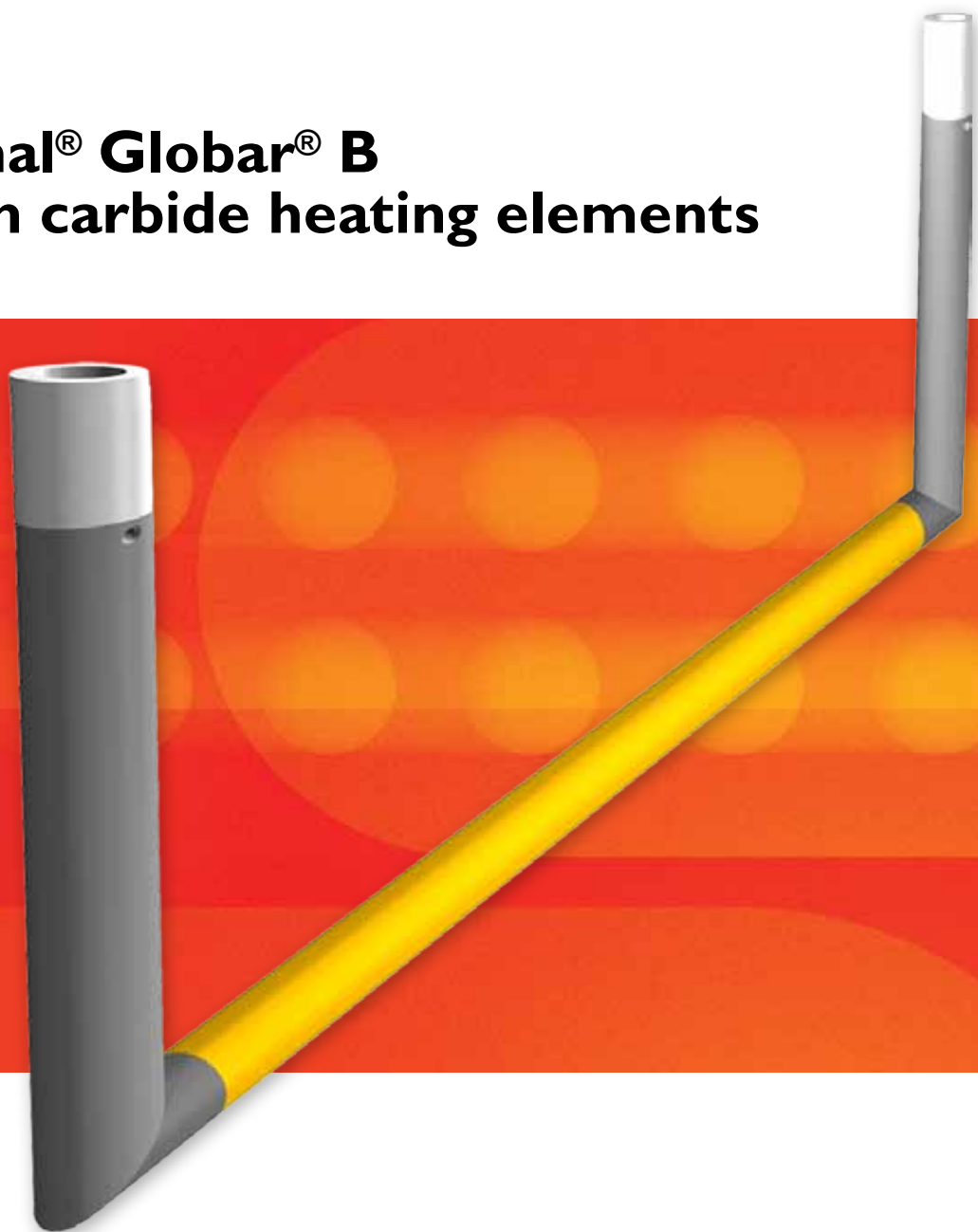


Kanthal® Global® B
Silicon carbide heating elements



KANTHAL

Kanthal® Global® B elements

A leap in technology

Kanthal is the heating technology brand within Sandvik; the world's leading manufacturer of silicon carbide (SiC) heating elements. Kanthal Global B elements are ideal for lift-off roof arrangements, for narrow channels, launders and feeders, for wide roofs and walls, and are easily installed.

Easy to install through roof

Ideal for lift-off roof arrangements. All terminal connections are on the top surface, and no access to the sides is required.

Ideal for narrow channels, launders and feeders. Kanthal Global B elements can be fitted along the length of the unit, instead of across the width so fewer elements are required, and all terminal connections are limited to the roof, leaving the sides free for access.

Ideal for wide roofs and walls

Kanthal Global B elements can be arranged in zones to improve temperature uniformity inside the furnace. Conventional rod elements fit across the entire width or height of the furnace, and separate control zones are not possible.

With Kanthal Global B elements, the interior surfaces of the furnace can be divided into multiple control zones, for improved temperature uniformity and control, and improved yield of the finished products.

