

Al Safouh Tram System will service app. 200.000 commuters living in area of Al Safouh, Dubai Marina and JBR residence areas in Dubai. It will run 14.5km (9miles). Capacity is 300 passengers. This is the world's first tram that runs with ground power feeding on the entire line without need for electrical air wires. This is also the world's first tram network to use platform screen doors at the stations, as well as a new supervised vehicle operation (SVO) mode that will ensure accurate station stop and safety during passenger transfer.

Freyssinet, sub-contractor of Alstom-Besix consortium, was involved in the construction of a tramway. The design and construction of the superstructure was awarded to Freyssinet on the basis of an alternative design. The proposed design was based on building a 3.2km long viaduct with 93 isostatic spans made up of precast segments. The detailed design was carried out by Freyssinet technical department. 9 prefabrication cells were used to cast the 850 segments of the viaduct using the short cell match casting method. The segments were erected using 2 methods – direct erection on scaffolding and segments installation using an underslung launching gantry.

Some 400 bearings have been supplied and installed by Freyssinet.

This projects comes after the success of Dubai Metro and highlights the capacity of Freyssinet to propose alternative solutions.

## New structures

### Al Safouh Tram System

Dubai - UAE



#### Client

Roads and Transport Authority

#### Consultant

Systra

#### Contractor

Belhassa Six Construct

#### Construction

Jun 2008 – Apr 2011