

Table 1003-18
Gradation for Portland Cement Concrete, Uncrushed
Aggregates

Percent Passing				
US Sieve	Metric Sieve	Size 57M	Size 89M	Size 67
2 1/2 inch	63 mm	—	—	—
2 inch	50 mm	—	—	—
1 1/2 inch	37.5 mm	100	—	—
1 inch	25.0 mm	90-100 ¹	—	100
3/4 inch	19.0 mm	—	100	90-100
1/2 inch	12.5 mm	25-60	90-100	—
3/8 inch	9.5 mm	—	—	20-55
No.4	4.75 mm	0-10	15-60	0-10
No.8	2.36 mm	0-5	0-30 ²	0-5
No. 16	1.18 mm	—	0-5	—
No. 200	75 µm	0-1	0-1	0-1

¹ ASTM C33 No. 57 designation requires 95 – 100.

² ASTM C33 No. 89 designation requires 0 – 15.

1003.08.2.2 Crushed Coarse Aggregate: For crushed coarse aggregate used in all portland cement concrete, except Types B and D gradations, comply with the uncrushed coarse aggregate gradation of 1003.08.2.1, except that when the material finer than the No. 200 (75 µm) sieve consists of the dust fraction from crushing, essentially free of clay, this percentage shall be 0-2 percent. When the total material passing the No. 200 (75 µm) sieve from the coarse and fine aggregates does not exceed 5 percent, the percent passing the No. 200 (75 µm) sieve from the crushed coarse aggregate may be increased to 3 percent.

1003.08.3 Portland Cement Concrete Aggregates - Combined Gradations: For the combined aggregates for the proposed portland cement concrete combined gradation mix, the percent retained based on the dry weight (mass) of the total aggregates shall meet the requirements of Table 1003-19 for the type of concrete specified in Table 901-3.