

Specification Compliance		Super Firetemp L and M
ASTM	E 72	Passes E 84 0 Smoke, 0 Flame E 119 1, 2, 3 and 4 Hour Ratings E 136 Passes E 814 1, 2 and 3 Hour Ratings C 656 Type II, Grade 5 and 6 C 795 Passes
Underwriters Laboratories		263 1, 2, 3 and 4 Hour Ratings 1479 1, 2 and 3 Hour Ratings 1709 1, 2, 3 and 4 Hour Ratings
UBC		2309 2 in. [51 mm] min. thickness of Super Firetemp M
Mine Safety and Health Administration		Approved
National Fire Protection Association		96 Super Firetemp L Meets the requirements when installed according to Manufacturers Installation Instructions
National Electrical Code		Protection for Electrical Circuits
International Standards Organization		
UL Design Numbers		U328, U446, U447 Wall System X307, XR301 Structural Steel
ULC Design Numbers		W420, W421, W422 Wall System Z200, Z202 Structural Steel FRD-11 Grease Ducts
Omega Point Laboratories Design Numbers		GD 515R (Super Firetemp L only)

Code Compliance

Super Firetemp undergoes stringent tests to comply with some of the toughest fire codes in the U.S. and Canada.



A Major Advance in Structural Fireproofing

- Electrical Cable Trays
- Electrical Conduit
- Interior Walls
- Structural Steel Columns



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The physical and chemical properties of the Super Firetemp® presented herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the Customer Service Office to assure current information. **All Industrial Insulation Group products are sold subject to the IIG Limited Warranty and Limitation of Remedy. For a copy of the IIG Limited Warranty and Limitation of Remedy, email - info@iig-llc.com.**

Fireproofing Systems

Super Firetemp® Withstands 2000°F

Description

Super Firetemp is a noncombustible, asbestos-free fireproofing board used in assemblies requiring one to four hour fire ratings, and is capable of withstanding temperatures in excess of 2000°F (1093°C).

Applications

Recommended for use on columns, beams, vessels, skirts, saddles, tanks, walls, air and exhaust ducts, cable trays, conduit, chimneys, refractory backups, and other applications that require fire ratings or high-temperature insulations.

Features

- Uniformly thick with fire rating consistent over every square inch of covered surface.
- Contains no asbestos.
- Zero clearance to combustibles

Composition

Composed of hydrous calcium silicate, the product features a high temperature crystal structure with low water of hydration, resulting in exceptional strength and stability under fire conditions in excess of 2000°F (1093°C). White in color, Super Firetemp is available in 4' x 8' (1.22 m x 2.44 m) panels of various densities and finish-sanded up to 3" (76 mm) thick.

Advantages

Assured Fire Resistance. Specified fire ratings are achieved by testing in accordance to ASTM, UL, and ULC test standards. Fire-rated assemblies are UL and OPL listed. The desired fire rating determines product thickness.

Durable. Super Firetemp is hard, solid, and an abrasive-resistant material with excellent physical properties. The material will neither chip nor flake.

Clean. Super Firetemp is nailed or screwed in place, not blown on. No protective curtains are required.

Easy to Install. Super Firetemp is easily handled and requires no special tools. The product cuts with a circular saw or a saber saw and is field installed using a power screwdriver and drywall screws or hammer and nails with an automatic nailer.

Attractive. The product's sanded surface readily accepts paints, wall coverings and veneers.

All-Weather. Contact IIG for proper weather protection for outdoor use.

Economical. Super Firetemp simplifies on-site labor and can greatly reduce overall job costs. Product preparation and application are easy; no special tools are required, and clean up is minimal.

Accessories

Super Calstik® is a high-temperature adhesive designed to bond porous insulating materials. Super Calstik is used to finish all Super Firetemp joints and seams.

Physical Properties

Property	Super Firetemp L	Super Firetemp M
Board Size, ± 1/8" (± 3 mm)	4' x 8' (1.22 m x 2.44 m)	4' x 8' (1.22 m x 2.44 m)
Thickness, in. (mm)	3/4, 1, 1 1/2, 2, 2 1/2, 3** (19, 25, 38, 51, 64, 76)	1/2, 3/4, 1, 1 1/2, 2, 2 1/2, 3** (13, 19, 25, 38, 51, 64, 76)
Density, pcf (kg/m³)	18 (288)	28 (449)
Compressive Strength @ 10% Deformation, psi (kPa)	450 (3,103)	900 (6,206)
Flexural Strength, psi (kPa)	260 (1,793)	550 (3,792)
Screw-Holding Strength, lb. (kg)	36 (16)	70 (32)
Dielectric Strength, volts/in. (volts/mm)		30,000-60,000 (1,181-2,362)
Linear Shrinkage, % 24-Hour Heat Soak @ Maximum Temperature	<2	<2
Maximum Continuous Service Temperature, °F (°C)	1,800 (982)	1,800 (982)
R-Value per in. (mm), @ 75°F (24°C) Mean Temperature	1.8 (0.32)	1.7 (0.30)

