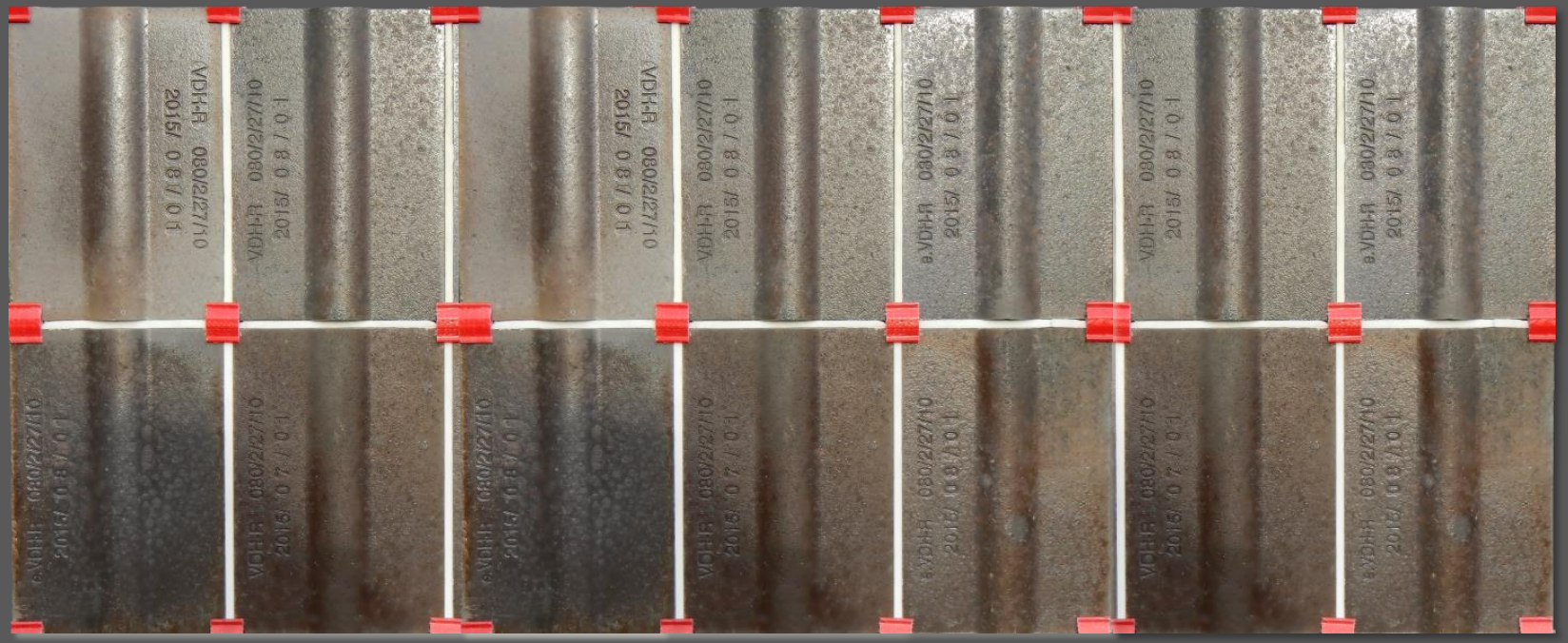
VAN DER HOEFF
REFRACTORIES

ADVANCED REFRACTORIES
STRAIGHTFORWARD



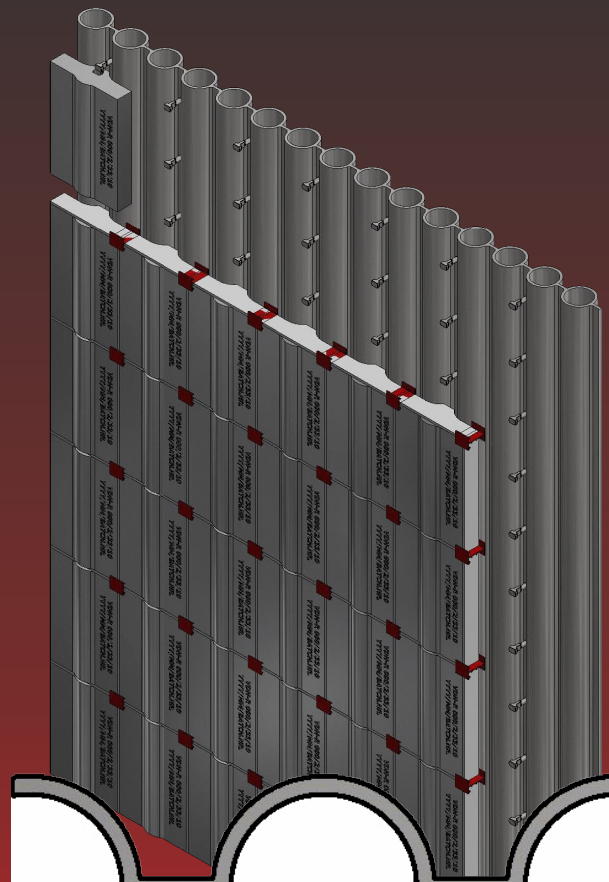
VDHR BOILER TILE SYSTEM

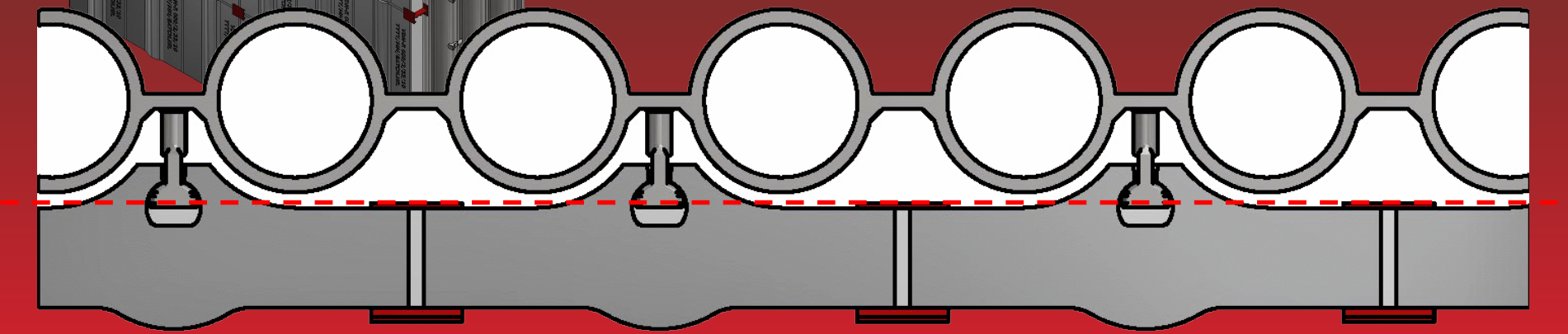
VAN DER HOEFF REFRACTORIES BV is an innovative Dutch company with decades of experience in the Waste to Energy branch, conveniently located near Amsterdam Airport.

Together with our installation partners, we are active in six European countries.

Since 2014, more than 7.000 m2 of our patented VDHR nitride bond SiC Boiler Tile System have been installed in over 40 projects.

