

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 2300°F up to 2600°F, 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 4 inch 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 2100°F. Made from 2300°F-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 2500°F-rated SoliBulk HA-grade fibers, it offers a classification temperature of 2550°F and continuous use up to 2300°F. 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 2600°F. Designed for demanding high temperature environments, it delivers excellent thermal stability and reliability in continuous operating conditions up to 2400°F.

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 1500°F or at 3000°F, 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 2300°F.

SoliBoard™ HA has a classification temperature of 2550°F.

SoliBoard™ ZR has a classification temperature of 2600°F.

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		°F	2300	2550	2600
Continuous use temperature		°F	2100	2300	2400
Density		PCF	17.5	20	18.75
Modules of Rupture (unfired)	EN 993-6	PSI	≥ 80	≥ 80	≥ 80
Compressive Strength (unfired) @ 10% deformation	EN ISO-8895	PSI	≥ 26	≥ 26	≥ 26
Loss on ignition		wgt%	< 8	< 8	< 8
Permanent linear shrinkage @ 2200°F @ 2400°F @ 2600°F	EN 1094-7	%	≤ 3	≤ 2	≤ 3
Thermal conductivity @ 500°F @ 1000°F @ 1500°F @ 1800°F @ 2000°F @ 2200°F	ASTM C201	BTU-in/hr-ft²·°F	0.45 0.72 1.09 1.33 1.52	0.45 0.72 1.09 1.33 1.56	0.45 0.72 1.09 1.33 1.56
				1.73	1.80

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This information is composed for marketing purposes and is accurate to the best knowledge of Vulcor Insulation BV. All values give are typical values, not guaranteed unless explicitly expressed.

As Vulcor Insulation BV and its selected 3rd party partners strive to continually improve our products as means of continues development, properties may be subject to change without notice. Vulcor Insulation BV accepts no legal responsibility for use or reliance upon this data. For information regarding specific applications of the product please contact Vulcor Insulation BV.

The productlabel 'Soli', the company name 'Vulcor' and the 'ULS' technology are registered.

Availability

SoliBoard is available in two standard formats; 36x23-5/8" and 47-1/4x36" with thicknesses ranging from 1/4 inch all the way up to 4 inch. 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:

Thickness	Standard Packaging Boards per Pallet			
	per box	Standard Carton Box Packed		Industrial Packed
		36x23-5/8"	47-1/4x36"	47-1/4x36"
1/4 inch	18 pcs	560	280	300
3/8 inch	12 pcs	336	168	218
1/2 inch	10 pcs	280	140	170
3/4 inch	6 pcs	168	84	117
1 inch	5 pcs	140	70	90
1-1/2 inch	3 pcs	84	42	60
2 inch	2 pcs	72	36	46
3 inch	1 pcs	54	27	30
4 inch	1 pcs	38	19	23

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.