



Hong Kong Boundary Crossing Facilities – Passenger Clearance Building

Hong Kong - Built

The bridge is a vital project for the Greater Bay Area in southern China, which includes Hong Kong, Macau and nine mainland cities and aims to be a powerhouse of innovation and economic growth like San Francisco, New York and Tokyo. This building serves as a beautiful gateway to Hong Kong and we are honoured to have worked on it.

Keith Griffiths, Chairman, Global Design Principal
Aedas



Location
Hong Kong

Date
2010-2018

Client
Highways Department
Government

Area
98,570m²

Co-Architect
AEDAS (Hong Kong)

Civil Engineer
Aecom

Steelwork & Structural Engineer
Buro Happold

Services Engineer
Aecom

Awards

2019
Hong Kong Institution of Engineers Awards
Grand Award for Structural Excellence



The Hong Kong-Zhuhai-Macao Bridge provides strategic connections between Zhuhai, Macao and Hong Kong. The bridge will foster the flow of people, goods, capital and information and improve the overall connectivity of the Greater Bay Area. The bridge improves transport connectivity within the Greater Bay Area, and greatly reduces travelling time between Hong Kong and other Greater Bay Area cities.

The Passenger Clearance Building (PCB) is built on a new 150-hectare artificial island reclaimed from the open waters to the north-east of Hong Kong International Airport (HKIA) and benefits from the proximity to the HKIA's transport links, including the SkyPier Ferry Terminal, and the MTR's Airport Express and Tung Chung line. It is the new crossing point over the boundary between Hong Kong, Zhuhai and Macao and the facilities serve as a gateway for all those passing through it. The building provides a unique opportunity to give Hong Kong an architectural 'front door' which celebrates travel, surrounded by water with views to a natural skyline of evergreen mountains and hills.

The PCB is constantly filled with movement; buses arrive and leave the public transport interchange, and visitors and residents wait to gain immigration clearance. Careful thought has therefore been put into how users move around the building. The simple, clear circulation through the facility and the undulating flow of surrounding waters is reinforced by the waveform roof, enhancing legibility and providing intuitive wayfinding. The movement through the building is punctuated with full height canyons allowing natural daylight to penetrate all levels of the building and ensure there is a visual connection to the linear roof form to further reinforce clarity of wayfinding.

The elegant modular roof form ideally lent itself to offsite pre-fabrication and has enabled an efficient construction process achieving a very high level of quality. The project is environmentally friendly, aiming to meet the highest standards for new developments and utilise innovative green technologies.