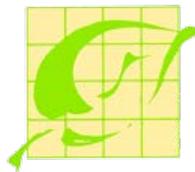
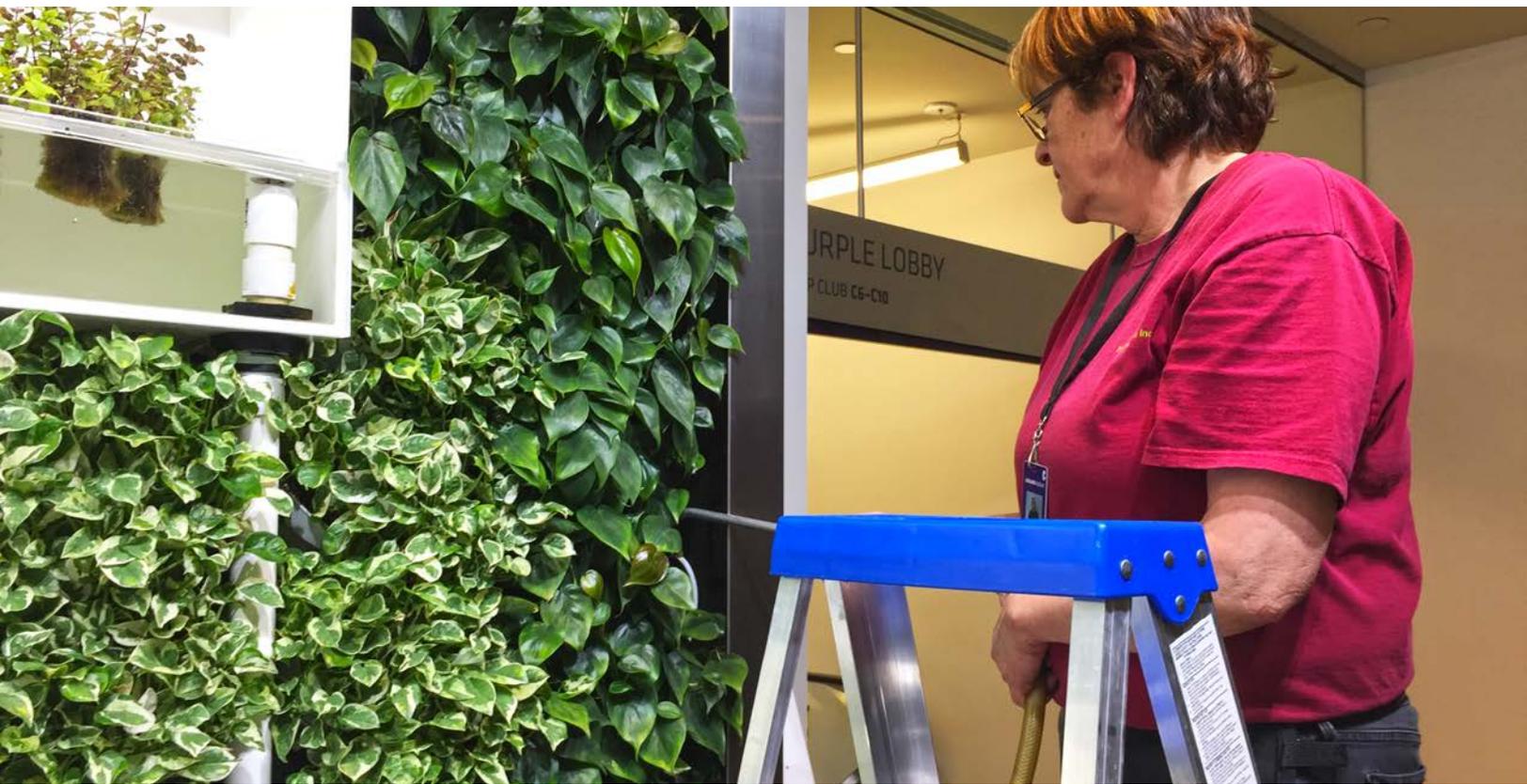




Greenwall Maintenance Program



McCaren Designs, Inc.

760 Vandalia Street
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Green Wall Maintenance Program

Protecting Your Greenwall Investment

Protecting Your Greenwall Investment

By enrolling in our maintenance service, we provide you with the assurance that the value of providing a biophilic connection and your investment in a Greenwall is maintained. Our professional team of Horticulture Technicians are trained to ensure all plants receive proper hydration, the foliage is clean, all pests/ diseases are controlled, and the greenwall continues to perform in an environmentally friendly manner. It is our priority to make the on-going management of your Greenwall as smooth as possible with minimal involvement from yourselves.



