



Living Wall Design Considerations

When GreenScaped Buildings does a project, after a system has been specified, we procure the planting system, procure the plants, grow the plants into the system (typically for 3-4 months, although some systems do not require grow-in), and install the system (including irrigation). We can also be hired to provide the specialized maintenance and our award-winning service to keep the walls looking beautiful for years to come.

The factors that you will need to review for your project:

- Price:** About \$150 per square foot: may adjust up or down based on the projects' unique conditions. Maintenance will cost a minimum of \$250 per month during the first year. A quote for the monthly maintenance will be provided at the same time as the wall proposal.
- Water:** Where can the irrigation supply connect to and where will the walls drain to? (Is there a planter on the ground under the wall? Is there a drain we can connect a gutter to?) Waterproofing is not typically necessary as the planting systems address this factor.
- Exposure:** What type of light does the wall get? Which direction? How many hours of sun? That will guide what types of plants can be used as well as which system might work best.
- Substructure:** What type of wall are the plants going to hang on (Wood stud, metal stud, concrete block)? Has an engineer been consulted to be sure that the wall can support the additional 25 lbs per square foot of eccentric load?
- Access:** Are there any obstacles in reaching the wall? Can it be accessed with a ladder or special lift? What is directly below the wall? How much open space is there in front of the wall? One (1) permanent and independent 2" drains below each side of the wall tied into the buildings sanitary system. (Not in use with regular operation of the Green Wall irrigation)
- Priorities:** What are the driving factors that will guide your system selection:
- WHY do you want a wall?
 - Wow Factor/ aesthetics
 - Branding
 - Sustainability
 - Functionality
 - Interior or Exterior
 - Commercial or residential/ Public or private application
 - Lead time prior to installation
 - Specific type of plant desired? Edibles?
 - Ability to achieve a specific pattern required
 - Ability to fit around an opening or object
 - Energy / Water consumption limitations



**Typical Recommendations
for Carpentry, Electrical, Lighting,
Plumbing, Edging, Painting, Not Included:**

Carpentry not included (interior wall systems)

- The wall with a minimum of ¾" plywood must be erected and provided by Others for the Green Wall to be mounted to. It is recommended for structural purposes that the studs be on 12" centers or less.

Electrical not included

- One (1) permanent 120VAC 15A GFCI outlet shall be provided where the irrigation controls, valves and fertigation systems will be located- preferably within a restricted access area or valve box in close proximity to the wall.

Lighting not included

- For the basic survival of the plants, a minimum of one hundred fifty (150) foot candles of light must be provided across the entire surface of the wall for a minimum of ten to twelve (10~12) hours per day using natural light or metal halide (or equivalent spectrum) lamps with a color temperature of 4,300K. If lighting design is required, a quotation can be drawn up to provide design, furnish and install the lighting.

Plumbing not included

- ¾" PVC or copper Point of Connection (POC) (70psi, 116psi max) for water for irrigation must be charged at time of installation and equipped with a method to turn on irrigation at wall location and equipped with a ball-valve shut-off. It must be located within 25' of the top of the living wall system.
- Drainage system or gutter must be in place prior to installation
- Backflow Valves, if needed, are not included

Edging not included

- For aesthetic purposes, exposed edges of the living wall system may want to be concealed with an edging/framing element. If edging is desired, a quotation can be drawn up to provide design, furnish and install edging.

Painting not included

- For aesthetic purposes, we recommend that the client, prior to living wall installation, paint the wall that the system will be mounted on in matte black. This allows the wall behind the plants to read as a shadow and recede from the audience's view.



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