

Macao Bridge

The Macao Bridge is located on the east side of the Friendship Bridge, spans over the Outer Harbour Channel and the Macao Channel. It connects Macao's three important ports of sea, land and air, and is a key node in the construction of Macao's urban transportation system. The bridge not only serves as an important connecting passage between the Artificial Island of the Hong Kong-Zhuhai-Macao Bridge Port, the reclaimed New Urban Zone Area A and Taipa, but also a main traffic artery for residents of New Urban Zone Area A. After the bridge is opened to traffic, it will provide more transportation options for residents and effectively alleviate the traffic pressure on the existing sea-crossing bridges, contributing to the overall sustainable development of the city.

The Macao Bridge is equipped with wind barriers on both sides of the main carriageway to maintain driving conditions by ensuring that the wind speed across the main vehicle lanes of the bridge in typhoon conditions is lower than that corresponding to the typhoon signal No. 8. Dedicated motorcycle lanes are set in the middle of the bridge to avoid cross-driving between motorcycles and other vehicles, ensuring driving safety and reducing traffic risks. At the same time, public facilities such as water, electricity, gas and communications pipelines are laid along the bridge to meet the living and development needs of residents in New Urban Zone Area A.

The Macao Bridge is the first two-way eight-lane sea-crossing bridge in Macao, with a total length of 3.085 kilometres for the main line and a main span of 280 meters. The main structure of the bridge is made of high-performance bridge steel, with a compact, efficient, and lightweight overall structure and a short force transmission path. The design service life of the structure is 100 years. After nearly 10 years of planning and preparation, the construction of the bridge has adopted new materials, new construction processes, new technologies, new equipment, and smart construction management. After the official opening of the bridge, it will not only optimise the travel environment for residents, but also improve the overall regional transportation network in Macao.

As the outlying cross-sea transportation between Macao and Taipa, the bridge becomes the maritime gateway to Macao. With its undulating curves of space truss originating from the soft contours of the waves, combined with its stunning landscape, the bridge will become a new landmark of Macao, adding colour to the city.

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