THE ELEMENTS ARE SIMPLE
Rigid, lightweight panels are 48 inches wide and 6 ft, 8 ft, 10 ft, 12 ft, 14 ft long and can be installed either vertically, horizontally, wall mounted or freestanding.

In addition to the standard panel, the greenscreen® system of green facade wall products includes the Column Trellis, customized Crimp-to-Curve shapes, panel trims and a complete selection of engineered attachment solutions. Customization and adaptation to unique project specifications can easily become a part of your greenscreen® project. The panels are made from recycled content, galvanized steel wire and finished with a baked on powder coat for durability.
basic elements

greenscreen® is a three-dimensional, welded wire green facade wall system. The distinctive modular trellis panel is the building block of greenscreen.

Modular Panels

Use for covering walls, freestanding fences, screens and enclosures.

Standard Sizes:
- width: 48” wide
- length: 6’, 8’, 10’, 12’, 14’
- thickness: 3” standard

Custom dimensions available in 2” increments, length and width.

See our Accessory Items, Mounting Options and Detail Examples that work together to provide efficient solutions.

Column Trellis

Use as a vertical freestanding element or as a cover for existing posts. Coiled or flat for easy field installation in standard or custom diameters.

Standard Sizes:
- dia: 15½”

Custom heights in 2” increments
- thickness: 3” standard

Planter Options

Planter options are available for a variety of applications and panel heights. Standard 4 ft. wide fiberglass planter units support up to 6’ tall screens, and Column planters work with our standard diameter Column Trellis. Our Hedge-A-Matic family of planters use rectangle, curved and square shapes with shorter screens, for venues like patios, restaurants, entries and decks.

Crimp-to-Curve

Use for curved surfaces, covering walls, freestanding fences, screens, and enclosures.

Standard Sizes:
- radius: standard radius 4 ft to 12 ft at 12” increments
- length: Available in 4’ increments.
- thickness: 3”

Custom radius and lengths available. Width variable in 2” increments.

Custom

Using our basic panel as the building block, we are always available to discuss creative options. Panels can be notched, cut to create a taper, mitered and are available in crimped-to-curve combinations.

Colors

Our standard powder coated colors are; green, black, silver, bronze, and white. Custom colors are available.

Accessories

greenscreen® is a complete trellis system that includes a versatile array of engineered mounting clips for almost every application of panels and columns. Our trims are factory installed before finishing. All clips, posts and caps are finished to match your project colors. Our Accessory Items list, Mounting Options, Detail Examples and Specifications all work together to provide efficient solutions.
Standard sizes
width:  4 ft
length:  6 ft
  8 ft
  10 ft
  12 ft
  14 ft
thickness: 3” standard

Custom Sizes
Available in widths and lengths in 2” increments up to 4 ft x 14 ft

Finish
• baked on powder coat finish over galvanized steel wire
  ~ green
  ~ black
  ~ silver
  ~ bronze
  ~ white
  ~ custom

Accessory Options
trim:  #5104 channel
       #5105 angle

Mounting Hardware
full range available
Wall Mounted Green Facade Trellis Panel

The green screen® trellis system can transform blank concrete or masonry walls into soft-textured, vine covered, seasonally changing surfaces commonly referred to as "green facades." The elements are simple and the possibilities are endless for mounting modular or shaped panels near entries, around windows and in interior courtyards as a living plant matrix that covers all or part of a building facade… the examples are many!

Our system of engineered mounting accessories is designed to hold green screen® trellis panels off the building surface, protecting the building's waterproof membrane from direct plant attachment and transferring the weight of the plants to the screen structure and the wall. Integrate wall mounted green screen® elements into new construction or retrofit to existing buildings with adjustable clips that adapt to uneven surfaces. Panels can be stacked side to side or top to bottom to cover larger areas.
Freestanding Green Facade Wall or Trellis Fence

When used freestanding, greenscreen®’s unique wire truss configuration can span between structural members for use as a security fence, privacy screen, shade element or three-dimensional enclosure. Light in weight, but incredibly strong, greenscreen®’s three inch screen depth “captures” plant material and provides the benefits of a living fence or tapestry that can be enjoyed from both sides. Our engineered mounting accessories match the panel finish and easily adapt to posts for simple fence installations or to more complex frameworks for larger multi-story projects. Working with the 2” modular grid simplifies the design process and ensures accurate field installation.
Standard sizes
width:  4 ft
length:  6 ft
     8 ft
     10 ft
     12 ft
     14 ft
thickness: 3” standard

