel trim section.

Side Guides

Vertical guides are formed from galvanised steel double rebate channels and are supplied with suitable profiles for fixing to the structure.

Roller

The roller is constructed from seamless steel tube of adequate diameter to resist deflection and held in bearings or cups attached to the endplates.



Endplates

Zinc plated mild steel of appropriate thickness relative to door size and supplied with angles for fixing to the structure.

Coil Casing

A galvanised steel coil casing is supplied to maintain the fire seal at the head.

Finish

Fireroll Acoustic E120 is supplied with most parts galvanised as standard. Where non-galvanised parts are utilised, these are finished with one coat of primer paint

MAXIMUM SIZES

7000mm wide x 5000mm high
12000mm wide – height dependent (please contact our sales team to discuss)

WEIGHT

Varies with opening size dependent on lath/barrel/casing requirements but approximately 50kgs/m².

OPTIONS

- Heat / smoke detectors
- Audio visual warning
- Factory finish comprising white plastisol to internal curtain face (coil side) with a polyester powder coated finish to external face from a range of standard RAL colours
- Grade 304 or 316 stainless steel.
- Double curtain arrangement with increased Rw.

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