



case

Edition 44 | 2013

edilon)(sedra LCS Level Crossing System



22,5 tonnes axle load edilon)(sedra LCS installed in 1991, no maintenance since.

60 tonnes axle load edilon)(sedra LCS installed in 2002. Rail reprofiling once a year. But no maintenance on the ERS-fastening since.

Location	The Netherlands, Velsen-Noord
Project	Heavy duty edilon)(sedra LCS (Level Crossing System) around Tata steel factory.
Application	Various dates (Wenkebachstraat 2x UIC60 in 2002 and 1x UIC54 in 1991).
Rail profile	54E1 (UIC54) and head hardened 60E1 (UIC60)
Details	Train speed 40 km/h (25mph) and traffic speed 50 km/h (30 mph). UIC60: axle load 60 tonne, 6,3 MGT annually. UIC54: axle load 22,5 tonne, 3,9 MGT annually. Daily traffic 16.500 cars, incl. 2.900 trucks. Road tonnage 31 MGT annually.
Target	Virtually maintenance-free heavy duty level crossings for the transport of steel plate rolls.
Client	Tata (UIC60), ProRail (UIC54)

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Five 60 tonne axle load level crossings (2 at 'Wenckebachstraat', 2 at 'Noordzee route' and 1 at 'Staalhavenweg') are used to transport rolls of steel plate to the harbour, for further transport.

The edilon)(seda LCS at the 'Velsertraverse' and the 3rd edilon)(seda LCS at 'Wenckebachstraat' are used as a 22,5 tonne axle load freight line, to supply inland customers. This freight line carried an extra 685.000 tonne in 2011, since a fire in the Dutch plant forced Tata to finish their plate-steel rolls in their Welsh (UK) factory (and collect it back).

The 'Gildenspoor' line has multiple other level crossings, using edilon)(seda materials and/or systems, including the 'Noordzee route' and the 'Staalhavenweg'.



edilon)(seda vision and mission points:

-)(Tailor-made solutions for railways and urban transit*
-)(Manufacturer of "n&v products" developed in our R&D lab facilities*
-)(Your partner for DCM-projects (Design Construct Maintain)*
-)(Decades of practice-proven products and technology*