Custom Sizes
width and length available in 2” increments up to 4 ft x 14 ft

Finish
• baked on powder coat finish over galvanized steel wire
  ~ green
  ~ black
  ~ silver
  ~ bronze
  ~ white
  ~ custom

Accessory Options
trim:  #5104
      #5105

Mounting Hardware
full range available

Getty Museum - Los Angeles, CA
Standard sizes
- diameter: 15½"
- length: 6 ft, 8 ft, 10 ft, 12 ft, 14 ft
- thickness: 3” standard

Custom Sizes
- length available in 2” increments up to 14 ft
- custom diameters available

Finish
- baked on powder coat finish over galvanized steel wire
  ~ green
  ~ black
  ~ silver
  ~ bronze
  ~ white
  ~ custom

Accessory Options
- trimbands

Mounting Hardware
- #5132V Mounting Clips, planter
Column Trellis

Creating column shapes with greenscreen® trellis panels is easy. Our standard Column Trellis is fabricated from a 48” wide panel which gives a 15½” diameter column as our basic building element. We can provide mounting clips or brackets for attaching to your structure and you can choose from our standard radius up to fourteen feet in height or select a custom radius or square column shape that we can build for you. For taller installations, the columns can be stacked. The standard Column Trellis can also be mounted on a fiberglass planter for applications that require self contained units.
Above Ground Planter

For projects that require containers, green screen® trellis panels can be mounted to our stationary planters in multiple configurations. Planters may feature special liners and drainage for irrigation control and are available in a variety of colors and finishes. Standard cylindrical planters coordinate with the Column Trellis and flat, modular panels work with rectangular planters. Custom sizes, shapes, and colors can be made to order depending on your project requirements.

Curved, straight and square shapes used in combinations are featured in our Hedge-A-Matic family of planters, and are available with shorter privacy screens for venues like patios, restaurants, entries and decks.
Crimp-to-Curve
Sometimes a freestanding green screen® trellis needs to describe a curve, echo a building shape or include a gentle overhead arc. We offer green screen® in a variety of standard radiused shapes to enhance your design. Crimp-to-Curve trellis screens can be joined to create long curved fence elements, overhead arcs and to create new forms made with multiple units. The possibilities are endless!

Background information:
- **Standard sizes**
  - width: 4 ft
  - length: Available in 4 in. increments
  - radius: 4 ft
  - 5 ft
  - 6 ft
  - 8 ft
  - 10 ft
  - 12 ft
  - thickness: 3" standard

**Custom Sizes**
- custom radii available

**Finish**
- • baked on powder coat finish over galvanized steel wire
  - ~ green
  - ~ black
  - ~ silver
  - ~ bronze
  - ~ white
  - ~ custom

**Accessory Options:**
- #5105 Steel Edge Trim

**Mounting Hardware**
- full range available

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Custom

Based on a 2" x 2" modular grid, green screen® panels can be easily customized to meet a wide variety of project requirements. The rigid, lightweight, three-dimensional, welded wire panel can be cut at angles, span openings, attach to support frames or be mitered, notched, spliced or curved. In combination with standard or custom edge trims and a full array of engineered mounting hardware, unique applications are limited only by your imagination.

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**Size:**
- up to 4 ft wide and 14 ft long in single pieces.

**Finish**
- standard listed finishes or additional custom colors

**Accessory Options**
- trim: #5104
- #5105
- custom profiles available

**Mounting Hardware**
- full range available, custom clips and brackets available

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Anniversary Park - Hollywood, FL
Geary Street - San Francisco, CA
Anthropologie - Corona, CA
Sacred Heart University - Fairfield, CT
project examples

The following pages illustrate some of the many combinations offered with the greenscreen® green facade wall system.

The “captive growing space” created by the unique greenscreen® panel design promotes vertical plant growth and is an excellent support for maintaining healthy plants. Edge trim can be added at pedestrian areas as a closure strip or at the panel perimeter to provide a reinforced edge for plant maintenance. A variety of colors, finish-matched clips and mounting hardware make it easy to adapt to round or square post systems. greenscreen® panels can be mounted vertically or horizontally between posts and are easily integrated into custom gate openings.

