

application **Foundation subsurface drainage**
 location **LRT Kuala Lumpur, Malaysia**
 product **Mirafi 140NC**

Road congestion is a common ailment of many major cities of the world and Kuala Lumpur is no exception.

The Light Rail Transit system for Kuala Lumpur was first mooted during the Kuala Lumpur Master Plan Transportation Study (1979 -1981).

The Light Rail Transit system is part of network that connects Kuala Lumpur city center to its suburban centers as well as to nearby towns and the national railway line that runs along the West Coast of Peninsular Malaysia.

The LRT system in Kuala Lumpur involved elevated, ground level and underground tracks over diverse geological formations and ground conditions.

The Setiawangsa to Wangsa Maju line cuts through some hilly terrain. To conform to gradient limits, certain portions involved excavation of hill slopes with rail tracks placed on concrete platforms within reinforced concrete retaining structures.

To maintain serviceability of the rail tracks at all times, it was necessary to provide subsurface drainage and waterproofing solutions to the concrete structures.

The subsurface drainage solution involved the construction of a granular drainage blanket on the underside of the concrete structure. Perforated polymer pipes were installed within edge trenches to conduct away collected groundwater. **Mirafi 140NC** was placed as a separator and filter layer between

the subgrade and aggregate drainage layer to ensure that soil will not migrate and thereby clog the aggregate drainage layer .

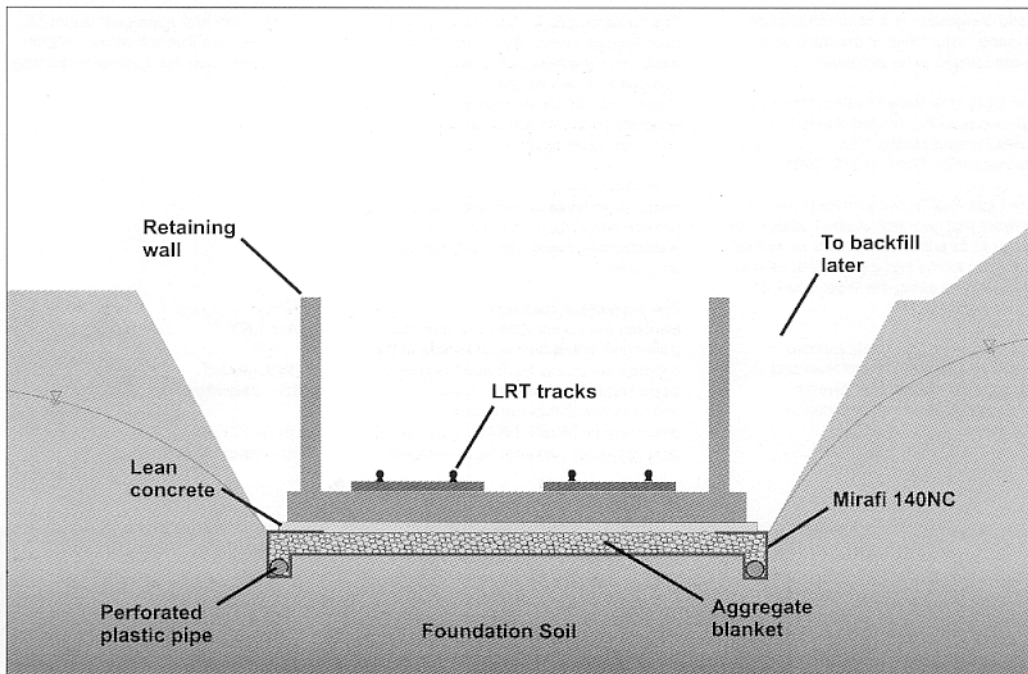
OWNER
Putra LRT

CONSULTANT
HSS Integrated Sdn Bhd

CONTRACTOR
Star - Zaks JV Sdn Bhd



LRT Kuala Lumpur, Malaysia



In Asia contact:

Royal Ten Cate Regional Office
 11th Floor, Menara Glomac
 Kelana Business Centre
 97, Jalan SS 7/2
 47301 Petaling Jaya
 Selangor Darul Ehsan
 Malaysia

Telephone: +60-3-582 8283
 Fax: +60-3-582 8285

In North America contact:

TC Mirafi
 365 South Holland Drive
 Pendergrass
 Georgia 30567
 USA

Telephone: +1-706-693 2226
 Fax: +1-706-693 4400

In Europe contact:

Ten Cate Nicolon Europe
 Sluiskade NZ 14
 Postbus 236
 7600 AE Almelo
 The Netherlands

Telephone: +31-546-544487
 Fax: +31-546-544490