



# **FIRE** Retardants Inc.™

*The Decision You Make May Save A Life!*

123 Columbia Court North • Suite 201 • Chaska, MN 55318

952-448-7377 • FAX: 952-448-2613

Fire Retardant "HOT LINE" 1-800-913-9385

e-mail: [info@fireretardantsinc.com](mailto:info@fireretardantsinc.com)

Visit Our Web Site at [www.fireretardantsinc.com](http://www.fireretardantsinc.com)

## 3M

# Fire Barrier Spray for use with Thermafiber® Firespan® Mineral Wool and Safing Insulation



## Working together for maximum fire protection

### Specify, install or inspect "The System."

3M and Thermafiber® have joined together to bring you fire-containment systems for curtain walls in multi-level commercial buildings. Other companies can claim to sell a system that includes 3M or Thermafiber products, but only 3M and Thermafiber can approve systems that incorporate Thermafiber® Firespan® Mineral Wool, Thermafiber® Safing Insulation and 3M Fire Barrier Spray.

### What is "The System?"

The 3M/Thermafiber system incorporates Thermafiber Firespan mineral wool in the curtain wall, Thermafiber safing insulation in the perimeter void and 3M Fire Barrier Spray over the safing insulation. But the system is more than just mineral wool and topcoat in the curtain wall and perimeter void. The fire-endurance-rated system, composed of the curtain wall, the perimeter void and the floor slab, evaluates the fire-test-response of these three components, all working together as one system, to contain fire and smoke to the floor of origin.

### Safety first!

Don't risk the spread of fire and deadly gases by specifying, installing or inspecting systems that are not fully tested. Feel safe by backing your project with two of the biggest names in fire protection. The 3M/Thermafiber system has been thoroughly tested and approved by certified independent test laboratories.

# “The System”—3M™ Fire Barrier Spray and Thermafiber® Firespan® Mineral Wool and Safing Insulation

## Applications

3M Fire Barrier Spray is a flexible, sprayable, water-based coating that dries in ambient conditions to form a flexible seal. It's ideal for sealing perimeter voids between a fire-rated concrete floor and a non-rated curtain wall. It helps control the transmission of fire, heat, smoke, noxious gas and water before and during exposure to fire.

## Specifications

Numerous factors need to be considered to determine the best solution for firestopping perimeter voids. ASTM is currently developing a new fire test standard called Standard Test Method for Determining the Fire-Endurance of Perimeter Fire Barrier Systems Using the Intermediate-Scale Multi-Story Test Apparatus. This rigorous test evaluates the ability of materials and systems to accommodate movement and maintain the integrity of the fire-containment system. Using 3M Fire Barrier Spray with Thermafiber Firespan® Mineral Wool and Safing Insulation meets these requirements.

As detailed in the proposed test standard, the twelve systems listed here have been cycled to meet the winds way and thermal category (500 cycles at a minimum 10 cycles/minute). In addition, they were fire tested and evaluated under the pass/fail criteria conditions of ASTM's proposed test standard at maximum extended joint width. The systems also comply with the requirements of BOCA, ICBO, SBCCI and NFPA Code #101.

## Performance

Curtain Wall Systems With 3M™ Fire Barrier Spray and Thermafiber® Firespan® and Safing Insulation				
Design Number	Ratings	Size/ Movement	Curtain Wall Description	Floor Assembly
CEJ130P	T: 1/4 hr. F: 2 hrs. L: <1 scfm	8" (203.2mm) nominal 16.75% movement 10 cycles/min. 500 cycles	Tilt-up concrete panels, concrete interior	Min. 4" (101.6mm) thick concrete
CEJ131P	T: 1/4 hr. F: 2 hrs. L: <2 scfm	8" (203.2mm) nominal 16.75% movement 10 cycles/min. 500 cycles	Steel spandrel panels, gypsum interior, steel stud framing	Min. 4" (101.6mm) thick concrete
CEJ132P	T: 1/4 hr. F: 2 hrs. L: <1 scfm	8" (203.2mm) nominal 16.75% movement 10 cycles/min. 500 cycles	Steel spandrel panels, foil-faced interior, steel stud framing	Min. 4" (101.6mm) thick concrete
CEJ133P	T: 1/4 hr. F: 2 hrs. L: <1 scfm	8" (203.2mm) nominal 16.75% movement 10 cycles/min. 500 cycles	Glass spandrel panels, foil-faced interior, steel stud framing	Min. 4" (101.6mm) thick concrete
CEJ134P	T: 1/4 hr. F: 2 hrs. L: <1 scfm	8" (203.2mm) nominal 16.75% movement 10 cycles/min. 500 cycles	Concrete spandrel panels, concrete interior, steel stud framing	Min. 4" (101.6mm) thick concrete
CEJ135P	T: 1/4 hr. F: 2 hrs. L: <2 scfm	8" (203.2mm) nominal 16.75% movement 10 cycles/min. 500 cycles	Aluminum spandrel panels, foil-faced interior, steel stud framing	Min. 4" (101.6mm) thick concrete
CEJ136P	T: 1/4 hr. F: 2 hrs. L: <2 scfm	8" (203.2mm) nominal 16.75% movement 10 cycles/min. 500 cycles	Glass spandrel panels, gypsum interior, steel stud framing	Min. 4" (101.6mm) thick concrete
CEJ137P	T: 1/4 hr. F: 2 hrs. L: <1 scfm	8" (203.2mm) nominal 16.75% movement 10 cycles/min. 500 cycles	Aluminum spandrel panels, foil-faced interior, steel stud framing	Min. 4" (101.6mm) thick concrete
CEJ138P	T: 1/4 hr. F: 2 hrs. L: <1 scfm	8" (203.2mm) nominal 16.75% movement 10 cycles/min. 500 cycles	Glass spandrel panels, foil-faced interior, steel stud framing	Min. 4" (101.6mm) thick concrete
CEJ139P	T: 1/4 hr. F: 2 hrs. L: <1 scfm	8" (203.2mm) nominal 16.75% movement 10 cycles/min. 500 cycles	Aluminum spandrel panels, foil-faced interior, aluminum framing	Min. 4" (101.6mm) thick concrete
CEJ140P	T: 1/4 hr. F: 2 hrs. L: <1 scfm	8" (203.2mm) nominal 16.75% movement 10 cycles/min. 500 cycles	Steel spandrel panels, foil-faced interior, aluminum framing	Min. 4" (101.6mm) thick concrete
CEJ141P	T: 1/4 hr. F: 2 hrs. L: <1 scfm	8" (203.2mm) nominal 16.75% movement 10 cycles/min. 500 cycles	Steel spandrel panels, foil-faced interior, aluminum framing	Min. 4" (101.6mm) thick concrete

**Warranty and Limited Remedy.** This product will be free from defects in material and manufacture for a period of ninety (90) days from date of purchase. 3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's application. If the 3M product is defective within the warranty period stated above, your exclusive remedy and 3M's sole obligation, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product.

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3M Specified Construction Products



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3M Innovation

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