

No. 3 Continuous Casting Plant

South Wales, UK

Project Information

Client
Corus PLC

Consultant
Skanska UK

Main Contractor
Andrew Scott Ltd

Process Contractor
VAI

Dates
2004

Construction Value
£7.1m

Further information

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Skanska's design team was responsible for the civil design for the £7.1million Continuous Casting Plant, the third it has been involved with for Corus at Port Talbot in South Wales. The new caster increases the steel output of the Port Talbot plant by 45% to 4.7 million tonnes per annum and the ICE in Wales announced this project as an outstanding example of Civil Engineering and it was awarded the George Gibby Award, 2005.

The new facility was restricted within a very tight site envelope and the fast track programme had to be delivered without disruption to Corus' production schedules.

Skanska's design team were able to bring the knowledge and experience gained on previous caster installations to a project that comprised a new continuous casting machine housed in a three bay extension, a dedicated water treatment plant, raw material feed conveyor, nitrogen and oxygen storage vessels, and other ancillary structures.

The project required over 1,100 precast piles to be driven, the erection of 6,850 tonnes of structural steelwork and 16,000 cu metres of reinforced concrete to be poured. The largest single concrete pour was for the casting machine foundation, which was 1,050 cu metres, an operation that took 21 hours to complete and was a record for Corus Strip Products UK. □