

**SECTION 8  
AGGREGATE BASE**

**8-1 GENERAL** - Aggregate Base shall be Class 2, consisting of a crushed material aggregate as specified herein. Recycled Aggregate Base shall meet all the requirements of these Technical Provisions.

**8-2 MATERIALS**

**8-2.1 Quality** - Aggregate furnished for the base shall be hard, sound, durable aggregate of uniform quality free from vegetable matter and other deleterious substances. It shall be of such nature that it can be compacted readily under watering and rolling to form a firm stable base. Aggregate may be delivered with water added.

**8-2.2 Gradation** - The percentage composition by weight of aggregate base shall conform to the following gradation:

Sieve Size	Percentage Passing Sieve	
	1-1/2" Maximum	3/4" Maximum
2"	100	-
1-1/2"	87-100	-
1"	-	100
3/4"	45-90	87-100
No. 4	20-50	30-65
No. 30	6-29	5-35
No. 200	0-12	0-12

**8-3 SPREADING** - Aggregates for base shall be delivered to the roadbed as uniform mixtures and shall be spread in layers or windrows. Segregation of aggregates shall be avoided and material as spread shall be free from pockets of large or fine material. Segregated materials shall be re-mixed until uniform.

Where the required thickness is 0.5 foot or less, the aggregate base may be spread and compacted in one layer. Where the required thickness is more than 0.5 foot, the subbase or base aggregate shall be spread and compacted in two or more layers of approximately equal thickness. The maximum compacted thickness of any one layer shall not exceed 0.5 foot. Each layer shall be spread and compacted in a similar manner.

At locations where the aggregate base is to be placed over areas inaccessible to the spreading equipment, the aggregate subbase or base may be spread and compacted by any means to obtain the specified results.

**8-4 COMPACTING** - The relative compaction of each layer of compacted aggregate subbase or base shall not be less than 95 percent as determined by CA Test Method No. 216 and No. 231 applicable at the time of Work.

**8-5 TOLERANCE** - The finished surface of the aggregate base shall not vary more than 0.05 foot from the specified grade and cross section. Variations within the above-specified tolerances shall be compensating so that the average grade and cross sections specified are met.

Aggregate base which does not conform to the requirements herein shall be reworked, watered and thoroughly re-compacted to conform to the specified requirements.

**8-6 TESTS** - The aggregate base shall conform to the following tests:

Characteristic	CA Test Method	Minimum Requirement
Resistance (R-Value)	301	78
Sand Equivalent	217	22
Durability Index	217	35

The aggregate shall not be treated with lime, cement or other chemical material before the Durability Index is performed.

**8-7 MEASUREMENT** - Measurement shall be by the cubic yard based on the theoretical volume obtained from the planned cross section on the Contract Plans. Volume shall be based on actual field measurement of the horizontal surface of the material placed. No allowance shall be made for aggregate base placed outside of the planned dimensions, unless ordered by the Engineer.

**8-8 PAYMENT** - The Contract unit price per cubic yard shall include all materials, tools, equipment, labor, compacting, water, preparation of recycled material, and incidentals necessary to perform and complete the work as shown on the Contract Plans and as directed by the Engineer, and no additional compensation shall be made therefor.