



For reheating, normalizing and heat treatment furnaces in the Steel industry

The REL® (Refrex®-Expanchor®-Lining) system is a combination of a flexible, almost dust tight, high temperature and erosion resistant fabric (Refrex®) and a simple, easy to apply anchoring system. (Expanchor®).

Typically doors, roof and flue-gas chimneys of heat treatment furnaces in the steel industry are insulated with a high temperature, low thermal mass linings (stackbond/modules).

However, after a certain time, you can be faced with the following problems:

- Shrinkage joints
- Hot spots
- Contamination from the low thermal mass lining
- Reduced insulation values
- Higher gas/fuel consumption
- Erosion of the low thermal mass lining.

The solution to avoid this is our Refrex® Expanchor® Lining System.

Ceramic fixing devices Expanchors® are pressed through Refrex® fabric into fibre lining and injected by Insulmoud for durable fixing. Easy installing of pre-fabricated Refrex® sheets, fixed into fibre lining by Expanchor®. For existing lowthermal mass linings, the Insulcon Group (Insulcon and Keramab) has developed the Refrex® Expanchor® Lining system, which has been successfully used since 1996.

It is an easy upgrade/improvement of your existing low thermal mass lining, without a complete renewal!

With our patented Expanchor® our Refrex® 1220 / 1420 fabric can be easily attached to the existing low thermal mass lining, depending the condition of the existing low thermal mass lining.

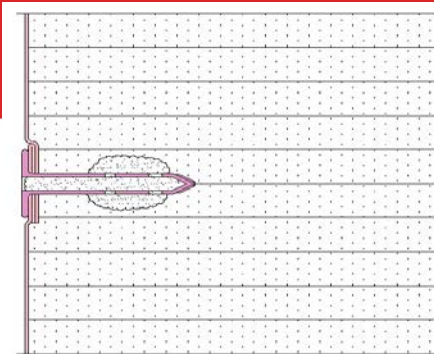
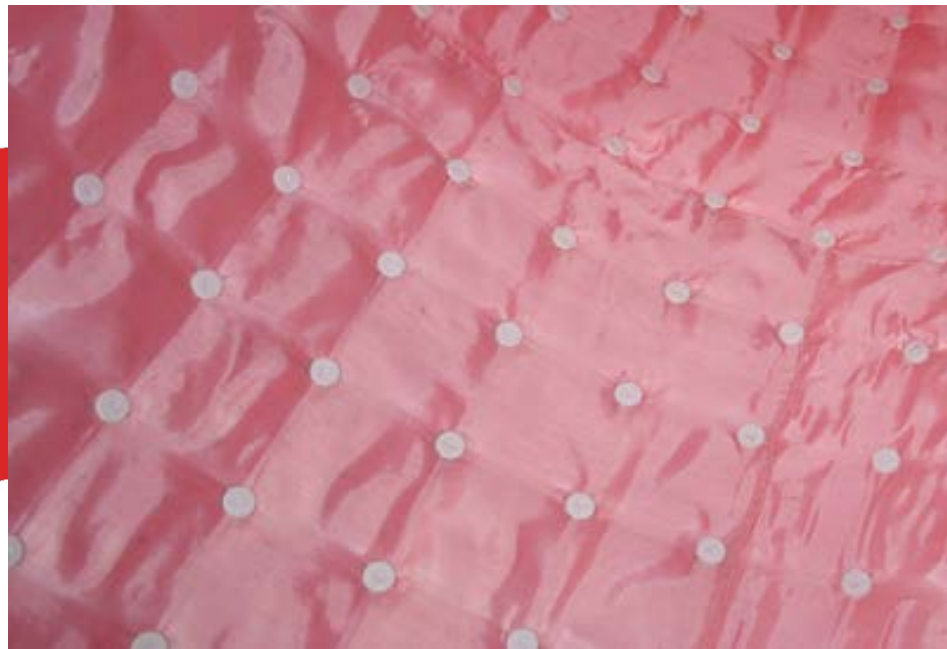
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Typical design Refrex® Expanchor® Lining system:



Advantages:

- Reflection of 60% of the radiation heat.
- Reduction of maintenance costs.
- No further eroding of existing fiber lining.
- Can be installed over existing fiber lining.
- No further contamination.

Typical heat treatment furnaces are:

- Rotary hearth furnace
- Chamber / Bell kiln

In case the complete lining needs to be renewed, our Refrex® New Lining is the best option.

This combination of a layered low thermal mass lining and Refrex® 1220/1420 fabric can be used when a wall / door / roof needs to be completely renewed.

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Advantages:

- Reflection of 60% of the radiation heat
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- No further eroding of existing fiber lining
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Typical design Refrex® New Lining system:

