Firemaster™

Firewall Applications

delivering low risk building solutions
The Firemaster system has been developed as a ‘total internal wall and ceiling’ solution ideally suited for the construction of non load bearing internal partition walls and ceilings. The approved system provides a tested fire resistance in order to perform as internal firewalls, ceilings or compartmentation walls, and is designed to be integrated with Eurobond Doors.

**Firemaster Wall Ultima**
Firemaster Wall Ultima provides the demanding solution for fire walls and compartmentation in high risk areas where **up to 4 hours’ fire resistance** is required. This panel solution will make a real contribution to reducing risk to life and business continuity by providing the highest level of insulation and integrity in the event of a fire.

**Firemaster Wall Extra**
Firemaster Wall Extra is the product of choice when the demand is for a **2 hour fire resistance** internal wall panel. Fully tested and independently certified durability, structural integrity and fire performance is at the heart of Firemaster Fall Extra.

**Firemaster Wall Lite**
Firemaster Wall Lite gives the optimum balance between fire performances, cost and weight, and has been developed specifically as a practical, contractor friendly solution. Easy to install, Firemaster Wall Lite acts as a high quality and robust internal lining, wall or partition and can provide **up to 90 minutes’ fire resistance**.

**Firemaster Wall Ceiling**
Firemaster Ceiling is a class leading fire-rated ceiling panel suitable for both walk on (access and maintenance) and non walk on use. It’s the ideal solution to compartmentalise a building when stock protection and life safety are a priority as it can provide **up to 2 hours’ fire resistance**.
Firewalls

Firewalls control the spread of fire within a building by sub-dividing it into compartments separated from one another by walls and/or floors of fire-resisting construction. A building without compartmentation is as unthinkable as a body without its skeleton, and it is natural to see it used in conjunction with other active and passive fire design.

From a life safety perspective firewalls prevent rapid fire spread which could trap occupants of the building; and reduce the chance of fires becoming large, on the basis that large fires are more dangerous, not only to occupants and fire and rescue service personnel, but also to people and environment in the vicinity of the building.

From a property protection perspective, compartmentation is seen as vital to limit the spread of fire in order to:

- Prevent excessive damage caused by fire and smoke spread outside the room or compartment of origin.
- Limit the area of damage from a fire in order to minimise business interruption and consequent financial exposure.

Consider these odds: one out of two businesses never returns to the marketplace following a major fire. Of those that do, half go bankrupt within three years. The ones that survive plan their response to a fire disaster before it strikes and effective firewalls and compartmentation is recognised as fundamental in limiting fire risk.

Fire Performance

It is paramount for a firewall that the wall or ceiling construction offers the highest levels of fire protection for both life and property safety. Firemaster Wall and Ceiling panels, with their non-combustible stone wool core can deliver up to 4 hours fire performance that is independently certified by the Loss Prevention Certification Board (LPCB) and FM Global. Fire rated spans of up to 12m can be delivered. The panels are designed to be integrated with Eurobond’s Firemaster doors for a complete fire resistant solution.

Cost Savings

An independent cost comparison study of non-load bearing fire rated compartment and partition walls has shown cost savings of up to 40% per m² for Firemaster panel solutions when compared to conventional jumbo stud and blockwork constructions.¹

Speed and Flexibility

Firemaster panels are engineered for rapid installation and the ability to quickly install fully finished walls and ceilings can make the difference when time is of the essence. The panels are manufactured to the exact specification for the project with on-site cutting and waste kept to a minimum.

Not only are Eurobond Firemaster wall and ceiling solutions simple and quick to install but it is also demountable to allow the internal partitions to be altered ‘future proofing’ the use of buildings such as warehouses, factories and offices.

¹ Independent study by cost consultants Faithful+Gould
Features & Benefits
Fire Performance

- Firemaster wall, and ceiling panels, combined with Eurobond Doors can achieve fire rated enclosures with insulation and integrity of up to 4 hours*

- Long fire-rated spans (up to 7.5m to LPS 1208 and up to 12m to BS 476 Part 22)

- Firemaster is tested to LPCB FM Global Standards ensuring the highest levels of life and property safety

- Firemaster’s stonewool core is rated A1 Non Combustible under the Euroclass Reaction to Fire, the highest rating available

- Tested performance of the complete construction NOT individual components

- All Eurobond panels are manufactured under a strict quality controlled process ensuring consistent performance

