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Division 32 – Exterior Improvements

Chapter 5 – Technical Construction and  
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## 329500 - Vegetated Roof Assemblies

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## **SECTION 32 9500 - VEGETATED ROOF ASSEMBLIES**

### 1.1 SUMMARY

#### A. Section Includes:

1. Tray-type vegetated roof assemblies.

### 1.2 SUBMITTALS

#### A. LEED Submittals:

1. Product Data for Credit MR 4.1 and Credit MR 4.2: For products having recycled content, documentation indicating percentages by weight of postconsumer and preconsumer recycled content. Include statement indicating costs for each product having recycled content.
2. All selected plants to be native to the region and require no irrigation and do not require active maintenance or chemical input such as fertilizers.

### 1.3 QUALITY ASSURANCE

- #### A. Installer Qualifications:
- A qualified vegetated roof assembly Installer, approved, authorized, or licensed by membrane roofing manufacturer, whose work has resulted in successful establishment of vegetated roofs.

### 1.4 VEGETATED ROOF ASSEMBLY COMPONENTS

#### A. Moisture-Retention and Drainage Products:

1. Moisture-Retention Mat: Manufacturer's standard water-retaining fabric manufactured from recycled synthetic fibers.
2. Molded-Sheet Drainage Panels: Manufacturer's standard drainage board formed from geotextile-faced, molded-plastic sheet with a geotextile face and "cups" of the molded sheet facing upward like small reservoirs to retain water while allowing excess water to drain away below the board.

#### B. Aggregate-Type Moisture-Retention and Drainage Products:

1. Protection Fabric and Drainage Gravel: Manufacturer's standard.

- #### C. Recycled Content:
- Provide moisture-retention mat and root barrier material with recycled content so postconsumer recycled content plus one-half of preconsumer recycled content is not less than 60 percent by weight.

1.5 VEGETATED ROOF ASSEMBLIES

- A. Tray-Type Vegetated Roof Assembly: Modular assembly consisting of manufacturer's standard trays for field-assembly adjacent to and interlocking with each other over membrane roofing.
1. Tray Depth, Nominal: 4 inches.
  2. Assembly Weight: Maximum 15 lb/sq. ft. (73 kg/sq. m), including growing medium and plants and saturated with captured water, but not including weight of roofing system.
  3. Plantings: 'GreenGrid™' recommended design mix of grasses, perennials and groundcovers that will thrive in a non-irrigated, extensive rooftop environment in the Project location. Plants shall be selected according to their USDA hardiness zone classification for New Hampshire. Plants shall be indigenous to New Hampshire or the region and require no special maintenance.
    - a. Minimum Planting Density: Plants shall be supplied in minimum size of 3 inch deep by 1.5 inch wide (plugs) and planted in the green roof modules at a rate of not less than 1 per plant/sq. ft.
    - b. Recommended Planting Density: Plants shall be supplied in minimum size of 3 inch deep by 1.5 inch wide (plugs) and planted 8 inches o.c.

1.6 MANUFACTURED GROWING MEDIA

- A. Growing Medium: Vegetated roof assembly manufacturer's lightweight, manufactured soil mixture designed for plants indicated on Drawings.
1. Manufacturer: Weston Solutions, Inc.

END OF SECTION 32 9500