

1105 - AGGREGATES FOR CEMENT TREATED BASES

SECTION 1105

AGGREGATES FOR CEMENT TREATED BASES

1105.1 DESCRIPTION

This specification covers aggregate for the construction of fly ash and portland cement treated base.

1105.2 REQUIREMENTS

a. Composition. Provide singly or in combination, crushed limestone, crushed dolomite, crushed portland cement concrete pavement (PCCP) reclaimed from the project site and sand or sand-gravel produced from a naturally occurring alluvial deposit.

b. Quality¹. Provide individual aggregates that comply with the following:
Crushed Limestone and Dolomite.

- Soundness², minimum (KTMR-21) 0.85
- Wear³, maximum (AASHTO T 96) 50%

Reclaimed crushed PCCP.

- Soundness², minimum (KTMR-21) 0.85
- Wear³, maximum (AASHTO T 96) 60%

Sand or Sand Gravel.

- Soundness², minimum (KTMR-21) 0.85
- Wear³, maximum (AASHTO T 96)..... 50%

¹ Crushed aggregates with less than 10% material retained on the No. 4 sieve (excluding mineral filler supplements) must be produced from a source complying with the official quality requirements of this Section prior to crushing.

² The above requirements for soundness do not apply for aggregates having less than 10% material retained on the No. 4 sieve.

³ The above requirements for wear do not apply to aggregates having less than 10% material retained on the No. 8 sieve.

c. Product Control.

(1) Size Requirements. Develop a single point aggregate gradation and establish a plus and minus tolerance for each sieve specified in **TABLE 1105-1**. The established tolerances will be applied to the designated single point gradation for the purposes of establishing a gradation band for field acceptance testing. Perform sieve analyses of the aggregates and chart the results. Suspend production of materials when any test result on any sieve falls outside the gradation band.

| TABLE 1105-1: GRADATION OF AGGREGATES FOR CEMENT TREATED BASES (PERCENT RETAINED) | | | | | | |
|--|-------------|-----------|--------------|--------------|---------------|----------------|
| Sieve size | 1 ½" | ¾" | No. 4 | No. 8 | No. 40 | No. 200 |
| Single point | * | * | * | * | * | * |
| Tolerance | * | +/-* | +/-* | +/-* | +/-* | +/-* |

* These values to be established by the Contractor

(2) Deleterious Substances. Provide aggregates that are free from grass, weeds, roots, sticks, and other undesirable foreign matter.

d. Stockpiling. Stockpile and handle aggregates in such a manner to prevent detrimental degradation and segregation, the incorporation of appreciable amounts of foreign material, and the intermingling of stockpiled materials.

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1105.3 TEST METHODS

Test aggregates according to the applicable provisions of **SECTION 1115**.

1105.4 PREQUALIFICATION

Prequalify aggregate sources according to **subsection 1101.4**.

1105.5 BASIS OF ACCEPTANCE

Aggregates covered by this subsection are accepted based on the procedures described in **subsection 1101.5**.