

Atlantis®
GREEN CITIES FOR LIFE

TAFE Meadowbank

Project Location
NSW, Australia

Atlantis Application

Vertical Garden

Project Overview

The TAFE Meadowbank project incorporated an indoor vertical garden measuring approximately 18,000 mm high × 3,900 mm wide (69 m²). The installation was developed to preserve the intended design while minimising ongoing maintenance within the indoor environment.

Atlantis supplied and installed the Gro-Wall® system, integrating individual drip feeding, large planter trays and custom growing media. Plant selection, growing media and lighting were considered together to support the planted installation and reduce the level of ongoing intervention required.

Technical Summary

Project	TAFE Meadowbank
Location	NSW, Australia
Application	Vertical Garden
Completion	--
Size	69 m²
Surface Use	Indoor Vertical Garden
Atlantis System	Gro-Wall® 4.5

Design Challenge

The project required a substantial 69 m² vertical garden to be integrated within the indoor environment at TAFE Meadowbank. At approximately 18,000 mm high and 3,900 mm wide, the installation needed to maintain the intended vertical garden design while addressing the ongoing maintenance requirements associated with the planted wall.

The planting system also required coordinated consideration of water delivery, root development, growing media and lighting. Each plant needed an individual water supply, while the planter configuration and growing media were selected to support root development and horticultural performance. Plant selection and lighting formed additional components of the overall installation strategy.

01 Provide an indoor vertical garden measuring approximately 18,000 mm high × 3,900 mm wide (69 m²).

02 Preserve the intended design of the vertical garden.

03 Minimise ongoing maintenance requirements.

04 Provide individual drip feeding to each plant.

05 Incorporate planter trays designed to support root development and prevent root bounding.

05 Coordinate plant selection, growing media and lighting for the indoor installation.

Solution

Atlantis supplied and installed a Gro-Wall® vertical garden system tailored for the indoor environment. The system incorporated individual drip feeding, with each plant receiving water directly to support consistent growth without water waste.

Large planter trays were incorporated to encourage root development while preventing root bounding. Custom growing media was selected to support horticultural performance and reduce maintenance requirements.

The installation strategy also incorporated the coordinated selection of plants, growing media and lighting, supporting the approximately 18 m-high planted wall within its indoor environment.

Benefits

- Approximately 69 m² of indoor vertical garden incorporated at TAFE Meadowbank.
- Individual drip feeding provided direct water delivery to each plant without waste.
- Large planter trays incorporated to encourage root development and prevent root bounding.
- Custom growing media selected to support horticultural performance and reduce maintenance requirements.
- Plant selection, growing media and lighting coordinated for the indoor installation.
- Vertical garden design developed to achieve minimal ongoing maintenance.

Considerations

The installation involved an indoor vertical garden approximately 18,000 mm high × 3,900 mm wide, requiring the Gro-Wall® system to be installed across a substantial vertical area.

The planted system incorporated individual drip feeding, large planter trays and custom growing media. Plant selection and lighting were also coordinated with the growing media to support the indoor installation and minimise ongoing intervention.

Project Outcomes

- Approximately 69 m² of indoor vertical garden installed at TAFE Meadowbank.
- Vertical garden configured at approximately 18,000 mm high × 3,900 mm wide.
- Individual drip feeding incorporated for direct water delivery to each plant.
- Large planter trays incorporated to support root development and prevent root bounding.
- Custom growing media selected to support horticultural performance and reduce maintenance requirements.
- Plant selection, growing media and lighting integrated within the indoor vertical garden design.

The defining technical parameter of the installation is its approximately 18 m vertical height, combined with the integration of individual plant irrigation, planter trays, growing media and lighting within a 69 m² indoor planted surface. These elements were coordinated to maintain the intended vertical garden design while minimising ongoing maintenance requirements.

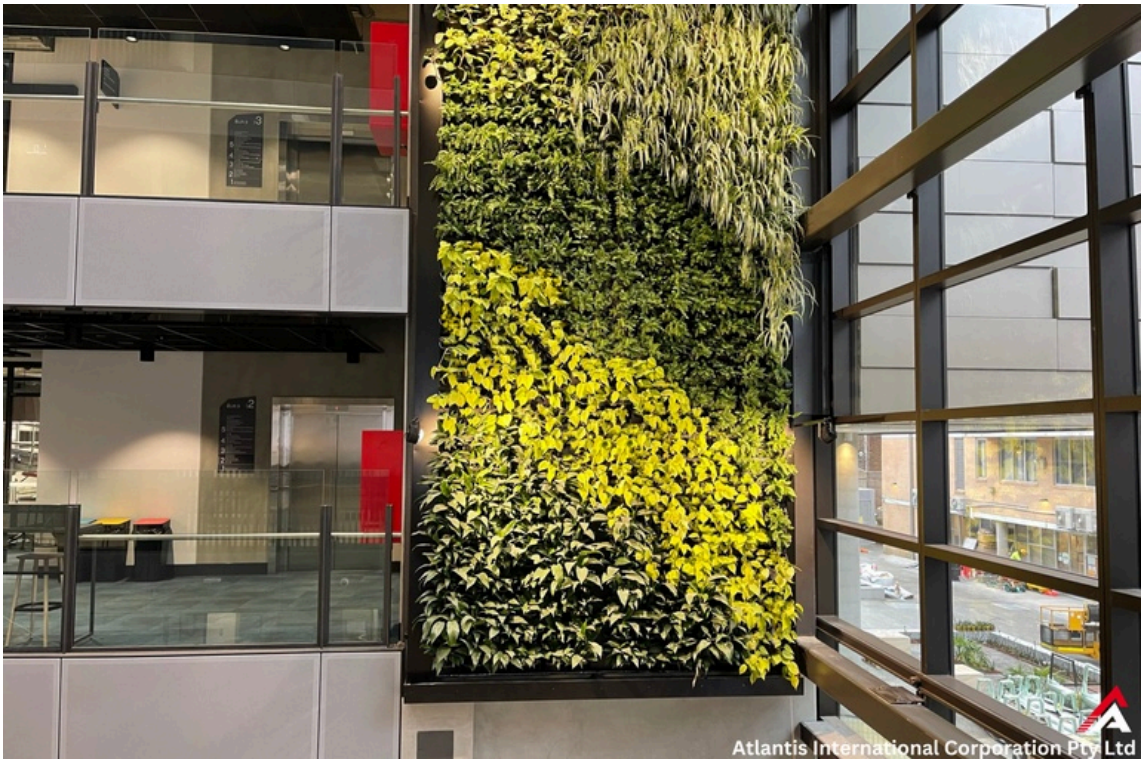
Did You Know?

The TAFE Meadowbank Gro-Wall® installation extends approximately 18,000 mm vertically, with a total planted area of approximately 69 m².


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