02/25/2025

Coordinate with the project geotechnical engineer or engineering geologist and hydraulics on the design in situ soil type and select one of the following cases:

-Case 1: <15 percent of in situ soil passing the No. 200 (0.075 mm) sieve.

-Case 2: 15 to 50 percent of in situ soil passing the No. 200 (0.075 mm) sieve.

-Case 3: >50 percent of in situ soil passing the No. 200 (0.075 mm) sieve.

## Section 714. — GEOSYNTHETIC MATERIAL

Case 1: Include if the project requires geotextile filter with <15 percent of in situ soil passing the No. 200 (0.075 mm) sieve.

**714.01(c) Geotextile filter.** Delete this Subsection and substitute the following:

**(1)** Conform to AASHTO M 288 Table 1, Class 1 (either <50 percent elongation or ≥50 percent elongation) and the following for riprap, special rock embankment, rock buttress, and other high survivability applications:

*(a)* Minimum permittivity, ASTM D4491 0.7 sec-1

(*b)* Maximum apparent opening size, ASTM D4751 0.43 mm maximum average

roll value

*(c)* Minimum ultraviolet stability, ASTM D4355 50 percent strength retained

after 500 hours of exposure

**(2)** Conform to AASHTO M 288 Table 1, Class 2 (either <50 percent elongation or ≥50 percent elongation) and the following for underdrains and other subsurface drainage applications:

*(a)* Minimum permittivity, ASTM D4491 0.5 sec-1

*(b)* Maximum apparent opening size, ASTM D4751 0.43 mm maximum average

roll value

*(c)* Minimum ultraviolet stability, ASTM D4355 50 percent strength retained

after 500 hours of exposure

Case 2: Include if the project requires geotextile filter with 15 to 50 percent of in situ soil passing the No. 200 (0.075 mm) sieve.

**714.01(c) Geotextile filter.** Delete this Subsection and substitute the following:

**(1)** Conform to AASHTO M 288 Table 1, Class 1 (either <50 percent elongation or ≥50 percent elongation) and the following for riprap, special rock embankment, rock buttress, and other high survivability applications:

*(a)* Minimum permittivity, ASTM D4491 0.2 sec-1

(*b)* Maximum apparent opening size, ASTM D4751 0.25 mm maximum average

roll value

*(c)* Minimum ultraviolet stability, ASTM D4355 50 percent strength retained

after 500 hours of exposure

**(2)** Conform to AASHTO M 288 Table 1, Class 2 (either <50 percent elongation or ≥50 percent elongation) and the following for underdrains and other subsurface drainage applications:

*(a)* Minimum permittivity, ASTM D4491 0.2 sec-1

*(b)* Maximum apparent opening size, ASTM D4751 0.25 mm maximum average

roll value

*(c)* Minimum ultraviolet stability, ASTM D4355 50 percent strength retained

after 500 hours of exposure

Case 3: Include if the project requires geotextile filter with >50 percent of in situ soil passing the No. 200 (0.075 mm) sieve.

**714.01(c) Geotextile filter.** Delete this Subsection and substitute the following:

**(1)** Conform to AASHTO M 288 Table 1, Class 1 (either <50 percent elongation or ≥50 percent elongation) and the following for riprap, special rock embankment, rock buttress, and other high survivability applications:

*(a)* Minimum permittivity, ASTM D4491 0.1 sec-1

(*b)* Maximum apparent opening size, ASTM D4751 0.22 mm maximum average

roll value

*(c)* Minimum ultraviolet stability, ASTM D4355 50 percent strength retained

after 500 hours of exposure

**(2)** Conform to AASHTO M 288 Table 1, Class 2 (either <50 percent elongation or ≥50 percent elongation) and the following for underdrains and other subsurface drainage applications:

*(a)* Minimum permittivity, ASTM D4491 0.1 sec-1

*(b)* Maximum apparent opening size, ASTM D4751 0.22 mm maximum average

roll value

*(c)* Minimum ultraviolet stability, ASTM D4355 50 percent strength retained

after 500 hours of exposure

Consult with the project geotechnical engineer or engineering geologist. Include subgrade stabilization geotextile when very soft/weak subgrades require a product with higher reinforcement strength than a typical stabilization geotextile.

**714.01 Geotextile.** Add the following:

**(e) Subgrade stabilization geotextile.** Conform to AASHTO M 288 Table 12, Class 4A Geotextile.