

Stacking up

Entire hotel rooms are built and fixtures added overseas, then shipped here to be assembled for the Crowne Plaza Changi Airport hotel extension. This prefabricated pre-finished volumetric construction method allows for strict quality control in factory conditions, and saves time and manpower on-site.

1 The steel structures of the rooms are manufactured in a fabrication plant in Shanghai. In another factory there, the rooms are fitted out and finished, complete with carpet, lights, shelving and even bathtubs.



2 The completed rooms are shipped to Singapore.



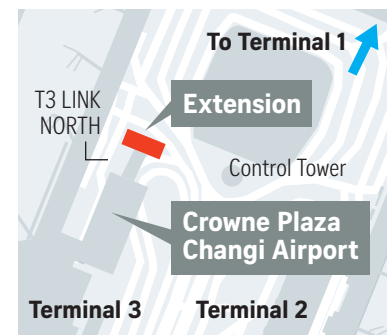
3 The rooms are stacked together and installed on-site.



4 Minister for National Development Lawrence Wong is shown one of the pre-finished rooms that has been installed. The fittings, from carpet to lights, were already present when the room arrived in Singapore.



5 An artist's impression of the 10-storey extension, due to be completed by June.



EXTENSION WING OF CROWNE PLAZA CHANGI AIRPORT HOTEL

Number of rooms

243

Size of each room

28 sq m

PRODUCTIVITY GAINS

40% fewer workers needed on-site

3-4 days

to construct one storey, compared with 14-21 days for conventional methods

Overall productivity boost of about 45%