3M Science.
Applied to Life.™

3M™ Flexible Wrap Solutions

Fire Protection for critical building systems.

Safeguard air, kitchen extract (grease) and life safety (ventilation air) ducts, critical electrical circuits, fuel lines, structural steel and other crucial components with the advanced technology of 3M's protective wrap systems.

615+

Grease and Ventilation Air Duct Wrap

Zero clearance to combustible throughout the entire enclosure system.

3M™ Fire Barrier Duct Wrap 615+

Provides excellent insulating capabilities and offers a space-saving alternative to traditional bulky fire protection methods such as installing a gypsum wall shaft or enclosure. This wrap is commonly used in commercial kitchen grease ducts, as well as ventilation air ducts. Duct Wrap 615+ protects both air and grease ducts for up to two hours.

- Lightweight (6 lbs per cu ft) and thin (1.5 in*) for easier application
- Up to 2-hour fire protection
- Third party certified to ASTM E2336 (grease duct test standard) and ISO 6944 (air duct test standard)
- Supports maximum temperatures of up to 2192°F (1200°C)
- Apply 2 layers for grease ducts
- Apply 1 layer for air ducts (external fire threat)
- Blanket is adhesively bound to the foil scrim

*In accordance with the tolerances in ASTM C892 Standard Specification for High-Temperature Fiber Blanket Thermal Insulation.

Kitchen Exhaust Ducts

Approved for use on kitchen exhaust ducts, per ASTM E2336 providing 1 and 2 hour protection with a 2-layer system.

Stair Pressurization and Life Safety Ventilation Ducts

Duct Wrap 615+ is tested to ISO 6944 Type A and can be used on stair pressurization ducts and other life safety air ducts, providing 2 hour protection with a 1 layer system.

2hr
Fire Protection

Grease Duct Listings for 3M™ Fire Barrier Duct Wrap 615+

Fire Resistive Rating	Enclosure System	Duct System, Intertek	Testing
1 or 2 hours	2 layers of 3M™ Fire Barrier Duct Wrap 615+, 3" (76mm) perimeter and 3" (76mm) longitudinal overlaps	3MU/FRD 120-18	ASTM E2336/ ICC ES AC101.1
		3MU/FRD 120-19	

Codes and Standards for 615+, Grease Duct*

- NFPA 96, 2017 Edition
- NFPA 96, 2014 Edition
- Uniform Mechanical Code, 2018 Edition, Section 507.4.5
- International Mechanical Code, 2018 Edition, Section 506.3.11
- International Mechanical Code, 2015 Edition, Section 506.3.11

Ventilation Air Duct Listings for 3M™ Fire Barrier Duct Wrap 615+ (tested to ISO 6944 Type A)

Fire Resistive Rating	Enclosure System	Duct System	Through-Penetration System	Listing Agency
1 or 2 hours	1 layer of 3M™ Fire Barrier Duct Wrap 615+, 3" (76mm) perimeter and longitudinal overlaps	V-27	W-L-7180 W-J-7104 F-C-7054	UL
		V-31	W-L-7180 W-J-7104 F-C-7054	UL
		3MU/FRD 120-15	3MU/PH 60-03 3MU/PV 120-23 3MU/PV 120-25	Intertek

Codes and Standards for 615+, Air Duct*

- NFPA 90A, Standards for the Installation of Air Conditioning and Ventilating Systems, 2018 Ed.
- NFPA 92 Standard for Smoke-Control Systems, 2018 Edition — Section 6.6.2
- NFPA 101 Life Safety Code, 2006 Edition — Section(s) 8.6.7, 18.7.7
- International Mechanical Code, 2018 Edition — Section 513.10.2
- International Building Code, 2018 Edition — Section 909.10.2

*This is only a partial list of codes and standards. Go to **3M.com/firestop** or speak to your authorized 3M distributor or sales representative at 1-800-328-1687.

5A+

Plenum Wrap

Keep your plenum areas safe by wrapping plastic pipes and cables.

3M™ Fire Barrier Plenum Wrap 5A+

Creates a fire-resistive enclosure that reduces flame and smoke spread ratings to code compliant levels in return air plenums. The strong, thin and lightweight product is extremely easy to manipulate and install, particularly around pipes and cabling.

