

## ONE RAFFLES LINK



The project comprises a high-tech office building with 2 basements and an integrated subterranean shopping mall linking to the City Hall MRT Station.

The structural design incorporated column-spacing in the region of 18m to 22m in both directions for the office floors, thus offering column-free space specially tailored for international banking and financial sector clients.

The structural system comprised a composite steel floor framing that utilized cellform beams as main girders and standard sections as secondary floor beams together with a composite metal decking. The cellform beams (a development of the castellated section with circular web openings and high shear capacities) were spaced at 9m intervals to reduce the span of the secondary floor beams.



The secondary floor beams were spaced at 3m intervals, permitting the concrete slab to be cast over the metal decking without the need for any propping during construction.



The full-depth cellform beams effectively reduced the steel tonnage and structural dead weight, thus minimizing superstructure and foundation cost. The system also offered maximum flexibility to permit the passing of all building services through the structure, therefore dispensing the need for the usual additional dedicated