

VAN DER HOFF

REFRACTORIES

ADVANCED REFRACTORIES
STRAIGHTFORWARD



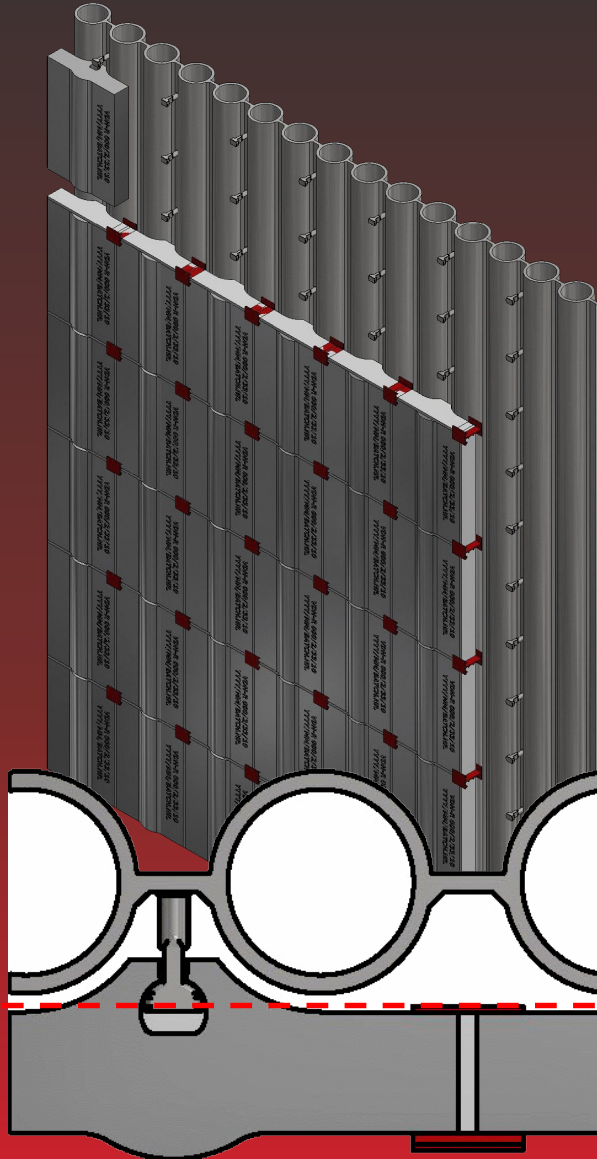
VDHR BOILER TILE SYSTEM

VAN DER HOEFF REFRACTORIES BV is an innovative Dutch company with decades of experience in the refractory industry, conveniently located near Amsterdam.

We are succesfull in the European Waste to Energy branch with our patented VDHR SiC Boiler Tile System.

Furthermore we supply and install refractories in, among others, melting furnaces, bio energy furnaces and multiple deck furnaces.

