

## ITEM 610.0301--09 - ESTABLISHING MOSS

### DESCRIPTION

The work shall consist of furnishing, mixing and placing a Moss Establishment Mixture in the areas shown on the plans and/or described in the contract documents or as designated by the Regional Landscape Architect.

### MATERIALS

Materials for the Moss Establishment Mixture shall meet the following requirements.

<b>Moss</b>	§713-06 & as specified in the contract documents
<b>Buttermilk</b>	-----
<b>Water</b>	§712-01

### CONSTRUCTION

#### **General**

**A. Application Season.** Unless otherwise specified in the contract documents or approved by the Regional Landscape Architect, moss application season shall be as follows:

**Spring:** March 15 to May 1

**Fall:** October 15 to December 15

No application shall be done when conditions are unsatisfactory for working as determined by the Engineer.

**B. Delivery.** Regional Landscape Architect shall be notified two weeks prior to delivery of moss and blending of the moss mixture. The Regional Landscape Architect shall be furnished legible copies of the certificates of inspection of mosses (where applicable) and a copy of the invoice for each shipment showing the point of origin, sizes, quantities and kinds of materials provided. Moss which is not healthy or otherwise fails to meet the specifications, as determined by the Regional Landscape Architect, will be rejected. All rejected mosses shall be promptly removed from the project site.

**C. Storage and handling.** Living mosses shall be inspected and approved by the Regional Landscape Architect before blending. All mosses shall be properly protected from damage and drying out. Such protection shall include the time when the plants are in transit, being handled or in temporary storage. All mosses not blended on the day of delivery shall be appropriately watered and properly protected from drying out. Cold storage of the mosses is acceptable.

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### **Preparation**

**Layout.** Surfaces to be coated with Moss Establishment Mixture shall be marked out by the Contractor to the satisfaction of the Regional Landscape Architect before work begins.

### **Application**

**A. Blending.** The "Moss Establishment Mixture" shall consist of equal parts buttermilk and water blended together with the specified mosses to a uniform consistency approved by the Regional Landscape Architect. Ratio of liquids to moss shall be 10 liters each of buttermilk and water for each square meter of thoroughly moist moss. Mosses to be blended in the Moss Establishment Mixture shall consist of species specified in the Supplemental Landscape Specs.

**B. Moistening.** The surfaces on which moss is to be established shall be thoroughly moistened by watering, misting, or another approved method. Soils shall be saturated.

**C. Application.** Moss Establishment Mixture shall be applied evenly across the pre-moistened surface by spraying, pouring, painting, or other approved method at a rate of approximately 3.68 square meters per liter. Moss Establishment Mixture shall be thoroughly mixed before each application and shall not be stored for more than one calendar day.

### **Restoration**

Areas disturbed by moss establishment operations shall be restored as per Standard Specification §611-3.04: Restoration.

### **Care of Applied Mixture**

**A. Watering.** Three days to one week after initial application, all areas covered with Moss Establishment Mixture shall be watered or misted with a fine spray capable of thoroughly moistening the surfaces coated with Moss Establishment Mixture without washing it off. All watering in Moss Establishment area shall occur using this method, unless otherwise directed by the Regional Landscape Architect. Watering frequency thereafter shall be as specified in the contract documents. Watering shall not be done when the air temperature is below 3 Celsius.

**B. Weeding.** Areas where moss mixture has been applied shall be maintained weed-free by methods approved by the Regional Landscape Architect.

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**C. Re-application.** Moss Establishment Mixture shall be made and re-applied during or at the end of the Period of Establishment in areas which do not establish, or are unhealthy or damaged, as determined by the Regional Landscape Architect. Only one re-application to affected areas may be required.

### **Period of Establishment**

**A. General.** The Contractor shall be required to continue the watering specified above for one year following the satisfactory completion of all application of moss establishment mixture on the contract as confirmed in writing by the Engineer, or for the duration of the contract, whichever is later.

**B. Period of Establishment Work Schedule.** The Contractor shall prepare and submit a Care of Moss Work Schedule to the Engineer. The schedule shall describe how and when the care of moss shall be accomplished. The schedule shall be approved by the Regional Landscape Architect prior to the beginning of the period of establishment. The schedule shall be approved by the Engineer prior to the beginning of the Period of Establishment.

**C. Contract Acceptance.** As per §611-3.06 C: Contract Acceptance.

**D. Insurance.** As per §611-3.06 D: Insurance.

**E. Requirements.** At the conclusion of the Period of Establishment the Contractor shall remove any trash, debris, and weeds from the moss establishment area. Moss areas which are in an unhealthy or badly impaired condition, as determined by the Regional Landscape Architect, shall have unhealthy remnants scraped off and a freshly mixed Moss Establishment Mixture shall be re-applied to the surface.

**F. Conclusion of the Period of Establishment.** As per §611-3.06 F: Conclusion of the Period of Establishment.

### **Method of Measurement.**

Establishing moss will be measured as the number of square meters of surface area where Moss Establishment Mixture has been satisfactorily applied.

### **Basis of Payment.**

The unit price bid per square meter shall include the cost of all labor, equipment, materials and incidentals, including water and watering necessary to complete the work as specified.