



# FyreWrap®

Single and  
Double Layer  
Applications

Easy to  
Independently Tested  
Installation

Durable  
Construction

Grease Ducts  
and Air Plenums



Member  
International  
FireStop Council



Complies with

**Tested Fire Protection for Grease Ducts, Chemical Fume Ducts,  
Ventilation Air Ducts, and Return Air Plenums**





# FyreWrap®

## The FyreWrap® Family of Products

FyreWrap® is a family of high temperature insulation blankets specifically designed to provide flexible fire protection wrap and is utilized as an alternative to fire resistance-rated shaft enclosure. Applications include kitchen exhaust grease ducts, ventilation ducts, stairwell pressurization ducts, chemical fume exhaust ducts, and refuse and linen chutes. It can be used to cover plastic pipe and cables to limit flame spread and smoke generation in fire rated air plenums.



The flexibility of Unifrax insulation blankets and zero-clearance tested performance make it easy to install and conserve space.



## Unifrax Blankets Independently Tested

In collaboration with Independent Fire Test Laboratories, Unifrax insulation blankets have been tested for a variety of applications. This not only ensures compliance with a greater variety of state and local building codes, but also provides an added level of confidence for both specifier and installer regarding the vital task of fire protection. (See Consolidated Test Results.)



## Strong and Durable

Standard Unifrax FyreWrap insulation blankets are completely encapsulated in a poly-aluminum foil, fiberglass-reinforced scrim covering. This scrim provides added handling strength as well as protection from grease vapor absorption and tearing. Scrim faced and unfaced blankets are acceptable for use on some systems. Contact Unifrax for availability.

## Biosoluble

FyreWrap blankets use Insulfrax® Thermal Insulation as the core material, a high-temperature insulation made from a calcia, magnesia, silica chemistry that is designed to enhance biosolubility.

## Easy-to-Handle

FyreWrap is a lightweight, flexible blanket product form, which is easy to cut, fabricate, and install around ducts, pipes, and cables.

## Document Support

Unifrax provides a comprehensive interactive CD containing individual product information sheets, installation instructions, drawings, design listings, and code reports. To obtain a copy of the CD or for additional information on fire protection products or applications, contact the Unifrax Application Engineering Department at 716-278-3888.



## Proven Effective in Leading Construction Projects

FyreWrap insulation blankets can be found in state-of-the-art facilities nationwide, including the \$127.5 million HSBC Arena in Buffalo, New York and FedEx Arena in Memphis, Tennessee.

## FyreWrap®

### MAX 2.0 Duct Insulation



#### FyreWrap® Max 2.0 Two Layer Grease Duct System:

##### ICBO Region

- ICC ES Report No. ER-5899
- Tested per AC101, ASTM E-119
- 2-hour fire endurance rating
- Zero clearance to combustibles at any location on duct wrap

#### Two Layer Grease Duct System: Canada

- Listing Guide No. 440E9, File No. CR2700
- ULC Grease Duct Insulation
- 2-hour fire endurance rating
- Zero clearance to combustibles at any location on duct wrap
- Complies with NFPA 96

## FyreWrap®

### 1.5 Duct Insulation



#### FyreWrap® EZ 1.5 Single Layer Grease Duct System

- 2-hour fire endurance rating
- Tested per UL 1978, ASTM E-119
- Thinner, lighter insulation: 1.5", 6pcf
- Large Duct Size: 52" x 52"
- Zero clearance to combustibles at all locations on duct wrap
- Installation technique options: Telescoping or checkerboard overlap; butt joint with collar, vertical blanket orientation for vertical duct runs

#### FyreWrap® 1.5 One and Two Layer HVAC Duct Systems

- ULC Fire Resistant Duct (HVAC)
- OPL Ventilation Air Duct (VAD)
- 2-layer = 2-hour rating (ULC Canada)
- 1-layer = 1-hour rating (ULC Canada)
- 1-layer = 1 and 2-hour rating (OPL/USA)
- Zero clearance to combustibles at any location on duct wrap
- ICC ES Report No. NER-609

## FyreWrap®

### 0.5 Plenum Insulation



#### FyreWrap® 0.5 Single Layer Plastic Pipe, Cable Systems

- Meets UL 1887
- Limits flame spread, smoke density
- Individual pipes, cables, bundles
- Variety of plastic pipe and cable sheathing
- PVC, CPVC, PB, PE, PP, PVDF and ABS

