

Introduction

At the core of our SoliBoard product family is our long standing range of standard Refractory Ceramic Fiber based boards. The range includes three standard formulations, with classification temperatures ranging from 1260°C up to 1430°C, providing versatile solutions for a wide range of industrial applications. Trusted by the industry for their consistently delivered performance in demanding thermal environments.

Our continuous production process and advanced drying techniques enable us to produce uniform, lightweight, low shot, and stable boards with up to 100 mm thickness. These boards maintain high consistency, quality, and performance.

SoliBoard™ X

SoliBoard X is one of our most sold board products and for a good reason. It is a durable and versatile refractory board designed for continuous use up to 1150°C. Made from 1260°C-rated SoliBulk X-grade fibers and a balanced blend of inorganic and organic binders, it delivers excellent strength, machinability, and reliable thermal performance across a wide range of lining applications.

SoliBoard™ HA

Often overlooked, SoliBoard HA consistently exceeds expectations in demanding applications. Made with our 1350°C-rated SoliBulk HA-grade fibers, it offers a classification temperature of 1400°C and continuous use up to 1250°C. As a high-alumina alternative to ZR fiber based boards, SoliBoard HA delivers superior thermal stability and strength where standard boards fall short.

SoliBoard™ ZR

SoliBoard ZR is our highest-rated RCF board, manufactured using SoliWool ZR Bulk, classified for temperatures up to 1430°C. Designed for demanding high temperature environments, it delivers excellent thermal stability and reliability in continuous operating conditions up to 1300°C.

Vulcor is offering one of the most extensive product ranges in high temperature board products. It is composed of 12 specially tailored boards based on Refractory Ceramic Fiber (RCF), Low Bio Persistence (LBP) fiber and Polycrystalline Wool (PCW).

Whether your application requires performance at 800°C or at 1600°C, we have the solution.

Type

Boards from high temperature Refractory Ceramic Fiber (RCF) insulation wool and selected fillers.

Temperature range

SoliBoard™ X has a classification temperature of 1260°C.

SoliBoard™ HA has a classification temperature of 1400°C.

SoliBoard™ ZR has a classification temperature of 1430°C.

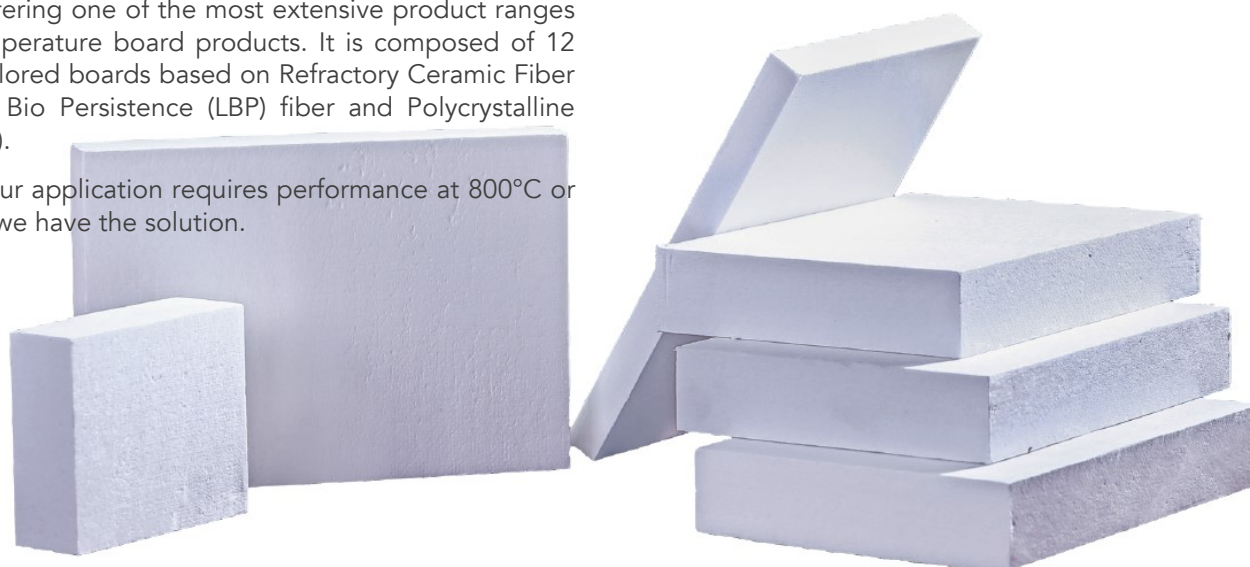
The maximum continuous use temperature provided on the datasheet is guideline and only applicable in a clean oxidizing atmosphere.