FENCING
Many larger commercial and retail developments require flexible landscape elements to solve a variety of space planning problems. Vertical greenery can easily be achieved with minimal panel and planter depth using freestanding or wall mounted panels. Particular attention should be paid to plant selection, soil volume and initial plant size upon installation to ensure a successful application for opening day. In high-visibility projects, panels can be pre-grown off site, transported and installed to ensure an established landscaped presence.

**MIXED USE**
PARKING STRUCTURES

greenscreen® trellis panels are a proven solution for providing vertical plant greenery on large multi-story buildings such as parking structures. In a tight building-setback situation, greenscreen® requires only a few inches of space to create an effective vertical landscape element. Multi-floor heights can be vegetated from a narrow planting bed that eliminates walkway encroachment or by integrating above grade planters to reach higher elevations.

The panels are easily adaptable for new projects or to retro-fit onto existing buildings. The unique panel construction spans between floors and attaches directly to the building face or to a secondary steel frame. In all cases, the three-dimensional depth of the panel promotes rapid, early growth and long term plant support.
Standard or custom size greenscreen® trellis panels can be mounted either on top or between an overhead steel support structure, providing a light and open feeling until the vines mature and create a cool, shaded sitting area.

HORIZONTAL
SHADING BENEFITS AND LIGHT CONTROL

The greenscreen® green facade wall trellis can be an important part of a building’s environmental control systems. These two highly successful projects use tall greenscreen® trellises as “green facades” built into south-facing structures to create shade and filter summer sun while allowing heat gain and abundant light during winter. The use of vegetation for shade creation can help to minimize building cooling requirements, increase evapotranspiration, mitigate the Urban Heat Island effect and create comfortable outdoor spaces.

National Wildlife Federation Headquarters - Reston, VA

Studios 5C - Tempe, AZ
PEDESTRIAN SCALE

These project examples utilize a narrow panel profile to create flat, freestanding screens or three-dimensional volumes to provide shade and a visual buffer to building surfaces in pedestrian waiting zones and seating areas. Adaptable trims and mounting details are “people friendly” and the strong, rigid, steel wire construction resists potential abuse.

RESIDENTIAL

Freestanding trellis screens can be a dynamic and visually stimulating alternative to fencing in a residential setting. greenscreen® can be used to enhance privacy, provide added security and help maintain easements. Simple installations can use surface mounted panels on a wood frame or connect to a steel post system to create colorful, living tapestries. The possibilities are endless....
greenscreen® installations provide security benefits by controlling access without bars or conventional fencing while simultaneously covering the openings with a lacy leaf texture. The three-dimensional panel construction of the greenscreen® green facade wall system allows spanning between structural members and can be stacked vertically or horizontally to cover larger areas. The 2" x 2" grid, adaptable clips and brackets make installation simple and efficient.

SECURITY

greenscreen® modular wall mounted trellis panels inhibit graffiti action on this 12 foot high parking area wall in a dense urban environment and on a neighborhood school building. A narrow planting bed helps maximize the usable traffic area and the neighborhood enjoys the benefit of a flowering, vine covered solution instead of a monotonous concrete wall. Neighborhood groups and Planning Department officials responded favorably to this alternative.
Outdoor conference areas, hospital healing gardens, intimate outdoor dining areas, security fencing and flowering privacy screens are just some of the ways green screen® has been utilized in rooftop environments. Lightweight panels can be combined with our planters or adapted to existing conditions to provide creative solutions that transform hard-to-utilize rooftop areas into thriving outdoor spaces.

**ROOFTOP GARDENS**
The benefits of three-dimensional, welded steel wire construction are clearly evident in these custom greenscreen® applications. The lightweight, rigid panels can be cut to create unique shapes that can span between structural supports both horizontally and vertically. These projects take advantage of a consistent design theme and solutions oriented approach to provide a durable framework for mature plant material. With the repetition of a custom shape or family of shapes, a unique “project identity” for an installation can be established.
TRANSPORTATION

Transportation projects can benefit from the incorporation of greenscreen®'s green facade wall system. Producing shade, increasing evapotranspiration and providing graffiti abatement are just a few benefits that can be achieved by the use of this design element.

