

PCEI LAB CERTIFICATIONS

ASTM

Hot Mix Asphalt (HMA)

Test No.	Test Description
D1188	Bulk Specific Gravity/Density of HMA Cores (Parafilm® Coated Samples)
D2726	Bulk Specific Gravity/Density of HMA Cores (Saturated Surface Dry Method)
D3203	Percent Air Voids in Bituminous Paving Mixtures

Soil/Aggregate

Test No.	Test Description
C117	Material Finer than No. 200 Sieve for Aggregate
C136	Sieve Analysis of Aggregate
D421	Dry Preparation of Samples
D422	Particle Size Analysis of Soil by Hydrometer
D698	Optimum Moisture and Max Dry Density (Standard Effort)
D854	Specific Gravity of Soils
D1140	Material Finer than No. 200 Sieve for Soil
D1557	Optimum Moisture and Max Dry Density (Modified Effort)
D2166	Unconfined Compression Strength of Soil
D2216	Moisture Content of Soil
D2487	Classification of Soils (Unified System)
D2488	Description and Identification of Soils (Visual/Manual Method)
D4318	Atterberg Limits (Liquid Limit/Plastic Limit)
D6938	Nuclear Density and Moisture

AASHTO

Hot Mix Asphalt (HMA)

Test No.	Test Description
T166	Bulk Specific Gravity/Density of HMA Cores (Saturated Surface Dry Method)
T269	Percent Air Voids in Bituminous Paving Mixtures
T275	Bulk Specific Gravity/Density of HMA Cores (Parafilm® Coated Samples)
T329	Moisture Content of HMA by Oven

Soil/Aggregate

Test No.	Test Description
R58	Dry Preparation of Samples
T11	Material Finer than No. 200 Sieve for Aggregate
T27	Sieve Analysis of Aggregate
T88	Particle Size Analysis of Soil by Hydrometer
T89/T90	Atterberg Limits (Liquid Limit/Plastic Limit)
T99	Optimum Moisture and Max Dry Density (Standard Effort)
T100	Specific Gravity of Soils
T180	Optimum Moisture and Max Dry Density (Modified Effort)
T208	Unconfined Compression Strength of Soil
T265	Moisture Content of Soil
T310	Nuclear Density and Moisture

CALTRANS**Hot Mix Asphalt (HMA)**

Test No.	Test Description
CT-125B	Sampling Hot Mix Asphalt from Roadway Sections and Batch Plants
CT-308	Method for determining Density and Specific Gravity of HMA Cores
CT-375	In-place Density and Relative Compaction of Hot Mix Asphalt

Soil/Aggregate

Test No.	Test Description
CT-125A	Sampling Aggregate, Soil, and Lime from Roadway Sections and Batch Plants
CT-201	Preparation of Soil and Aggregate Samples for Lab Testing
CT-202	Sieve Analysis
CT-204	Plasticity Index
CT-216	Compaction including Max Wet Density and Relative Compaction
CT-226	Moisture Content
CT-231	In-place Density and Relative Compaction of Soil/Aggregate using a Nuclear Gage

Concrete

Test No.	Test Description
CT-125C	Sampling Cement Products from Roadway Sections and Batch Plants
CT-504	Test for Determining Air Content of Freshly Mixed Concrete by the Pressure Method
CT-518	Test for Unit Weight of Fresh Concrete
CT-533	Kelly Ball Penetration test for Concrete Consistency
CT-539	Sampling Freshly Mixed Concrete
CT-540	Method of Making, Handling, and Storing Concrete Compressive Cylinders
CT-556	Slump Test of Concrete Samples
CT-557	Test for Temperature of Fresh Portland Cement

ACI**Concrete**

Test No.	Test Description
C31	Making and Curing Concrete Test Specimens in the Field
C138	Density (Unit Weight), Yield, & Air Content (Gravimetric) of Concrete
C143	Slump Test
C172	Sampling Freshly Mixed Concrete
C173	Air Content of Freshly Mixed Concrete by Volumetric Method
C231	Air Content of Freshly Mixed Concrete by Pressure Method
C1064	Temperature of Freshly Mixed Concrete