VDHR BOILER TILE SYSTEM





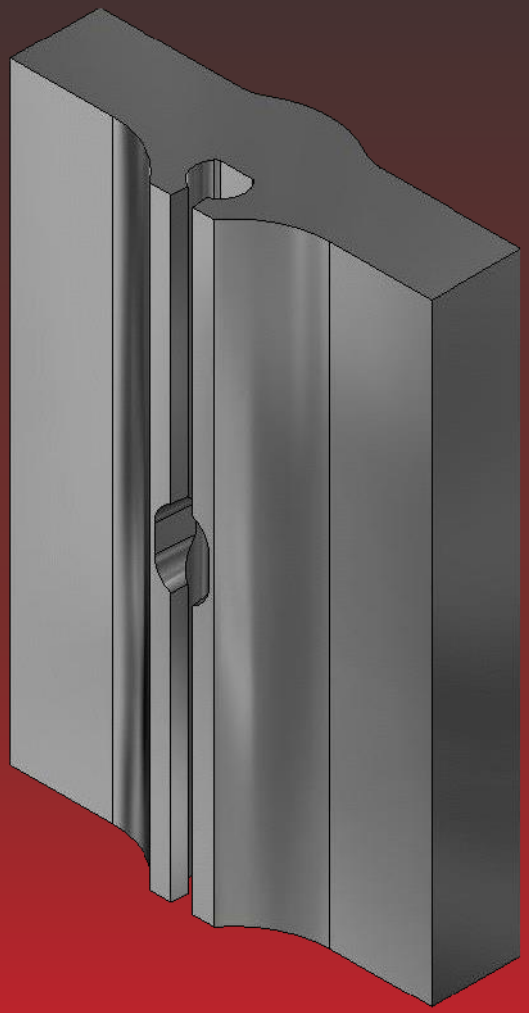
- Flexible system
- Very fast and easy installation
- Tiles are small and easily follow deviations in tube wall
- Evenly divided anchor pattern, 2 anchors per tile, 40-60 pcs/m²
- Anchors are short, well protected and stay relatively cool
- Liner/Spacers for fast, accurate installation and smooth tile surface

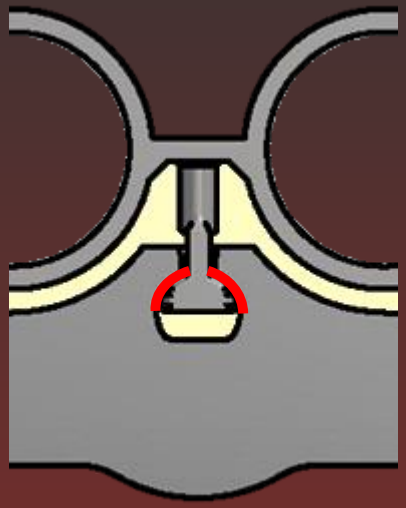
VDHR NITRIDE BOND TWICE FIRED SiC TILE

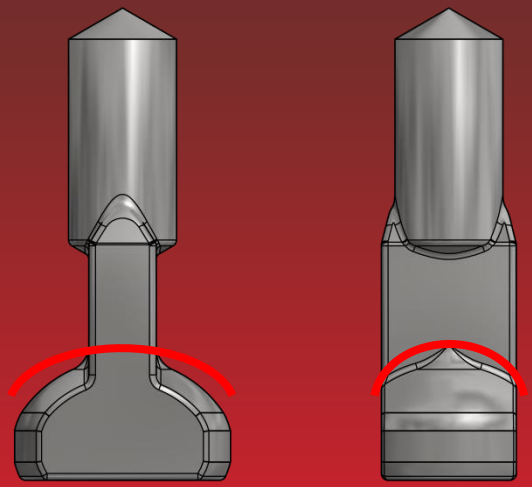
VAN DER HOEFF REFRACTORIES

- Relatively small tile
- Flexible anchor positioning
- Tiles identified by batch number
- Anchor well protected in channel at rear side of the tile
- Exceptional oxidation resistance

Anchor channel specially designed for VDHR anchor







VDHR ANCHOR

VAN DER HOEFF REFRACTORIES

Short, one-piece cast anchor, chemical composition AISI 309

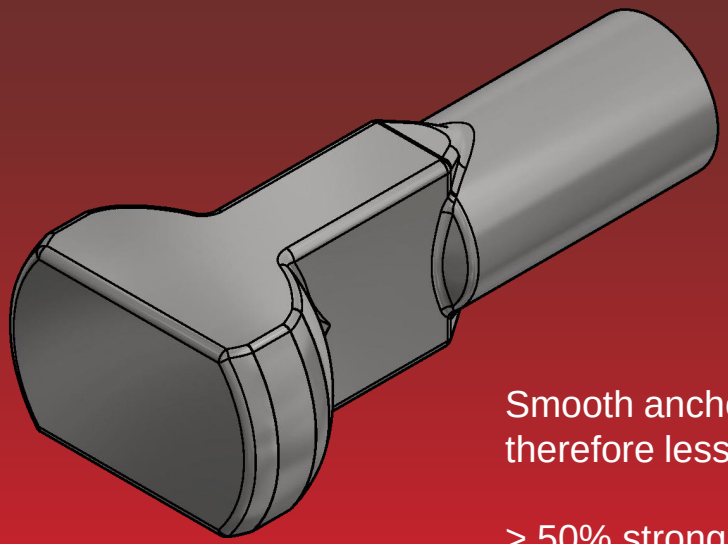
Carbon content < 0,04% for excellent weldability