Hygiene

- Firemaster’s symmetrical hygienic joint creates a sealed surface and can maintain a controlled sterile environment minimising airborne particles and micro-organisms

- Wall and Ceiling panels are suitable for use in food processing areas, clean rooms, offices, toilets and other amenities, with a temperature ranges of 1°C to 50°C

- Faced with foodsafe laminate as standard, with an option for stainless steel facings when required

- When installed Firemaster creates a consistent, smooth, low maintenance surface finish

- Firemaster’s coated steel faces are impermeable and do not promote the growth of bacteria

Construction

- Quick and Easy installation with no wet trades and single tradesman delivers a high quality finished product with little skilled installation training necessary

- Demountable system – future proof for expansion at a later date

- Firemaster wall and ceiling panels, when combined with Eurobond Doors create a complete internal solution

- Firemaster panels are installed without the need for scaffolding

- Minimal on site handling and low waste

- Installed Firemaster panels carry significant cost benefits over alternative construction (results from an independent Faithful & Gould report, for more information please visit www.eb-firemaster.co.uk)

- Long spans allow Firemaster to be easily installed floor to ceiling to quickly divide internal areas

Environmental

- Low environmental impact with minimum on-site waste

- Firemaster panels are manufactured with a high content of recycled material

- WRAP approved recycling process*

- Eurobond panels can be totally recycled at the end of life as part of a ‘cradle to cradle’ approach

*please visit www.eb-firemaster.co.uk for more details
Eurobond Doors

Eurobond Doors is a sister company of Eurobond Laminates and is a leader in the design, manufacture and supply of performance steel doorset. Eurobond Doors supply a range of doors for a variety of applications and due to the quality, technology and performance of the doors they are consistently specified for a wide range of industries.

Eurobond Doors have designed a range of fire resistant doorsets to compliment Eurobond’s Firemaster Wall & Ceiling panels. This combination of walls, ceilings and doorsets tested as a system provide the complete, fire-rated, solution to creating internal spaces into a range of internal building applications. From personnel to insulated to fire rated doors, Eurobond are able to provide specific solutions that satisfy your project requirements.

leaf

- Fire-resistant steel doorsets tested to BS 476 Part 22 up to 4 hours’ integrity
- 44mm Blade thickness with integral astragal
- Steel thickness 1.2mm Galvatite DX 51
- Maximum blade height 3.5m approx.
- Maximum blade width 1.5m approx.
- Dufaylite D170 honeycomb core
- Internal strengthening 2mm Galvatite sub-frame
- Powder coated

frame

- Steel thickness 1.2mm Galvatite DX 51
- Rebated wrap around frame suitable for panel applications
- Rebated fixed frame complete with adjustable frame fixing screw
- Powder coated

features

- Hinges – Stainless Steel EN1935 Grade 13/14 dependant on leaf size
- Latched and unlatched for fire performance

options

- Vision panels – various configurations to meet Part M compliance
- Louvres – suitable for improved ventilation
- Transom panels – aid service access requirements
Ancillaries & Flashings

Eurobond also design and manufacture a full range of ancillaries and flashings to allow Eurobond Firemaster panels to be easily integrated into your building. Our range of flashings have been tried and tested throughout a number of industries and have proven performance for the life of the component. Available in lengths up to 3m long, flashings are supplied either galvanised or pre-coated.

- Internal Angle
- External Angle
- Internal Channel
- Off set channel
- Top Hat flashing
- Flat cover strip

Integrated Service & Support

Technical Service

At Eurobond we recognise that well designed products require first class technical support in order for them to deliver the expected results both functionally and aesthetically.

We employ a dedicated team of technical services and support engineers, with expert knowledge to support designers, specifiers and installers at all stages of the design and procurement process from building design and integration through to code compliance and ‘best practice’ installation.

Eurobond is committed to ‘low risk building solutions’ not least in the areas of sustainable construction and fire performance. The design and construction guidance from our Technical Services Team includes:

Supporting BREEAM excellence: Through full environmental product declarations, use of materials with a high recycled content and practical site waste and end of life recycling solutions.

Reducing Fire Risk: Designing panel systems with products which are inherently non-combustible and have been tested with up to 4 hours fire resistance even in long span installations.

Durability and Structural Capacity: Wind load calculations, and product span capabilities are fully tested and modelled and our structural product data is accredited by The Steel Construction Institute.