## Section 714. — GEOSYNTHETIC MATERIAL

01 APR 2025– 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 Geotextile.

Delete Subsection (c) and substitute the following:

**(c) Geotextile filter.**

**(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 Geotextile.

Delete Subsection (c) and substitute the following:

**(c) Geotextile filter.**

**(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 Geotextile.

Delete Subsection (c) and substitute the following:

**(c) Geotextile filter.**

**(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 APR 2025 7140035

Include the following in all projects that require paving geotextile.

### 714.01(d) Paving geotextile.

 Delete this subsection and substitute the following:

**(d) Paving geotextile.** Provide geotextile conforming to AASHTO M 355, Table 1, Type II.

WFL Specification 01 APR 2025 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 11, Class 4A.

WFL Specification 01 APR 2025 7140050

Include the following in all projects that include stabilization geogrid.

### 714.03 Stabilization Geogrid.

 Delete this Subsection and substitute the following:

**Stabilization Geogrid.** Provide biaxial geogrid conforming to AASHTO M 288, Table 11, Class 4C.

WFL Specification 01 APR 2025 714060

Include the following in all projects that include reinforcement geotextile or reinforcement geogrid.

### 714.04 Reinforcement Geotextile and Geogrid.

 Delete the first paragraph and substitute the following:

**Reinforcement Geotextile and Geogrid.** Provide reinforcement geotextile and geogrid conforming to AASHTO M 288 Tables 8 and 9, and Table 714-2.

WFL Specification 01 APR 2025 714070

Include the following in all projects that include geosynthetic reinforced soil reinforcement.

### 714.06 Geosynthetic Reinforced Soil Reinforcement.

 Delete the first paragraph and substitute the following:

**Geosynthetic Reinforced Soil Reinforcement.** Provide reinforcement geotextile or geogrid conforming to AASHTO M 288, Tables 8 and 9, and Table 714-4.