## Section 704. — SOIL

04/02/21–FP14

WFL Specification 04/02/21 7040080

Include the following when Section 255 is required.

### 704.08 Select Granular Backfill.

Delete paragraph (a) and substitute the following:

**(a) Quality requirements.**

**(1)** Gradation Table 704-2

**(2)** Angle of internal friction on the portion passing 34 degree min.

the No. 10 (2 mm) sieve, AASHTO T 236

Note: AASHTO T 236 is not required for material with more than 40% retained on the No. 4 (4.75 mm) sieve. When required, compact samples to 95 percent of the maximum density at +/-2 percent of the optimum moisture content determined according to AASHTO T 99, method A or B without oversized material corrections. Perform testing at confining stresses of 1, 2, 4, and 8 kips per square foot (48, 96, 192, and 384 kilopascals).

**(3)** Soundness of aggregate using sodium sulfate, 15 percent loss max.

AASHTO T 104 (5 cycles)

**(4)** Plasticity index, AASHTO T 90 6 max.

**(5)** Los Angeles abrasion, AASHTO T 96 50 percent max.

Table 704-2

Select Granular Backfill Gradation

|  |  |
| --- | --- |
| **Sieve Size** | **Percent by Mass Passing Designated Sieve****(AASHTO T 27 and T 11)** |
| **Backfill with Geosynthetic Reinforcement** | **Backfill with Metallic Reinforcement** |
| 4 inch (100 mm) | - | 100 |
| 1 ½ inch (37.5 mm)  | 100 | - |
| No. 40 (425 m) | 0-60 | 0 - 60 |
| No. 200 (75 m) | 0.0-15.0 | 0.0 – 15.0 |