

Product Information Sheet



FyreWrap® 0.5 Plenum Insulation

INTRODUCTION

Alkegen's FyreWrap® 0.5 Plenum Insulation is a high-temperature insulation blanket specifically designed to provide a single layer, flexible enclosure around combustible items located within fire-rated return air plenums. New construction, building renovations or modifications to the electrical and mechanical systems may result in the installation of plastic pipe or plastic-coated cables that cannot meet the minimum combustibility requirements defined in the Mechanical Code. FyreWrap 0.5 Plenum Insulation provides fire protection for these installed items by preventing flame propagation and smoke development in the plenum area.

FyreWrap 0.5 Plenum Insulation offers the following product features:

- Lightweight, flexible product form
- Easy to cut, fabricate, wrap around pipes or cables
- Thin, single layer design
- High-temperature, biosoluble insulation
- Durable foil-scrim tested covering
- GREENGUARD listed for Microbial Resistance

TYPICAL PRODUCT PARAMETERS

Thickness	1/2"
Nominal Density	8pcf
Standard Product Form	Scrim Encapsulated
Product Availability	24"w x 25LF 48"w x 25LF

TYPICAL SYSTEM PROPERTIES

Intertek Laboratories (OPL) Listed
UL 1887

Plastic Pipe and Cable Sheathing

Plastic Pipe Size (minimum)

Plastic Coated Cable Groupings

ASTM E136 Non-combustibility

ASTM E84, UL 723, ULC S102.2

Flame Spread Rating:

Smoke Developed Rating:



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PRODUCT COMPONENTS

Core Material: FyreWrap 0.5 Plenum Insulation 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 moisture absorption and tearing.

Complies with: IMC2018

Applied Fire Protection, File 16341-3

Passes; Intertek Design Nos. UNI/BI 20-03, UNI/BI 20-04
PVC, CPVC, PB, PE, PP, PVDF and ABS

1" or larger individual pipes or pipe bundles

3 or more multi-stranded telecommunication wires

Passes

UL File No. R14514

Unfaced Blanket

Encapsulated

Zero

<25

Zero

<50



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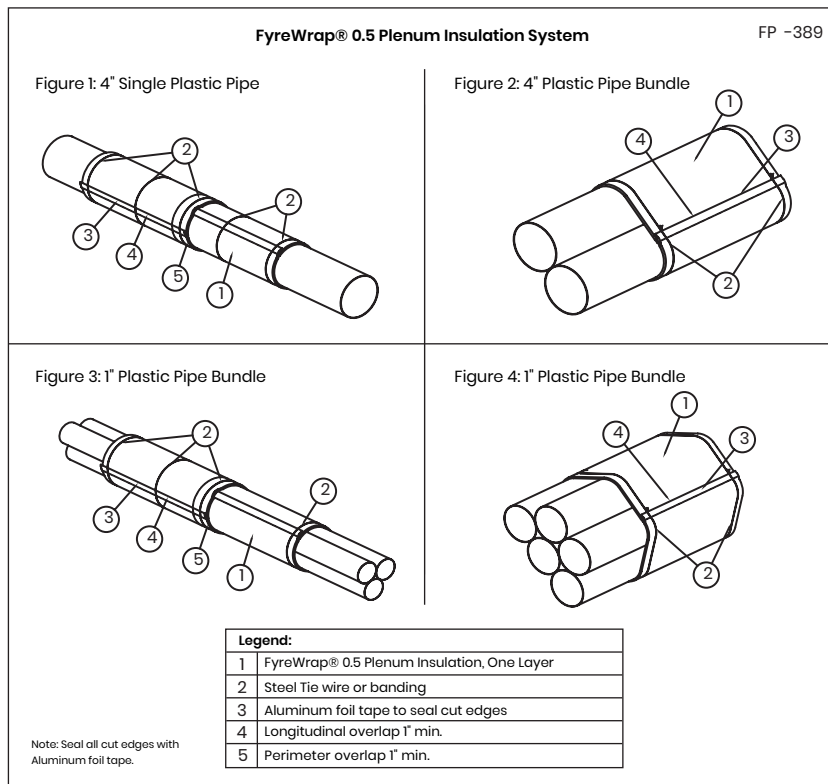
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INSTALLATION (Figure 1)

The FyreWrap 0.5 Plenum Insulation System¹ is a single layer application, which is to be applied directly on to the surface of the combustible item. To minimize waste, FyreWrap 0.5 Plenum should be rolled out tautly before measuring and making any material cuts. Install the single layer of material with a 1" overlap at all transverse and longitudinal joints². All visually exposed blanket edges are to be sealed with aluminum foil tape and the use of filament tape is not required but is permitted to ease installation.

1. Alkegen's FyreWrap DPS product complies with the same testing as FyreWrap 0.5 Plenum and can be installed as an alternate to achieve the appropriate rating for a combustible item.
2. The FyreWrap 0.5 Plenum Insulation may be installed either linearly or with multiple adjacent pieces along the length of combustible item.

Figure 1. Installation Detail



ATTACHMENT METHOD (Figure 1)

Either min. 24 ga. steel tie wire or 1/2" steel banding is to be utilized as the permanent attachment method. Place the chosen attachment method within a 1/2" of all transverse terminations and add additional tie wire/bands as needed to ensure the spacing is max. 11 1/2" on center. Twist tension the tie wire or tighten banding to firmly hold the wrap system in place, but not so tight as to cut or damage the blanket. Hand tightening of wire is adequate. The banding is to be secured with 1/2" crimp clips.

For additional information about product performance or for assistance identifying the recommended product for your fire protection application, please contact Alkegen at 716-768-6500 and ask for Fire Protection Application Engineering.

Refer to the product Safety Data Sheet (SDS) No. M0406 for recommended work practices and other product safety information.

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The test data shown are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes. Product Information Sheets are periodically updated by Alkegen. Before relying on any data or other information in this Product Information Sheet, you should confirm that it is still current and has not been superseded. A Product Information Sheet that has been superseded may contain incorrect, obsolete and/or irrelevant data and other information.

Alkegen

Headquarters

5215 N. O'Connor Blvd, Suite 2300
Irving, TX 75039

Telephone: 716-768-6500

Website: www.alkegen.com

Email: info@alkegen.com

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