Installation

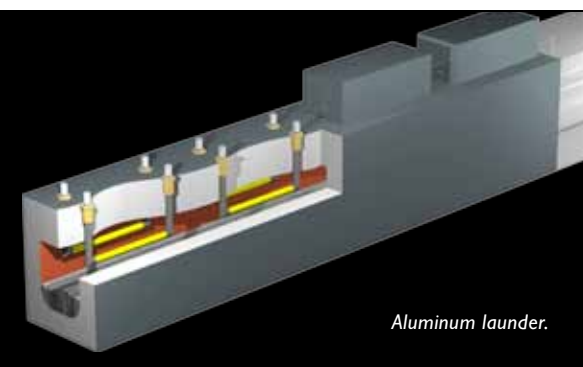
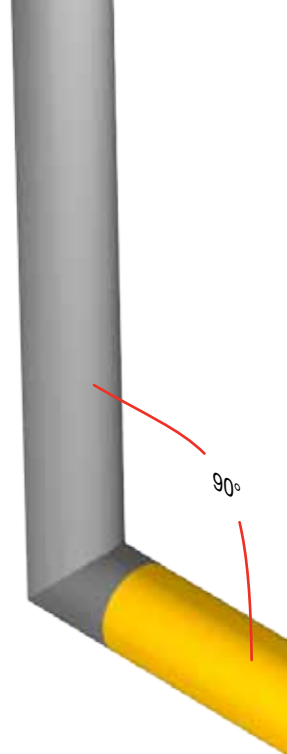
Kanthal Global B elements are best suited to installations with the terminals at the top, and are supported using support pins and washers. Where there is access under the roof elements can be located in type SL sleeves. Alternatively, for continuous furnaces, elements could be installed through slots or as part of a module, to allow removal from outside the furnace.

The element hot zone must be allowed to radiate freely and should be positioned at least one diameter away from the underside of the roof insulation, possibly more if the roof insulation is likely to sag.

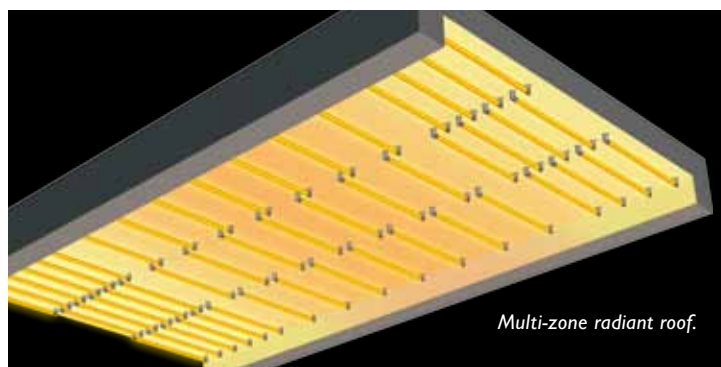
Special precautions are required where Kanthal Global B elements are installed with the cold ends horizontal, and more information is available on request.

Commercial and technical support

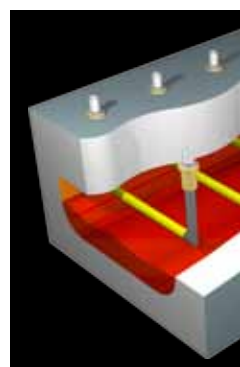
To get in contact with your local Sandvik representative for further information about Kanthal Global B, visit www.kanthal.com or show this QR-code to your smartphone.