Stud welding of anchors can completely be finished before mounting of the tiles

Special shape, insensitive to misalignment

One anchor length for all membrane wall types

Anchors are traceable by batch numbers

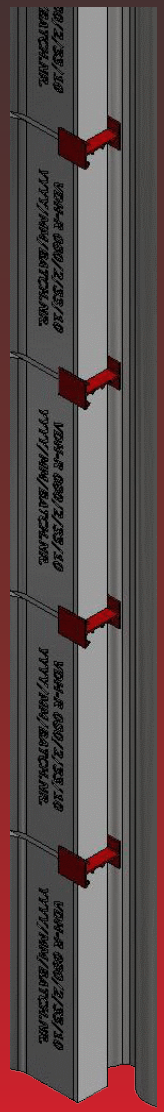


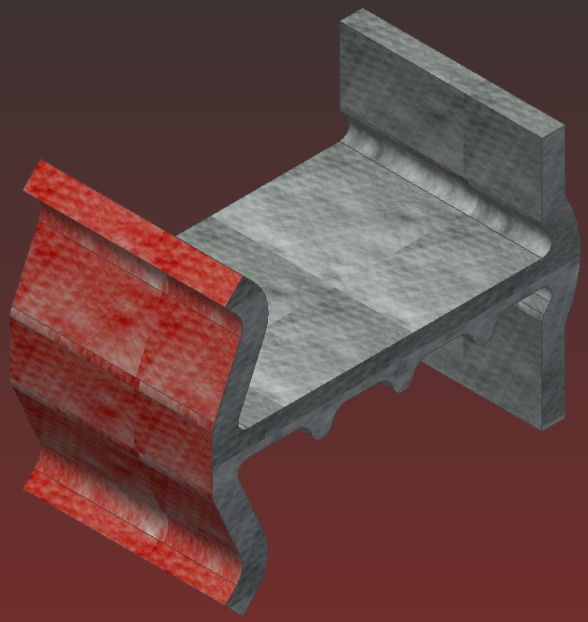
Smooth anchor, less specific surface area than threaded stud, therefore less sensitive to thermal and/or chemical attack

> 50% stronger than threaded stud M8
Cross section ***32.8 mm²*** for stud M8, ***50.3 mm²*** for VDHR anchor

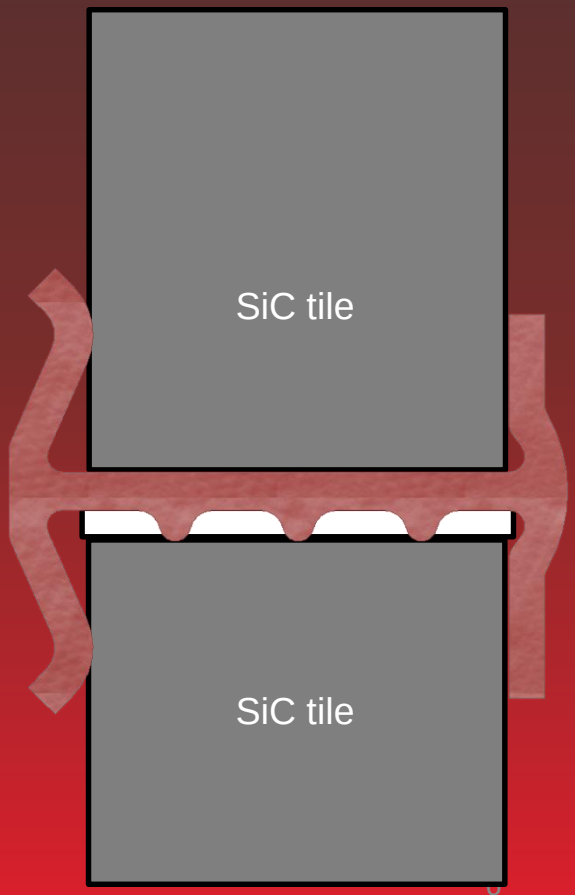
VDHR LINER/SPACER

VAN DER HOEFF REFRACTORIES





Liner/Spacer interconnects tiles at crossings which results in a smooth tiled surface

