## Section 714. — GEOSYNTHETIC MATERIAL

01 NOV 2024– FP-24

WFL Specification 01 NOV 2024 7140010

Include the following in projects requiring geotextile filter with <15 percent of in situ soil passing the No. 200 (0.075 mm) sieve. Consult with the project geotechnical engineer or engineering geologist, and hydraulics.

### 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

WFL Specification 01 NOV 2024 7140020

Include the following in projects requiring geotextile filter with 15 to 50 percent of in situ soil passing the No. 200 (0.075 mm) sieve. Consult with the project geotechnical engineer or engineering geologist, and hydraulics.

### 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 options:

*(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

WFL Specification 01 NOV 2024 7140030

Include the following in projects requiring geotextile filter with >50 percent of in situ soil passing the No. 200 (0.075 mm) sieve. Consult with the project geotechnical engineer or engineering geologist, and hydraulics.

### 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 options:

*(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

WFL Specification 01 NOV 2024 7140040

Include the following in projects that include subgrade stabilization geotextile. Consult with the project geotechnical engineer. Consider using when very soft / weak subgrades require a product with higher reinforcement strength than a typical soil stabilization geotextile.

714.01 Geotextile**.** Add the following:

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