

### Introduction

Vulcor takes pride in introducing the revolutionary SoliBoard™ ULS® and SoliBoard™ NXT® product range. Based on our Generation III, Ultra Low Shot, fiber technology we can offer boards which excell on strength, visual appearance and performance. With classification temperatures of 2200°F and 2400°F respectively, SoliBoard™ standard bio products can be used for a wide range of application in refractory linings or condensing boilers.

Our continuous production process and advanced drying techniques enable us to produce uniform, lightweight, low shot, and stable boards with up to 4 inches thickness. These boards maintain high consistency, quality, and performance.

#### SoliBoard™ ULS®-grade

SoliBoard ULS is our general purpose high temperature board manufactured from our 2300°F rated SoliWool ULS fiber and carefully selected fillers to deliver high strength and performance in refractory linings, but is also popular for use in domestic boilers.

#### SoliBoard™ NXT®-grade

A unique composition, developed on our extensive experience, has resulted in a newly developed SoliBoard NXT. SoliBoard NXT is the first among our 2400°F rated LBP fiber product line.

All products in the SoliWool ULS fibers product range, like the SoliBoard ULS, meet the requirements specified under NOTE Q of European Regulation 1272/2008. All SoliBoard ULS products are therefore exonerated from labelling requirements in Europe.

The SoliBoard products range is famous for its exceptional strength and flatness. As a result of the very low shot contents the boards provide in a much smoother machining at further CNC cutting. For this reason the SoliBoard productrange has proven to be the preferred material for numerous tailor-made insulation solutions.

### Type

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

### Temperature range

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

**SoliBoard™ NXT®-grade** 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™ ULS®-grade	SoliBoard™ NXT®-grade
Grade			LBP	LBP
Colour			Off-white	Off-white
Classification temperature		°F	2200	2400
Continuous use temperature		°F	2000	2100
Density		PCF	18.5	20
Modules of Rupture	EN 993-6			
Unfired		PSI	≥ 80	≥ 80
Compressive Strength (unfired)	EN ISO8895			
@ 5% deformation		PSI	≥ 20	≥ 20
@ 5% deformation		PSI	≥ 25	≥ 25
Loss on ignition		wgt%	< 8	< 8
Permanent linear shrinkage	EN 1094-7	%		
@2200°F			< 2.5	
@2400°F				< 2.5
Thermal conductivity	ASTM C201	BTU·in/hr·ft²·°F		
@ 500°F			0.45	0.45
@ 1000°F			0.66	0.66
@ 1500°F			1.05	1.05
@ 1800°F			1.28	1.33
@ 2000°F			1.47	1.56

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The productlabel 'Soli', the company name 'Vulcor' and the 'ULS' and 'NXT' technology are registered trademarks of Vulcor Insulation BV.

## Availability

SoliBoard is available in standard dimensions of 47-1/4 x 36 inch, supplied in carton boxes with a height of approximately 5 inches (based on thickness) or in project pack without carton boxes. Please refer to the provided list for packaging details of SoliBoard in the standard carton boxes.

Thickness	36x24 inches		47 1/4x36 inches	
	Per carton box	Boards per pallet	Per carton box	Boards per pallet
1/4"	40	560	20	280
3/8"	24	336	12	168
1/2"	20	280	10	140
3/4"	12	180	6	90
1"	12	140	5	70
1-1/2"	6	90	3	45
2"	4	72	2	36
3"	2	44	1	22
4"	2	36	1	18

## Product range

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

## 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.