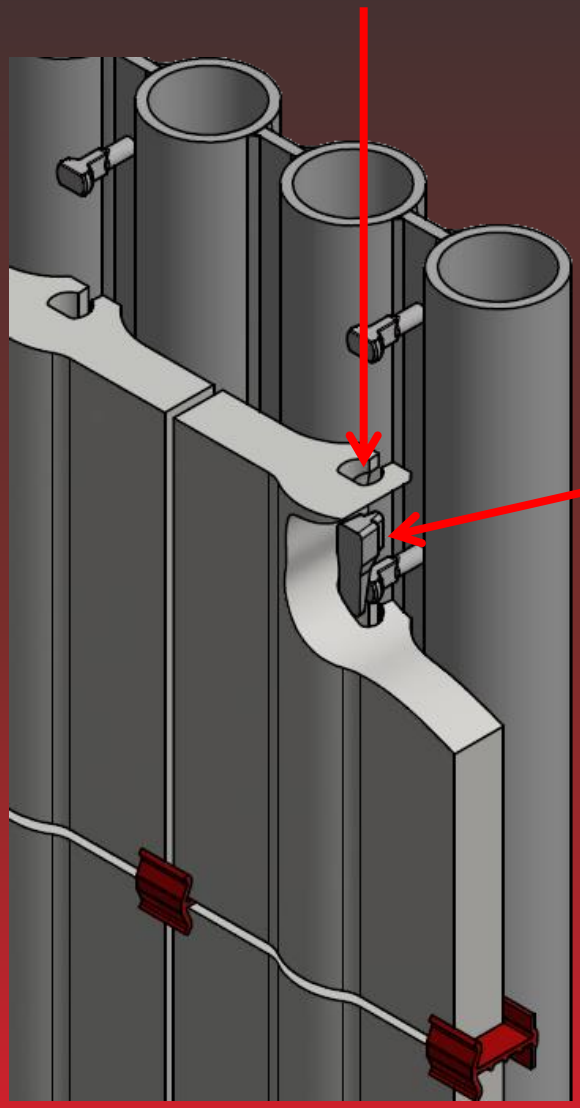


Keeps horizontal and vertical expansion material in position

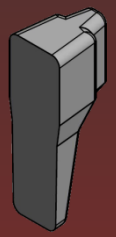
Made from bio soluble fibre with a hard plastic bond, plastic evaporates, fibre remains

