



PAVEMENT LAB TESTING

| DESCRIPTION | METHOD |
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| Construction Quality Control / Assurance Laboratory Tests | |
| Percent Asphalt Binder Content (Ignition / Chemical) | CT 382, ASTM D 2172, AASHTO T 308, ASTM D 2172 |
| Extracted Aggregate Gradation (Ignition / Chemical) | CT 202, ASTM D 5444 |
| Bulk Specific Gravity of Cored or Lab Prepared Specimens (SSD / wax) | CT 308, ASTM D 2726/1188, AASHTO T 275/166 |
| Mixture Moisture | CT 370, AASHTO T 329 |
| Hveem Maximum Density | CT 304/308, ASTM D 1561, AASHTO T 247 |
| Hveem Stability | CT 366, ASTM D 1560, AASHTO T 246 |
| Marshall Maximum Density (4- and 6-inch) | ASTM D 6926/5581, ASTM D 5581 |
| Marshall Stability and Flow | ASTM D 6927/5581, AASHTO T 245 |
| Superpave Maximum Density | ASTM D 6925, ASTM D 3387 |
| Theoretical Maximum Specific Gravity (RICE) | CT 309, ASTM T 209, AASHTO D 2041 |
| Reclaimed Asphalt Pavement (RAP) Evaluations | ASTM D 2172, CT LP-9 |
| Wet Track Abrasion (WTAT) for Slurry Seals | ASTM D 3910 |
| Emulsion and Residual Asphalt Binder Content | CT 330, ASTM D 244 |
| Mixture Volumetrics, including air voids (Va), voids-in-mineral aggregate (VMA), voids-filled-with asphalt (VFA), and dust proportions (DP) | ASPHALT INSITUTE CALTRANS |
| Aggregate Quality Tests, including Flat and Elongated, Crushed Particles, Fine Aggregate Angularity, Cleanness Value, Los Angeles Rattler, Sand Equivalent, Fine Aggregate Specific Gravity, Coarse Aggregate Specific Gravity, Sieve Analysis | VARIOUS |
| Mixture Designs | |
| Hveem Method | CT 367 |
| Marshall Method | AI MS-2 |
| Superpave Method | AI SP-2, AASHTO R 35 |
| Cement/Lime-Treated Soil Mix Designs | ASTM D 1632, 1633, 5102 |
| Recycled Asphalt Concrete Pavement Mix Designs | LP-9 |
| Asphalt Mixture Performance Testing | |
| Moisture Susceptibility Testing (Tensile Strength Ratio) | CT 371, AASHTO T 283, ASTM D 4867 |
| Hamburg Wheel Track | AASHTO T 324 |