

Introduction

We have refined our low bio persistence fiber board range through detailed market assessments. This has led to four high-performing products, each excelling in specific criteria. At the core are the innovative SoliBoard™ ULS® and SoliBoard™ NXT®, now complemented by SoliBoard™ Backup and SoliBoard™ BB.

Built on our proven Generation III Ultra Low Shot fiber technology, these boards offer superior strength, appearance, and performance, with given classification temperatures from 2000°F to 2400°F. Ideal for refractory linings, back up applications and condensing boilers.

SoliBoard™ Backup

SoliBoard Backup was developed to meet market demand for a lightweight, thermally insulating board ideally applied as a backup layer behind dense refractory linings. With a classification temperature of 2000°F, SoliBoard Backup performs comfortably and reliably in backup applications up to 1850°F.

SoliBoard™ BB

SoliBoard BB, or Boiler Board, is engineered for applications where high thermal cycling resistance and minimum heat accumulation is required. SoliBoard BB delivers optimal performance in domestic boiler systems.

SoliBoard™ ULS®

SoliBoard ULS has long been the cornerstone of our low bio persistence fiber board product range. Known for its versatility, it is widely used across a broad spectrum of high-temperature applications where reliable thermal insulation, mechanical strength, and ease of machining are essential.

SoliBoard™ NXT®

At the top of our Low Bio Persistence fiber board range is SoliBoard NXT. A product that redefines expectations in high temperature insulation. While rated to 2400°F with continuous use up to 2100°F, its real strength lies in its exceptional mechanical integrity, smooth machinability and performance in a wide range of applications.

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 manufactured from high temperature Low Bio Persistence insulation wool and selected fillers.

Temperature range

SoliBoard™ Backup has a classification temperature of 2000°F.

SoliBoard™ BB has a classification temperature of 2200°F.

SoliBoard™ ULS® has a classification temperature of 2200°F.

SoliBoard™ NXT® has a classification temperature of 2400°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
- Lining combustion chamber for domestic boilers and heaters
- General technical insulation of furnaces and technical installations

Benefits

- Low shot technology
- 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
- Resistant to thermal shock
- Exonerated of carcinogenic classification under Note Q



Properties measured	Standard	Unit	SoliBoard™ Backup	SoliBoard™ BB-grade	SoliBoard™ ULS®-grade	SoliBoard™ NXT®-grade
Grade			LBP	LBP	LBP	LBP
Colour			white/tan	white/tan	white/tan	white/tan
Surface			barky	one-side smooth	smooth	smooth
Classification temperature		°F	2000	2200	2200	2400
Continuous use temperature		°F	1850	1900	2000	2100
Density		PCF	15.5	16	20	19.5
Modules of Rupture (unfired)	EN 993-6	PSI	≥ 80	≥ 80	≥ 80	≥ 80
Compressive Strength (unfired) @ 10% deformation	EN ISO-8895	PSI	≥ 17.5	≥ 20	≥ 26	≥ 26
Loss on ignition		wgt%	< 8	< 8	< 8	< 8
Permanent linear shrinkage @ 2000°F @ 2200°F @ 2400°F	EN 1094-7	%	≤ 2	≤ 2	≤ 2	≤ 2
Thermal conductivity @ 500°F @ 1000°F @ 1500°F @ 1800°F @ 2000°F	ASTM C201	BTU-in/hr-ft²-°F	0.42 0.70 1.06 1.36	0.44 0.70 1.09 1.33	0.45 0.72 1.06 1.30 1.46	0.45 0.72 1.06 1.30 1.46

Contact

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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

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.

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