



# case

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## edilon)(sedra ERS Embedded Rail System



<b>Location</b>	United Arab Emirates, Dubai
<b>Project</b>	Depots for Dubai metro red line at Al Rashidiya and Jebel Ali.
<b>Length</b>	3.000m
<b>Application</b>	2009
<b>Rail profile</b>	54E1 (UIC54)
<b>Details</b>	To house, clean and maintain all trains for the Dubai metro red line, 2 new depots were build.
<b>Target</b>	Flat surface area, noise reduction and chemical resistance against corrosive materials.
<b>Client</b>	RTA (Roads & Transport Authority, Dubai) MHI (Mitsubishi Heavy Industries Ltd.)

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The RTA depots for the Dubai metro redline are situated at Al Rashidiya and Jebel Ali. The Al Rashidiya depot is fully air-conditioned and has parking space for some 64 trains, whereas the Jebel Ali depot covers an area of 110,000 m<sup>2</sup> and can house up to 40 trains.



Due to possible noise pollution, created by the intensive train traffic, all trains stop at the depots for every day cleaning, and washing every 3 days. The specially designed edilon)(sedra Corkelast<sup>®</sup> fully encompasses the rail and absorbs much, if not all, of the excess vibration.

In addition, due to the daily maintenance and cleaning of the trains, the edilon)(sedra Corkelast<sup>®</sup> is designed not to deteriorate or change in technical properties, due to corrosive materials such as oils and detergents.



Not just the straight line, but also all the special track work and all the special equipment like turntables or buffer stops are constructed with the embedded rail system.

Sensors, rail-rail connections, IRJ's as well as all other special items are embedded too.

The embedded rail system is not only used inside the shed, but also outdoors, exposed to the elements.

The flat surface creates a flat floor where people, tool trolleys, forklifts, motorbikes, hovers, automobiles, trucks, road cars, cranes, roll containers, rescue cars etcetera have easy access.

Since an embedded rail system consists of floating rails, completely encapsulated by Corkelast<sup>®</sup>, the system has superb electrical insulation characteristics.

The channels holding the rails are only 30 mm wider than the rail foot. At one side, the Corkelast<sup>®</sup> is level and at the other side it allows for a flange way. This results in just very small recesses with strongly reduced risks for accidents.

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- ) ( 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