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TUNNEL KILN

APPLICATION INFORMATION



FURNACE INFORMATION

Furnace type: Tunnel kiln

Fuel type: gas

Operating Temp: 950 °C (1740 °F)

APPLICATION INFORMATION

In February 2021 walls from bottom of kiln car and Ceiling were coated with Emisshield® in preheat zone from 600°C till end of burner zone, total about 400m²

CUSTOMER

Ziegelwerk
Bellenberg, Germany

APPLICATION

Tunnel Kiln

SUBSTRATE

Refractory
– about 40 years old

RESULTS

EMISSHIELD BENEFITS

Emisshield® was able to provide increased uniformity in heat distribution and after optimization of the kiln energy savings of 6% were sustainably documented.

The furnace was inspected in March 2025 by CRESS:

- The coating remains largely intact, with only very minor degradation in a few localised areas.
- No touch-up has been needed since the original application.
- The kiln atmosphere remains clean and stable, supporting efficient heat transfer.
- A documented energy saving of 6% was achieved after kiln optimization, and maintained since.

