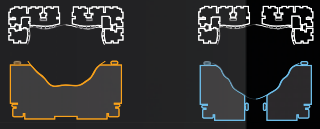


ingenhoven

marina one, singapore • role model for mega cities

Marina One's mixed use towers around a green heart are a human focussed solution for the rapidly growing mega cities within the tropical and sub-tropical climate zones.

Trading Floors
Optimised compact office floor layouts offer maximum flexibility through a column free design. The 100,000 sq. ft. sky bridge is the highest trading floor in the world.



External Sunshading

1.5m wide fixed mesh louvers provide full shading for 90% of the working hours while maintaining a high daylight factor through the use of a perforated mesh material.



highly transparent glass

fixed horizontal louvers

trading floor skybridge 100,000 sqft

typical office floors residential retail

Mixed Use - High Density

Marina One provides 1042 residential units and workspace for 25,000 people. Within the podium, all necessary facilities are provided including arrival lobbies, amenities, retail, restaurants and child care facilities.

Covered Walkway

Covered walkways provide shelter against the tropical sun and heavy rain all around the building.

A continuation of the UPN (underground pedestrian network) connects neighbouring sites and provides a link to major MRT (Mass Rapid Transit / Subway) lines.

Microclimate
The lower bowl shape is informed by aerodynamic studies to enhance the air circulation for a more comfortable microclimate.



sky garden

naturally ventilated fire stairs

sky gardens with lush vegetation serve as fresh air gaps and minimise the impact of down drafts

airflow

Cross Ventilation

sky garden

green heart

biodiversity garden creates a comfortable micro-climate and will serve as the largest public plaza in the CBD.

Rain Water Harvesting

Rain water collected from the multiple roofs, terraces and the façade is used for irrigation.

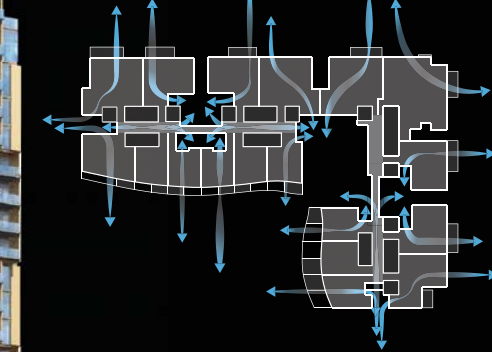
penthouses on upper 3 levels with private roof terraces and gardens

Photovoltaics

PV cells on the roof top generate electricity.

Cross Ventilation

The porous floor plan layout allows for natural cross ventilation for all apartments.



Façade Design for Tropical Climate

The balcony enclosures provide privacy and protection against the high sun while allowing for comfortable air flow through the mesh screen.

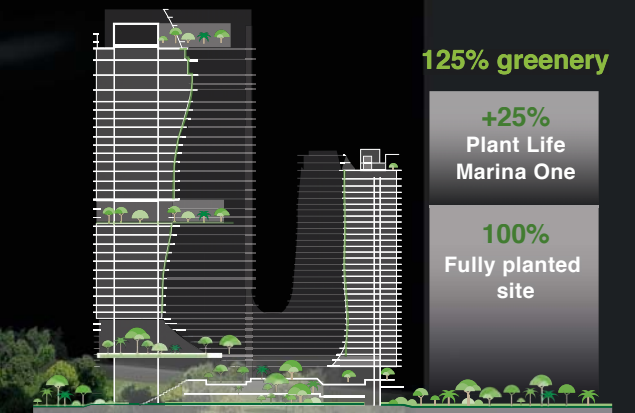


Truly Green

The design provides accessible greenspace equal to 1.25 times the size of the site. The greenery serves as a public sanctuary and mediates the micro-climate.

residential amenity floor with gym, spa, 50m pool, child play area and lush vegetation

podium with retail and residential arrival lobbies



Well Connected

Marina One is directly connected to two major MRT (Mass Rapid Transit / Subway) lines and as such reduces CO2 emissions caused by individual traffic.

Reclaimed Land

By 1990 the land area of Singapore had increased by 8.9% for a total of 633 sq. km. Further growth of the city will result in an additional increase of 25% by 2030. Marina One is the hub of the extended CBD, sitting on reclaimed land.

■ until 1973 ■ 2013

