

# PRODUCT DATA SHEET

July 2011

## FlameSafe® Firestop Pillows

Classified Through-Penetration Fire Stop System Numbers  
C-AJ-0102, C-AJ-3185, C-AJ-4053, C-AJ-8170, C-AJ-8171, W-J-1207, W-J-3038, W-J-3078, W-J-4025,  
W-L-1428, W-L-3007, W-L-3118 and W-L-4030



### 1. Product Description

Intumescent Firestop Pillows are designed for use primarily in large openings with cables, cable trays, blank openings or multiple penetrating items. In the event of a fire, FlameSafe® Firestop Pillows will prevent the spread of flames and hot gases through the openings. Since no cure time is required, FlameSafe® Firestop Pillows are ready to install. FlameSafe® Firestop Pillows are reusable since they can be removed and reinstalled if necessary. Use FlameSafe® Firestop Pillows for various applications:

- Blank Openings
- Cable Tray Openings
- Multiple Penetration Openings
- Telecommunication Wires
- Computer Lines
- Retrofit/Re-enter Openings
- Temporary Installations
- Large Openings

For a complete list of product applications or for additional technical information call RECTORSEAL for the latest updated information.

### Features

- Easy to install - No tools required
- Cost effective
- Versatile
- Highly intumescent
- Two sizes
- Forms a firm char when burned
- No Wire Mesh Required in Certain Installations

### 2. Material Properties

Asbestos Fillers                      None  
Solvents                                  None  
Hazardous Ingredients              None

Sizes:                                    2" x 9" x 6"  
    3" x 9" x 6"

Color:                                    Red

### 3. Applications

FlameSafe® Firestop Pillows are generally used for larger openings. These openings may contain cables, cable trays, pipes, conduits or nothing at all. They are also excellent for temporary openings.

### 4. Installation Data

Estimate the number of bags required, by performing the following calculation.

- Calculate the size in square inches of the opening to be firestopped.
- Calculate the area in square inches required by the penetrating items.
- Subtract (B) from (A) and divide by the coverage shown in chart 1. The results of this calculation is the estimated number of bags required. RectorSeal® Firestop Pillows have been tested to give a choice of two methods:

- If wire mesh will be used, the pillows must be installed by being compressed a minimum of 20%.
- If wire mesh will not be used, the pillows must be compressed a minimum of 30%.

Example: (using 3"x9"x6" pillows without wire mesh)  
12" x 24" opening = 288 sq. in.  
3" x 18" cable tray = 54 sq. in.\*  
Subtract 54 sq. in. from 288 sq. in. to get the area to be firestopped:  
    opening = 288 sq. in.  
    less cable tray = 54 sq. in.  
To be Firestopped = 234 sq. in.  
Divide by 18.90 = 12.38 or 13 pillows.

**NOTE:** Always start with the largest pillow (3"x9"x6") to cover the maximum space. Use the smaller size to fill in where required.

Chart 1

Pillow Size	Square inch coverage at	Square inch Coverage at
	30% compression	20% compression
3"x9"x6"	18.90	21.60
2"x9"x6"	12.60	14.40

**NOTE:** Calculations are based on pillows being installed with 6" dimension going through the wall or floor.

Install the pillows taking care to compress each to form a tight seal within the penetration.

**NOTE:** In order to achieve a more economical system, FlameSafe® Mortar can be used to reduce large openings into smaller ones and pillows can then be used for the remaining area.

**NOTE:** All calculations are approximate. User must verify.

\* This assumes a 100% visual fill of the tray. Actual fill would be limited by Local or National Codes.

## 5. Testing Data

FlameSafe® Firestop Pillows are classified by Underwriters Laboratories as a Fill, Void or Cavity Material. For specific test criteria see UL Fire Resistance Directory or call RectorSeal. FlameSafe® Firestop Pillows were tested to a positive pressure at a minimum .01 inches of water in accordance with UL 1479 and ASTM E 814 test standards.

## 6. Storage & Handling

FlameSafe® Firestop Pillows should be stored between 0°F and 150°F. For easier installation, bring pillows to room temperature before installing. Keep products stored under protective cover, in their original containers. A stock rotation program is recommended, 2 year shelf life.

## 7. Availability

FlameSafe® Firestop Pillows are packaged 10 per case.

## 8. Limitations

To be used only in the tested configurations or as recommended by RectorSeal.

## 9. Cautions

**PRECAUTIONS:** Do not take internally.

May be harmful if swallowed.

**KEEP OUT OF REACH OF CHILDREN.**

**For additional technical service,  
call: 713-263-8001 or 1-800-231-3345  
fax: 713-263-7577 or 1-800-452-2824**

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## 10. LIMITED WARRANTY

RectorSeal makes the Limited Express Warranty that when the instructions for storage and handling of our products are followed we warrant our products to be free from defects. THIS LIMITED EXPRESS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND OF ANY OTHER OBLIGATION ON THE PART OF RECTORSEAL. The sole remedy for breach of the Limited Express Warranty shall be the refund of the purchase price. All other liability is negated and disclaimed, and RectorSeal shall not be liable for incidental or consequential damages.

Suggestions and recommendations covering the use of our products are based on our past experience and laboratory findings. However, as we have no control as to the methods and conditions of application, we only assume responsibility for the uniformity of our products within manufacturing tolerances.