

Organisations Category

Contractor in New Works

Merit Award

Yee Fai Construction Company Ltd.



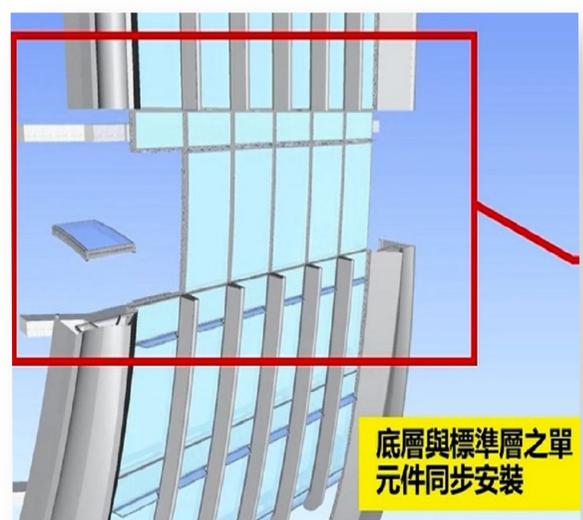
Topside Property Development at West Kowloon Station Express Rail Link - KIL 11262

This project is located at the topside of West Kowloon Station Express Rail Link, with a total construction area of approximately 3.1 million square feet. It consists of 2 commercial towers and retail podium. Diversified sustainable features and healthy elements will be applied in the buildings. It is targeted to achieve six green certifications including BEAM Plus (Platinum), LEED (Platinum), WELL (Platinum), BREEAM (Excellent), CGBL (Three Star) and CHBL (Three Star).



Sustainable Best Practice 1

By using low carbon construction and materials, embodied carbon can be reduced around 22%. Sustainable construction methods have been applied, such as CFT columns, which can achieve a more efficient use of the structural materials and comparatively more compact section size, result in minimising the column area and concrete use. In addition, 25% of pulverised fuel ash (PFA) has been incorporated in a part of concrete. Minimum 20% of regional and recycled material have also been purchased for this project.



Sustainable Best Practice 2

This project adopted Infill Panel for the façade installation. The components of lower level façade and the components of standard floor façade can be installed at the same time, which can highly increase the construction speed as well as reduce construction waste, dust and noise.

Sustainable Best Practice 3

BIM with vCAVE (VR) Platform provide VR display and an immersive experience of the architectural design and construction environment in all construction stages. It can increase the effectiveness of BIM application, finally improve the accuracy of material installation and reduce the risk and cost caused by engineering corrections from design stage to facility maintenance.



Furthermore, VR can simulate different scenarios for seeking the most feasible and safest working procedures, and also the consideration for maintenance of facility management team.