



SECTION 1009

AGGREGATE FOR DRAINAGE

1009.1 Scope. This specification covers material requirements for aggregate as specified for various drainage systems.

1009.2 Quality. All aggregate shall be in accordance with [Sec 1002](#), and shall be of the material and gradation specified herein.

1009.3 Gradation.

1009.3.1 Grade 1. The aggregate shall be sand and shall be in accordance with [Sec 1005.3](#).

1009.3.2 Grade 2. The aggregate shall be a washed sand-gravel mixture in accordance with the following gradation requirements:

Sieve Size	Percent by Weight (Mass)
1-inch (25.0 mm)	100
1/2-inch (12.5 mm)	55-90
No. 10 (2.00 mm)	25-50
No. 40 (425 µm)	10-30
No. 100 (150 µm)	0-10
No. 200 (75 µm)	0-3

1009.3.3 Grade 3. The aggregate shall be gravel, crushed stone or other approved material meeting one of the gradation requirements for [Sec 1005.2](#).

1009.3.4 Grade 4. The aggregate shall be a crushed limestone or dolomite in accordance with the following gradation requirements. Unless otherwise specified, either gradation may be used.

Gradation A	
Sieve Size	Percent by Weight (Mass)
1 1/2-inch (37.5 mm)	100
1-inch (25.0 mm)	95-100
1/2-inch (12.5 mm)	25-60
No. 4 (4.75 mm)	0-10
No. 8 (2.36 mm)	0-5

Gradation B	
Sieve Size	Percent by Weight (Mass)
1-inch (25.0 mm)	100
3/4-inch (19.0 mm)	90-100
3/8-inch (9.5 mm)	20-55
No. 4 (4.75 mm)	0-10
No. 8 (2.36 mm)	0-5

1009.3.5 Grade 5. The aggregate shall be a crushed limestone or dolomite in accordance with the following gradation requirements:

Sieve Size	Percent by Weight (Mass)
1 1/2-inch (37.5 mm)	100
1-inch (25.0 mm)	95-100
1/2-inch (12.5 mm)	60-80
No. 4 (4.75 mm)	40-55
No. 8 (2.36 mm)	5-25
No. 16 (1.18 mm)	0-8
No. 50 (300 μm)	0-5