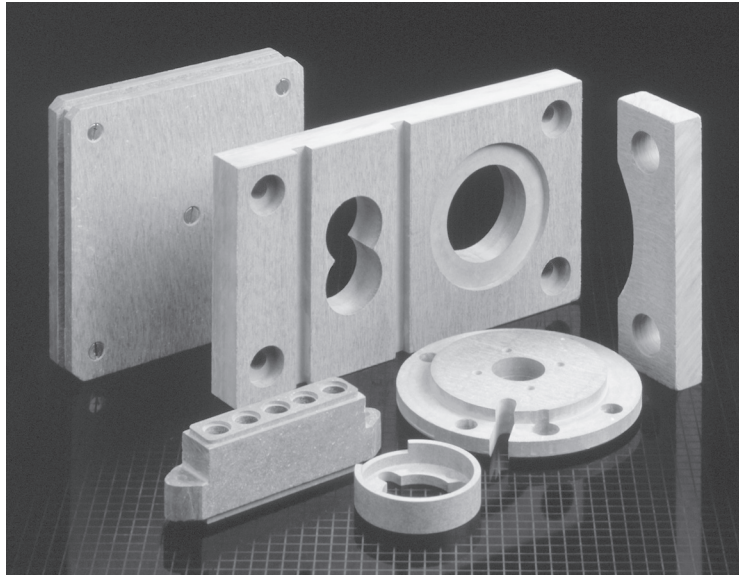




**Monolithic, Non-Asbestos  
Fiber Cement Boards**

- 1000°F Maximum Operating Temperature
- Electrical Insulation
- Corrosion Resistance
- High Density Durability
- Economical



**T**ransite 1000 is engineered to handle higher temperatures, loads and electrical conditions with less shrinkage and degradation compared to previous non-asbestos formulas.

Transite 1000 is a high-density, non-asbestos board used in a wide variety of applications where a combination of high strength, thermal stability, electrical insulation or machinability is required.

Transite 1000 is hydraulically pressed into monolithic boards from refractory cement and selected non-asbestos reinforcement and silica. The board is steam-cured, oven dried, and sanded to a standard 24 grit finish.

**Advantages**

**Thermal Strength.** Transite 1000 is non-combustible and can withstand maximum operation temperatures from 600°F to 1000°F. It also has a low thermal conductivity.

**High Strength.** Our filter bed press creates a board with isotropic properties — equal strengths in all directions for dimensional stability. Since Transite 1000 is monolithic, it will not delaminate. Transite 1000 is very durable and offers high impact and wear resistance. It will not powder or chip.

**Corrosion and Chemical Resistance.** Transite 1000 is non-conductive and it will not rot or mold when exposed to prolonged dampness. It has good resistance without coatings to alkalis and solvents.

**Machinability.** Transite 1000 is oven dried and monolithic, so it machines into exceptionally fine and intricate parts.

**Finish/Appearance/Maintenance.**

The board is neutral gray in color, and may lighten uniformly with time.

Transite 1000 requires practically no maintenance. The hard, smooth surface does not normally need painting or preservative treatment, but either can be applied if a different aesthetic appearance is desired. Follow the coating manufacturers suggestions.



## Transite® 1000

### Monolithic, Non-Asbestos Fiber Cement Boards

#### Typical Applications

Here is just a partial listing of the variety of uses Transite 1000 can fulfill:

**High Strength.** Load-bearing gaskets, spacers and supports; press plates; machine guards; laboratory benchtops and fume hood linings.

**Electrical.** Busbar supports; transformer spacers; terminal boxes and strips; electrical coil supports; arc shields; collars and bushings; aluminum pot insulation; steel arm insulators; and component mounting plates.

**Thermal.** Foundry core plates; induction and muffle furnace walls; industrial and baking oven shelving; soldering plates; splash guards; and welding shields.

#### Installation Details

Transite 1000 can be applied directly to framing members with screws, bolts or mechanical fasteners. The board is recommended for interior applications only. For other special wall applications, contact BNZ about the potential use of Marinite or Fiber Cement Panels.

All bolts or fasteners must be placed in predrilled oversized holes no closer than 1/2" from any edge. Oversized holes must be 1/16" or larger diameter for 1/4" bolts and 1/8" or larger diameter for 1/2" or larger fasteners. Bolt heads and nuts must have an adequate washer bearing surface. Applications where vibration or motion exists must utilize rubber or neoprene gasketed washers.

**Note:** These details are offered as suggestions for the installation of Transite 1000. BNZ makes no attempt to practice architecture or engineering. The final decision and responsibility for approval of installation details lies with the architect or engineer of record.

