



Features

- Monolithic, edge-grained ceramic fiber module
- Extremely fast, efficient installation
- One-shot center-fired stud

Applications

- Annealing furnaces
- Heat treating furnaces
- Crude heaters
- Incinerators
- Process heaters

Pyro-Bloc E Modules are an edge-grained ceramic fiber block used for lining industrial furnaces. The E Module was designed especially for furnaces operating up to 1800°F. The E Module is manufactured from R Grade Pyro-Log fiber and comes in a 12" x 16" (305 mm x 406 mm) block from 3" to 6" (76 mm x 152 mm) thick. The 304SS internal support system features the patented one-shot Y Module attachment system. All these features make the E Module an economical alternative to ceramic fiber wall paper systems in lining lower temperature industrial furnaces. The E Module comes complete with internal support system and stud already in place.

- 12" x 16" (305 mm x 406 mm) (1.33 sf per module [0.124 m²])
- Module thickness from 3" to 6" (76 mm x 152 mm) in 1" (25.4 mm) increments

Pyro-Bloc E² modules are a large format edge-grained ceramic fiber block used for lining industrial furnaces. The E² Module is manufactured from R Grade Pyro-Log™ fiber and comes in a 16" x 16" (406 mm x 406 mm) block from 3" to 6" (76 mm x 152 mm) thick. You can install up to 78% more area per module than standard 12" x 12" (305 mm x 305 mm) modules. In addition, the 16" (406 mm) square size is much easier to handle when compared to 24" x 24" (610 mm x 610 mm) modules which helps speed up installation. 304SS internal support anchoring features the industry standard one-shot Y Module attachment system.

All these features make the E² Module our most cost-effective alternative to ceramic fiber wallpaper systems in lower-temperature (less than 1800°F [982°C]) industrial furnaces. The E² Module comes complete with internal support system and stud already in place.

- 16" x 16" (406 mm x 406 mm) (1.78 sf per module [0.165 m²])
- Module thickness from 3" to 6" (76 mm x 152 mm) thickness in 1" (25.4 mm) increments

Pyro-Bloc E and E² Modules

Product Information

Physical Properties

Color	white
Density, pcf (kg/m^3)	8 (128)
Thickness, in. (mm) (standard)	3 - 6 (76 - 152)
Maximum temp. rating, °F (°C)	2400 (1316)
Melting point, °F (°C)	3200 (1760)
Continuous use limit, up to °F (°C)	1800 (982)

Chemical Analysis

Alumina, Al ₂ O ₃	47
Silica, SiO ₂	53
Loss on ignition, L.O.I.	trace
Other	trace

Thermal Conductivity, Btu•in./hr•ft²•°F ($w/m•k$)(ASTM C 201)

Mean temperature	
@ 500°F (260°C)	0.53 (0.08)
@ 1000°F (538°C)	1.13 (0.16)
@ 1500°F (815°C)	1.97 (0.28)
@ 1800°F (982°C)	2.55 (0.36)

Installation

Pyro-Bloc 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 module installation procedure eliminates the need for a time consuming stud layout and prewelding of anchors or brackets. They 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.*

The values given herein are 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. Therefore, the data contained herein should not be used for specification purposes. Check with your Thermal Ceramics office to obtain current information.

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