



CONCRETE SERVICES

A photograph of several concrete test cylinders, some with handwritten labels like "Gr 1", "5200", and "Q651". The cylinders are arranged on a surface, and the image has a blue tint.

Comprehensively
Broad.
Unparalleled
Service.



Construction Materials Testing (CMT) services is one of the largest business units at Universal. We are fully equipped, professionally staffed and accredited to provide a comprehensive range of soils, aggregates, concrete, asphalt, masonry, fireproofing and coatings- testing and inspection services in our accredited Labs, in the field or at the manufacturer facilities. For more than 20 years our clients have selected us for our considerable depth in qualified personnel, superior performance/ service and extensive experience. Universal provides our clients with the support they need at any location, for any shift or as project needs arise. Our dispatch department is available 24 hours a day, 7 days a week.

Universal's testing facilities are Nationally Accredited and completely out-fitted with state-of-the-art equipment and are rigorously inspected by the National Bureau of Standards and the Cement and Concrete Reference Laboratory, American Association of State Highway and Transportation Officials (AASHTO). Testing and Inspection procedures are performed in accordance with ASTM, ACI, AASHTO, local building codes, project specifications and other applicable standards. Universal is accredited to the highest standards- E329, C1077 and C1093. In addition to our AASHTO Accreditation, we are a Nationally Accredited Special Inspection Agency by the International Accreditation Service (IAS) in 39 categories which furthers our position as leaders. In addition to National Accreditations, locally Universal is licensed by the New York City Department of Buildings (NYCDOB): Concrete Testing Laboratory - License # 37 and Class 1 - Special Inspection Agency - License # 400.

FIELD SERVICES



- Peer Review, Consulting and Program Management
- Comprehensive Field Inspections
- Comprehensive Investigations
- Placement Inspection
- Microwave Testing
- Materials, Source and Plant Verification/ Inspection
- Corrosion and Crack Mapping
- Core Drilling
- Rebar Scanning & Locating- GPR method
- Floor Flatness & Levelness Survey
- Accelerated Aging & Maturity Monitoring
- Nondestructive Testing- Windsor Probes
- Alkali Silica Reaction (ASR)
- Slab Moisture Testing
- Mobile Mixer Calibrations
- Pavement Smoothness and Ride Ability Profiling
- Bond and Pull- Testing of Multiple Sub straights
- NYCDOB BBP Services – Sidewalk Affidavit Service
- Universal has (2) Mobile Labs outfitted in box trucks and is fully equipped to provide a wide-range of services including Compressive Strength Testing for critical projects using high-early mixes for 'real-time' onsite results for quicker road openings or formwork removal



LABORATORY SERVICES

- Compressive Strength (Cylinders, Cubes, Beams, Cores)
- Flexural Strength Testing
- Block / Brick / Prism Testing
- Rapid Freeze Thaw Testing
- Petrographic Analysis Management
- Alkali Silica Reaction (ASR)
- Creep & Shrinkage
- Permeability
- Rate of Absorption
- Chloride Content Determination



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