- ASTM E84, NFPA 262 (UL 910), and UL 1887
- Strong, lightweight and flexible material for easy installation
- Foil scrim encapsulated blanket

Listings for 3M™ Fire Barrier Plenum Wrap 5A+

Enclosure System: 1 layer of 3M™ Fire Barrier Plenum Wrap 5A+, 1" (25mm) perimeter and longitudinal overlaps

Design Listing Number, Intertek	Protected Item	Testing
3MU/FRD 120-16	Plastic Pipe: PVC, CPVC, ABS, PB, PE, PP and PVDF	UL 1887
3MU/FRD 120-17	Cabling with PVC, CPVC, ABS, PB, PE, PP and PVDF jacketing	NFPA 262 (UL 910)
3MU/BI 120-01	Plastic Pipe: PVC, CPVC, ABS, PB, PE, PP and PVDF	ASTM E84

Surface Burning Characteristics (ASTM E84 for 5A+)

Enclosure System	Flame Spread	Smoke Developed
Foil Encapsulated Blanket	0	0
Blanket	0	0
Foil Encapsulated Blanket around plastic pipes	0	45 (modified E84)

DVW
Dryer Ventilation Wrap

Fire protection designed for wood frame construction.

3M™ Dryer Ventilation Wrap

3M™ Dryer Ventilation Wrap is a fire-resistant wrap that consists of an inorganic fiber blanket encapsulated with a scrim-reinforced foil. This dryer ventilation wrap has been designed as a strong, lightweight and flexible material for easy installation.

This product is engineered to create a fire-resistive enclosure capable of 1-hour ratings to acceptable levels for dryer and kitchen ventilation ducts in wood frame fire rated construction.

- Provides single layer 1-hour rating for dryer, bathroom and domestic kitchen ventilation ductwork
- Strong, lightweight and flexible
- Features foil encapsulated scrim
- Non-asbestos wrap
- Provides equal Fire and Temperature rating (F&T)
- Tested to ASTM E2816, Condition B

Listing for 3M™ Dryer Ventilation Wrap

Enclosure System: 1 Layer of 3M™ Dryer Ventilation Wrap, with either 1" (25mm) or tightly butted perimeter and longitudinal overlaps*

Design Listing Number, Intertek	Protected item	Testing
3MU/DI 60-02	Up to 7" Diam. or 4" x 10" Steel Duct	ASTM E2816, Condition B

*See listing for full installation steps and requirements.

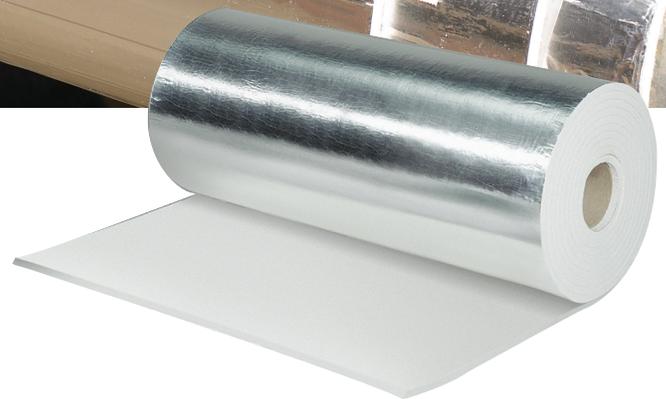

1hr
Fire Protection

E-5A-4

Endothermic Mat

Protection that enhances design flexibility.

3M™ Interam™ Endothermic Mat E-5A-4

Tested for a full range of critical applications, E-5A-4 blocks heat by chemically absorbing it — when exposed to extreme heat, it releases chemically bound water that cools the outer surface of the mat. This helps reduce the rate of temperature rise and slows heat transfer even during intense fires. Provides up to 4-hour fire protection for structural steel applications in accordance with ASTM E119, up to 3-hour fire protection for electrical circuit applications in accordance with ASTM E1725 and, when applied to the back and sides of metallic utility boxes, our endothermic mat helps achieve an equal F-rating and T-rating in membrane penetrations of rated walls assemblies. It also protects fuel oil piping.