Defines and fixates dimension of the horizontal expansion joint

VDHR WEDGE

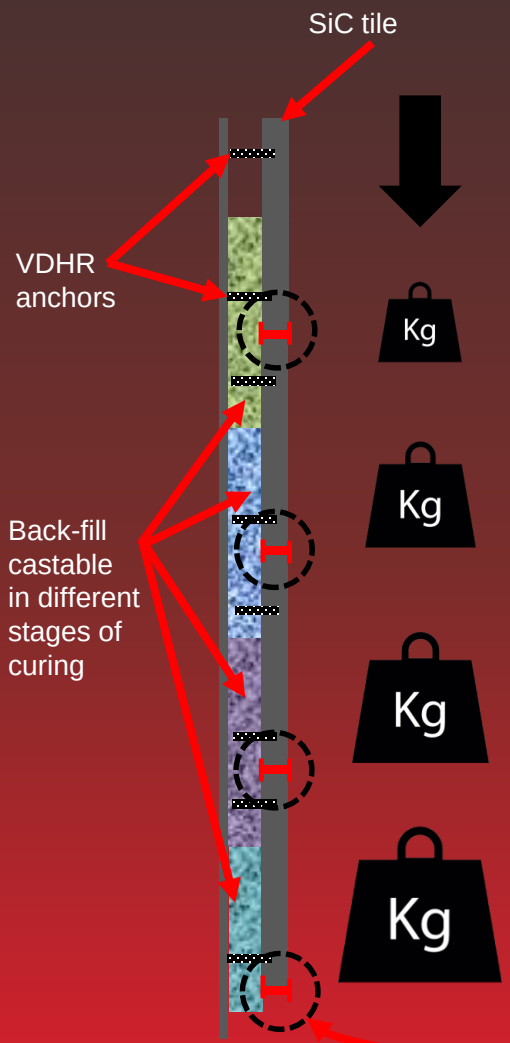


Material of wedge 60% low cement SiC castable, similar to backfill castable



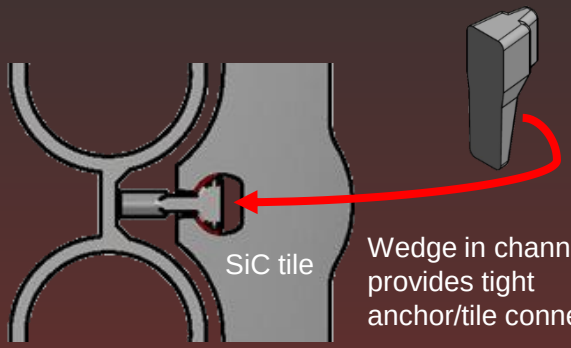
Wedge slides easily into position and fixates tiles before backfilling takes place

VDHR SYSTEM STABILITY



After mounting of the tiles and before back-filling, the system is already stable in all directions

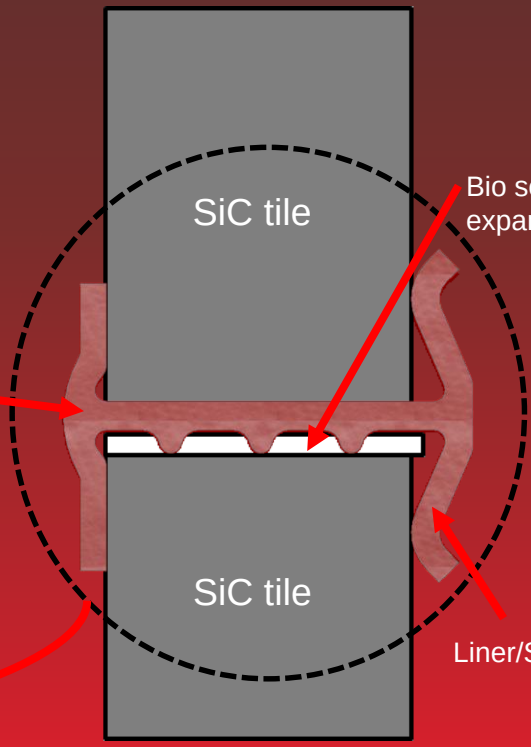
During and after back-filling no movements possible!



No compression of expansion felt possible during installation

Liner/Spacer is not compressible at ambient temperature

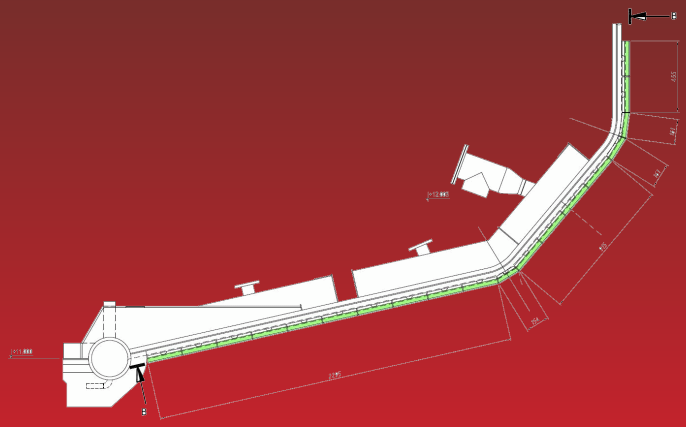
Conclusion: Maximum contact between tile and back-fill castable established



VDHR PROJECTS

VAN DER HOEFF
REFRACTORIES

VDHR IGNITION ROOF



VDHR PROJECTS

VDHR PROJECT – Attero Moerdijk

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REFRACTORIES

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