

## PIPES & BEAMS – MAKKAH METRO – THALES – SAUDI ARABIA

In 2012, Saudi Arabia has launched its first dual-track light railway to transfer millions of Muslim pilgrims during the holy ceremonies of Hajj.

The **Mashair Railway**, known as **Mecca Metro**, is expected to serve pilgrims starting their annual Hajj rituals.

The railway connects the three holy sites of Mina, Muzdalifah and Mount Arafat -- areas that see massive congestion during the five-day pilgrimage.

The Mecca Metro has been designed to carry up to 72,000 passengers an hour and it will replace the 4,000 buses previously used.

Owner: **Makkah Township**

Contractor: **THALES – French communication co.**

Steel Manufacturer: **Electro Industries.**

**ZINGA** has been used on hollow pipes and beams with different shapes that support roofing for the train.

**Two tons of ZINGA** have been used instead of Hot Dip Galvanization.



System:

ZINGA      2 x 50  $\mu$ m DFT