



SCOPE OF ACCREDITATION

IAS Accreditation Number	TL-200
Company Name	CTL Group
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Accreditation Standard	ISO/IEC 17025:2005

CMT

ASTM C31/C31M	Standard practice for making and curing concrete test specimens in the field
ASTM C39/C39M	Standard test method for compressive strength of cylindrical concrete specimens
ASTM C40/C40M	Standard test method for organic impurities in fine aggregates for concrete
ASTM C42/C42M	Standard test method for obtaining and testing drilled cores and sawed beams of concrete
ASTM C67	Standard test methods for sampling and testing brick and structural clay tile
ASTM C78/C78M	Standard test method for flexural strength of concrete (using simple beam with third-point loading)
ASTM C88	Standard test method for soundness of aggregates by use of sodium sulfate or magnesium sulfate
ASTM C91/C91M	Standard specification for masonry cement
ASTM C109/C109M	Standard test method for compressive strength of hydraulic cement mortars (compression only, using 2-in. or [50-mm] cube specimens)
ASTM C114	Standard test method for chemical analysis of hydraulic cement
ASTM C117	Standard test method for materials finer than 75- μ m (no. 200) sieve in mineral aggregates by washing



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ASTM C123/C123M	Standard test method for lightweight particles in aggregate
ASTM C131/C131M	Standard test method for resistance to degradation of small-size coarse aggregate by abrasion and impact in the Los Angeles machine
ASTM C136/C136M	Standard test method for sieve analysis of fine and coarse aggregates
ASTM C140/C140M	Standard test methods for sampling and testing concrete masonry units and related units
ASTM C142/C142M	Standard test method for clay lumps and friable particles in aggregates
ASTM C143/C143M	Standard test method for slump of hydraulic-cement concrete
ASTM C151/C151M	Standard test method for autoclave expansion of hydraulic cement
ASTM C157/C157M	Standard test method for length change of hardened hydraulic-cement mortar and concrete
ASTM C172/C172M	Standard practice for sampling freshly mixed concrete
ASTM C173/C173M	Standard test method for air content of freshly mixed concrete by the volumetric method
ASTM C185	Standard test method for air content of hydraulic cement mortar
ASTM C186	Standard test method for heat of hydration of hydraulic cement
ASTM C191	Standard test methods for time of setting of hydraulic cement by vicat needle
ASTM C192/C192M	Standard practice for making and curing concrete test specimens in the laboratory
ASTM C204	Standard test methods for fineness of hydraulic cement by air-permeability apparatus
ASTM C215	Standard test method for fundamental transverse, longitudinal, and torsional resonant frequencies of concrete specimens
ASTM C227	Standard test method for potential alkali reactivity of cement-aggregate combinations (mortar-bar method)
ASTM C234	Standard test method for comparing concretes on the



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	basis of the bond developed with reinforcing steel
ASTM C266	Standard test method for time of setting of hydraulic-cement paste by gillmore needles
ASTM C270	Standard specification for mortar for unit masonry
ASTM C289	Standard test method for potential alkali- silica reactivity of aggregates (chemical method)
ASTM C293/C293M	Standard test method for flexural strength of concrete (using simple beam with center-point loading)
ASTM C348	Standard test method for flexural strength of hydraulic-cement mortars
ASTM C403/C403M	Standard test method for time of setting of concrete mixtures by penetration resistance
ASTM C426	Standard test method for linear drying shrinkage of concrete masonry units
ASTM C430	Standard test method for fineness of hydraulic cement by the 45- μm (no. 325) sieve
ASTM C441/C441M	Standard test method for effectiveness of pozzolans or ground blast-furnace slag in preventing excessive expansion of concrete due to the alkali-silica reaction
ASTM C451	Standard test method for early stiffening of hydraulic cement (paste method)
ASTM C457/C457M	Standard test method for microscopical determination of parameters of the air-void system in hardened concrete
ASTM C469/C469M	Standard test method for static modulus of elasticity and poisson's ratio of concrete in compression
ASTM C482	Standard test method for bond strength of ceramic tile to Portland cement paste
ASTM C497	Standard test methods for concrete pipe, manhole sections, or tile
ASTM C512	Standard test method for creep of concrete in compression
ASTM C617/C617M	Standard practice for capping cylindrical concrete specimens
ASTM C641	Standard test method for iron staining materials in lightweight concrete aggregates



