

### Introduction

**SoliBloc™ modules are unique monolithic fiber modules that incorporate our premium Generation III fiber technology. Our SoliBloc™ ULS® is based on our Low Bio Persistence fiber and has a classification temperature of 1260°C. These fiber modules offer exceptional thermal insulation, high strength, and are suitable for applications with high gas velocities.**

SoliBloc™ ULS® modules consist of two sections of SoliSlab™ arranged in an edge grain orientation. These sections are held together by two stainless steel tubes placed transversely through the modules, away from the hot face. The edge grain orientation and interlocking of the fibers enable the SoliBloc™ ULS® modules to withstand high gas velocities without fiber erosion.

SoliBloc™ ULS® modules are based on our Generation III, Ultra Low Shot fiber technology SoliWool™ ULS® fiber. This technology results in better insulation, higher strength and improved handling. With a classification temperature of 1260°C and can be used to 1100°C continuously.

SoliBloc™ ULS® modules are available in densities from 160 to 220 kg/m<sup>3</sup> in a standard dimension of 305x305 mm. Thanks to our high fiber index, our 220 kg/m<sup>3</sup> modules deliver the same performance as a traditional 240 kg/m<sup>3</sup> modules.

SoliBloc™ modules are anchored to the furnace casing with one of our 3 standardized anchoring systems.

- Center fix direct weld system,
- Center fix tube and stud system,
- Side fix anchor system system

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

### Type

Monolithic Fiber Modules from high temperature Low Bio Persistence (LBP) Fiber.

### Temperature range

**SoliBloc™ ULS®-grade** modules have a classification temperature of 1260°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 lining
- Insulation for homogenizing furnaces and heat treating furnace
- Modules for Process heaters
- Linings in Ceramic Industry (tunnel kilns)
- General technical insulation of furnaces and technical installations

### Benefits

- Proven technical solution
- Low shot technology
- Excellent insulation performance
- High handling strength
- Unaffected by most chemicals
- Excellent thermal stability
- Resistant to thermal shock
- Exonerated from carcinogenic classification



Properties measured	Standard	Unit	Solibloc™ ULS®-grade		
Grade			LBP		
Colour			white		
Classification temperature		°C	1260		
Continuous use temperature		°C	1100		
Density		kg/m3	160	192	220
Thickness range		mm	≥ 100		
Permanent linear shrinkage @1200°C	EN1097-7	%	≤ 1,5		
Thermal conductivity	ASTM C201	W/mK			
@ 200°C			0,06	0,06	0,05
@ 400°C			0,10	0,09	0,09
@ 600°C			0,17	0,14	0,13
@ 800°C			0,24	0,21	0,19
@ 1000°C			0,32	0,28	0,26
Chemical composition,	ISO12677	%			
SiO2			63-66		
CaO			26-33		
MgO			3-7		
Other			< 0,8		

## Contact

Vulcor Insulation BV  
Wanraaij 4  
6673 DN Andelst,  
The Netherlands  
T: +31 (0)488 700 202  
E: sales.support@vulcor.com  
**www.vulcor.com**

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## Availability

In standard size the modules are packed in carton boxes of 320x320x970 mm (holding multiple modules) with 24 boxes per pallet. Please refer to the list below for packaging details of the SoliBloc modules, other sizes are available on request.

Length (mm)	Width (mm)	Thickness (mm)	Pieces per carton	Pieces per pallet
305	305	100	9	216
305	305	150	6	144
305	305	200	5	120
305	305	250	4	96
305	305	300	3	72

## Tailor to fit

We offer our SoliBloc™ ULS® in standard straight 305x305 mm modules. For projects we also offer tailor modules to meet specific engineering requirements, such as L-shaped corner modules and other special shapes.

Please let us know if you require any further information or have specific engineering needs. We are dedicated to providing high-quality fiber modules that meet your thermal insulation and strength requirements.

## Product range

SoliBloc 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.