

firemaster cleanroom

2 hour fire rated curtain for use in cleanroom environments



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delivering engineered solutions

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Cleanrooms can be very large and entire manufacturing facilities can be contained within a cleanroom with factory floors covering thousands of square meters that are very sensitive to environmental contamination but still require fire compartmentation.

The FireMaster Cleanroom features a fabric suitable for ISO Class 6 or above applications whilst in operation. Due to its unique design features, the FireMaster Cleanroom can be fully deep cleaned whilst in situ in accordance with ISO 2812 (Paints and varnishes - Determination of resistance to liquids).

fabric

The curtain material type is EFP™ 3/1000/CR/SS, which is a metallic based fire barrier. The material is halogen-free, exceptionally resistant against attack from most chemicals, non-oxidizing acids, pitting and intergranular corrosion in continuous operation up to 400° C.

It has an area weight of 400g/m² ± 10%. The curtain material offers dimensional stability and is non-combustible to EN 13501-1 Reaction to Fire and is suitable for chemical, pharmaceutical and food processing applications.

applications

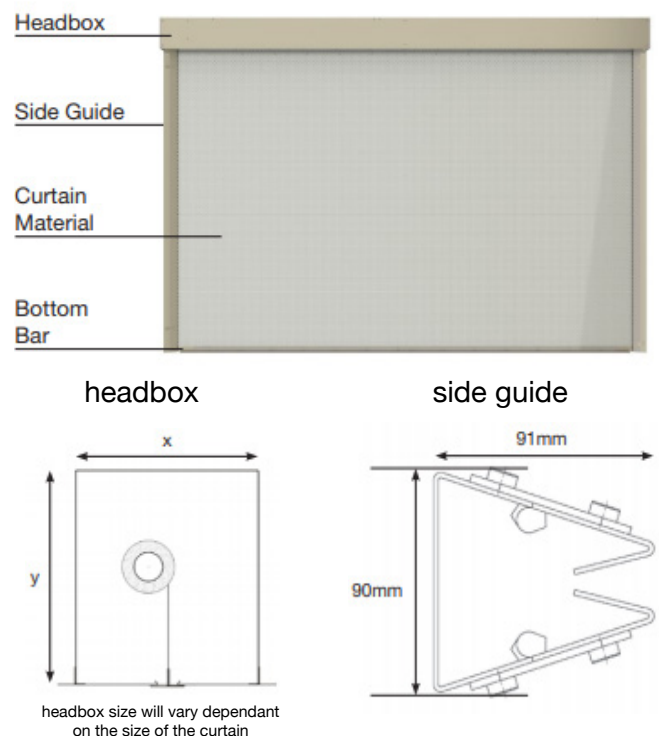
- Provides time for people to escape
- Protects escape routes
- Door replacement
- Protecting non fire rated walls and glass
- Protects property and equipment
- External boundary protection
- Protection to equipment passing through compartment floors
- Enables open plan manufacturing where maximum compartment size exceeds optimal facility layout
- Enables in process materials or products to be staged in open plan circulation space

operation

The FireMaster Cleanroom remains hidden within its headbox until deployment. Once deployed the curtain lowers via gravity at a controlled pace of 0.06 - 0.15m/s until it completely seals the opening.

construction

The FireMaster Cleanroom is manufactured from 316L grade stainless steel suitable for use in a cleanroom environment. The FireMaster Cleanroom features a stainless steel curtain that does not release particles in operation and features side guides that can be manually opened and closed for cleaning.



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installation

The system is completely 'plug and play', which means all wiring terminations can be connected quickly and efficiently, reducing installation times and complexity.

The system also incorporates a 'self-test' facility, enabling the system to monitor its performance and maintaining a safe system. Please consider lead time, as this process can vary dependent on the size of the project.

fire rating

The FireMaster Cleanroom has been tested to BS EN 1634-1 and BS EN 13501-2. The FireMaster Cleanroom has achieved a fire integrity rating of 120 minutes (E120) and a fire radiation control rating of 120 minutes (EW120).

benefits

- Certified for use in cleanroom environments
- Replace fire rated walls and doors allowing for open plan designs
- Protect non-fire rated walls and glazing and openings in walls
- Suitable for all cleanrooms up to ISO 6, Class 1,000 classification
- Fire resistance for up to 2 hours
- Manufactured from materials resistant to harsh cleanroom cleaning chemicals
- Out of room controls and accessories
- Adjustable battery backup
- Optional emergency retract button and visual /audio warning

dimensions

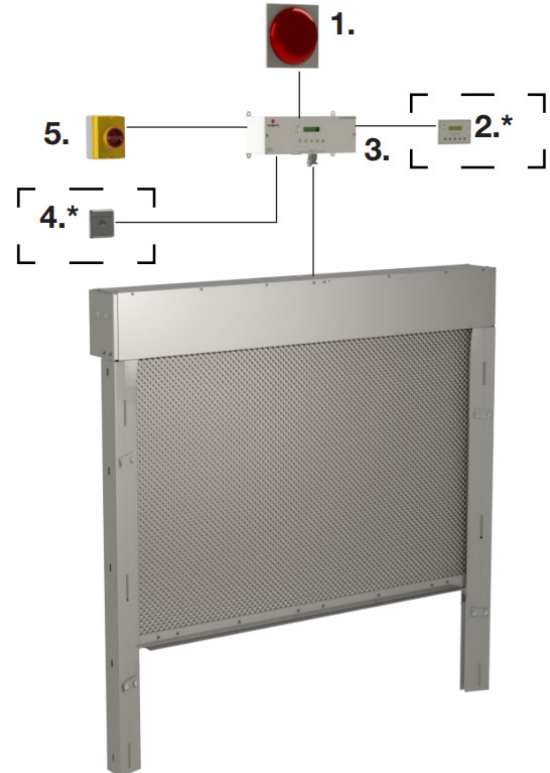
The FireMaster Cleanroom has been approved to have the maximum dimensions of 2.6m (w) x 2.8m (h). Increased sizes are possible under assessment.

testing and certification

The FireMaster Cleanroom has been tested to:
BS EN 1634.-1:2014
EN ISO 14644-1 (CLASS ISO 6)
BS EN 13501-2:2007+A1:2009

controls

The Mono Control Unit is a compact single curtain controller with a complete range of incorporated ancillary control options.



1. Fire Alarm (Normally closed, volt-free contacts)
2. *Additional Control Panel (if required)
3. Mono Control Unit
4. *Emergency Retract Button
5. 230Vac 50Hz Dedicated Supply



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Melbourne

Greene Fire Pty Limited
123 Woodlands Drive
Woodlands Industrial Estate
Braeside, VIC, 3195
P (03) 8526 1990
www.greenefire.com.au
ABN: 50 122 435 081

unit 12



Sydney

Greene Fire Pty Limited
Unit 2, 7-11 Parraweena
Road Taren Point, NSW 2229
P (02) 9526 3100
www.greenefire.com.au
ABN: 50 122 435 081



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