VDHR BOILER TILE SYSTEM



Flexible system

Fast and easy installation

Tiles follow deviations in tube wall

Evenly divided anchor pattern, 40-60 pcs/m²

Anchors are short, well protected and stay relatively cool

Liner/Spacers for fast, accurate installation and smoother tile surface

VDHR NITRIDE BOND TWICE FIRED SiC TILE

Relatively small tile

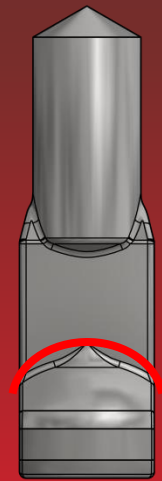
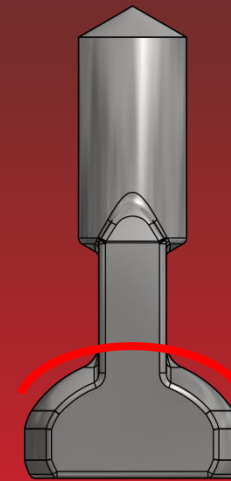
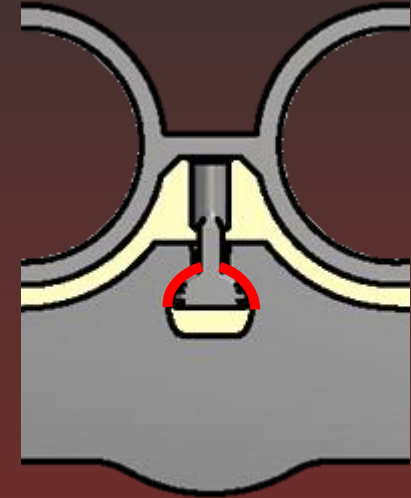
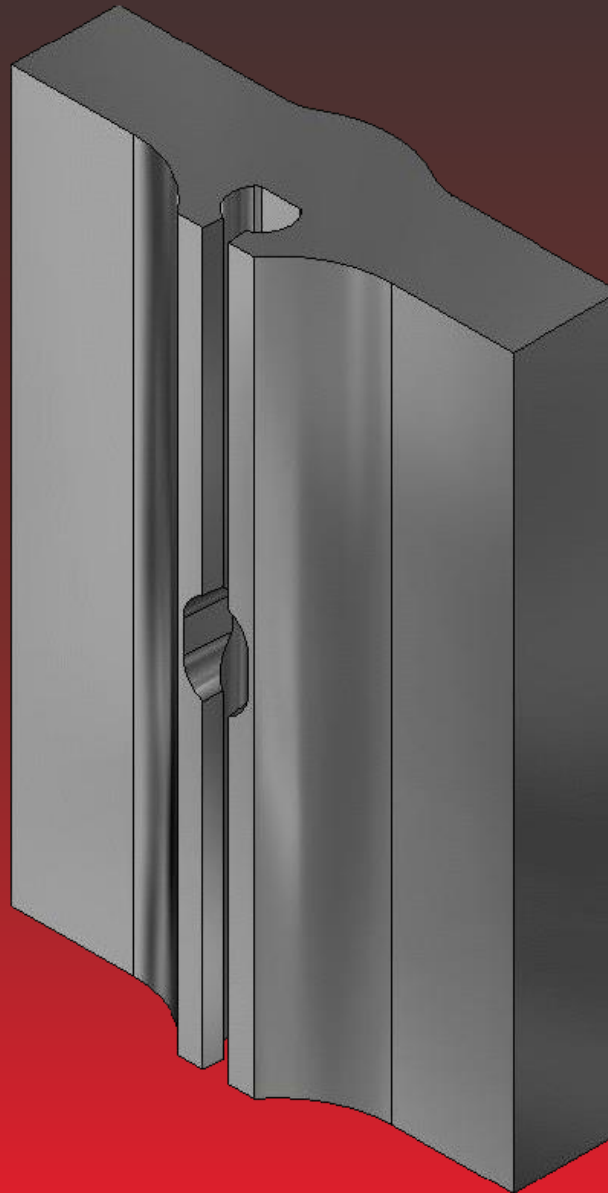
Flexible anchor positioning

Tiles identified by batch number

Anchor well protected behind tile

Exceptional oxidation resistance

Anchor channel specially designed for VDHR anchor



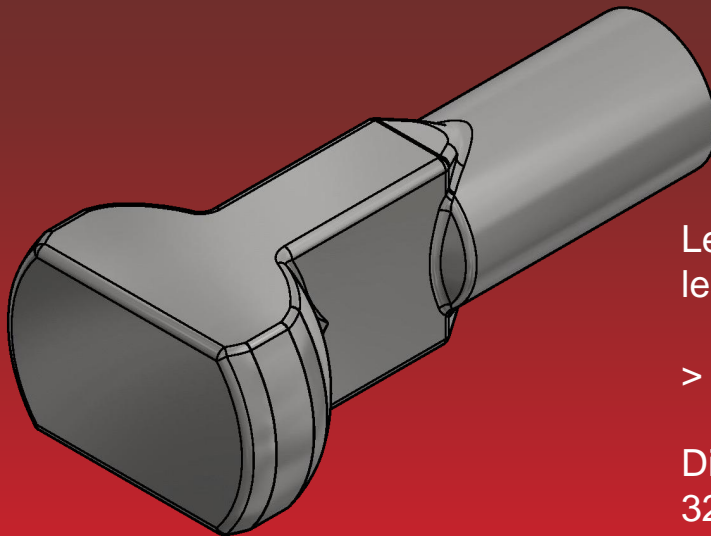
Short one-piece cast anchor equivalent to st. steel AISI 309

Stud welding of anchors is an independent action of mounting of the tiles

Special shape, insensitive to misalignment

One anchor length for all membrane wall types

Anchors are traceable by batch numbers and certificate 3.