## Consolidated Test Results

Test Lab/Fire Test Standard	Listing / Rating	FyreWrap® EZ 1.5	FyreWrap® Max 2.0	FyreWrap® 1.5	FyreWrap® 0.5 Plenum
Omega Point Laboratories (OPL) Listed .....	Applied Fire Protection	•	•	•	•
Underwriters Laboratories Classified .....	Grease Duct Enclosure	•	•	•	•
UL 1978 Internal Grease Duct Test (One Layer System) .....	Zero Clearance to Combustibles	•	•	•	•
UL 1978 Internal Grease Duct Test (Two Layer System) .....	Zero Clearance to Combustibles	•	•	•	•
ASTM E-119 Full Scale Engulfment Test .....	2-Hour Fire Endurance Rating	•	•	•	•
ASTM E-119 Load Bearing Wall Test .....	2-Hour Fire Endurance Rating	•	•	•	•
ASTM E-84 Surface Burning Characteristics (Unfaced) .....	Flame Spread Rating = 0	•	•	•	•
ASTM E-84 Surface Burning Characteristics (Unfaced) .....	Smoke Developed Rating = 0	•	•	•	•
ASTM E-84 Surface Burning Characteristics (Encapsulated) .....	Flame Spread Rating < 25	•	•	•	•
ASTM E-84 Surface Burning Characteristics (Encapsulated) .....	Smoke Developed Rating < 50	•	•	•	•
ASTM E-814 Through Penetration Firestop Test .....	F-Rating = 2 Hours, T-Rating = 2 Hours	•	•	•	•
AC101 Internal Grease Duct Test (Three Layer System) .....	Zero Clearance to Combustibles	•	•	•	•
AC101 Internal Grease Duct Test (Two Layer System) .....	Zero Clearance to Combustibles	•	•	•	•
ISO 6944 Ventilation Duct Test, Type A Duct (Two Layer System) .....	2-Hour Fire Endurance Rating	•	•	•	•
ISO 6944 Ventilation Duct Test, Type A Duct (Single Layer System) .....	1-Hour Fire Endurance Rating	•	•	•	•
ASTM E-136 Non-Combustibility Test .....	Passes	•	•	•	•
ASTM C518 Thermal Transmission Properties .....	Passes	•	•	•	•
ASTM C411 Hot Surface Performance Test .....	Passes	•	•	•	•
UL1887 Plastic Sprinkler Pipe Visible Flame and Smoke Characteristics .....	Max. Flame Spread = 0.01 Feet	•	•	•	•
.....	Max. Smoke (Optical Density) = 0.01 Feet	•	•	•	•
.....	Ave. Smoke (Optical Density) = 0.00 Feet	•	•	•	•
Plastic Pipe and Coated Cable Types .....	PVC, CPVC, PBS, PE, PP, PVDF & ABS	•	•	•	•
Plastic Pipe Sizes .....	1" - 4" Individual Pipes or Pipe Bundles	•	•	•	•
Plastic Coated Cable .....	Telecommunication Cable (Multi-Stranded)	•	•	•	•





## Fire Protection with Unifrax

Unifrax provides a number of passive fire protection product forms designed to work both together and independently of FyreWrap® Insulation Blankets. Below is a list of Certifications for Unifrax passive fire protection product forms. For questions or additional information on fire protection products or applications, contact the Unifrax Application Engineering Department at 716-278-3888.

Category Number	Product	Application	UL File
Applied Fireproofing	FyreWrap®	Grease/HVAC Duct Enclosure Plenum Pipe, Cable Insulation	OPL #16341
Applied Fireproofing	Insulfrax Marine Blanket	USCG Structural Insulation	OPL #16341, USGC Certs MH7030
Refractory Liners (MENQ2)	Durablanket® 970 Paper Lo-Con Felt	Duct/Flue Insulation, Combustion Box Insul.	
Plastics (QMFZ2)	110 Paper 440 Paper Duraboard® LD Moist Pak-D®	Oven, Microwave, Toaster Insulation	E75289
Intumescent Mat (BIBQ2) Batts and Blankets (BKNV)	XFP-A, XFP-S Durablanket® Insulfrax® Blanket	Expansion Joint Fire Barrier Non-Combustible Insul. Flame/Smoke Ratings	R15435 R14514
Forming Materials (XH KU)	FyreWrap® Duct Insulation Duraboard® LD Insulfrax® Blanket Durablanket® Durablanket® SE	Firestop Damming Mat'ls	R9618
Duct Wrap Materials (XHHD) Grease Duct Enclosures (YYET)	FyreWrap® 1.5 Duct Insulation FyreWrap® 1.5 Duct Insulation	Firestopping Component Zero Clearance Grease Duct Wrap - 2 Hr. Rating	R14514 R14514