

F.M. INSULATION SUPPLIES
INDUSTRIAL & COMMERCIAL INSULATION MATERIALS



IMPORTANT:

To be read in conjunction with product update,
Issue 4 dated 15/9/22 at:

fminsulation.com.au/insulation/3m.php



Fire Protection Products

3M™ Fire Barrier Duct Wrap 615+

Product Datasheet

April , 2018

1. Product Features

- High flexibility for installation ease
- Foil encapsulated for blanket protection, less dust, and high wrap strength
- Available in 609.6mm x 7.62m, 1220 mm x 7.62m rolls and 150 mm x 7.62m collar
- Blanket adhered to foil scrim helps prevent wrap from slumping

2. Applications

3M™ Fire Barrier Duct Wrap 615+ is an ideal fire resistive enclosure for Commercial kitchen grease ducts and ventilation air ducts. It is a proven alternative to Spray and board duct protection systems. 3M™ Fire Barrier 2000+ and 3M 425 Foil Tape is used in combination with 3M™ Fire Barrier Duct Wrap 615+ to firestop the duct when the duct penetrates fire-rated floor or wall assemblies. 3M™ Fire Barrier Duct Wrap 615+ also provides a firestop solution where the insulation criteria of service penetration must be met - see individual system approval documents.

3 Specifications

Installation shall be in strict accordance with manufacture's written instructions, as shown on the system approval documents. 3M™ Fire Barrier Duct Wrap 615+ shall be a high-temperature fibrous thermal insulation blanket encapsulated in a fiberglass-reinforced aluminized polyester foil. Duct Wrap density shall be nominal 96 kg/m³ and have a nominal 38 mm thickness. The fibre blanket shall have a continuous use limit of 1000°C.

Smoke Developed Index and Flame Spread Index of the bare blanket, and of the foil encapsulated blanket shall be 0/0. The foil encapsulation shall be bonded to the core blanket material.

4. Performance & Typical Physical Properties

Scrim Colour:	Aluminium with Black Text
Blanket Colour	White
Blanket Weight:	4.38 kg/m ²
Surface Burning: Foil Encapsulated Blanket (ASTM E 84)	Flame Spread 0, Smoke Development 0
Single layer R-Value at 23°C * ASTM C518/AS4859.1	1.1 m ² •K•W ⁻¹
Linear Shrinkage (24 hrs at 1000°C)	1.2%
VOC	0%

Thermal Conductivity	
W/m.K	Temperature
0.09	260°C
0.17	537°C
0.28	815°C
0.36	982°C

*(CSIRO Report :XC3363_R2)

5. **Reports & Certificates** - Refer to Certificates & 3M Australia Fire Protection Specifier Guide for layering requirements, field of application and installation details, available at : www.3m.com.au/fireprotection

3M™ Fire Barrier Duct Wrap 615+ helps contribute to credits under the following US Green Building Council's Leadership in Energy and Environmental Design (LEED) v4 Standards :

- Packaging
- Indoor Environmental Quality (EQ) - Low Emitting Materials

6. Packaging, Storage, Shelf Life

3M™ Fire Barrier Duct Wrap 615+ rolls are packaged in corrugated cardboard boxes. Product is stable under normal storage conditions. Normal stock and stock rotation practices are recommended. 3M™ Fire Barrier Duct Wrap 615+ shelf life is indefinite when stored in original unopened packaging in a dry warehouse environment. Pallets should not be stacked. 3M™ Fire Barrier 3M™ Fire Barrier Silicone Sealant 2000+ must be also stored in a dry warehouse environment.

7. Maintenance

No maintenance is expected when installed in accordance with the applicable third-party listed system and in accordance with 3M™ Fire Barrier Duct Wrap 615+ Installation Guidelines. Once installed, if any section of the 3M™ Fire Barrier Duct Wrap 615+ is damaged such that the blanket requires repair, the following procedure will apply:

1. If the blanket has not been damaged but the foil has ripped, seal the rips with aluminium foil tape.
2. If the blanket has been damaged:
 - a. The damaged section should be removed by cutting the steel banding or removing the clips holding it in place.
 - b. A new section of the same dimension should be cut from a roll of 3M™ Fire Barrier Duct Wrap 615+, either 609mm or 1220 mm wide.
 - c. The new section should be placed and fitted ensuring the same overlap that existed previously (i.e. the original installation method).
 - d. The steel banding should be placed around the material and tensioned so as to sufficiently hold the 3M™ Fire Barrier Duct Wrap 615+ in place.

7. Safe Handling Information

Prior to handling or disposal of 3M™ Fire Protection Products, consult all relevant Safety Data Sheets (SDS).

8. Availability

3M™ Fire Barrier Duct Wrap 615+ is available from 3M Authorised Fire Protection Products Distributors. 3M™ Fire Barrier Duct Wrap 615+ is available in 609 mm x 7.62 m Roll (1/case), 1220 mm x 7.62 m , Roll (1/case) & 3M™ 615+ Fire Barrier Duct Wrap "Collars" are available in 150 mm x 7.62 m Rolls (4/case).

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