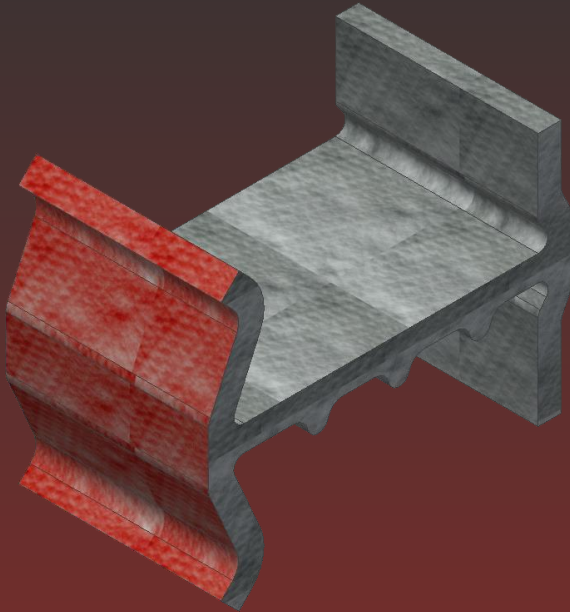


Less specific surface area than threaded stud, therefore less sensitive to thermal and/or chemical attack

> 50% stronger than threaded stud M8

Difference in cross section surface;
32.8 mm² for threaded stud M8
50.3 mm² for VDHR anchor Ø8

VDHR LINER/SPACER

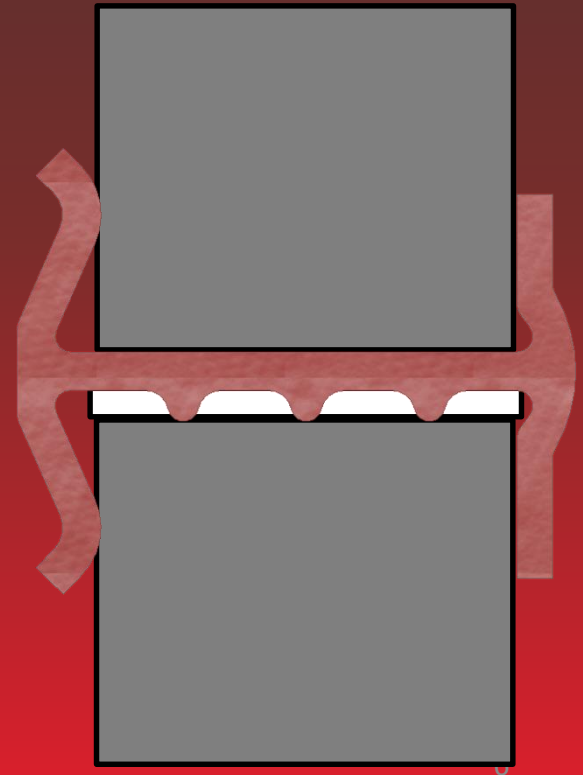


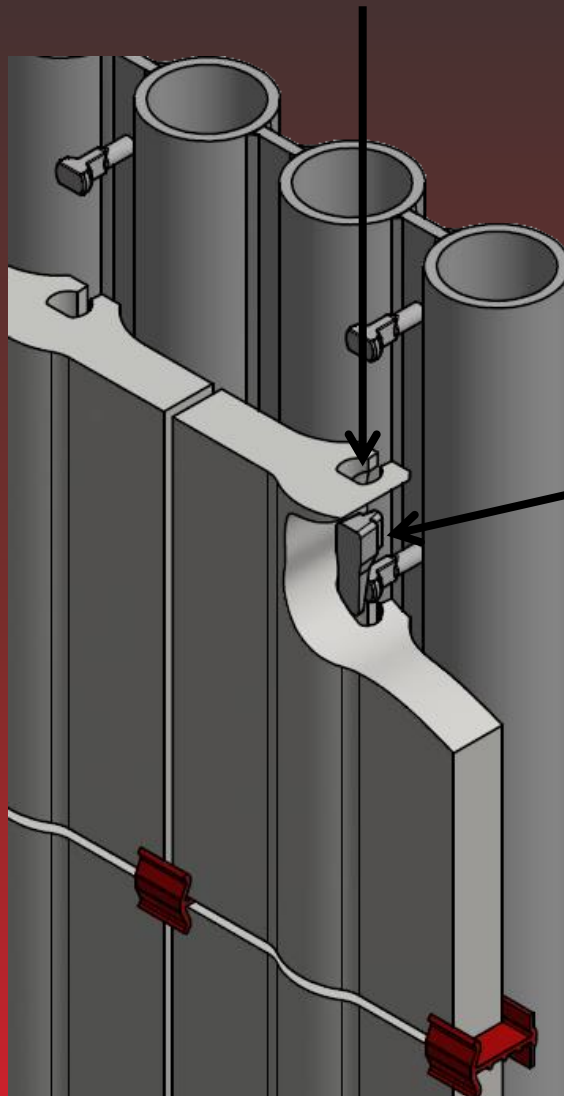
Interconnects tiles at crossings
Results in a smooth tiled surface

