



# Product Information Sheet

## FyreWrap® Elite® 1.5 Duct Insulation – Grease Duct ASTM E2336 System

### Introduction

Unifrax's FyreWrap® Elite® 1.5 Duct Insulation is a two-layer flexible enclosure for two-hour rated commercial kitchen grease ducts. FyreWrap Elite 1.5 Duct Insulation is tested per ASTM E2336 and is acceptable as an alternate to a traditional fire-rated shaft. Installed as a two-layer system, FyreWrap Elite 1.5 complies with the International Mechanical Code (IMC) and Uniform Mechanical Code (UMC). FyreWrap Elite 1.5 Duct Insulation offers the following product features:

- 2-hour fire-resistance rating
- Alternate to shaft enclosure
- Complies with IMC and UMC
- Tested per ASTM E2336
- Two-layer system; inner layer utilizes butt joint
- High-temperature, biosoluble insulation
- Zero clearance to combustibles, at any location
- GREENGUARD listed for Microbial Resistance



FyreWrap® Elite® 1.5 Duct Insulation

### Product Components

**Core Material:** FyreWrap Elite 1.5 incorporates Insulfrax® Thermal Insulation as its core material. Insulfrax is a high-temperature insulation made from a calcia, magnesia, silica chemistry designed to enhance biosolubility. It provides excellent insulation in a noncombustible blanket product form.

**Encapsulating Material:** The core insulation blanket is completely encapsulated in an aluminum foil fiberglass reinforced scrim covering. This scrim provides additional handling strength as well as protection from grease, moisture absorption and tearing.

### Typical Product Properties

ICC Evaluation Services .....	Evaluation Report ESR-2224
Intertek Laboratories (OPL) Listed, File 14870 .....	Duct System: Design No. UNI/BI 120-02, UNI/WA 120-01
ASTM E2336 .....	Passes all tests
ASTM E2336 Internal Grease Duct Test .....	Zero Clearance to Combustibles at all locations on wrap
ASTM E119 Full Scale Engulfment Test.....	2-hour Fire Resistance Rating
ASTM E119 Vertical Wall Test .....	2-hour Fire Resistance Rating
ASTM E84, UL 723, ULC S102.2 – UL File No. R14514	<u>Unfaced Blanket</u> <u>Encapsulated</u>
Flame Spread/Smoke Developed Rating.....	Zero/Zero                      <25/<50
ASTM E814 Firestop Test .....	Firestop System: UNI/FRD 120-19, UNI/BI 120-02
F-Rating = 2 Hrs., T-Rating = 2 Hrs.	
ASTM E136 Non-Combustibility Test .....	Passes
ASTM C518 Durability Test .....	Passes; R-Value = 4.8 per inch at 75°F
ASTM C518 Thermal Resistance .....	R-Value of Elite 1.5 (1½") = 7.2
ASTM D6329-03 Microbial Resistance .....	Resistant to Mold Growth
California State Fire Marshal Listing .....	No: 2440-1478:100

Complies with: NFPA 96 (all editions), 1997 ICBO Uniform Mechanical Code (UMC), 1997 ICBO Uniform Building Code (UBC), 2000, 2003, 2006, 2009, and 2012 International Mechanical Code (IMC), 2000, 2003, 2006, 2009, and 2012 IAPMO UMC (Uniform Mechanical Code).



Complies with:



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