

SHEIKH KHALIFA BRIDGE (SAADIYAT BRIDGE PROJECT), ABU DHABI

Facts

City/Country

Abu Dhabi / United Arab Emirates

Client

Tourism Development & Investment Co.
(TDIC), Abu Dhabi

Contract Value

€ 112,11 Mio.

Construction Period

12/2006 - 12/2009 (36 months)

Project Description

Construction of Sheikh Khalifa Bridge a road and railway bridge, incl. foundation, pile caps, piers and superstructure, M+E works, 400 m ramp structure on Abu Dhabi side, road works, dredging and land reclamation (400,000 m³).

| | | |
|---------------------------|-------------------------------|----------------|
| Length of bridge: | 1.455 | m |
| Bridge surface: | 80,000 | m ² |
| Height above ground: | max. 35 | m |
| Largest span: | 200 | m |
| Superstructure: | Box girder | |
| Height of superstructure: | approx. 3.50 m - 10.25 m | |
| Foundation: | Concrete bored piles | |
| Piers: | Solid piers, V-piers (Unit 2) | |
| Bearings: | pot bearings | |

Single spans:

| | |
|---------|--|
| Unit 1: | 8 x 55 m |
| Unit 2: | 110 m - 200 m - 135 m - 70 m - 45 m |
| Unit 3: | 50 m - 50.54 m |
| Unit 4: | 54.456 m - 55 m - 55 m - 45 m - 45 m - 55 m - 45 m |
| Unit 5: | 54.456 m - 55 m - 55 m - 45 m - 45 m - 55 m - 45 m |

Width between railings:

| | |
|---------|---|
| Unit 1: | 3 superstructures with 18.50 m |
| Unit 2: | 3 superstructures with 18.50 m |
| Unit 3: | 1 superstructure with 27.40 m - 76.45 m |
| Unit 4: | 2 superstructures with 14.60 m |
| Unit 5: | 1 superstructure with 9.40 m |
| Unit 6: | 2 superstructures with 13.05 m |

Different construction method: Unit 1: Incremental launching,
Unit 2: Cantilevering and unit 3 - 6: Falsework



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