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TUNNEL KILN

APPLICATION INFORMATION



FURNACE INFORMATION

Furnace type: Tunnel kiln

Fuel type: Natural gas

Operating Temp: up to 1100 °C (2012 °F)

APPLICATION INFORMATION

In January 2024, the walls from the bottom of the kiln car and the ceiling were coated with Emisshield®. The application was done in the preheat zone from 600°C until right before the end of burner zone, in total about 538m². After adjusting and monitoring the kiln's energy balance due to the coating application, a second Datapaq temperature measurement was performed one year later.

For more detailed information we invite you to check the TCKI report.

CUSTOMER

Engels Baksteen

Oeffelt, The Netherlands



APPLICATION

Brick manufacturing Tunnel Kiln

SUBSTRATE

Refractory

– about 40 years old

RESULTS

EMISSHIELD BENEFITS

Emisshield® was able to provide increased uniformity in heat distribution and energy savings of 3,1% were sustainably documented. The gas consumption for 2024 includes the startup phase and recipe adjustments.

The results were discussed and validated in February 2025 between Engels Baksteen, TCKI, the Dutch independent research institute for the brick manufacturing industry and CRESS.

