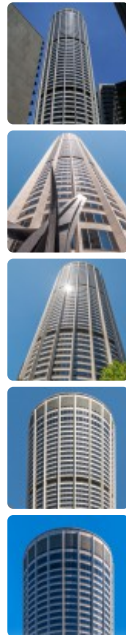


Australia Square Tower

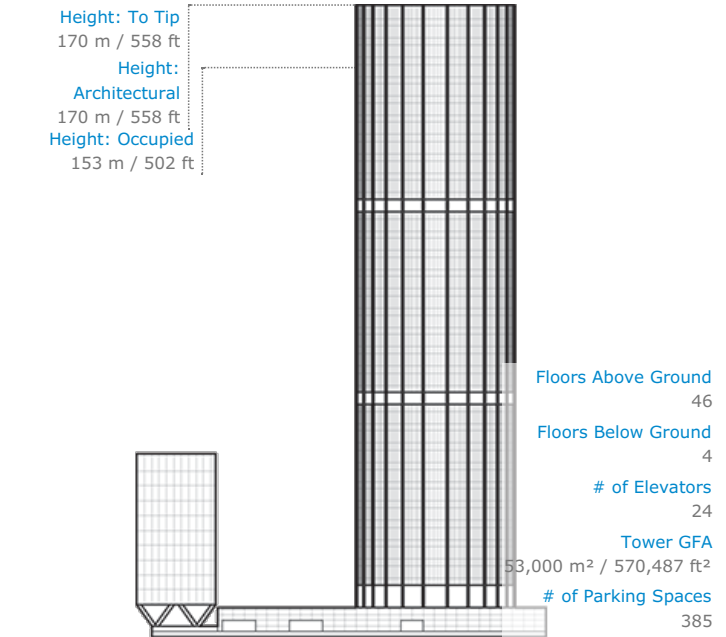


Click an image to view larger version.



Height: To Tip
170 m / 558 ft

Height:
Architectural
170 m / 558 ft
Height: Occupied
153 m / 502 ft



Facts

Official Name	Australia Square Tower
Structure Type	Building
Status	COM
Country	Australia
City	Sydney
Street Address & Map	264 George Street
Postal Code	2000
Building Function	office
Structural Material	concrete
Energy Label	4.5-STAR NABERS
Construction Start	1965
Completion	1967

Companies Involved

Owner	Dexus Property Group; General Property Trust
Architect	<ul style="list-style-type: none"> Design: Harry Seidler and Associates
Structural Engineer	<ul style="list-style-type: none"> Design: Pier Luigi Nervi
Main Contractor	Civil and Civic
Material Supplier	<ul style="list-style-type: none"> Elevator: KONE

About Australia Square Tower

Australia's tallest building upon completion, Australia Square Tower was an innovative structure for its time and was among the tallest all concrete buildings in the world. The building was conceived as a two-building complex occupying an entire city block which required the demolition of nearly 30 previous structures. The taller circular building is positioned at the western end of the block, while a publicly accessible plaza and the companion Plaza Building are positioned to the east. Both structures celebrate concrete as a sculptural material with structural expressionism, the Plaza Building's floorplates are elevated above the ground level, set upon clusters of angled pilotis exhibiting structural load transfers between the building's rectilinear frame and the ground, meanwhile the circular, taller tower has a perimeter of exterior concrete columns, tapering as they rise with curved concrete spandrels between them and a coffered ceiling in the lobby created from a radial ribbed floor system within the concrete floor slab.

During construction, quartz concrete was pre-cast into units of standardized sizes and used not only as a finish of the exterior façade, but also as formwork for the pouring of the reinforced concrete structure, assisting in shorting the construction schedule as the building rose at an average rate of one floor every five days. The circular form of the taller tower with the externalized skeletal structure provided for a highly efficient design achieving a total floor area of 12 times the entire site area, despite a small building footprint occupying only 25 percent of the block, while also providing for a robust resistance to windloads and a high degree of solar shading. Australia Square Tower is one of Sydney's most famous buildings and is integral part of the city's rich architectural heritage.

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