

## Metal Production

**Project Name:** Walking Beam Furnace

**Location:** Norfolk, Nebraska

### Furnace Information

**Furnace Type:** Bricmont Walking Beam Reheat Furnace

**Fuel Type:** Natural Gas

**Substrate:** Hard Refractory/ Castable

**Operating Temp:** 1425 - 1830°F (774 - 999°C)

**Product:** Merchant Bar Quality Hot Roll Product and Some Special Bar

### Application Information

Emisshield® was applied to the top heat zone down slightly below the billet line. This total area of refractory was approximately 2000 ft<sup>2</sup>. The customer's goal was to improve energy efficiency of the furnace. This application occurred in September 2008.

### Emisshield® Benefits

The customer was able to realize an improvement of 4.5% in energy efficiency with the utilization of Emisshield® technology across their product line. This resulted in a direct savings in their natural gas usage per ton of product produced.

