

# PYROSCAT<sup>®</sup> CSM Plenum Blanket

Premier Solutions to Passive Fire Protection



**PYROSCAT<sup>®</sup> CSM PLENUM BLANKET** is a flexible, lightweight UL Classified and ULC Listed fire barrier product designed to meet the NFPA 90A Standard for Installation of Air Conditioning and Ventilating Systems. The new standard specific to plenums (ceiling cavity and raised floor) requires that "all materials exposed to the airflow shall be noncombustible or limited combustible" and permits the use of Pyroscat CSM Plenum Blanket to enclose combustible services...effectively shielding them from the plenum air stream.

## Testing and Listings

- Underwriters Laboratories
- Underwriters Laboratories Canada
- ASTM E-84 "Test for Surface Burning"
  - 0 flame spread index
  - 0 smoke developed index
- UL 723 "Surface Burning Characteristics"
  - 0 flame spread index
  - 0 smoke developed index
- ULC S102 "Surface Burning Characteristics"
  - 0 flame spread index
  - 0 smoke developed index
- ASTM E-136 "Non-Combustibility Test"
  - passed - rated as Non-Combustible

## NFPA 90A: Installation of Air Conditioning and Ventilating Systems

Air ducts have the potential to spread smoke, hot gases, and flames to areas far beyond the initial fire location. They can also supply air to aid combustion in the fire area. But with *NFPA 90A*, you can make HVAC systems part of the solution!

This important standard prescribes the minimum requirements for fire protection of air duct systems to restrict the spread of smoke and fire. Adherence to *NFPA 90A*'s requirements is critical to...



- Maintain the fire-resistive integrity of building components and elements
- Minimize ignition sources and combustibility of system elements

Protect people and property! Install and maintain indoor environmental systems the smart way with *NFPA 90A* (20pp., 1996)

PYROSCAT CSM Plenum Blanket is manufactured from an Alkaline Earth Silicate (AES) fiber using the proprietary Erwin Spinning Process to form a super strong, flexible, lightweight, and inert needled blanket that is inherently fire resistant. PYROSCAT CSM Plenum Blanket is available in two grades - F1 (foiled one side) and F2E (fully encapsulated). PYROSCAT CSM Plenum Blanket is manufactured in an ISO 9002 certified facility to close tolerances per UL<sup>®</sup> Follow-Up Service Procedures to ensure the highest quality finished products for fire critical applications.

When compared to other flexible wrap products, PYROSCAT CSM Plenum Blanket has the added advantage of having the foil/scrim bonded directly to the fire resistant blanket. This gives installers a more rugged, easier to handle, and faster to install system. All grades of PYROSCAT CSM Plenum Blanket are totally Non-Combustible - with 0 Flame Spread and 0 Smoke Developed! Comes in 24 or 48" wide flexible blankets of 1/2" thickness.

Pyroscat CSM Plenum Blanket is applied such that a 1" minimum overlap is achieved in both the perimeter and longitudinal directions. Steel tie wire or banding is used to secure the blanket in place on maximum 11 1/2" centers. Aluminum foil tape is then applied to seal exposed edges.

Pyroscat systems are listed in the CSI MasterFormat under Division 7 Thermal and Moisture Protection - FireStopping Section 07840 and can be found in Architects' First Source, and CSI design publications ManuSpec and SpecData. Convenient submittal documents in digital formats for Pyroscat passive fire protection systems can be easily downloaded from the Architects' First Source website at URL [www.afsonl.com](http://www.afsonl.com) or from your Pyroscat representatives.

Besides Pyroscat CSM Plenum Blanket, Vesuvius offers Pyroscat Duct Wrap, Pyroscat FastR Wrap and other Pyroscat Blanket products for a host of passive fire protection applications.



Vesuvius USA Corporation  
661 Willet Road  
Buffalo, NY 14218  
U.S.A.  
Tel.: + 1 716 825 7900  
Fax: + 1 716 825 0866  
Web site: [www.vesuvius.com](http://www.vesuvius.com)

Vesuvius Foundry and Industrial Division  
101 Jonesborough Hwy.  
Erwin, TN 37650  
U.S.A.  
Tel.: + 1 423 743 4125  
Fax: + 1 423 743 5511  
Web site: [www.pyroscat.com](http://www.pyroscat.com)

**This document  
supersedes all  
previous revisions.**

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