

DIVISION 700 - MATERIALS**SECTION 701 - HYDRAULIC CEMENT**

701.01 Portland Cement. Portland cement shall consist of Type I or Type II portland cement, or Type IP portland-pozzolan cement.

Type I and Type II portland cement shall conform to AASHTO M 85 and the 28-day compressive strength requirement cited in AASHTO M 85, Table 4.

Type IP portland-pozzolan cement shall conform to AASHTO M 240.

Mineral admixtures may be used to replace a portion of the required portland cement in accordance with Subsection 711.03 - Admixtures.

Safe and suitable facilities for sampling cement shall be provided at the weigh hopper or in the feedline immediately in advance of the hopper. Cement shall be stored in a weathertight building that will protect cement from dampness and minimize warehouse set, and stored in such a manner to permit easy access for proper inspection and identification of each shipment.

Cement which for any reason has become partially set or which contains caked lumps shall not be used.

Different types of cement shall not be mixed or used in the same unit of construction. Cement used in the manufacture of cast-in-place concrete for exposed surfaces of like elements of a structure shall be from the same mill.

Certificate of compliance that complies with Subsection 106.07 – Certificate of Compliance shall be submitted to the Engineer before using any cement. Certificate of compliance shall include pertinent information as to the type of cement; and applicable chemical and physical test results from samples taken at local distribution sites or concrete batch plants.

Once certificate of compliance has been accepted, the Engineer may permit use of cement before release by the laboratory. Cement furnished without an accepted certificate of compliance shall not be used until the Engineer has had sufficient time to make appropriate tests and has accepted cement for use.

If cement does not conform to requirements of the contract documents, as determined by laboratory test samples, use of cement from the same source shall be delayed until the Engineer can make tests on each cement lot delivered.

END OF SECTION 701