

### Introduction

Introducing SoliBloc™ PRO modules, an exceptional high-temperature monolithic fiber module developed by our R&D team. Utilizing our 2600°F rated SoliWool ZR we have developed a truly unique fiber module system with a classification temperature of 2750°F and capable to perform in application operating till 2500°F continuously.

The durability of SoliBloc™ PRO modules is truly unmatched, setting new standards in the industry. With an exceptional strength and high temperature resistance that surpasses all other available RCF module products in the market, these modules are engineered to endure even the most challenging environments.

SoliBloc™ PRO modules are filling the void between the standard 2600°F RCF-Zr modules and the much higher positioned 2900°F rated PCW based modules. But SoliBloc™ PRO modules are much more than that. As a result of the very high density these modules are very strong and are designed to withstand high gas velocities without fiber erosion.

SoliBloc™ PRO are based on our Generation III SoliWool ZR fiber, but can operate in higher continuous use temperatures up till 2500°F. For this reason, SoliBloc™ PRO can be used in applications which would be close to, on, or over the limit of standard modules.

These modules, like our other SoliBloc™ products, are based on compressed sections of SoliSlab™ arranged in an edge grain orientation. Inside the SoliBloc we have installed our center fix 'hook and bracket' anchoring system based on AISI 321 stainless steel.

### Type

Monolithic Fiber Modules manufactured from high temperature Refractory Ceramic Fiber.

### Temperature range

SoliBloc™ PRO modules have a classification temperature of 2750°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 lining
- Thermal insulation for Petrochemical Industry (like process heaters, reformers, cracker units)
- Chemically stable insulation for Steel Treatment (reheating-, annealing-, and rotary hearth furnaces)
- Linings in Ceramic Industry (tunnel kilns and intermittent kilns)
- General technical insulation of furnaces and technical installations

### Benefits

- Low shot technology
- Excellent insulation performance
- Withstands high gas velocities
- Excellent thermal stability
- Targeted to operate at high continuous use temperatures
- Competitively priced to PCW fiber based modules





Properties measured	Standard	Unit	SoliBloc™ PRO-grade
Grade			RCF
Colour			white
Classification temperature		°F	2750
Continuous use temperature		°F	2500
Density		PCF	17.5
Thickness range		inches	≥ 8
Permanent linear shrinkage @2550°F	EN1094-7	%	< 2
Thermal conductivity	ASTM C201	BTU·in/hr·ft²·°F	
@ 500°F			0.51
@ 1000°F			0.90
@ 1500°F			1.49
@ 1800°F			1.98
@ 2000°F			2.36
Chemical composition,	ISO12677	%	
SiO2			44-50
Al2O3			35-38
ZrO2			15-17
Other			< 1

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## Availability

In standard size the modules are packed in carton boxes of 12-½x12-½x38 inch (holding multiple modules) with 24 boxes per pallet. Please refer to the list below for packaging details of the SoliBloc Pro modules, other sizes are available on request.

Length (inch)	Width (inch)	Thickness (inch)	Pieces per carton	Pieces per pallet
12	12	8	5	120
12	12	10	4	96
12	12	12	3	72

## Tailor to Fit

We offer our SoliBloc™ PRO in standard straight 12x12 inch 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™ Pro 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.