CavityComplete®
Steel Stud Wall System

Product Data Sheet

FireSpan® 40 and 90
Curtain Wall Insulation

Description

Thermafiber® FireSpan® products are designed to provide life saving fire protection in curtain wall and perimeter fire containment systems. These products are noncombustible, moisture-resistant, noncorrosive, nondeteriorating, mildew-proof and vermin-proof. Its natural dark color provides shadowing in glass spandrels. FireSpan® 40 and 90 provide thermal insulation, fire protection, acoustical and vapor control in many different fire containment assemblies of 1, 2, and 3-hr ratings.

- Exceptional performance in Perimeter Fire Containment Systems
- Provides life saving fire protection in rated assemblies
- Fire resistant to temperatures above 2,000°F (1,093°C)
- Conserves energy, reduces greenhouse gas emissions
- High recycled content
- Mold resistant
- Controls noise and sound
- Natural dark color provides shadowing in glass spandrels

LEED® v2009 Green Building Credits

Minimum 70% Recycled Content	Energy and Atmosphere	Materials and Resources	Indoor Environmental Quality	Innovation in Design
	1	2.1, 2.2 3.1, 3.2 4.1, 4.2 5.1, 5.2	9	1

Product Options

- FireSpan® 40, 2" or greater thickness, is available with a vapor retarding foil facing.
- FireSpan® 90, 1" or greater thickness, is available with a vapor retarding foil facing.
- Recycled Content Options:

  Standard Fiber (Compiles with EPA Preference Program).....Minimum 75%

Installation

FireSpan® products should be installed in accordance with the installation instructions and installation drawings provided at www.CavityComplete.com. See architectural CAD detail CC-SS-12.

Thermafiber insulation provides the critical components of the perimeter fire containment system in the Trump International Hotel and Tower in Chicago.

Firespan is designed for use with Thermafiber's patented, labor saving, Impasse® Curtain Wall Insulation System.

CavityComplete®
Steel Stud Wall System

Product Data Sheet

Standard Sizes

	Thickness*	Widths**	Lengths**
FireSpan 40	2" - 7"	24", 36", 72"	48", 60", 72"
FireSpan 90	1" - 7"	24", 36", 72"	48", 60", 72"
Tolerances	+1/4", - 1/8"	± 1/8"	+ 3/4" , - 1/4"

*Thicknesses are available in 1/2" increments.
**Consult sales representative for custom size options.

Technical Data

		Tested to ASTM C 518		Tested to ASTM E 84			
				Unfaced		Foil Faced	
Product Designation	Nominal Density	"k" @ 75° [24°C] BTU.in/hr.sq. ft. °F	"R" value per inch of thickness***	Flame Spread	Smoke Developed	Flame Spread	Smoke Developed
FireSpan 40	4.0 pcf	0.24	'R' = 4.2	0	0	25	0
FireSpan 90	8.0 pcf	0.24	'R' = 4.2	0	0	25	0

***R = thickness divided by 'k'

Fire-Containment Tests Per ASTM E 2307

FireSpan® insulation is the insulation for perimeter fire containment. Thermafiber has performed decades of testing in all of the following containment systems:

- Aluminum Spandrel Curtain Wall Fire Containment
- Steel Stud-Framed/Gypsum Sheathing Curtain Wall Fire Containment
- Glass Spandrel Curtain Wall Fire Containment
- Granite Spandrel Curtain Wall Fire Containment
- Precast Concrete Spandrel

For more complete test information, see SA707, Thermafiber Life-Safety Fire Containment Systems technical catalog or UL and Intertek (formerly OPL) Directories. For a full listing of containment systems visit www.thermafiber.com and click on Fire Rated Assemblies.

Standards Compliance

FireSpan® 40 and 90 meet the following:

ASTM C 665	Type I, III (Class A, Category 1)
ASTM C 612	FireSpan 40 Type IA, IB, II, III, IVA
ASTM C 612	FireSpan 90 Type IA, IB, II, III, IVA
ASTM E 136	Rated Non-combustible per NFPA Standard 220
ASTM E 96	Unfaced, 50 Perms as tested
ASTM E 96	Foil Faced, 0.02 Perms as tested
ASTM C 1104	Sorption less than 1% by volume
ASTM C 356	Linear Shrinkage <2% @ 1200° F (650° C)
ICC ES Report	ER-2331

Curtain wall products are approved by: New York City Board of Standards & Appeals – (under BSA 214-73-SM & accepted by MEA 209-82, Vol. II). Also, MEA-189-93-M and MEA-190-93-M.

Thermafiber® Insolutions®

Thermafiber® offers industry leading technical and engineering assistance to architects, specifiers, and contractors. These services include CAD drawings, engineering judgments, LEED® Credit Information, and product recommendations.

For Further Information

For additional information about Thermafiber's FireSpan® 90 and FireSpan® 40 Insulation products contact us at 844-CAV-COMP or visit www.CavityComplete.com.

Notice

Thermafiber, Inc. shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Thermafiber liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing within thirty (30) days from date it was or reasonably should have been discovered.

The CavityComplete® Wall System excludes the masonry veneer, steel studs and interior and exterior gypsum board. A detailed list of the components is available at www.CavityComplete.com.

CavityComplete.com | 844-CAV-COMP

CavityComplete® is a registered trademark of Owens Corning.
Pub. No. 10019111-C. Printed in U.S.A. October 2016. © 2016 Owens Corning. All Rights Reserved.
© 2016 Thermafiber, Inc. All Rights Reserved. Trademarks are the properties of their respective owners.