Underground Tunnel Line 1

Quito



Transport von Tübbingen im Werk
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Type of building:

Clients and Developers:
Stadtverwaltung Quito

Engineers/ Specialist Planners:
Acciona Ingemey

Building contractor:
Acciona Odebrecht
https://www.odebrecht.com.ec/

Completion:
2017

Project link:
http://www.metrodequito.gob.ec/

MAX FRANK Spain supplied fibre concrete spacers for the production of precast concrete parts for the Quito subway tunnel. A total of 30 containers were supplied.

The following product properties were essential for the selection of the fibre concrete spacers:

- High loads
- Low water absorption
- Reduced tolerances in the vibrating formwork

The Quito Metro is an underground rail mass transit system consisting of a single line in Quito, the capital of Ecuador.

The length of the underground tunnel of line 1 is 19 kilometres. Three tunnel milling machines worked in parallel on different tunnel openings. Seven different segment moulds were used for tunnel construction, a total of 42. The progress of the machine allowed a laying speed of one ring with seven segments per hour.

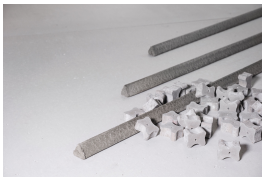
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BUILDING COMMON GROUND MAX FRANK

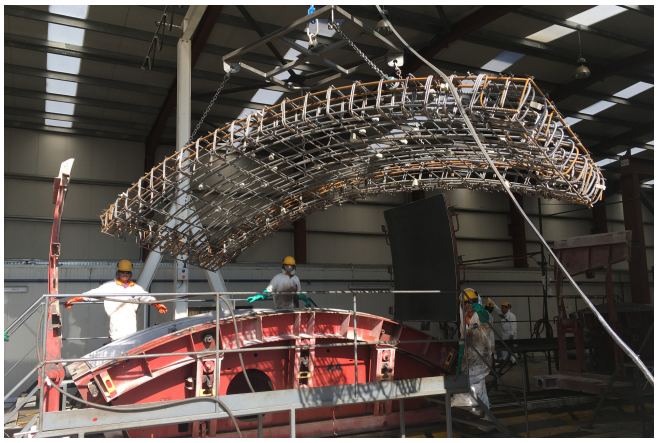
Products used:



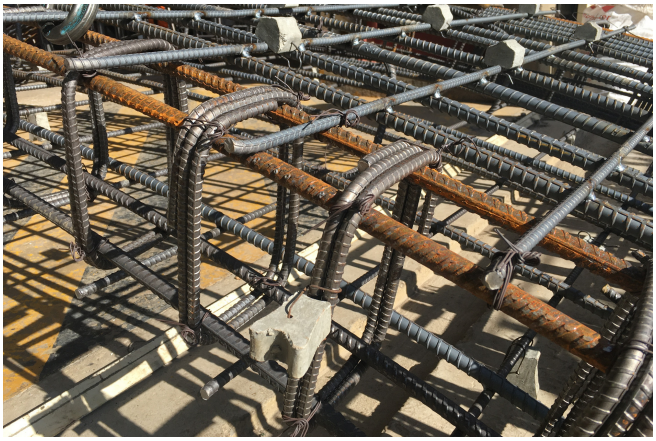
Fibre concrete spacers



Transport of segments in the plant
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Introduction of reinforcement with fixed spacers into the vibrating formwork
© www.maxfrank.com



Fibre concrete spacer with wire and clamp
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Stacked tubbings in the outdoor area
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