

TPS Runcorn – A combination of Hot-dip Galvanising and Film Galvanising

Beams coated during 2010



A view from the front showing the extent of the steelwork used



An aerial view of the steelwork showing the different levels



One of the 20-ton zingaised beams being checked



One of the beams after it rained on site showing oxide streaks



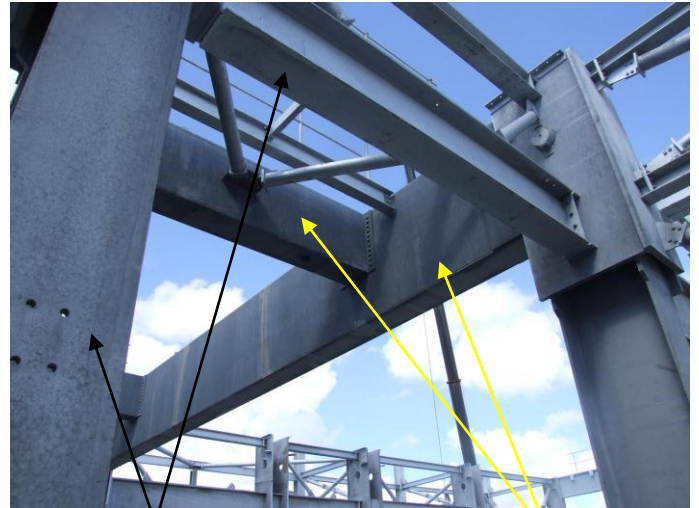
Zingaised beams in position



A view of the zingaised beams from above



Zingansised main beam

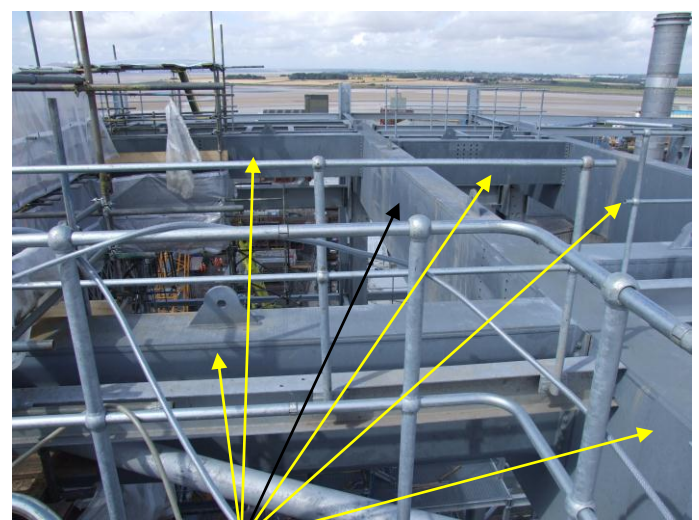
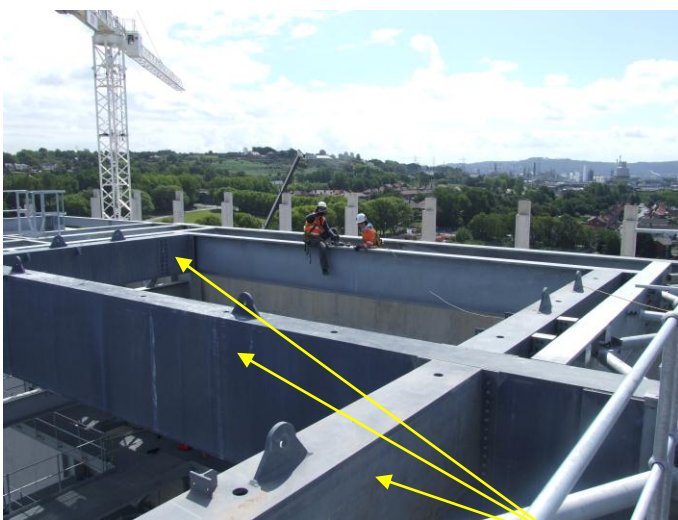


HDG beams

zingansised beams



Checking the zinc-thickness on the zingansised beams

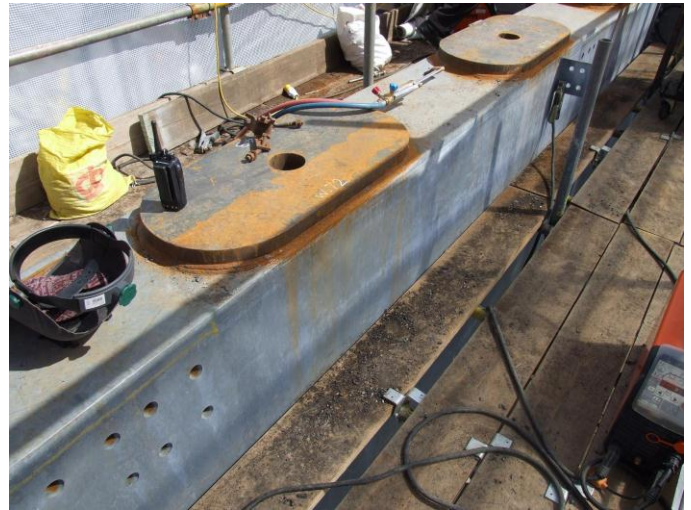


Zingansised beams on the top of the structure

Zinga system used:

Blast-clean all steelwork to SSPC-SP10 (SA2.5)

Application of Zinga 2 x 70µm DFT = 140µm total



These 40mm plates were added on by the client after the zingaised beams had been completed and put into place. The plates will be 'bristle-blasted' in-situ and then coated with Zinga as normal. The contractors have four 110 volt bristle-blasters on site.



A larger view of the upper zingaised beams on the top of the structure.

At a cost of €185 million, this is the first major project in the UK where a combination of hot-dip galvanised and film-galvanised steelwork has been assembled into a single structure.

It clearly illustrates that the electrical potentials of the two zincs are well-balanced, and one beam will never go anodic to another and hence no galvanic corrosion can occur.

January 2013 with exterior cladding now added



Before



After