

28 Chidlom

client SC Asset

period 2015-2019

GFA 53,000m²

architect KPF with Tandem Architects

height 189m

floors 48

contractor YHSi

residential

window wall

GFRC

semi-unitised

Composed of jewel-box lofts, apartments with grand terraces, and duplexes, the residential complex has a unique facade configuration.

The site comprises a 48-story tower and an adjoining 23-story villa. The buildings are surrounded by public and private gardens and pools, and the upper roof levels are dedicated to common facilities including a full length pool and herb garden.

The main facade consists of patterns of repeating 3-storey 2-bay elements that are mirrored, staggered and stretched to produce the unique main elevation.

Each repeat element contains terraces, balustrades, window wall, spandrel glazing, ventilation louvres, integrated drainage, feature cladding, solid unitised panels, soffits, side-hung windows, swing and sliding doors, all bordered by a white, texture painted GFRC band.

Due to the large number of interfaces with adjacent systems and planes a window wall type system was selected as having greater adaptability than a typical curtain wall. The slab faces were clad with matching glass rainscreen elements that

continued the glazing plane but without the split that would have been required for a curtain wall.

Swing doors with integrated concealed closers lead to the lower balconies while the upper balconies are accessed by full height bi-parting sliding doors.

The recessed volume of each 'box' is lined with a vertical side and soffit made from engineered wood slats.

The entrance lobby is enclosed in long span (>9m) steel reinforced aluminium semi-unitised cassettes. The reinforcement consists of lengths of 50mm thick water jet cut steel plate to reduce the mullion size to a minimum.

Apartments without their own terrace are given enhanced outdoor access by means of a 'juliet balcony'. A tall door opens outwards and the user can lean on fixed railings within the door frame depth and admire the views and fresh air.

The window wall including all corners and operable elements of the typical box facade were successfully performance tested at one of the major Singapore test centres.

