

Pyro-Bloc Ceramic Fiber Modules

PYRO-BLOC® Y™ AND Y2™ MODULES

- Monolithic, edge-grained ceramic fiber module
- Available in uncompressed densities from 8 - 15 pcf
- One-shot center-fired stud
- Extremely fast, efficient installation
- High density fiber resists mechanical abuse

The modules are manufactured from a high purity blend of raw materials which are used to produce R Grade (alumina-silica), ZR Grade (alumina-zirconia-silica), and C Grade (alumina-silica-chromia) ceramic fibers. The modules utilize a specially designed 316 stainless steel internal support system and industry standard Pyro-Bloc stud system. In addition, it has no hot face, cold face, or side constrictions which permit maximum module-to-module compression during installation. The modules use the proven center-fire, one-step weld system which eliminates the need for pre-layed out stud patterns.

Pyro-Bloc® Y™ Modules

R Grade, ZR Grade, C Grade

The Pyro-Bloc Y Module is an edge-grained ceramic fiber block used for lining industrial furnaces. The Y Module comes complete with internal support system and stud already in place.

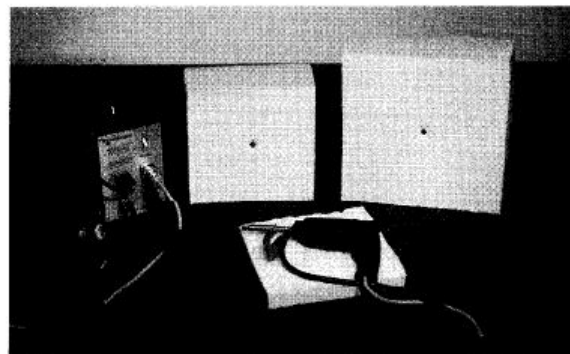
- 12" x 12" modules
- 12" x 24" dual modules
- 6" x 12" split long fiber modules
- 12" x 6" split short fiber modules
- Module thickness from 3" to 12" in 1" increments

Pyro-Bloc® Y2™ Modules

R Grade, ZR Grade

The Pyro-Bloc Y2 (Y-squared 16" x 16") Module is a larger format edge-grained ceramic fiber block used for lining industrial furnaces. The 16" square size offers up to 78% more installed square feet per module than 12" x 12" modules. In addition, the 16" square size is much easier to handle when compared to 24" x 24" modules.

- 16" x 16" modules (1.78 sf per module)
- Module thickness from 3" to 12" in 1" increments



Typical Applications

- Annealing furnaces
- Heat treating furnaces
- Process heaters
- Reformers
- Ethylene furnaces
- Forge furnaces
- Steam flood units
- Homogenizing furnaces
- Incinerators

Installation

Modules are installed by the instant action of our industry standard Pyro-Bloc stud and stud gun. In one easy step the module is positioned against the furnace shell, securely welded*, and tightened into place in less than three seconds. This unique process self checks and quality tests each and every weld for absolute integrity. The Pyro-Bloc modules installation procedure eliminates the need for a time consuming stud layout and prewelding of anchors or brackets. Modules are easy to cut and fit in the field for special shape requirements.

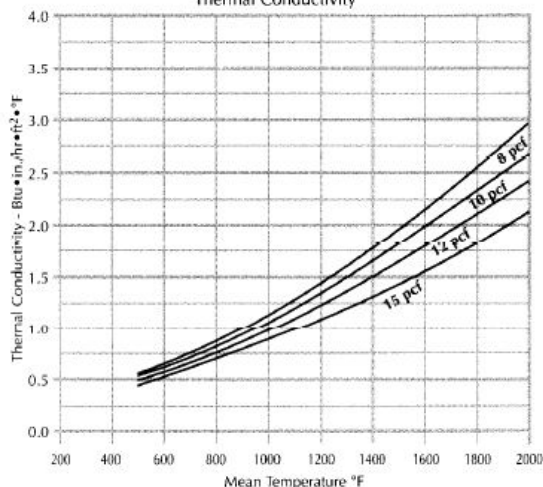
* Independent test results on the strength of the Pyro-Bloc stud are available upon request.

* What's New *

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Thermal Properties

Pyro-Bloc® Y™ and Y™ Modules
Thermal Conductivity



Thermal Conductivity, Btu·in./hr·ft²·°F (ASTM C 201)

Mean temperature	8pcf	10pcf	12pcf	15pcf
@ 500°F	0.53	0.52	0.50	0.49
@ 1000°F	1.13	1.04	0.96	0.84
@ 1500°F	1.97	1.81	1.66	1.43
@ 2000°F	2.95	2.69	2.45	2.19

	R	ZR	C
Physical Properties			
Color	white	white	blue/green
Density, pcf	8, 10, 12, 15	10, 12, 15	10, 12, 15
Thickness, in. (standard)	3 - 12	3 - 12	3 - 12
Maximum temp. rating, °F	2400	2600	2600
Melting point, °F	3200	3200	3200
Continuous use limit, up to °F	2200	2450	2500
Chemical Analysis (Nominal, %)			
Alumina, Al ₂ O ₃	47	37.5	43
Silica, SiO ₂	53	4	54
Zirconia, ZrO ₂	-	15.5	-
Chromia, Cr ₂ O ₃	-	-	3
Loss on ignition, L.O.I.	trace	trace	trace
Other	trace	trace	trace

[Download Detailed Product Data Sheet: Pyro-Bloc Modules](#)

Other Related Website Links:

- Ceramic Fiber Blanket
- Ceramic Fiber Board
- Ceramic Fiber Bulk
- Ceramic Fiber Paper

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