GREEN INFRASTRUCTURE

The possibilities are endless for vertical vegetation in rain gardens, bio-swales and rainwater harvesting projects where planting space is limited. Green facade wall systems can easily be incorporated into stormwater management designs to enhance on site run off requirements.
accessories

Our Accessory Items list will provide your project with the necessary edge trims, mounting clips, straps, posts, and caps to match your specified finishes with maximum flexibility.

To assist with design and product specification we provide additional details, material specifications, engineering data, complete accessory specifications, BIM and CAD details for inserting into working drawings. Also included is a helpful Mounting Options section for use as a guide on typical installations. This additional information is available online at www.greenscreen.com and in our Complete Catalog Binder. Contact us for additional materials or with specific questions.

EDGE TRIMS

Use as a closure strip at edges of greenscreen® panels. Recommended on panel edges adjacent to pedestrian traffic or where edge reinforcement is required for special mounting conditions or long term plant maintenance. #5104 Steel Channel Trim or #5105 Steel Edge Trim can be added to panels in multiple configurations.

MOUNTING CLIPS

A selection of engineered clips and brackets can be used for a variety of project requirements. Examples are on our website. Please contact a greenscreen® Project Manager for more information.

POSTS AND CAPS

Available in matching finishes and custom lengths.

STRAPS, SPACERS AND RINGS

Use for attachment to planters, adapting to uneven surfaces, isolating different building materials, aligning screens and joining screens together in a stacking configuration.
greenscreen® is committed to providing designers, specifiers and contractors with the necessary information to ensure successful projects. From sustainability criteria to Continuing Education Units to recommendations for plant materials, www.greenscreen.com is the essential resource portal for green facade wall technology.

RESOURCES & ENVIRONMENT

Resources for Sustainable Design
LEED®v4 Review (MRc Credits)
Recycled Materials Content Declaration
Sustainable Sites Initiative™ v2 Review

green screen® considers environmental conservation, preservation and protection to be consistent with our overall corporate goals and values as well as an important consideration in our total business activities. It has been and will continue to be a critical green screen® policy to conduct business in an environmentally conscious manner that aims to reduce our impacts and conserve maximum natural resources.

green screen® believes that it is important to identify and promote key initiatives that will help to bring about an awareness of the larger issues of sustainable design, green infrastructure and policy development. To this extent, we are in complete support of the USGBC’s LEED v4 for New Construction and Major Renovations Rating System (November, 2013) and the Sustainable Sites Initiative™: Guidelines and Performance Benchmarks v2 (June, 2014). green screen® will continue to use these guidelines as discussion points to promote, develop and initiate resources for incorporation into best building, management and policy development practices.


green screen® Education Series
Case Studies
Research Reviews

With 20 years of experience and over 6000 installations, green screen® has the technical information and technical expertise that you need to design, specify and integrate green facade walls successfully into your projects. green screen® can provide case study information for specific building types including:

- Health Care
- Government/Civic
- Retail/Mixed Use
- Transportation
- Parking Structures
- Hospitality
- Education
- Commercial

Case studies and PDF project pages can be found on our website under ‘Resources + Downloads’.

Research

green screen® recognizes the vital role of research and continues to underwrite important academic experiments focusing on energy efficiency, stormwater management and integration with green roofs. Our Academic partners include:

- University of Maryland
- British Columbia Institute of Technology
- University of Toronto
- Green Roofs for Healthy Cities

In an effort to help educate our design partners, the green screen® Education Series - Research Reviews presents a series of briefs composed as summaries about important issues supported by international research efforts. Document titles and authors are listed and it is encouraged that the original transcripts be accessed for a complete understanding of methodologies, intent and original research summaries.