Keeps horizontal and vertical expansion material
in position

Made from rigid fibre reinforced plastic,
plastic evaporates, fibre remains

Defines dimension of horizontal
expansion joint





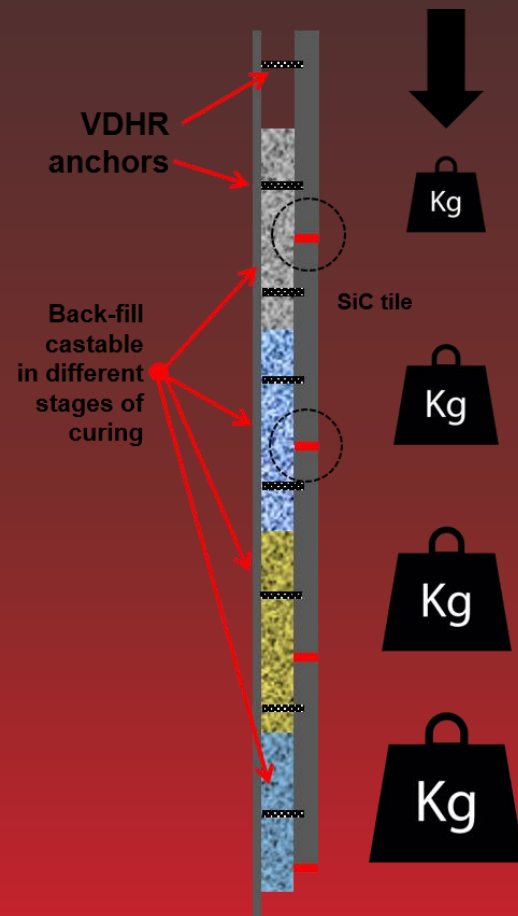
Material of wedge 60% SiC,
similar to backfill castable



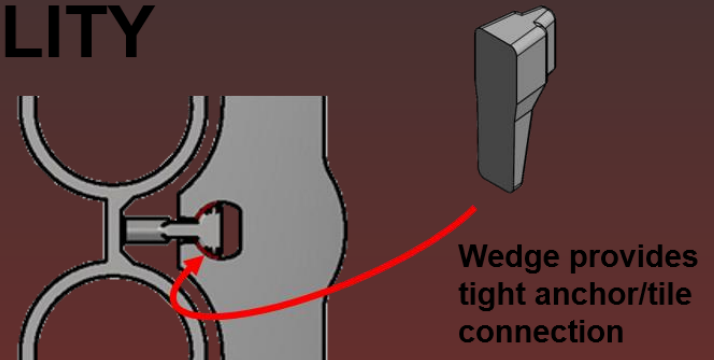
Wedge slides easily into
position and fixates tiles
before backfilling starts.



VDH-R SYSTEM STABILITY



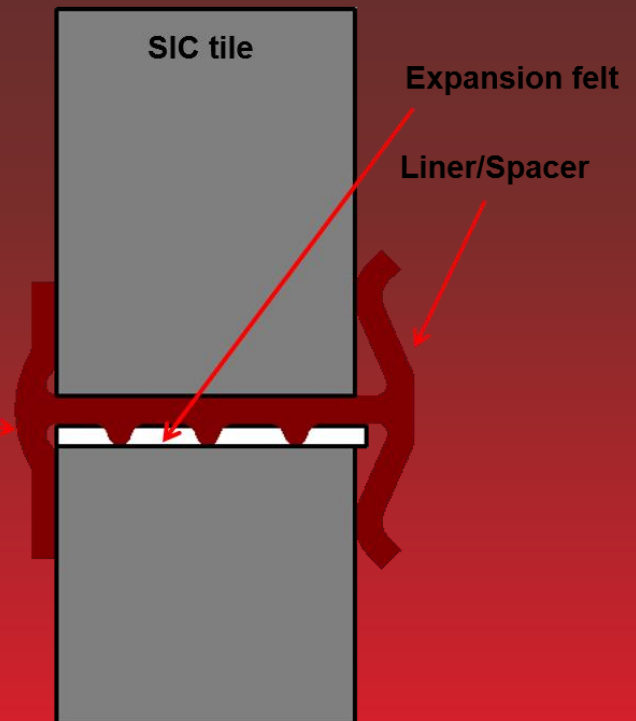
After mounting tiles and before back-filling, the system is already stable in all directions. During and after back-filling no movements possible!

