

Special Specification 5103

Reinforced Grass Paving



1. DESCRIPTION

Furnish and place Reinforced Grass Paving Mats in accordance with the details shown on the plans and the manufacturer's recommendations.

2. MATERIALS

Furnish non-biodegradable plastic cellular mats, designed to contain small areas of soil and enhance the ability of turf to support heavy loads, emergency vehicles, and fire lane access. The mats should be suitable for equestrian activities.

Submit manufacturer's product data and installation instructions to the Engineer for acceptance before placing any material.

Provide base course of sound crushed stone or gravel in accordance with the following sieve analysis:

<u>% Passing</u>	<u>Sieve Size</u>
100	3/4"
85	3/8"
60	#4
30	#40
<3	#200

Base course material may require sand be added (33% by volume) to ensure long term porosity. Should local sources not be available an alternative mixture can be created by mixing 2/3 crushed stone (0.75 in. diameter) with 1/3 sand as available.

Provide sandy loam planting soil mix comprised of sound, sharp, washed, natural sand or crushed stone complying with gradation requirements in ASTM C33 for fine aggregate blended with approved planting soil at a ratio of 50:50.

Furnish seeding type as called out in the plans.

3. CONSTRUCTION METHODS

Construct sandy gravel base course over prepared sub grade in lifts not to exceed 6 in., compacting each lift separately to 95% Modified Proctor free of loose or segregated areas. Provide a smooth surface that conforms to the typical sections, lines, and grades shown on the plans, as directed.

Install the non-biodegradable plastic mats with correct orientation, spacing, and connections, as recommended by manufacturer. Maintain one-inch clearance to any pre-installed object or surface structure. Anchor units placed on curves and slopes to the base course, as required to secure the units in place. Ensure the tops of cells are between 0.25-in. to 0.50-in. below the surface of adjacent hard-surface pavements.

Trim cellular mats, as required, and as recommended by manufacturer, to accommodate irrigation heads.

Remove and replace segments of cellular structure where three or more adjacent cells are broken or damaged, reinstalling as specified, so no evidence of replacement is apparent. Perform cleaning during the installation work and upon completion of the work. Remove excess materials, debris, and equipment from the site. Repair any damage to adjacent materials and surfaces resulting from installation of the mats.

Install specified planting soil in cells as they are laid in sections. Add soil to the cells from an area already filled with soil and spread to fill each cell to the top surface.

Utilize a truck-mounted tank to homogenously mix water, seed, and fertilizer and spray at rate specified in the Landscape plan. Coverage must be uniform and complete. Following germination of the seed, areas lacking germination larger than 8 in. x 8 in. must be reseeded immediately. Seeded areas must be fertilized and kept moist during development of the turf plants.

4. MEASUREMENT

This Item will be measured by the square yard.

5. PAYMENT

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for by the unit price bid for "Reinforced Grass Paving". This price is full compensation for furnishing, hauling, and placing the materials; course base, planting soil, and seeding installed in and under non-biodegradable plastic mats; freight costs; and tools, labor, equipment, and incidentals.