Plant Replacement Guarantee

All plants are guaranteed as part of our **Plant Replacement Guarantee** program. We take pride in our beautiful Greenwalls that function as designed.



Greenwall Maintenance Program

Plant Hydration



Providing Correct Hydration

As part of the original design, our team engineers the irrigation system to meet each plant's individual hydration requirements. Our Horticultural Technicians identify and respond to irrigation requirements that change over time as the plants develop and grow. They are trained to adjust the irrigation infrastructure to ensure that the green wall investment is protected.

Each Greenwall has an assigned lead Horticulture Technician. On each service visit, they will develop a deeper understanding of each Greenwall's individual requirements and unique environmental conditions. Experience has proven that the long-term health of a Greenwall depends on an in-depth understanding of the unique environmental conditions of each location. This can only be developed by consistently maintaining a Greenwall by the same Horticulture Technician.



Providing Professional Plant Care

An important element of our service is the pruning and trimming of foliage, both to encourage new growth and to maintain the integrity of the design. The timely removal of dead and dying foliage assures the visual aesthetic and cultural requirements of the plants are being met. It is inevitable that plants will need replacing over time, our Horticultural Technicians are trained to identify and plan for these replacements which are included within our monthly fees.



Pest Identification and Control

Pests are naturally attracted to plants. Our Horticultural Technicians are trained to identify and carefully control pest and diseases before a major infestation takes place. Where possible, we will treat for pest and diseases either by careful pruning and/or using organic treatments. These treatments include the introduction of predators, the use of natural oils and soaps, as well as the manual removal of infected foliage and plants. Without a professional maintenance service, a Greenwall could quickly develop pest and disease problems resulting in plant failure.

We **do not** use pesticides on our Greenwall installations. This ensures that we maintain the integrity of indoor air quality that impacts the health of the building users.



Greenwall Maintenance Program

Foliage Cleaning



Ensure Plants are Clean and Healthy

A significant part of investing into a Greenwall is to improve indoor air quality. Indoor air quality is improved through photosynthesis, transpiration, and respiration of the foliage. An important element of this process relies on the leaves being free of dust and grime to optimally perform at cleaning the air and maintaining healthy growth.

Our trained Horticulture Technicians will regularly clean and groom the plants to ensure that the leaves are dust free to maximize the photosynthesis process and the health of the indoor environment.



Providing Appropriate Plant Nutrition

In a healthy, diverse ecosystem, plants receive their required nutrition through biological nutrient cycle from adjacent plants. Greenwalls do not have the complexity of an established ecosystem due to plants being in their nursery pots. Our trained staff of Horticultural Technicians will implement a feeding program. They will identify early signs of malnutrition and apply appropriate nutrients when they are needed to ensure the Greenwall investment is maintained.



Providing Detailed System Checks and Maintenance

Greenwalls thrive in part due to the system in which the plants are planted in. Our Horticultural Technicians have in-depth knowledge of all of the Greenwall systems that we provide and are trained to identify and fix any problems with the Greenwall infrastructure. Periodic adjustments will need to be made to ensure that irrigation system is calibrated, lighting levels are achieved, and functional/ structural integrity is maintained.



Greenwall Maintenance Program

Plant Warranty



Plant Replacement Guarantee

McCaren Designs will replace at no extra charge any planting specified that fails to meet our high standards.

An integral part of our service is our plant replacement guarantee. It is inevitable that some plants will fail, within our guarantee, you have the peace of mind that these replacement plant costs are inclusive in our monthly fee. Should a change of planting be required, we will consult with the you and make recommendations for alternatives to the equivalent value.





Lighting Requirement Overview

A healthy green wall starts with sufficient lighting that provides a wash of luminance over the entirety of the planting. Sufficient lighting can come in the form of natural daylighting or supplementary artificial light.

To ensure the green wall receives correct light to darkness ratios, 150 - 250 foot-candles (1600 - 2600 lux) shall be maintained at a cycle of 10 - 12 hour of luminance per day. The color temperature shall be within 3500 - 6000 kelvin.

Lighting Specifications

- **Foot Candles:** 150 - 250 foot-candles (1600 - 2600 lux) over the entire surface of the wall
- **Color Temperature:** 3500 - 6000 kelvin
- **Duration:** 10 - 12 hours per day.
- **Light Type:** LED or Metal Halide Lights