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Gould Street Residential Apartments

Project Location

Gould St, Bondi, NSW

Australia

Atlantis Application

Vertical Garden

Project Overview

Completed in 2016, the Gould Street Residential Apartments project incorporated a green wall and extensive roof garden within the Bondi development. The vertical garden was designed as a main feature of the apartment façade, while the roof incorporated a separately designed extensive planted area.

The green wall covers 50 m² (538 square foot) and incorporates 875 plants. Plant selection was required to withstand the salt-laden winds of Bondi, while the vertical garden incorporated a large volume of growing media and individual plant irrigation. Atlantis Aurora provided the design concepts and installed both the green wall and roof garden.

Technical Summary

Project	Gould Street Residential Apartments
Location	Gould St, Bondi, NSW, Australia
Application	Vertical Garden
Completion	2016
Size	50 m²
Surface Use	Apartment façade and roof
Atlantis System	Gro-Wall® 4.5 - Flo-Cell®

Design Challenge

The development required a vertical garden to form a main architectural feature of the apartment building, together with an extensive roof garden. The landscape elements therefore needed to be incorporated across both the vertical façade and rooftop areas of the development.

The coastal location introduced a specific planting requirement. Plants selected for the green wall needed to withstand the salt-laden winds of Bondi, while providing the intended planted façade. The vertical garden itself required 875 plants across 50 m² (538 square foot), together with individual plant irrigation and the required growing media.

The roof garden incorporated 400 mm planters, with planting arranged across the rooftop area.

01 Create a 50 m² (538 square foot) vertical garden as a main feature of the apartment façade.

02 Incorporate 875 plants within the green wall.

03 Select plants capable of withstanding salt-laden winds at the Bondi location.

04 Provide individual plant irrigation within the vertical garden.

05 Incorporate a large volume of growing media within the green wall system.

05 Integrate an extensive roof garden with 400 mm planters into the development.

Solution

Atlantis Aurora developed the design concepts and installed both the green wall and roof garden for the Gould Street development. The vertical garden was incorporated into the apartment façade as a principal planted feature, covering 50 m² (538 square foot) and containing 875 plants.

The green wall incorporated a large volume of growing media and individual plant irrigation, with the plant selection specifically required to withstand the salt-laden winds experienced at Bondi.

The rooftop landscape was developed as an extensive roof garden, incorporating 400 mm planters. The planting schedule included Raphiolepsis indica 'Snow Maiden', Carpobrotis glaucecens, Dianella caerula 'Little Jess', two Sedum species, Juniperus conferta, Lomandra 'Tanika' and Westingia fruiticosa.

Benefits

- 50 m² (538 square foot) of vertical garden incorporated into the apartment façade.
- 875 plants established within the green wall.
- Plant selection addressed the salt-laden winds of the Bondi location.
- Individual plant irrigation incorporated within the vertical garden.
- Extensive roof garden integrated with the apartment development.
- Roof garden incorporated 400 mm planters and multiple plant species.

Considerations

The green wall installation required coordination of 875 plants across a 50 m² (538 square foot) façade area, together with the system's growing media and individual plant irrigation. Plant selection also needed to account for exposure to salt-laden winds at Bondi.

The roof garden was configured as an extensive planted rooftop area incorporating 400 mm planters. Atlantis Aurora was responsible for the design and installation of the roof garden as well as the green wall.

Project Outcomes

- 50 m² (538 square foot) green wall incorporated into the apartment façade.
- 875 plants installed within the vertical garden.
- Plant selection configured for exposure to salt-laden winds at Bondi.
- Individual plant irrigation incorporated within the green wall system.
- Extensive roof garden incorporated into the development.
- Rooftop landscape configured with 400 mm planters.

The project combined two distinct building-integrated landscape applications: a 50 m² vertical garden containing 875 plants and an extensive roof garden. The green wall design responded specifically to the coastal exposure through plant selection suitable for Bondi's salt-laden winds, while individual plant irrigation and growing media were integrated within the façade installation.

Did You Know?

The Gould Street green wall incorporates 875 plants within 50 m² (538 square foot) of façade area, with plant selection specifically required to withstand Bondi's salt-laden winds.


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Contact Us

Phone Number:
+61 (2) 9417 8344

Website:
www.atlantiscorporation.com.au

Email Address:
info@atlantiscorp.com.au