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ASTM C702/C702M	Standard practice for reducing samples of aggregate to testing size
ASTM C780	Standard test method for preconstruction and construction evaluation of mortars for plain and reinforced unit masonry
ASTM C856	Standard practice for petrographic examination of hardened concrete
ASTM C947	Standard test method for flexural properties of thin-section glass-fiber-reinforced concrete (using simple beam with third-point loading)
ASTM C1018	Standard test method for flexural toughness and first crack strength of fiber-reinforced concrete (using beam with third-point loading)
ASTM C1019	Standard test method for sampling and testing grout
ASTM C1038/C1038M	Standard test method for expansion of hydraulic cement mortar bars stored in water
ASTM C1064/C1064M	Standard test method for temperature of freshly mixed hydraulic cement concrete
ASTM C1077	Standard practice for agencies testing concrete and concrete aggregates for use in construction and criteria for testing agency evaluation
ASTM C1116/C1116M	Standard specification for fiber-reinforced concrete
ASTM C1152/C1152M	Standard test method for acid-soluble chloride in mortar and concrete
ASTM C1202	Standard test method for electrical indication of concrete's ability to resist chloride ion penetration
ASTM C1222	Standard practice for evaluation of laboratories testing hydraulic cement
ASTM C1260	Standard test method for potential alkali reactivity of aggregates (mortar-bar method)
ASTM C1314	Standard test method for compressive strength of masonry prisms
ASTM C1324	Standard test method for examination and analysis of hardened masonry mortar
ASTM C1357	Standard test methods for evaluating masonry bond strength



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ASTM C1388	Standard test method for compressive strength of laboratory constructed masonry prisms
ASTM C1567	Standard test method for determining the potential alkali-silica reactivity of combinations of cementitious materials and aggregate (accelerated mortar-bar method)
ASTM C1581/C1581M	Standard test method for determining age at cracking and induced tensile stress characteristics of mortar and concrete under restrained shrinkage
ASTM C1609/C1609M	Standard test method for flexural performance of fiber-reinforced concrete (using beam with third-point loading)
ASTM D4791	Standard test method for flat particles, elongated particles, or flat and elongated particles in coarse aggregate
ASTM E518/E518M	Standard test methods for flexural bond strength of masonry
ICC ES AC32	Concrete with synthetic fibers (test methods referenced in section 4.0)
ICC ES AC218	Cement-based matrix fabric composite systems for reinforced and unreinforced masonry (test methods referenced in sections 3 and 4 (except sections 4.1, 4.2 and 4.6))

Physical

ASTM C29/C29M	Standard test method for bulk density ("unit weight") and voids in aggregate
ASTM C127	Standard test method for relative density (specific gravity) and absorption of coarse aggregate
ASTM C128	Standard test method for relative density (specific gravity) and absorption of fine aggregate
ASTM C138/C138M	Standard test method for density (unit weight), yield, and air content (gravimetric) of concrete
ASTM C177	Standard test method for steady-state heat flux measurements and thermal transmission properties by means of the guarded-hot-plate apparatus
ASTM C187	Standard test method for amount of water required for normal consistency of hydraulic cement paste



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ASTM C190	Method of test for tensile strength of hydraulic cement mortars
ASTM C231/C231M	Standard test method for air content of freshly mixed concrete by the pressure method
ASTM C232/C232M	Standard test method for bleeding of concrete
ASTM C496	Standard test method for splitting tensile strength of cylindrical concrete specimens
ASTM C535	Standard test method for resistance to degradation of large-size coarse aggregate by abrasion and impact in the Los Angeles machine
ASTM C566	Standard test method for total evaporable moisture content of aggregate by drying
ASTM C567/C567M	Standard test method for determining density of structural lightweight concrete
ASTM C596	Standard test method for drying shrinkage of mortar containing hydraulic cement
ASTM C642	Standard test method for density, absorption, and voids in hardened concrete
ASTM C666/C666M	Standard test method for resistance of concrete to rapid freezing and thawing
ASTM C672/C672M	Standard test method for scaling resistance of concrete surfaces exposed to deicing chemicals
ASTM C779/C779M	Standard test method for abrasion resistance of horizontal concrete surfaces
ASTM C1012/C1012M	Standard test method for length change of hydraulic-cement mortars exposed to a sulfate solution
ASTM C1105	Standard test method for length change of concrete due to alkali-carbonate rock reaction
ASTM C1218/C1218M	Standard test method for water-soluble chloride in mortar and concrete
ASTM E96/E96M	Standard test methods for water vapor transmission of materials
ASTM E514/E514M	Standard test method for water penetration and leakage through masonry
ASTM E519/E519M	Standard test method for diagonal tension (shear) in masonry assemblages



