Danish steel plant uses precast blocks made from HASLE D52A in Reheating Furnace

For over a decade, a Danish steel manufacturer, producing hot-rolled steel plates (5-220mm thick) for construction, shipbuilding, wind turbines, boilers etc. has used precast blocks of HASLE D59A in their reheating furnace. Using large precast blocks, weighing about 470 kg each, they are able to reach a lifetime of 2-3 years in the heating zone, which has the most thermal stress, and prone to high abrasion from the heavy steel plates.

During production, large slabs of raw materials are cut into smaller slabs and transported through the reheating furnace, which has 9 lines, divided into 6 zones. Then, the steel slabs are descaled with high-pressure water before rolling. The temperature at the hot face is approximately 1300°C and 3-400°C at the cold face.

In the steel maker's workshop, 20 precast blocks are cast in HASLE D59A for each of the 9 lines and dried to 400°C. HASLE D59A has high mechanical strength, good shock resistance and excellent abrasion resistance. It is known to extend lining lifetime significantly. With HASLE D59A, the steel maker has improved its run factor, as fewer shutdowns for re-lining are needed. It also saves money as less material is needed for re-lining.

To improve your high temperature process, e-mail us at info@hasle-refractories.com.

Precast element made from HASLE D59A

Finished steel plates for end-users