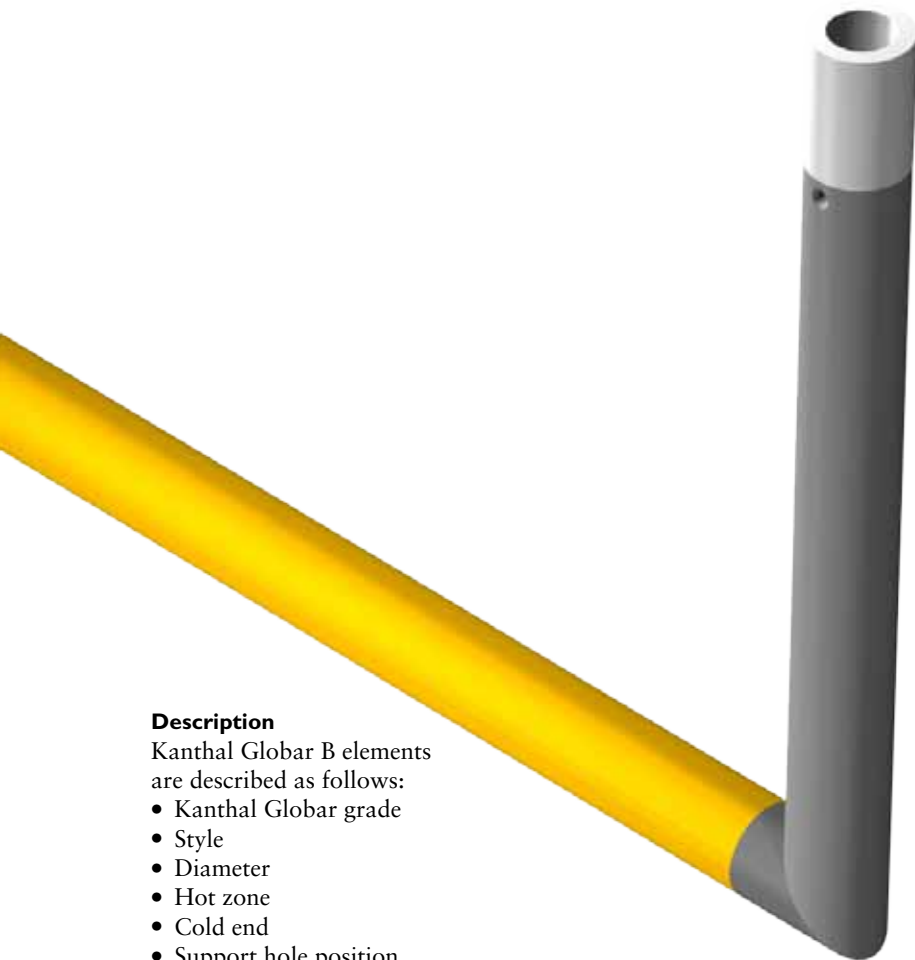


Aluminum launder.



Multi-zone radiant roof.





Description

Kanthal Globar B elements are described as follows:

- Kanthal Globar grade
- Style
- Diameter
- Hot zone
- Cold end
- Support hole position (should be at least 3 x element diameter)
- Resistance
- Resistance tolerance

Standard dimensions

Diameter		Hot zone max.		Cold end max.	
mm	in	mm	in	mm	in
20	0.79	1000	39.4	500	19.7
25	0.98	1000	39.4	500	19.7
32	1.26	1000	39.4	500	19.7

Other sizes available on request

Hot zone material

- Available in Kanthal Globar SD and Kanthal Globar AS grades
- Low porosity, long life material
- Improve life further with glazed hot zone
- Tested at 1000°C (1830°F) before shipping

Aluminum sprayed contacts

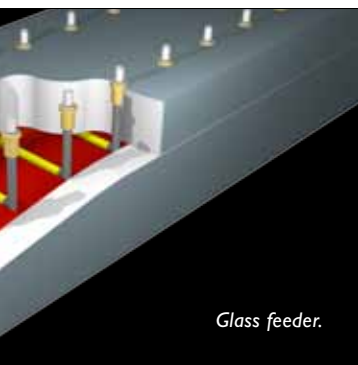
- Reliable connections
- Low energy loss

Reaction-bonded mitered joints

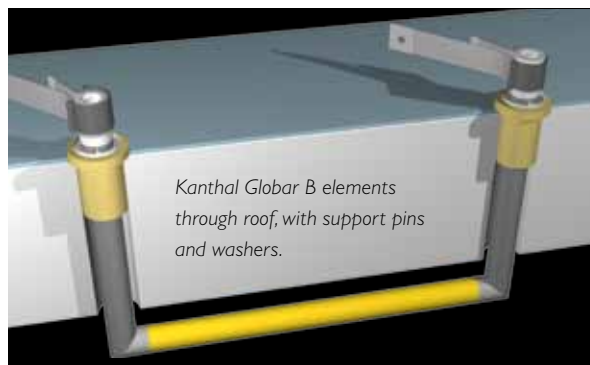
- Maximizes joint area and strength
- Reliable performance

Support hole

- Hardware supplied



Glass feeder.



Kanthal Globar B elements through roof, with support pins and washers.

Sandvik Group

The Sandvik Group is a global high technology enterprise with 47,000 employees in 130 countries. Sandvik's operations are concentrated on three core businesses: Sandvik Tooling, Sandvik Mining and Construction and Sandvik Materials Technology – areas in which the group holds leading global positions in selected niches.

Sandvik Materials Technology

Sandvik Materials Technology is a world-leading manufacturer of high value-added products in advanced stainless steels and special alloys, and of medical implants, steel belt-based systems and industrial heating solutions.

Kanthal is a Sandvik owned brand, under which world class heating technology products and solutions are offered. Sandvik, Kanthal and Globar are trademarks owned by Sandvik Intellectual Property AB.

Quality management

Sandvik Materials Technology has quality management systems approved by internationally recognized organizations. We hold, for example, the ASME Quality Systems Certificate as a materials organization, approval to ISO 9001, ISO/TS 16949, ISO 17025, and PED 97/23/EC, as well as product approvals from TÜV, JIS and Lloyd's Register.

Environment, health and safety

Environmental awareness, health and safety are integral parts of our business and are at the forefront of all activities within our operation. We hold ISO 14001 and OHSAS 18001 approvals.

Recommendations are for guidance only, and the suitability of a material for a specific application can be confirmed only when we know the actual service conditions. Continuous development may necessitate changes in technical data without notice.

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