

PETRONAS TWIN TOWERS

Client *KLCC Holdings Berhad*
Location *Kuala Lumpur City Centre, Malaysia*

Rising above Malaysia's capital city, the Petronas Twin Towers serves as a spectacular national monument, symbolic of Malaysia's progress towards attaining a developed nation status by the year 2020. Standing unraveled against the city skyline, the Petronas Twin Towers are a world landmark in Kuala Lumpur

As part of the Kuala Lumpur City Centre, one of the world's largest commercial developments, and headquarters of Malaysia's national oil corporation, the Petronas Twin Towers were designed to be both efficient and distinctive, combining creativity and functionality in a unique building. Located at the north-west corner of the 100 acre development., the Towers stand majestically at 452 metres, visible for more than 20 kilometres outside the Kuala Lumpur city. The 88 storey Petronas Twin Towers have been acknowledged by the Council of Tall Buildings and Urban Habitat as the tallest buildings in the world.



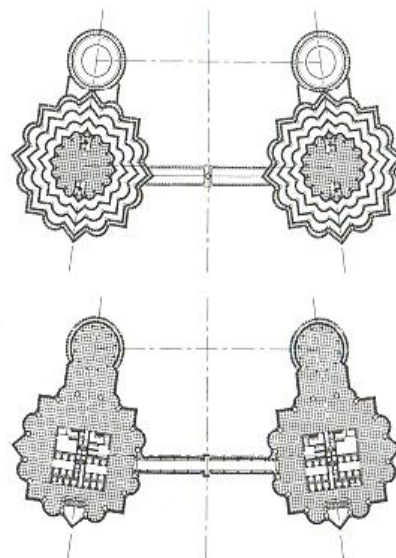
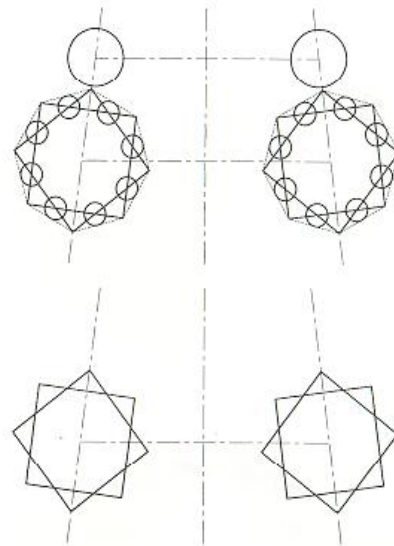
Design Brief

The design brief specified among other things, the efficient utilisation of space, and the ability to accommodate the requirements of a modern buildings information system. In addition, comfort and maintainability had to be taken into consideration to create a pleasant working environment.

Ensuring the client's requirements and local sensitivities including statutory authorities requirements and bye-laws, and timely delivery of the project, ZAPGroup ARCHITECTS Sdn Bhd in association with renowned architect, Cesar Pelli & Associates and a team of consultants, had the task to create and implement the Petronas Twin Towers which is uniquely identifiable with Malaysia, reflecting its Islamic heritage and the fusion of traditional cultural elements with a modern, dynamic image.



The floor plates of the Towers are designed based on geometric patterns common in Islamic architectural heritage. It is composed of two rotated and super-imposed squares with small circular infill.



Project Brief Data

Number of storey	88
Overall height	452 metres above street level
Location of skybridge	Levels 41 and 42
Length of skybridge	58.4 metres
Height of skybridge	170 metres above street level
Vertical transportation	29 Double-deck high speed passenger lifts in each tower.
Number of escalator	10 in each tower
Stainless steel cladding	65,000 square metres
Vision glass	77,000 square metres
Concrete	160,000 cubic metres in superstructures (various strengths up to grade 80)
Steel	36,910 tonnes of beams, trusses and reinforcement
Foundation	4.5 metre (15 feet) thick raft containing 13,200 cubic metres of grade 60 reinforced concrete, weighing approximately 32,550 tonnes under each Tower, supported by 104 barette piles varying from 60 to 115 metres in length.

