

Firemaster® FastWrap XL

“Insulating System for Chimney and Ventilation Duct”

Description

FireMaster® FastWrap XL is an insulating blanket composed of fibres which are resistant to high temperature and classified for fire protection. It's manufactured using Thermal Ceramics patented Superwool fibres which have low bio-persistence and not harmful for the human body and environment. It is offered as fully encapsulated with glass-reinforced aluminium foil which provides easy and fast installation.

In addition to the protection of the electric circuit, FireMaster® FastWrap XL is also UL and ULC listed for kitchen and ventilation ducts with zero tolerance. Furthermore, it is also included in a number of UL fire suppression systems for fire-resistance-rated floor, ceilings and walls.

With respect to life-safety applications, the material is also included in the “UL Monitoring Service Program”.



Applications

- Offers fire insulating systems, 60 and 120 minutes for kitchen exhaust ducts.
- Provides fire-protection against the combustible materials in the duct where it is applied.
- FireMaster® FastWrap XL has a firestop system, 60, 120 and 180 minutes for hazardous exhaust ducts, pressurization ducts, clothes dryer exhaust ducts, trash and linen chutes and other fire-rated HVAC ducts.
- It provides circuit integrity protection of 60 minutes for the cable trays and steel pipes.
- Also, it provides engineered and tested solutions for the fire protection of structural steel beams and columns per ASTM E119, ISO 834 and UL1709.

Features

- Provides fire resistance against the combustible materials at the areas it is used.
- Thin and lightweight with its thickness of 38 mm and density of 96 kg/m³.
- Contours easily to complex duct designs.
- Fully aluminium foil encapsulated for fast and clean application.
- An inorganic and fireproof product.
- Contains fibres resistant up to 1200 °C for safety.
- Provides diversity as it is suitable for different passive fire insulating systems.
- Corrosion-resistant.
- Provides excellent sound absorption.

Physical Properties

| Product | Unit | Dimensions (mm) | Weight (kg) |
|-------------|------|------------------|-------------|
| FastWrap XL | Roll | 38 x 610 x 4880 | 11 |
| FastWrap XL | Roll | 38 x 1220 x 4880 | 22 |
| FastWrap XL | Roll | 38 x 610 x 7620 | 17 |
| FastWrap XL | Roll | 38 x 1220 x 7620 | 34 |



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Performance Specifications

| Reference Standard | Standard Number | Performance |
|--------------------------------------|-----------------|---------------|
| Oil Waste Housing System | ASTM E2336 | Pass |
| Non-Combustibility | ASTM E136 | Pass |
| Fire resistance (wall) | ASTM E119 | Pass |
| Durability Test | ASTM C518 | Pass |
| Internal Fire Test | ASTM E2336 | Pass |
| Fire Engulfment (duct) | ASTM E814/E119 | Pass |
| ULC Grease Duct Test | - | Pass |
| Grease Duct Clearance | UL 1978 | Pass |
| Air Ventilation Duct Insulation | ISO 6944 | Pass |
| Surface Burning Characteristics | | |
| Flame Spread (foil/blanket) | ASTM E84 | 5/0 |
| Smoke Generation (foil/blanket) | ASTM E84 | 10/0 |
| Thermal Resistance (R-value at 24°C) | ASTM C518 | 7.3 per layer |
| Mould Growth (75% - 95% humidity) | ASTM D6329 | Resistant |



Building Code Reports

| Listed Uses | Agency | Listing | Layer |
|---|--------|----------------|--------|
| Grease Duct Housing As per ASTM E2336 and AC101 | UL | G18 | 2 |
| | ICC-ES | ESR-2213 | |
| Grease Insulation as per ULC Grease Insulation Test Protocol | ULC | FRD 4,7 | 2 |
| Grease Insulation (2003 IMC) | OPL | TC/BI 120-01 | 1 |
| Through Penetration FireStop System As per ASTM E814, UL, 1479 | UL | - | 1 or 2 |
| | ULC | | |
| Ventilation Duct Enclosure System As per ISO 6944-1985 | UL | HNLJ. V1,19,29 | 1 |
| | ULC | FRD 3,5,6,18 | |
| Electrical Circuit Protective System | UL | FHIT.5 | 2 |

The values given herein are typical average values obtained in accordance with standard test methods and subject to normal manufacturing variations. They are supplied as technical data and may change without notice. Contact our company to obtain detailed information.

