



Introduction

Vulcor is proud to introduce the SoliBoard™ standard RCF board product range. The SoliBoard™ product range is manufactured utilizing the same Ultra Low Shot technology utilized throughout our fiber product range. SoliBoard™ can be used for a wide range of application in refractory linings or in domestic appliances.

Utilizing our continuous production process, with state of the art drying techniques, we are able to manufacture a uniform, lightweight, low shot and stable board to a thickness of 100 mm at high consistency, quality and performance.

SoliBoard™ X-grade

Is our general purpose 1260°C rated refractory board. SoliBoard X-grade is manufactured from a our SoliBulk X-grade with selected inorganic and organic fillers to deliver high strength and performance in refractory linings.

SoliBoard™ HT-grade

A unique composition (using our 1260°C rated SoliBulk HP-grade fibers) boosted the classification temperature on our SoliBoard HT-grade to 1400°C without the use of zirconia.

Soliboard™ ZR-grade

Based on SoliWool ZR Bulk, the SoliBoard ZR-grade is providing a proven solution in applications operating to continuous temperatures of 1300°C.

The SoliBoard Standard RCF grade range is complimented by an extensive range of low bio persistence (AES) Boards and Special Grade Boards range delivering High Strength or, when based on PCW fiber, boards for the most demanding applications.

All Board formulations contain a small amount of organic binder to improve the cold handling strength which burns out on first firing at approximately 200-300°C.

Type

Boards from high temperature Refractory Ceramic Fiber (RCF) insulation wool and selected fillers.

Temperature range

SoliBoard™ X-grade has a classification temperature of 1260°C.

SoliBoard™ HT-grade has a classification temperature of 1400°C.

SoliBoard™ ZR-grade has a classification temperature of 1430°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 linings
- High temperature back-up insulation for ladles and torpedo cars
- Tundish and launder covers in the casting of various alloys
- Back-up insulation in melting furnaces and protection of burners for the glass industry
- Lining combustion chamber for gas fired 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



Properties measured	Standard	Unit	SoliBoard X-grade	SoliBoard HT-grade	SoliBoard ZR-grade
Grade			RCF	RCF	RCF
Colour			off-white	off-white	off-white
Classification temperature		°C	1260	1400	1430
Continuous use temperature		°C	1150	1250	1315
Density		kg/m ³	280 –320	280-320	300-320
Modules of Rupture	EN 993-6				
Unfired		kPa	≥ 750	≥ 750	≥ 750
Compressive Strength (unfired)	EN-ISO8895				
@ 5% deformation		kPa	≥ 140	≥ 140	≥ 140
@ 5% deformation		kPa	≥ 180	≥ 180	≥ 180
Loss on ignition	GB/T 6900	wgt%	< 8	< 8	< 8
Permanent linear shrinkage	EN 1094-7	%			
@1100°C			< 2		
@1200°C					
@1300°C				< 2	< 2
@1400°C					
Thermal conductivity	ASTM C201	W/mK			
@ 200°C			0,06	0,06	0,06
@ 400°C			0,08	0,08	0,08
@ 600°C			0,11	0,12	0,11
@ 800°C			0,15	0,15	0,15
@ 1000°C			0,20	0,21	0,20

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

SoliBoard is available in the standard dimensions 1200x1000 mm or 1000x600 mm which are supplied on carton boxes of approximately 120mm high (based on the thickness of the board). Please refer to the list below for packaging details of the SoliBoard product range, other sizes are available on request.

Thickness	1000x600 mm		1200x1000 mm	
	Per carton box	Boards per pallet	Per carton box	Boards per pallet
10	12	336	12	168
13	10	280	10	140
15	8	224	8	112
20	6	180	6	90
25	5	140	5	70
40	3	90	3	45
50	2	72	2	36
60	2	60	2	30
75	1	44	1	22
100	1	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 3rd 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.