Research briefs are available on our website under ‘Education + Research’.
Continuing Educations Units (CEU’s)

Continuing education for design professionals is critical to the health, safety and welfare of the general public and greenscreen® is a regular contributor of CEU’s for online access, in partnership with AECdaily, McGraw Hill Construction, Hanley Wood University and Green Roofs for Healthy Cities. Current and past topics include:

- Considerations for Advanced Green Facade Design
- Greening the Site: Design Options for Sustainability
- Building Products in BIM
- Strategies for More Sustainable Exterior Solutions
- Designing the Building - Landscape Interface
- Introduction to Green Walls

Building Information Modeling (BIM)

The use of BIM goes beyond the design of a project and takes an important role during construction as well as the post construction and facility management phases. BIM impacts the way a construction project is managed with advanced accuracy in construction and a sophisticated design process that provides designers, general contractors and subcontractors from every trade the opportunity to input critical information into the software before the beginning of construction. In an effort to promote integration into BIM software, greenscreen® has created a BIM model family that includes all applications, connections and green building information. These Revit files can be downloaded from our website under the Resources + Downloads tab and accessed from Autodesk SEEK and CADdetails.com. greenscreen® also has models for rendering capabilities in SketchUp for wall mounted and freestanding applications and for planter configurations. These can be downloaded from our website and from the SketchUp 3D Warehouse.

SUSTAINABILITY

Today there is a greater emphasis by society on the protection of the environment and greenscreen® believes that it is both a good business practice and our duty to protect the natural resources of the communities that we serve. greenscreen® has completed two major sustainability initiatives to advance its position as a leader in the industry; an ISO compliant, third party verified product Life Cycle Assessment Report and Model, and a company-wide audit of our sustainability performance. The LCA methodology followed the guidelines and protocols as set forth by ISO 14040 (2006) and ISO 14044 (2006) and by definition, a Life Cycle Assessment is carried out in four distinct phases; Goal and Scope Definition, Inventory Analysis, Impact Assessment and Interpretation Results. The goals of the sustainability performance review were to:

- improve employee sustainability engagement
- measure target market sustainability performance
- conduct Scope 1 and 2 carbon footprint measurement
- completion of EPA Waste Reduction Model (WARM) and voluntary reporting of GHG emissions
- measure, track and report energy and water consumption using the Energy Star project management tool

greenscreen® supports increased product transparency and will continue to endorse the incorporation of a Health Product Declaration (HPD) to conform with the guidelines as set forth by the Health Product Declaration Collaborative and the Living Building Challenge DECLARE program.

Sustainability and Corporate Social Responsibility (CSR) have long been integral components of greenscreen®s philosophy and we are proud to have performance measurement data to back up all aspects of our sustainability story. greenscreen® will use this information to reduce our environmental footprint, make a better place to work, to better serve our community and to deliver the best customer service possible.
Choosing the proper plants for use on greenscreen® panels is an important design consideration and we recommend that a landscape architect, landscape designer or horticulturist be consulted for each specific application to determine appropriate plant choices based upon site conditions.

In addition to hardiness zone, a plant’s growth habit is key to a green facade’s success. greenscreen® is well suited for vines that grow by twining, scrambling, root climbing, adhesive suckering or leaf stem tendrils. Twining vines are strongly recommended for wall mounted applications.

Clematis varieties (Clematis), American Bittersweet (Celastrus scandens) and Jasmine varieties (Trachelospermum) are all good examples of vines with a twining habit. Plants such as Trumpet Creeper (Campsis radicans), English Ivy (Hedera helix) and Cape Honeysuckle (Tecomaria capensis) that climb by the other growth habits may be just as suitable and are recommended for freestanding applications.
Matching the type of greenscreen® installation with a plant’s growth habit will help to ensure the long term success of your project and help to keep maintenance costs down. All plant material requires some maintenance, although some are less maintenance intensive than others. At a minimum, all plant material should receive the following annual applications:

- Pruning
- Fertilization
- Mulch
- Irrigation check

greenscreen® offers additional resources for designers and contractors that are available on the ‘Plants’ tab at www.greenscreen.com:

greenscreen® Recommended Plant List
greenscreen® Guidelines for Green Facade Plant Selection
greenscreen® Guidelines for Green Facade Plant Installation
greenscreen® Guidelines for Green Facade Plant Maintenance

- Honeysuckle - Zones 4-9, Deciduous
- Bougainvillea - Zones 9-11, Evergreen
- Clematis - Zones 5-9, Deciduous
At greenscreen® we are a team of architects and designers with a broad and deep range of experience in urban planning, landscape design and the construction industry. We consult on both small and large scale projects across the continent and around the world, and we’re committed to providing team-oriented design and technical support for your project.

Contact us to discuss greenscreen®’s possibilities and its application to your job. We will answer your questions, review drawings, recommend mounting details, prepare shop drawings, provide price quotes and help you place an order.