

NEW DELIVERY ORDERS FOR ES RUBBER GASKETS FOR TWO METRO CONTRACTS FOR THE DELHI METRO IN INDIA

ES RUBBER, the specialist designer and manufacturer of precast concrete lining segment gaskets, is please to confirm two new and important delivery orders for contracts on the Delhi Metro in India. The order is secured and will be delivered by the company's Indian representative company **TRIKAUSCH India Pvt. Ltd.**

First order:

Contract CC-18

Design and construction of tunnel by shield TBM, tunnels, stations and ramp by cut-cover method between Motibagh and Lajpat Nagar Stations (both excluding) for underground works on Mukundpur – Yamuna Vihar Corridor of Delhi MRTS Project of Phase-III.

Company in Charge: Pratibha-FEMC JV

Location: Between Motibagh and Lajpat Nagar Stations

Total Length of bored tunnels: 9,220m

No of TBMs: 4

Second order:

Contract CC-23

Design and construction of tunnel between Hauz Khas Station and Kalkaji Station by shield TBM. Tunnel near Chirag Delhi & Kalkaji Stations and underground ramp beyond Kalkaji Station by cut-and-cover method, underground Metro stations at Panchsheel Park, Chirag Delhi, G.K.Enclave-1, Nehru Place and Kalkaji by cut-and-cover method on Janakpuri West-Botanical Garden Corridor of Delhi MRTS Project of Phase-III.

Company in Charge: Pratibha-FEMC JV

Location: Between Motibagh and Lajpat Nagar Stations

Total Length of bored tunnels: 9,080m

No of TBMs: 4





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Diabolo Tunnel



General Data:

Project:

Diablo railway tunnel

Client:

Ways & Freytag Ingenieurbau AG
in joint venture with **Vinci Construction Grand Projects**

Delivery period:

2008 - 2009

Scope of work:

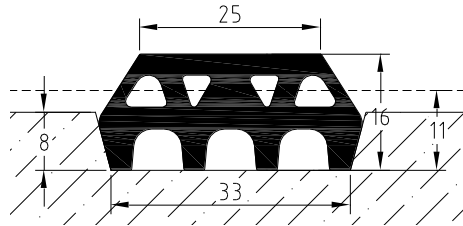
Conversion of the dead-end station at Zaventem Airport, Brussels, into a through station; connection of the station to the new high-speed railway line from Brussels to Antwerp

- 2 TBM-driven tunnels, length: 1,07 km each, external diameter 8,00 m, 1428 rings of 7+1 segments

Sealing method: Maximum hydraulic pressure 2,3 bars,

Test pressure 4,6 bars at worst combination of 5 mm gap and 20 mm offset

Tunnel Flex 33 Plus, Rubber gaskets with 90° Soft corners



Additional information:

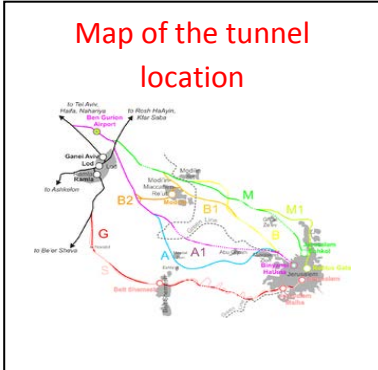
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Tunnel to Jerusalem

Picture of TBM



Map of the tunnel location



General Data:

Project: The fast Tel Aviv - Jerusalem train's railway section Latrun – Sha'ar Hagai (Section B) under Canada Park

Client: **Minrav** in joint venture with **Mosmetrostroj**

Delivery period: 2012 - 2013

Scope of work: High-speed railway line from Tel Aviv to Jerusalem

- 2 TBM-driven tunnels, length: 3,5 km each, external diameter

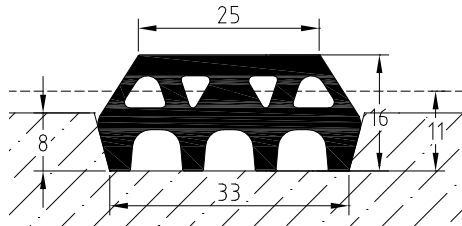
10,0 m, 3600 rings of 6+1 segments

Sealing method:

Maximum hydraulic pressure 5 bars, short rain events

Test pressure 9 bars at the worst combination of 4 mm gap and 15 mm offset

TunnelFlex 33 Plus, Rubber gaskets with 90° Soft corners



Additional information:

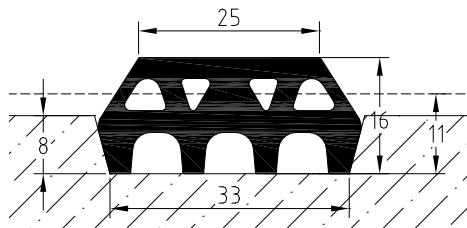
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Sealing method: Maximum hydraulic pressure 5 bars, short rain events

Test pressure 9 bars at the worst combination of 4 mm gap and 15 mm offset

TunnelFlex 33 Plus, Rubber gaskets with 80° and 100° Soft corners



Additional information:

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