

TABLE 1 Grading Requirements

Sieve Size	Amounts Finer than Each Laboratory Sieve (Square Openings), weight %				
	CONCRETE		Fine Aggregate		Coarse Aggregate
	Size No. 1		Natural	Manufactured	Size No. 8
3/4-in. (19.0-mm)	100	100	100	100	100
No. 4 (4.75-mm)	95 to 100	100	100	85 to 100	90 to 100
No. 8 (2.36-mm)	80 to 100	95 to 100	70 to 100	10 to 30	20 to 55
No. 16 (1.18-mm)	50 to 85	70 to 100	40 to 75	0 to 10	5 to 30
No. 30 (600- $\mu$ m)	25 to 80	40 to 75	20 to 40	0 to 5	0 to 10
No. 50 (300- $\mu$ m)	10 to 30	10 to 35	10 to 25	...	0 to 5
No. 100 (150- $\mu$ m)	2 to 10	2 to 15	0 to 10	...	...
No. 200 (75- $\mu$ m)	...	...	...	...	...

8. Methods of Sampling and Testing

8.1 Sample and test the aggregate in accordance with the following standards, except as otherwise provided in this specification:

8.1.1 Sampling—Practice D 75.

8.1.2 Grading—Method C 136.

8.1.3 Amount of Material Finer Than No. 200 (75- $\mu$ m) Sieve—Test Method C 117.

8.1.4 Organic Impurities—Test Method C 40.

8.1.5 Effect of Organic Impurities on Strength—Test Method C 87.

8.1.6 Friable Particles—Test Method C 142.

8.1.7 Lightweight Constituents—Test Method C 123.

8.1.8 Soundness—Test Method C 88.

8.1.9 Density—Determine the density of the fine aggregate in accordance with Test Method C 128. Use the bulk specific gravity (saturated surface dry-SSD) determined in the calculation of the air content of the mortars, as required by Specification C 270.

9. Keywords

9.1 aggregate; coarse aggregate; fine aggregate; grout; masonry; sand; soundness

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