Section 4133. Granular Backfill Material

4133.01 DESCRIPTION.

Crushed stone or natural sand and gravel.

4133.02 GRADATION.

Meet the requirements for Gradation No. 32 of the Aggregate Gradation Table, Article 4109.02, except when used as backfill material under flowable mortar or as floodable backfill material.

4133.03 QUALITY.

For crushed stone, meet the requirements of Table 4133.03-1:

Table 4133.03-1: Aggregate Quality (Granular Backfill Material)

Coarse Aggregate Quality	Maximum Percent Allowed	Test Method
Abrasion	55	AASHTO T 96
C Freeze	20	Office of Materials Test Method No. Iowa 211, Method C
Total of Abrasion & C Freeze	65	
Clay Lumps and Friable Particles	4	Materials I.M. 368

4133.04 BACKFILL MATERIAL UNDER FLOWABLE MORTAR.

Use one of the following:

- A. Natural sand complying with the requirements for Gradation No. 1 of the Aggregate Gradation Table, Article 4109.02, with a maximum of 4% passing the No. 200 (75 μm) sieve.
- B. Porous Backfill Material complying with Section 4131.
- C. Floodable Backfill Material complying with Section 4134.
- **D.** Granular Subbase Material complying with Section 4121.