

Section 4111. Class L Fine Aggregate for Portland Cement Concrete

4111.01 DESCRIPTION.

Natural sands resulting from disintegration of rock through erosional processes. Acquire mineral aggregate from an approved source as described in [Materials I.M. 409](#). Use Class L fine aggregate in Class L concrete mixtures as specified in [Materials I.M. 529](#).

4111.02 GRADATION.

Meet the requirements for [Gradation No. 1](#) of the [Aggregate Gradation Table](#), Article 4109.02. No more than 45% is to pass one sieve and be retained on the sieve with the next higher number when the fine aggregate is sieved through the following sieves: No. 4, No. 8, No. 16, No. 30, No. 50, and No. 100 (4.75 mm, 2.36 mm, 1.18 mm, 600 µm, 300µm, and 150 µm).

4111.03 QUALITY.

Meet the requirements of Table 4111.03-1:

Table 4111.03-1: Test Limits and Methods

Fine Aggregate Quality	Test Limits	Test Method
Shale and Coal	2.0% (maximum)	Materials I.M. 344
Mortar Strength	5200 psi (35.9 MPa) (minimum)	Iowa DOT Materials Laboratory Test Method No. Iowa 212