



River delta crossing

Hong Kong, Macau, China

The Hong Kong-Zhuhai-Macau Bridge is a series of bridges and tunnels that connects three major cities on the Pearl River Delta in China.

The longest bridge section is 29.6 km (18.4 mi) long and includes three cable-stayed spans between 280m and 460 m (920m and 1,510 ft). Construction formally began on 15 December 2009. The structure was completed in February 2018.

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