

# GREEN LIVING WALL PRODUCT GUIDE

A SUSTAINABLE SYSTEM ENGINEERED FOR FUNCTIONALITY,  
BEAUTY AND HEALTH BENEFITS



**SILENTIUM**  
GROUP INC.

[SILENTIUMGROUPCO.COM](http://SILENTIUMGROUPCO.COM)



## URBAN GREENING

As designers or owners, you incorporate people and the planet at the heart of everything you do. We want to empower your smart designs and help you and your clients achieve your sustainability goals.

At Silentium, our team is on a mission to accelerate green growth by making more solutions available to reach for. Accelerating the shift to net-zero cities requires innovative partnerships across our value chain, which is why we have partnered with experts in horticulture and biodiversity. We are invested in continual development to optimize impact, constructability.

## A SUSTAINABLE SOLUTION

Engineered to meet the needs of your project. Green living walls are a modern approach that combines landscaping with plant life and hardscape infrastructure. These modular systems can be customized to fit various heights and widths, facilitating the vertical integration of plant life, improving the livability in dense urban areas surrounded by concrete.

**From planning to planting, our team will assist you in choosing the right solution that meets all of your needs.**

## APPLICATIONS

**Industrial, Commercial,  
Institutional (ICI)  
Buildings**

**Pedestrian viaducts &  
passageways**

**Transportation**

**Residential & mixed use**







## FEATURES & BENEFITS

### Narrow-footprint, modular systems

- Vertical integration into existing structures.
- Non-obstrusive

### Creates instant privacy and beautification

- Wall systems are fully grown, no growth waiting period

### Contributes to community well-being

- Help offset your building's CO<sup>2</sup> emissions
- Supports building sustainability goals; WELL & LEED certifications
- Contributes to improved mood and health & well being of community

### Supports biodiversity and healthy environments

- Encourages biodiversity attracting birds and valuable insects
- Supports water diversion and aids in stormwater management

### Reduces the "heat island effect" caused by asphalt and pavement

- Lower electricity costs (less air conditioning)
- Decrease heat related illness

### Easy integration

- Engineered for new construction or affixed to existing infrastructure

### Graffiti deterrent

- Eliminates the need for graffiti maintenance

## CARBON CAPTURE

Urban greening exceeds carbon capture of a new planted tree providing leaf coverage on the full surface area while also utilizing a minimal footprint compared to a full grown tree.



Reduces fine dust by

# 40-60%



**3 Sq ft\* of Green Living Wall removes 10 Billion air particulates.**

\*Measured after planting 2 months foliage increase over years of growth not considered in the air quality study providing exponential increases overtime.

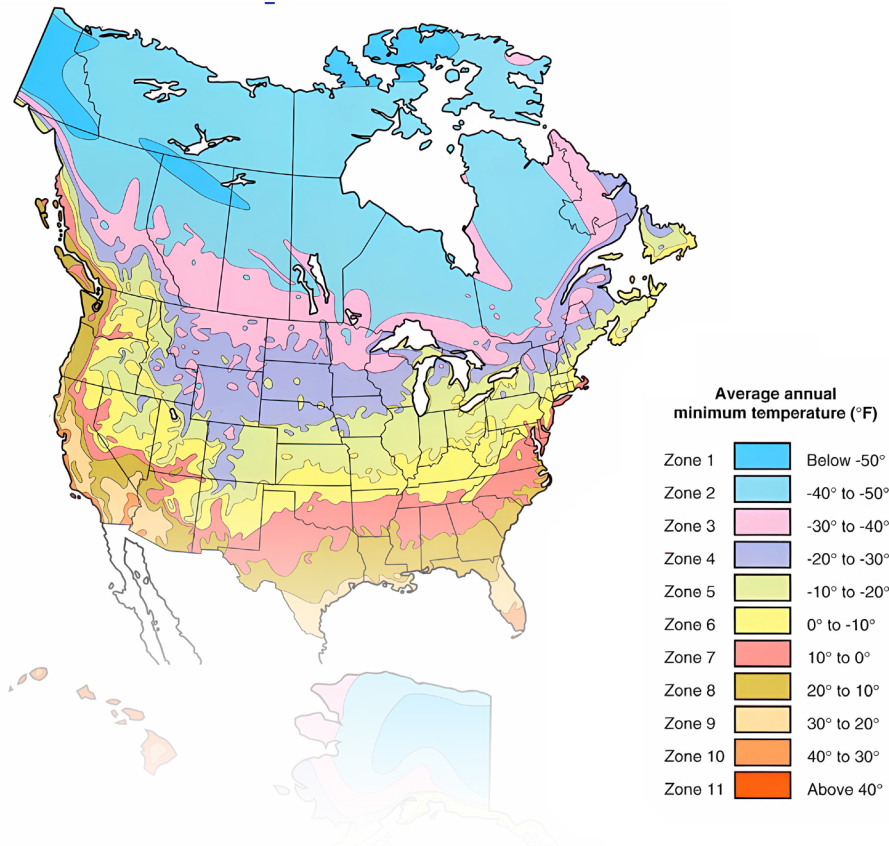


## PLANT SPECIES AND LOCATION

### THE RIGHT PLANT NEEDS THE RIGHT SOIL.

A good foundation is essential for all plants. Depending on your geography and application, your optimal plant species will vary.

Both plant species offered are considered 'Evergreen Ivy' meaning they do not lose foliage in winter conditions maintaining coverage all year round, making them ideal for most of North America.



**HEDERA HELIX  
"WOERNER"**

Much like a typical 'snowbird' this species can withstand cooler temperatures but prefers the warmth in southern regions. **(minimum zone 5)**



**HEDERA HELIX  
"THORNDALE"**

Our hardiest plant species that enjoys the cool temperatures of the north, but can thrive in warmer locations as well. **(minimum zone 4a)**





## NOISE MITIGATION

### Green Living Wall can reduce noise levels

When your project requires optimal acoustic performance, Green Living Infrastructure can be engineered with Silentium's lightweight noise barrier systems, **achieving a STC rating of  $\geq 35$** .



### AN ENGINEERED SOLUTION FROM CONCEPT TO COMPLETION.

Our green living wall systems are completely modular, and can be seamlessly stacked in order to create the exact height and length you require for your project.

Through strong partner collaboration, we are proactively working on future product innovations that will revolutionize the way we live and interact with technology.







**SILENTIUM**  
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An innovation-led group transforming the noise barrier market, Silentium is an alternative source for civil, building and energy construction solutions.

Motivated by tomorrow's challenges, we are a dynamic partner making noise reduction simple, accessible, and sustainable.

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