- Endothermic design releases cooling chemical-bound water when exposed to extreme heat
- Versatile: rated for structural steel, electrical and communication circuitry (i.e., emergency responder DAS — Distributed Antenna Systems), wall opening membranes and fuel oil piping
- Flexible: easy to cut and configure for installation on complex shapes and around corners
- Non-corrosive and requires no maintenance when properly installed
- Provides protection against intense fires including hydrocarbon pool fires and jet fires

4hr
Fire Protection

Listings for 3M™ Interam™ Endothermic Mat E-5A-4				
Protected Building System	**Fire Resistive Rating**	**Enclosure System**	**Testing**	**Listing Agency**
Structural Steel	Up to 4 hours	X206	ASTM E119	UL
Electrical or Communication	Up to 3 hours	3MU/AF 120-01 >1" Conduit	ASTM E1725 (UL 2196)	Intertek
		System No. 34 >4" Conduit		UL
		3MU/AF 180-02 Cable Bundle		Intertek
		3MU/AF 180-03 Junction Box		Intertek
Large Metallic Membrane Penetration	Up to 2 hours	W-L-7190	ASTM E814 (UL 1479)	UL
Fuel Oil Piping	Up to 3 hours	FP-1, FP-2	UL 1489	UL

For more information including oil and gas applications, visit **3M.com/emat**

Choose the right wrap for the right application.

Applications	615+	5A+	Dryer Ventilation	E-5A-4
Grease Duct	●			
Ventilation Air Duct	●			
Life Safety Duct (Stair Pressurization, Smoke, Exhaust, etc.)	●			
Plenum Applications		●		
Dryer Ventilation	●		●	
Domestic Kitchen Ventilation			●	
Bathroom Ventilation			●	
DAS/Communication Cables				●
Critical Electrical Circuitry				●
Structural Steel				●
Fuel Oil Piping				●
Large Metallic Membrane Penetration				●

Note: Consult individual project plans for which codes and standards apply.

Performance comparison.

Performance Characteristics	615+	5A+	Dryer Ventilation	E-5A-4
ASTM C518	●	●	●	
ASTM C411	●		●	
ASTM C1338	●	●	●	
ASTM E84	●	●	●	●
ASTM E814 (UL 1479)	●		●	●
ASTM E119	●			●
ASTM E136	●	●	●	●
ASTM E1725				●
ASTM E2336	●			
ASTM E2816			●	
ISO 6944	●			
NFPA 262 (UL 910)		●		
UL 1887		●		
UL 1709				●

Ordering information.

Product	Roll Size (Width x Length)	Thickness	UPC Number	Packaging	Roll Weight
3M™ Fire Barrier Duct Wrap 615+	24" x 25' (60.9cm x 762cm)	*1.5" (38mm)	000-51115-18799-5	1 roll/case 4 cases/pallet	45 lbs (20 kg)
	48" x 25' (121.9cm x 762cm)	*1.5" (38mm)	000-51115-18800-8	1 roll/case 2 cases/pallet	90 lbs (40 kg)
3M™ Fire Barrier Plenum Wrap 5A+	24" x 50' (60.9cm x 1524cm)	0.5" (12.7mm)	000-51115-16513-9	1 roll/case 8 cases/pallet	45 lbs (20 kg)
	48" x 25' (121.9cm x 762cm)	0.5" (12.7mm)	000-51115-16574-6	1 roll/case 8 cases/pallet	90 lbs (40 kg)
3M™ Interam™ Endothermic Mat E-5A-4	24.5" x 20' (62.2cm x 609.6cm)	0.408" (10.4mm)	000-51115-54913-7	1 roll/case 12 rolls/pallet	74.6 lbs (33.8 kg)
3M™ Fire Barrier Dryer Ventilation Wrap	16" x 25' (40.6cm x 762cm)	0.5" (12.7mm)	006-38060-40469-0	1 roll/case 27 rolls/pallet	13.4 lbs (6.1 kg)
	20" x 25' (50.8cm x 762cm)	0.5" (12.7mm)	006-38060-40495-9	1 roll/case 18 rolls/pallet	16.6 lbs (7.5 kg)
	32" x 25' (81.3cm x 762cm)	0.5" (12.7mm)	006-38060-40496-6	1 roll/case 9 rolls/pallet	25.9 lbs (11.7 kg)

3M's Grease, Chemical Fume and Ventilation Air Duct listings all have affiliated Through-Penetration design listings that comply with ASTM E814.
Go to 3M.com/firestop or speak to your authorized 3M distributor or sales representative at 1-800-328-1687 for more information.

*In accordance with the tolerances in ASTM C892 Standard Specification for High-Temperature Fiber Blanket Thermal Insulation.

To learn more, visit 3M.com/firestop

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