#### Storage

Transite 1000 should be stored horizontally in a dry, flat area.

#### Further Information

Technical questions, special considerations, distributor/fabricator locations, and other information can be obtained by calling BNZ Corporate Headquarters at 303-978-1199.

#### Warranty

BNZ Materials warrants that its products are manufactured in accordance with its applicable material specifications and are free from defects in workmanship and materials using BNZ's specifications as a standard. Every claim under this warranty shall be deemed waived unless in writing and received by BNZ within thirty (30) days of the date the defect was discovered and within one (1) year of the date of the shipment of the product.

BNZ MAKES NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, IN FACT OR IN LAW, INCLUDING WITHOUT LIMITATION, THE WARRANTY OF MERCHANTABILITY OR THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, OTHER THAN THE LIMITED WARRANTY SET FORTH ABOVE.

#### Typical Data

##### Properties

**Composition:** Monolithic non-asbestos fiber cement

**Production Process:** Filter bed  
Thickness: inches 1/2, 3/4, 1, 1 1/2, 2, 3  
mm 12.7, 19.1, 25.4, 38.1, 50.8, 76.2

Width: inches 48 5/8  
mm 1235

Length: inches 96 5/8  
mm 2454

**Density, pcf (kg/m<sup>3</sup>)** 98 (1,570)

**Maximum Operating Temperature, °F (°C)** 1000 (538)

**Shrinkage, %** 600°F 1000°F  
Length, width: .14 .44  
Thickness: .41 1.33

**Compressive Strength, psi (kg/cm<sup>2</sup>)** 13,350 (939)

**Modulus of Rupture, dry,\* psi (kg/cm<sup>2</sup>)** 3,000 (211)

**Modulus of Rupture/(Density)<sup>2</sup>** .32

**Moisture Content, (normal),\* % of dry weight** 7

**Water Absorption, %** 21

**Thermal Conductivity, Btu-in/ft<sup>2</sup>, hr, °F @ 250°F (W/m<sup>2</sup>K @ 121°C)** 2.40 (0.34)

**Fire Hazard, (ASTM E 84)**  
Flame spread: 0  
Smoke developed: 0

**Volume Resistivity, ohm-cm, (ASTM D 257)** 1.25 x 10<sup>13</sup>

**Surface Resistivity, ohm-cm, (ASTM D 257)** 1.59 x 10<sup>16</sup>

**Arc Resistance, seconds, (ASTM D 495)** 272

**Dielectric Strength, volts/mil, (ASTM D 495)** 56

**Note:** The physical and chemical properties of BNZ's Transite 1000 represent 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.



## BNZ Materials, Inc.

### Transite® 1000 Plant Location

#### Billerica

400 Iron Horse Industrial Park  
North Billerica, MA 01862  
Phone: 978-663-3401  
800-888-0061  
Fax: 978-663-2735  
info@bnzmaterials.com

### Insulating Fire Brick Plant Locations

#### Zelienople

191 Front Street  
Zelienople, PA 16063  
Phone: 724-452-8650  
800-955-8650  
Fax: 724-452-1346  
whparker@bnzmaterials.com

#### Plémet, France

BNZ s.a.  
Les Landelles  
22210 Plémet  
France  
Phone: +33-2-96 25 61 01  
Fax: +33-2-96 25 64 18  
bnz.plemet@wanadoo.fr

### Corporate Headquarters

#### Denver

6901 South Pierce Street  
Suite 260  
Littleton, CO 80128  
Phone: 303-978-1199  
800-999-0890  
Fax: 303-978-0308  
www.bnzmaterials.com

BNZ Materials manufactures and is a worldwide supplier of a range of specialty industrial insulations. Our calcium silicate insulation has been manufactured continuously at Billerica, Massachusetts for more than 60 years.

In addition to our calcium silicate product line, BNZ also manufactures Insulating Fire Brick and refractory specialties at the world's most advanced IFB plant located in Zelienople, PA. More than sixteen types of IFB are available for use in applications from 2000°F to 3200°F to meet the specific needs of a variety of industries.

Contact BNZ for more information on these products and their applications.



#### Limitation of Liability

It is expressly understood and agreed that the limit of BNZ's liability shall be the resupply of a like quantity of non-defective product and that BNZ shall have no such liability except where the damage or claim results solely from breach of BNZ's warranty.

IT IS ALSO AGREED THAT BNZ SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, OR OTHER DAMAGES FOR ANY ALLEGED NEGLIGENCE, BREACH OF WARRANTY, STRICT LIABILITY, OR ANY OTHER THEORY, OTHER THAN THE LIMITED LIABILITY SET FORTH ABOVE.