



Spray-Applied Fire Resistive Material **BLAZE-SHIELD® HP**

PRODUCT

CAFECO® BLAZE-SHIELD® HP is a portland cement based, medium density Spray-Applied Fire Resistive Material (SFRM) designed to provide protection for the structural steel frame in commercial high-rise construction. BLAZE-SHIELD HP's durable surface and cement based formula enable it to withstand indirect weather exposure conditions and limited physical abuse, thus allowing for application in parking garages, mechanical rooms and elevator shafts. BLAZE-SHIELD HP has been tested and is classified as "investigated for exterior use" by Underwriters Laboratories, Inc. With a simple one-step application process, BLAZE-SHIELD HP is able to provide complete passive fire protection for most construction conditions at reduced costs and in less time.

FIRE TEST PERFORMANCE

CAFECO BLAZE-SHIELD HP has been tested for fire endurance by Underwriters Laboratories, Inc. (UL) and Underwriters Laboratories of Canada (ULC) in accordance with ASTM E119 (UL 263, CAN/ULC-S101).

These tests have resulted in ratings of up to 4 hours for:

- Floor Assemblies
- Beams
- Joists
- Columns
- Roof Assemblies
- Walls and Partitions

BLAZE-SHIELD HP has also been tested in accordance with ASTM E84 (UL 723, CAN/ULC-S102) and has the following Surface Burning Characteristics:

- Flame Spread0
- Smoke Developed0

MAJOR SPECIFICATIONS

BLAZE-SHIELD HP complies with the requirements of the following specifications:

- General Services Administration (GSA): AIA/SC/GSA: 07811
- Department of the Navy NAVFACENCOM Guide Specification NFGS 07810, Sprayed-On Fireproofing
- Veterans Administration (VA): H-08-1
- U.S. ARMY Corps of Engineers. CEGS-07811
- U.S. Environmental Protection Agency (EPA): Regulation 40
- Construction Specification Canada (CSC) TEK-AID

Table of Physical Properties

Characteristic	ASTM Method	Standard Performance*	Tested Performance**
Cohesion/Adhesion	E736	434 psf (20.8 kPa)	1,421 psf (68 kPa)
Deflection	E759	No Cracks or Delaminations	No Cracks or Delaminations
Bond Impact	E760	No Cracks or Delaminations	No Cracks or Delaminations
Compressive Strength	E761	7,344 psf (351 kPa)	7,980 psf (382 kPa)
Air Erosion Resistance	E859	Less Than 0.025 g/ft ² (0.27 g/m ²)	0.000 g/ft ² (0.000 g/m ²)
Density	E605	22 pcf (352 kg/m ³)	26.2 pcf (420 kg/m ³)
Combustibility	E136 (CAN4-S114)	Noncombustible	Noncombustible
Corrosion Resistance	E937	Does Not Promote Corrosion of Steel	Does Not Promote Corrosion of Steel

* Standard Performance based on General Services Administration: AIA/SC/GSA: 07811 except for density which is based on UL. Refer to UL design for density requirement.

**Values represent independent laboratory tests under controlled conditions.

CODE COMPLIANCES

CAFCO BLAZE-SHIELD HP satisfies the requirements of the following:

- IBC - International Building Code
- SBCCI - Southern Building Code Congress International

- ICBO - International Conference of Building Officials
- BOCA - Building Officials and Code Administrators International, Inc.
- New York City - MEA
- NBC - National Building Code of Canada Sections 2.5, 3.1.5 and 3.1.7

UL*/ULC Fire Resistance Ratings

System or Component	Rating (HR)	UL	ULC	Design Details
Floor Assemblies – Protected Deck	1, 1½, 2, 3	D832	D832	
	1, 1½, 2, 3, 4	D858	F801, F819	
	1, 1½, 2, 3	D859		
	1, 1½, 2, 3, 4	D860		
	1, 1½, 2, 3	G801	F816	
Floor Assemblies – Unprotected Deck	1, 1½, 2, 3	D902	F904	
Beam or Joist Only – Floors	1, 1½, 2, 3	N815	N802	
	1, 1½, 2, 3, 4	N816	0804	
	1, 1½, 2, 3, 4	N823		
	1, 1½, 2, 3	N826		
	1, 1½, 2	N830		
Roof Assemblies – Protected Deck	1, 1½, 2	P801	R805	
	1, 1½, 2	P819		
	1, 1½, 2	P825		
	1, 1½, 2, 3	P826		
Roof Assemblies – Unprotected Deck	1, 1½, 2	P908		
	1, 1½, 2	P922		
Beam or Joist Only – Roofs	1, 1½, 2, 3	S801		
	1, 1½, 2	S802**		
	1, 1½, 2, 3, 4	S805**		
	1, 1½, 2	S806		
Wide Flange Columns Pipe and Tube Steel Columns	1, 1½, 2, 3, 4	X829	Z808	
	1, 1½, 2, 3, 4	X827	Z802	
	1, 1½, 2		Z803	
Nonbearing walls	1, 1½, 2, 3, 4	U804	W801	

Note: In all cases, consult the actual design listing for beam sizes, deck profiles, electrification details, roof insulation types, and other construction details.

*UL is accredited by the Standard Council of Canada (SCC) as a Certification and Testing Organization to Canadian Standards and codes.

**Requires material on underside of deck.

For Further Information

CAFCO® Technical and Sales Representatives are always available to lend assistance. Additional printed materials, including Material Safety Data Sheets, and other product literature, are available upon request. For more information about our CAFCO® line of sprayed fire protection, thermal and acoustical treatments, SprayFilm™ Intumescent Coatings and CAFCO-BOARD™ or for the name of the Sales Representative in your area, please contact:

In the United States: Isolatak International, Stanhope, New Jersey Tel: 800.631.9600 Fax: 973.347.9170

In Mexico & Central America: Cafco Mexico S.A. de C.V., Mexico D.F. Tel: 52.55.5254.6683 Fax: 52.55.5531.7826

In Andean Countries: Cafco Andina S.A., Santiago, Chile Tel: 562.754.1394 Fax: 562.754.1393

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