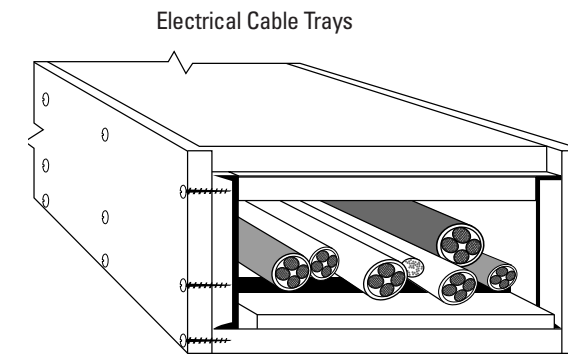
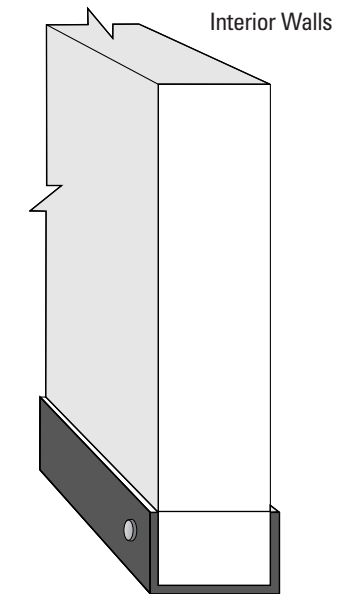
Thermal Conductivity ("K")

Mean Temperature		"K"		"K"	
°F	°C	Btu•in/ (hr•ft²•°F)	W/m•°K	Btu•in/ (hr•ft²•°F)	W/m•°K
200	93	.54	0.078	.61	0.088
400	204	.61	0.088	.66	0.095
600	316	.67	0.097	.73	0.105
800	427	.73	0.105	.80	0.115

* Typical average values derived in accordance with accepted test methods subject to normal manufacturing and experimental tolerances.
** Other thicknesses available on request.

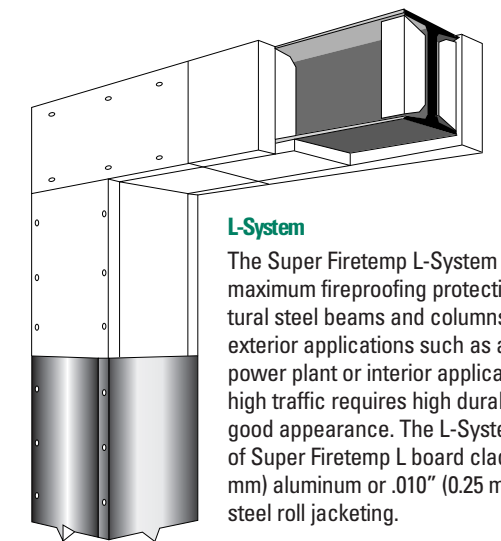
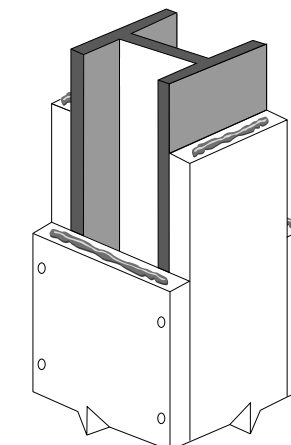
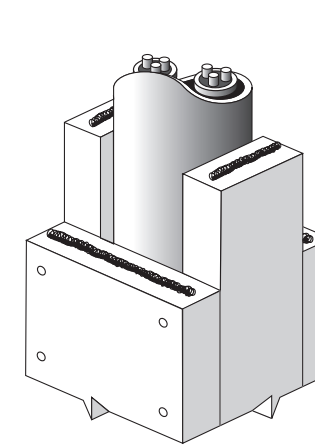
Fireproofing Applications

Super Firetemp® allows zero clearance to combustibles. Depicted are some of its more common applications. Contact IIG for complete application data for your specific requirements.



Electrical Conduit

Structural Steel Columns



L-System

The Super Firetemp L-System provides maximum fireproofing protection for structural steel beams and columns. Ideal for exterior applications such as a refinery or power plant or interior applications where high traffic requires high durability and good appearance. The L-System consists of Super Firetemp L board clad in .016" (0.4 mm) aluminum or .010" (0.25 mm) stainless steel roll jacketing.