Typical applications

- Thermal insulation for furnace linings
- High temperature back-up insulation for ladles and torpedo cars
- Tundish and launder covers in the casting of various alloys
- Insulation in tunnel kiln and holding furnaces for the ceramic industry
- Lining combustion chamber for gas fired boilers and heaters
- General technical insulation of furnaces and technical installations

Benefits

- Excellent insulation performance
- High handling strength
- Resistant to erosion from high gas velocities
- Can be used in direct flame contact
- Low shrinkage
- Excellent thermal stability



| Properties measured | Standard | Unit | SoliBoard™ X-grade | SoliBoard™ HA-grade | SoliBoard™ ZR-grade |
|---|-------------|-------|-----------------------|------------------------|------------------------|
| Grade | | | RCF | RCF | RCF |
| Colour | | | white/tan | white/tan | white/tan |
| Surface | | | smooth | smooth | smooth |
| Classification temperature | | °C | 1260 | 1400 | 1430 |
| Continuous use temperature | | °C | 1100 | 1250 | 1300 |
| Density | | kg/m3 | 320 | 320 | 320 |
| Modules of Rupture (unfired) | EN 993-6 | kPa | ≥ 550 | ≥ 550 | ≥ 550 |
| Compressive Strength (unfired) @ 10% deformation | EN ISO-8895 | kPa | ≥ 180 | ≥ 180 | ≥ 180 |
| Loss on ignition | | wgt% | < 8 | < 8 | < 8 |
| Permanent linear shrinkage | EN 1094-7 | % | | | |
| @1200°C | | | ≤ 3 | | |
| @1300°C | | | | ≤ 2 | |
| @1400°C | | | | | ≤ 3 |
| Thermal conductivity | ASTM C201 | W/mK | | | |
| @ 200°C | | | 0,06 | 0,06 | 0,06 |
| @ 400°C | | | 0,09 | 0,09 | 0,09 |
| @ 600°C | | | 0,12 | 0,12 | 0,12 |
| @ 800°C | | | 0,16 | 0,16 | 0,16 |
| @ 1000°C | | | 0,20 | 0,20 | 0,20 |
| @ 1100°C | | | 0,22 | 0,22 | 0,23 |
| @ 1200°C | | | | 0,25 | 0,26 |

Contact

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Availability

SoliBoard is available in two standard formats; 1000×600 mm and 1200×1000 mm with thicknesses ranging from 6 mm all the way up to 100 mm. We offer two packaging options: durable carton boxes for manual on-site installation, and industrial packaging for automated, high-volume CNC based processing. Please find the quantities per pallet for either option:

| Standard Packaging Boards per Pallet | | | | |
|--------------------------------------|----------------------------|-------------|--------------|-----------------------------------|
| Thickness | Standard Carton Box Packed | | | Industrial Packed 1200x1000 mm |
| | per box | 1000x600 mm | 1200x1000 mm | |
| 6 mm | 20 pcs | 560 | 280 | 300 |
| 10 mm | 12 pcs | 336 | 168 | 204 |
| 13 mm | 10 pcs | 280 | 140 | 156 |
| 15 mm | 8 pcs | 224 | 112 | 136 |
| 20 mm | 6 pcs | 168 | 90 | 102 |
| 25 mm | 5 pcs | 140 | 70 | 81 |
| 40 mm | 3 pcs | 90 | 45 | 51 |
| 50 mm | 2 pcs | 72 | 36 | 40 |
| 60 mm | 1 pcs | 48 | 24 | 34 |
| 75 mm | 1 pcs | 44 | 22 | 27 |
| 100 mm | 1 pcs | 36 | 18 | 20 |

Product range

SoliBoard is part of an extensive product range supplied by Vulcor Insulation. Vulcor Insulation is supplying insulation solutions from ambient to high temperature applications. All products offered by Vulcor are manufactured in house or sourced from exclusive trusted 3rd party partners.

First firing

SoliBoard formulations contain a small amount of organic binder to improve cold handling strength. During the initial firing, this binder burns off, which may produce temporary fumes and odor that dissipate shortly after.

Technical support

Vulcor Insulation provides specifiers and customers with guidance on all aspects of the materials selection for their application, the installation and compliance with relevant regulations and performance standards.

For additional information about product performance or to identify the recommended product for your application, please contact the team at Vulcor Insulation.