Consulting Engineering • Testing • Inspection • Analytical Laboratory Services

Employee Owned • Established 1927

CONSTRUCTION MATERIALS TESTING

CTL ENGINEERING INC

CTL ENGINEERING IS A LEADER IN PROVIDING ANALYTICAL SERVICES TO THE CONSTRUCTION INDUSTRY.

We maintain a staff of experienced personnel and accurate equipment to guarantee dependable results. We evaluate all types of construction materials. Additionally, CTL Engineering can prepare and test Portland Cement and bituminous concrete mixes for optimization studies to insure the proper mix design for specific jobs.

CTL Engineering offers petrographic examination of construction materials. These specialized microscopic evaluations allow us to closely evaluate concrete quality and determine the causes and extent of failures in concrete, in addition to potential future performance.

In addition to the standard ASTM tests of strength, absorption, dimensions unit weights etc., CTL Engineering provides several specialty tests on concrete block and brick, including the fire rating test, specified by the BOCA, and efflorescence testing required by many architectural firms.

CTL Engineering also provides complete and thorough analysis of clay products.

CTL ENGINEERING PROVIDES COMPLETE TESTING OF THE FOLLOWING:

AGGREGATES

- Component Analysis (sand, gravel, limestone) - Department of Transportation
- Filter Sand - Environmental Protection Agency (EPA)
- Railroad Ballast - American Railroad Engineering Association
- Rip-Rap - U.S. Soil Conservation Service

SOILS

- Classification
- Compaction Parameters
- Permeability Tests

CONCRETE

- Mix Designs
- Mix Verification Tests to verify strength, air content, consistency, and yield of concrete
- Compression Tests
- Flexural and Split Tensile Strength Tests
- Modulus of Elasticity
- Creep Testing

ASPHALTS

- Mix Designs
- Nuclear Gauge Calibrations Extractions and Grading
- Core Testing and Density of Strength

CLAY-BRICK, PIPE AND TILE

- Compressive Strength
- Absorption
- Freeze-thaw
- Efflorescence
- Dimensional Analysis
- Acid Resistance

IN ADDITION TO THE STANDARD TESTS THAT ARE REQUIRED BY SPECIFICATION, WE PERFORM SPECIFIC TESTS ON CONSTRUCTION MATERIALS AS DICTATED BY THE NEEDS OF THE CLIENT.

www.ctleng.com