



FireMaster[®] Fusion

Product Data Sheet

Product Description

FireMaster Fusion Blanket is a non-combustible, flexible composite blanket, manufactured using a unique, patented format and process, incorporating ceramic fibre and ceramic paper together with a flexible endothermic core, ideally suited for moulding itself tightly to elements of construction.

The FireMaster Fusion blanket offers highly efficient thermal insulation performance under fire conditions, for a range of passive fire protection applications, when exposed to cellulosic fire.

FireMaster Fusion Blanket is supplied within a reinforced aluminium foil and is fully encapsulated. The reinforced foil provides for a much greater degree of resistance to tears or impact damage.

The FireMaster Fusion Blanket is non-combustible and thus there is no risk of smoke or toxic gas emissions or loss of strength during a fire due to binder burn out. Under fire conditions the flexible core case hardens to a solid surround providing additional protection to the services etc. being protected.

FireMaster Fusion Blanket is easy to handle being flexible and resilient with good tensile strength. No special installation tools are needed, and the blanket can be easily cut with a sharp knife. The blanket is supplied in rolls each marked with key production data, packed in a specially printed protective sheet.

A significant number of fire tests have already proven the performance of the FireMaster Fusion for in excess of two hours for ducts, as well as many applications for the building and construction industry.

The FireMaster Fusion Blanket product has been fully tested as a wrap system over steel ducts to provide for fire-resistant ventilation and smoke extraction duct system, offering in excess of 120 minutes fire resistance in accordance with the relevant criteria of BS 476:Part 24:1987, and is also tested to EN 1366-1 for both horizontal and vertical duct systems, where ducts are exposed to either or both internal and external fire. Fire protection is achieved with lower thickness and weight than with other Mineral Fibre compositions, needing only a single layer of 27mm to provide the full fire resistance criteria and meeting the full insulation criteria for at least 120 minutes.

The FireMaster Fusion Blanket is designed for internal use. Where consideration for use of the product requires an external solution, we can provide a weatherproof self-adhesive aluminium based sheathing, offering zero water permeability, UV protection and full vapour barrier.

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Benefits

- Product does not deteriorate with age
- Product will not support mould growth or vermin
- Product is very flexible and will conform to complex shapes of ducts or substrates with ease
- Offers excellent thermal and acoustic performance
- Very thin (27mm) compact single layer application and takes up little space within services shafts reducing issues with space constraints
- No welded pins or other hot work required
- Flexible installation process can be applied in the factory or on-site at floor level, reducing exposure to working at heights
- Fast installation time, saving on labour costs
- Available together with weatherproof sheathing for fully exposed external use

Product Details

Model	Roll Length	Roll Width	Thickness	Packaging	Roll Weight
FRD EN003	5000mm	1100mm	27mm	1 roll per bag, 4 bags per pallet	1 roll = 53kg
FRO EN001	5000mm	1100mm	15mm	1 roll per bag, 6 bags per pallet	1 roll = 10kg
Weather-proof sheathing	45m	895mm	0.2mm	1 roll per box	1 box = 18kg

Fire Protection Properties

- Non-combustible in accordance with EN ISO 1182:2020
- EN 1366-1 : Vertical Duct A
- EN 1366-1 : Vertical Duct B
- EN 1366-1 : Horizontal Duct A
- EN 1366-1 : Horizontal Duct B

The above ducts were fire tested and included access panels to the exposed (Duct A) and unexposed faces (Duct B). these ducts met the relevant performance criteria of the standard for in excess of 120 minutes stability, integrity and insulation

Applications

- Ductwork fire protection
- Infill to fire doors and access panels
- Insulation layer for compartment walls, floors & ceilings

The blanket product is subject to an on-going programme of system development and testing, included for insulated compartment walls, ceilings etc. Please contact your local office for information of the latest developments and certifications.



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