



River delta crossing

Hong Kong, Macau, China

The Hong Kong–Zhuhai–Macau Bridge is an ongoing construction project which consists of a series of bridges and tunnels that will connect three major cities on the Pearl River Delta in China.

The proposed 50 km link is expected to cost US\$ 10.6 billion (HK\$ 83 billion). The longest bridge section will be 29.6 km (18.4 mi) long and include three cable-stayed spans between 280 m and 460 m (920 m and 1,510 ft).

Construction formally began on 15 December 2009. The bridge is due for completion in late 2016. As corrosion damage would be impractical to repair at a later point in time, duplex stainless steel grade EN 1.4362 was selected for the outer parts of the reinforcement which may be exposed to elevated chloride levels when the carbonation of the concrete advances and cracks develop.



Details

Environment:	Marine
Structural engineers:	HPDI (China Highway Planning and Design Institute)
Owner/developer:	China Government
Fabricator:	Arminox and others
Stainless steel grade:	EN 1.4362
Product type:	Rebar
Dimension:	10 mm to 32 mm
Surface finish:	Ribbed
Total quantity:	about 15,000 t
Producer or supplier:	Roldan (Acerinox group) and others
More information:	cedinox.es