

Bracketed section numbers refer to the 2006 *Standard Specifications*.

Section 88 Geosynthetics

4-8801 General

Section 88, “Geosynthetics,” of the *Standard Specifications* provides material requirements for various types of geosynthetics for use as geosynthetic pavement interlayer, paving mat, paving grid, paving geocomposite grid, geocomposite strip membrane, filter fabric, subgrade enhancement geotextiles (SEG), biaxial geogrids, silt fence fabric, gravel-filled bags, sediment filter bags, and temporary cover for water pollution control.

Geosynthetic pavement interlayer is used as an interlayer in asphalt concrete overlays to minimize surface water infiltration and to minimize reflective cracking through the overlay. Filter fabric is placed between a freely draining aggregate and soil to allow passage of water and to retain fine soil particles. Rock slope protection (RSP) fabric serves the same purpose. As with filter fabric, RSP fabric is placed between rock slope protection and the underlying foundation material. Geocomposite wall drains provide drainage in backfill applications on retaining walls and structure approaches. Geotechnical subsurface reinforcement stabilizes embankments. Subgrade enhancement geotextiles are placed between the pavement and the subgrade providing filtration and separation of the base materials. Biaxial geogrids stabilize the subbase or the base aggregate by interlocking with the apertures in the geogrid.

The following sections of the *Standard Specifications* give geosynthetic placement requirements:

- Section 39, “Hot Mix Asphalt,” includes requirements for placing geosynthetic pavement interlayer.
- Section 68, “Subsurface Drains,” provides requirements for placing filter fabric used with underdrains and edge drains and placement of geocomposite wall drains.
- Section 72, “Slope Protection,” provides specifications for placing RSP fabric.
- Section 19, “Earthwork,” details the requirements for placing subsurface reinforcement and SEG.
- Section 26, “Aggregate Bases,” provides the placement requirements for biaxial geogrids.
- Section 13, “Water Pollution Control,” provides specifications for placing silt fence fabric, gravel filled bags, sediment filter bags, and temporary cover.

4-8802 Before Work Begins

Before work begins, verify that Form CEM-3101, “Notice of Materials to Be Used,” includes geosynthetics. Refer to Section 6-202, “Responsibilities for Acceptance of Manufactured or Fabricated Materials and Products,” of this manual for details.

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4-8802 Before Work Begins

- 4-8803** **4-8803** **During the Course of Work**
During the Course of Work Do not permit the use of geosynthetics until certificates of compliance covering the material have been submitted.
- 4-8804** **4-8804** **Measurement and Payment**
Measurement and Payment Measurement and payment clauses are included in the *Standard Specification* sections or special provisions providing for placement of the various types of engineering fabrics.