

Project:

Haramain High Speed Railway Stations

Location:

Makkah, Jeddah, Rabigh & Madinah

Project completed:

2018

Owner/s:

Saudi Railway Organization.

Applicator/Contractor:

Saudi Bin Laden Group (SBG),
El Seif , Yabi Markazi & Saudi
Oger

Designer/Architect/Specifier:

Foster + Partner
Buro Happold

Market sector:

Railway Stations

Haramain High Speed Railway Stations Phase 1 Package 2



Our reference in western province (Kingdom of Saudi Arabia): Haramain High Speed Railway Stations
Picture Source: Google Maps.

Products used & amounts:

MasterGlenium SKY 504S
MasterGlenium Sky 506
MasterRheobuild 858M
MasterPozzolith RMC4M
MasterSeal Range
MasterEmaco Range
MasterFlow Range
MasterTop Range
Wabo Range
MasterProtect Range
MasterKure Range
MasterBrace Range

The background

The Haramain High-Speed Rail project also known as the "Western railway" or "Makkah-Medina high-speed railway", is a 453-kilometre-long (281 mi) high-speed inter-city rail transport system under construction in Saudi Arabia. It will link the Muslim holy cities of Medina and Mecca via King Abdullah Economic City, King Abdulaziz International Airport, Jeddah, using 449.2 kilometers (279.1 mi) of main line and a 3.75-kilometre (2.33 mi) branch connection to King Abdulaziz International Airport (KAIA). The network will be connected to existing rail transport in Saudi Arabia at Jeddah. The project include 4 stations (Makkah, Jeddah , Rabigh & Madinah)

The challenge

- Four different contactors
- Project Requirements- High performance concrete and finishing Fact
- Geographic extend from Makkah to Madinah
- Design & build project
- General Specifications

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Azizia sewage treatment plant tanks



Our reference in western province (Kingdom of Saudi Arabia): Haramain High Speed Railway Stations
Picture Source: construction site.

Our solution

- High performance admixtures & Glenium range (Glenium Sky 504S, Master Glenium SKY 506, Master Rheobuild 858M & Master Pozzoloth RMC4M) due to the requirements of the project (High flowability and pumpability of concrete. in addition to the high compressive strength concrete
- Specify and submitting our performance flooring system for Basement, Mechanical, electrical and control rooms and car park flooring
- Using our Wabo range for the girders in the stations
- Specify and submitted our Basotect G system as acoustical insulation
- Specify and supply our concrete repair systems (MasterEmaco & MasterFlow range)

The customer's benefit

- An on-site technical assistance and training were provided to ensure the proper application of the proposed systems.
- High performance systems which meet the consultant, contractor and client requirements.
- Work closely with designers as one team to specify the required systems & solutions as per project requirements.
- Swift reply and supply to all urgent calls & requests which is essential in such mega and rush project.

Projects facts at a glance

- The biggest Rail project in western Region.
- Will connect the holy cities together.
- Will be part of the public network to carry the pilgrims.
- Include the biggest carpark in the kingdom.

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