



FIBERLITE® Burner Blocks and FIBERLITE® Peephole Blocks

FIBERLITE® blocks are very light weight, easy to install, compatible with surrounding refractory, energy efficient, cost effective with fast delivery. FIBERLITE® Burner Blocks are designed to be used in flat flame, radiant wall fired furnaces. FIBERLITE® Peephole Blocks are used in various types of fired furnaces to provide visual access for inspection of the furnace interior.

Features

- Excellent choice for new equipment, revamps and maintenance needs
- Cost-effective and faster replacements compared to castable or vacuum formed blocks
- One piece construction
- Self supported design

Easy to Install and Replace

- Readily available, fast delivery
- Designed with Z-BLOK™II hardware system and mounting options
- Safer to handle in the field than more dense/heavier refractories
- Installs quickly and reduces downtime
- No thermal dryout required

Compatible with Surrounding Refractory

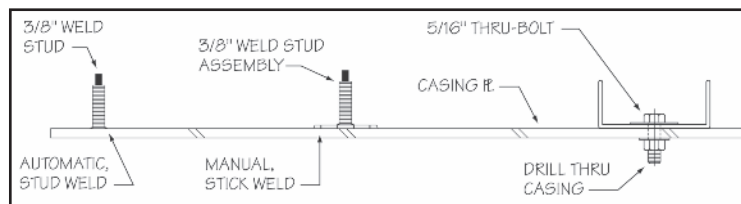
- Custom designed sizes (up to 24" x 24") and thickness.
- Easy integration with adjacent refractory systems
- Shop cut viewing angle and burner opening for consistency

Energy Efficient

- Low heat loss and heat storage relative to hard refractories
- Multiple densities and temperature ratings available

Low Maintenance

- Impervious to thermal shock
- Field applied rigidizer on hot face maintains desired shape and improves erosion resistance



Shell Attachment Options

Physical Properties	2300	2600
Color	white	white
Typical Density, pcf (kg/m ³)	8, 9.3, 10.7, 12 (128, 149, 171, 192)	8, 9.3, 10.7, 12 (128, 149, 171, 192)
Thickness, in. (mm) (standard)	3.5 (88.9) min.	3.5 (88.9) min.
Maximum temp rating, °F (°C)	2300 (1260)	2600 (1427)
Continuous use limit, up to, °F (°C)	2150 (1177)	2450 (1343)

Chemical Analysis	2300	2600
<i>(% weight basis, after firing)</i>		
Alumina, Al ₂ O ₃	42 - 48	28 - 32
Silica, SiO ₂	52 - 58	52 - 56
Zirconia, ZrO ₂	-	14 - 18
Chromia, Cr ₂ O ₃	-	-
Other	trace	trace

Thermal Conductivity	8.0 pcf	9.3 pcf	10.7 pcf	12.0 pcf
<i>BTU·in./hr·ft²·°F (w/m·k) (ASTM C 177)</i>	(128 kg/m ³)	(149 kg/m ³)	(171 kg/m ³)	(192 kg/m ³)
Mean Temperature				
@ 500°F (260°C)	0.46 (0.07)	0.47 (0.07)	0.42 (0.06)	0.42 (0.06)
@ 1000°F (538°C)	1.07 (0.15)	1.02 (0.15)	0.97 (0.14)	0.93 (0.13)
@ 1500°F (816°C)	2.06 (0.29)	1.88 (0.27)	1.76 (0.25)	1.64 (0.23)
@ 2000°F (1093°C)	3.38 (0.48)	3.04 (0.43)	2.78 (0.40)	2.53 (0.36)

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 Thorpe office to obtain current information. FIBERLITE® is a registered trademark of Thorpe Specialty Services.



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