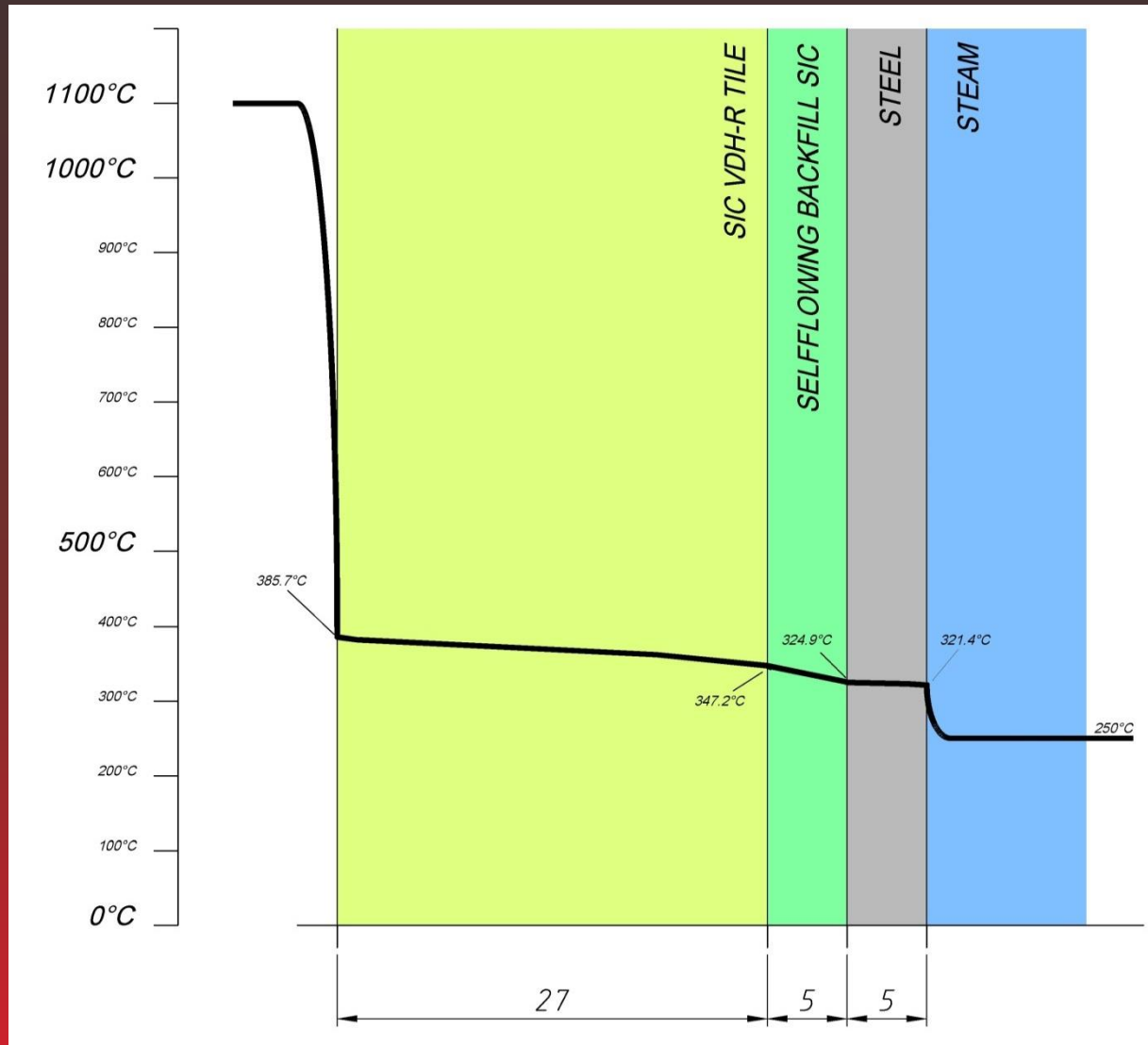


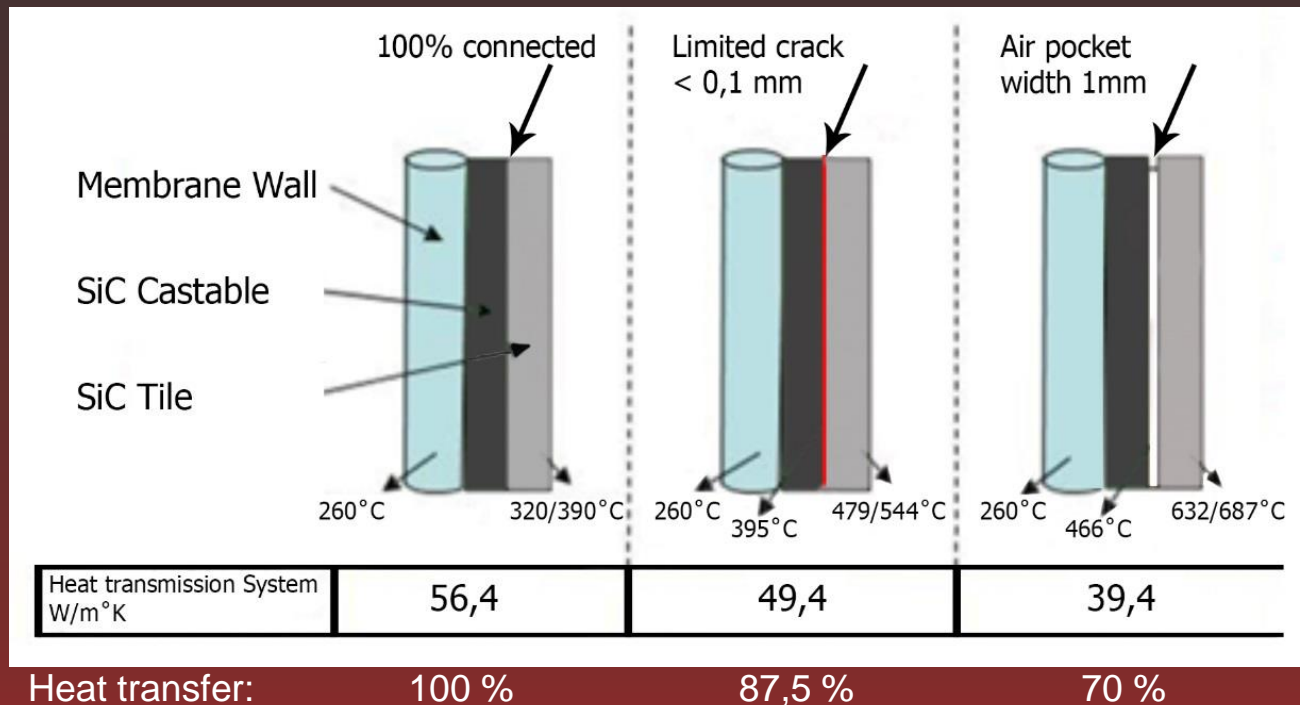
No compression of expansion felt during installation possible

Liner/Spacer is not compressible at ambient temperature

Conclusion: Maximum contact between tile and back-fill castable established

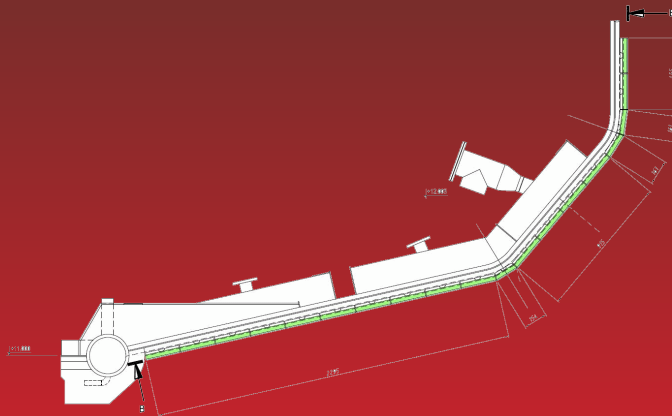






Positive effects of 100% connection between membrane wall and VDHR system:

- maximum efficiency
- lower surface temperature of tiles
- less slag formation
- less oxidation of SiC tiles











Van der Hoeff Refractories B.V.
Maatlat 13a
1906 BL Limmen
The Netherlands

T +31 (0)72 505 4345

info@vdhrefractories.com
www.vdhrefractories.com

VDHR BOILER TILE SYSTEM
ADVANCED REFRACTORIES
STRAIGHTFORWARD