

SECTION 097753 – LIVING WALL SYSTEM (ALTERNATE BID)

PART 1- GENERAL

1.1 SUMMARY

A. Scope

1. Work includes furnishing and installing the VerTexx® LivingScreen System; including all mounting components, planting trays, GardenSoxx®, plants, and irrigation components, as designated on the construction drawings and as specified herein (BASIS OF DESIGN).

B. Description

1. The VerTexx® LivingScreen System is made of galvanized wire panels and sturdy planting trays to easily create custom vegetated vertical screens. VerTexx trays hold 5" diameter GardenSoxx units in typical 24" lengths and can be pre-grown with vines to the specified height (typically to the top of the VerTexx Trellis wire panel). The GardenSoxx mesh keeps weed seeds out, and added optional irrigation creates a completely low-maintenance growing system. Typical VerTexx Trellis (wire panel) dimensions are 4' wide x 6' tall with openings of 4" W x 6" T; however, 4' and 8' tall panels are available by special order. The VerTexx LivingScreen System is designed to be installed in accordance with these specifications and the Filtrex installation manual. VerTexx LivingScreens utilize open bottom VerTexx trays along the bottom edge of the wire panel, to allow for roots to grow through, and vines to populate the blank wire above.

1.2 SUBMITTALS

A. Shop Drawings

1. Vertical LivingScreen design, and mounting details.

B. Product Data

1. Material description for all components including; composition, MSDS sheets, manufacturer certifications and installation information for each product specified as part of the system.

C. Planting Plan

1. Plant list with elevation views, approved suppliers, seasonal requirements for planting, fertilization, plant coverage targets, methods of measurement, maintenance agreements.

1.3 DELIVERY, STORAGE, & HANDLING

- A. Check all materials upon delivery for any damage, and to assure the proper materials and quantities have been received.

- B. Protect the materials from damage, as damaged materials shall not be used in the project.

1.4 WARRANTY

- A. Filtrexx provides complete living wall systems. All warranties will be by project specific agreement regarding plants, stewardship and wall coverage targets established for each project.

1.5 MAINTENANCE

- A. Maintenance and care of the vegetated portions of the screen system is essential. The initial and continuing maintenance required will depend on the plantable unit infill, type of vegetation, local weather conditions, and exposure. Filtrexx International may, at its discretion, provide maintenance review visits for the purpose of documenting the progress and condition of the completed system. At such regular visits within the first 24 months from completion, reports will be generated and shared with stakeholders as a tool to facilitate successful grow-out. Any provisions by and for the project owner, in addition to those listed above, such as % plant coverage by calendar date, shall be placed in a separate document and included with the plans and specifications of the project prior to bidding and selection of installer.

PART 2- PRODUCTS

2.1 LIVINGSCREEN SYSTEM MANUFACTURER (BASIS OF DESIGN)

- A. Is VerTexx® LivingScreen System as produced by Filtrexx International:
<http://www.filtrexx.com/en/products/vertexx-walls> ; phone: 314-287-4470 email: livingwalls@filtrexx.com
 - 1. Galvanized Steel Wire Panel product description 4x6 W4.0XW4.0 48" (+1 ½", 1 ½") X 6'-0 (¼", ¼") meeting the following specifications:
 - a. Overall Dimensions: Typically 72" tall or as specified (with 12 spaces @ 6") x 51" (with 12 spaces @ 4")
 - b. Galvanized in accordance with ASTM-A-123 or ASTM-A-153
 - c. Wire Size: 4.0 (0.226 in)
 - d. Wire Fy (Grade): 65 K.S.I (ASTM A1064)
 - 2. Removable Planting Trays
 - a. Injection molded BPA free Polypropylene (may contain recycled content)
 - b. Recyclable
 - 3. GardenSoxx Mesh
 - a. 5" diameter Polypropylene mesh
 - b. Recyclable and BPA free
 - c. Conforming to Filtrexx® patented mesh technology and specifications.

- B. Alternate manufacturers:
1. Vertical Garden Systems
 2. Livewall Living Wall System

2.2 GROWTH MEDIA

A. Use VerTexx® GrowingMedia™ as supplied by Filtrexx in order to facilitate successful grow-out and long-term coverage of the completed wall system. VerTexx® GrowingMedia™ is a specific blend of long fiber Horticultural Grade Canadian Sphagnum Peat Moss, Coarse Horticultural Grade Perlite, and Compost meeting or exceeding Filtrexx® GrowingMedia™ specifications as indicated in the Filtrexx Design Manual; Or be pre-approved custom growing media to meet the needs of the plants to be grown and the region of use. B. VerTexx® GrowingMedia™ blend will meet the following parameters:

1. Total Porosity 50-70%
2. Air Space $\geq 10\%$
3. Available Water 25-35%
4. pH 5.5-7.0

C. Nutrient additions (fertilization) shall be based on lab analysis of the growing media, the needs of the plants specified, and region to be grown.

D. Material is to be delivered in Filtrexx GardenSoxx for precise, modular placement within the VerTexx® LivingScreen System.

3.1 INSTALLATION

A. To be per VerTexx Installation Guides, upon request (314-287-4470 or livingwalls@filtrexx.com) and design manual at <http://www.filtrexx.com/en/livingwalls/home/livingwalls-specs-and-cads>

3.2 PLANTING

A. VerTexx LivingScreens were designed to be pre-planted, grown to the top prior to installation, as supplied by Filtrexx, or planted onsite as specified by the designer. Always consult with the owner and/or their representatives early in the project to determine all responsible parties with regard to plants, planting, nursery time, quantity, design, maintenance, and fertilization.

3.5 TECHNICAL SUPPORT

A. Filtrexx LivingWalls staff is available for specification assistance and jobsite review of various installation stages at 314-287-4470 or e-mail livingwalls@filtrexx.com for information and technical advice. Filtrexx should be contacted at least 14 days prior to the start of construction if technical representatives are needed during the installation process.

END OF SECTION 097753