

## IBC Section 403 - High-Rise Buildings Height / Bond Strength Requirements

To satisfy the International Building Code's (IBC) Section 403 "High-Rise Buildings" and its increased bond strength requirements for Spray-Applied Fire Resistive Materials (SFRMs), Isolatek offers a choice of cost-effective, code compliant solutions.

**Figure 1** illustrates a typical high-rise structure and the Isolatek International products available for each height/bond strength category.

The selection of SFRMs by architectural firms and/or their clients/owners to satisfy IBC Section 403 varies regionally and is usually based on several considerations.

Medium density SFRMs are available for those who prefer SFRMs capable of meeting minimum bond strength requirements in addition to providing increased density, impact and abrasion resistance, and compressive strength.

For those seeking the most cost-effective SFRMs capable of satisfying the minimum bond strengths only, commercial density high-bond SFRMs are preferred.

**Isolatek International continues to develop products that are the most thermally efficient, easy to apply, and possess the most robust performance characteristics in the industry.**

Over 420 feet\*; (1,000 psf)

CAFCO<sup>®</sup> 3000 / ISOLATEK<sup>®</sup> Type 3000  
CAFCO 400 AC / ISOLATEK Type 400 AC  
CAFCO 400 / ISOLATEK Type 400

75 - 420 feet\*; (430 psf)

BLAZE-SHIELD<sup>®</sup> II HS / Type II HS  
BLAZE-SHIELD<sup>®</sup> HP / Type HP  
CAFCO<sup>®</sup> 300 HS / ISOLATEK Type 300 HS  
CAFCO 400 AC / ISOLATEK Type 400 AC  
CAFCO 400 / ISOLATEK Type 400

0 - 75 feet; (150 psf)

BLAZE-SHIELD<sup>®</sup> II / Type II  
CAFCO<sup>®</sup> 300 AC / ISOLATEK Type 300 AC  
CAFCO<sup>®</sup> 300 / ISOLATEK Type 300

\* Above the lowest level of the fire department vehicle access



Figure 1

### Bond Strength Provisions:

- For building heights from ground up to 75', a minimum bond strength of 150 psf is required throughout the building.
- For building heights of 75' to 420', a minimum bond strength of 430 psf is required throughout the building.
- For building heights greater than 420', minimum bond strength of 1,000 psf required throughout the building.

## WHY CHOOSE ISOLATEK INTERNATIONAL?

### **Industry Experience**

Isolatek International has over 135 years experience in manufacturing thermal and fire protection materials. We understand the needs of our customers and offer product solutions specifically designed to address their most demanding requirements.

### **Product Development, Performance, and Commitment to Quality**

As the global leader in advancing passive fireproofing technology, we are continuously developing new products that provide superior thermal performance, unequalled durability and ease of installation. Our products are rigorously tested and certified by global authorities throughout the world. We go above and beyond the required industry testing to ensure each of our products exhibits superior thermal performance and exceptional physical properties as set forth in our quality assurance program. Hundreds of millions of bags and pails of Isolatek International products have been installed across the globe over the last half century, with each generation of product better than the previous. Our strict standards for product installation are also enforced on a routine basis with our skilled specialty contractors.

### **Global Support**

Our uncompromising commitment to our customers is also evident in our strategically located multiple manufacturing and distribution facilities throughout the world. Customers have quick access to Isolatek International's full range of products where and when they need them with quick turnarounds and reduced logistical expenses. Our extensive network of experienced technical sales and field support staff is readily available to assist in the most complex of projects.

ISOLATEK INTERNATIONAL Technical and Sales Representatives are always available to lend assistance.  
For the name of the Sales Representative in your area, please contact us.

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ISOLATEK INTERNATIONAL provides passive fireproofing materials under the CAFCO® and FENDOLITE® trademarks throughout the Americas and under the ISOLATEK® trademark throughout the world.



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**ISOLATEK**  
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