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ASTM E754	Standard test method for pullout resistance of ties and anchors embedded in masonry mortar joints
AREMA	Manual for railway engineering (chapter 30 (ties), sections 4.9.1.1, 4.9.1.2, 4.9.1.3 only))
ICC ES AC174	Deck board span ratings and guardrail systems (guards and handrails) (test methods referenced in sections 3.0, 4.0 and 5.0 (except sections 3.5, 3.7, 3.9 and 3.10))
Structural	
1997 UBC 19-1	Welding reinforcing steel, metal inserts and connections in reinforced concrete construction
1997 UBC Section 1665	Required tests of isolation system
ASTM A82/A82M	Standard specification for steel wire, plain, for concrete reinforcement
ASTM A184/A184M	Standard specification for welded deformed steel bar mats for concrete reinforcement
ASTM A185/A185M	Standard specification for steel welded wire reinforcement, plain, for concrete
ASTM A370	Standard test methods and definitions for mechanical testing of steel products
ASTM A416/A416M	Standard specification for low-relaxation, seven-wire steel strand for prestressed concrete
ASTM A421/A421M	Standard specification for stress-relieved steel wire for prestressed concrete
ASTM A496/A496M	Standard specification for steel wire, deformed, for concrete reinforcement
ASTM A497/A497M	Standard specification for steel welded wire reinforcement, deformed, for concrete
ASTM A615/A615M	Standard specifications for deformed and plain carbon-steel bars for concrete reinforcement
ASTM A616/A616M	Standard specification for rail-steel deformed and plain bars for concrete reinforcement
ASTM A617/A617M	Standard specification for axle-steel deformed and plain bars for concrete reinforcement
ASTM A706/A706M	Standard specification for deformed and plain low-alloy steel bars for concrete reinforcement



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ASTM A722/A722M	Standard specification for high-strength steel bars for prestressed concrete
ASTM A767/A767M	Standard specification for zinc-coated (galvanized) steel bars for concrete reinforcement
ASTM A775/A775M	Standard specification for epoxy-coated steel reinforcing bars
ASTM A882/A882M	Standard specification for filled epoxy-coated seven-wire prestressing steel strand
ASTM A884/A884M	Standard specification for epoxy-coated steel wire and welded wire reinforcement
ASTM A934/A934M	Standard specification for epoxy-coated prefabricated steel reinforcing bars
ASTM A944	Standard test method for comparing bond strength of steel reinforcing bars to concrete using beam-end specimens
ASTM A1061/A1061M	Standard test methods for testing multi-wire steel prestressing strand
ASTM C1452	Standard specification for reinforced autoclaved aerated concrete elements (section 9 only)
ASTM E72	Standard test methods of conducting strength tests of panels for building construction
ASTM E139	Standard test methods for conducting creep, creep-rupture, and stress-rupture tests of metallic materials
ASTM E328	Standard test methods for stress relaxation tests for materials and structures
ASTM E330/E330M	Standard test method for structural performance of exterior windows, doors, skylights and curtain walls by uniform static air pressure difference
ASTM E488	Standard test methods for strength of anchors in concrete elements
ASTM E1190	Standard test methods for strength of power-actuated fasteners installed in structural members
ASTM E1512	Standard test methods for testing bond performance of bonded anchors (except section 7.4.3 test on short-term effect of fire)



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CT 670	Method of test for mechanical and welded reinforcing steel splices
ICC ES AC01	Expansion anchors in masonry elements (test methods referenced in section 5.0)
ICC ES AC46	Cold-formed steel framing members AC46 memo on indentations on stud flanges and corrugations in stud webs (test methods referenced in sections 3.0 and 4.0)
ICC ES AC51	Precast stone veneer (test methods referenced in sections 3.0 (except sections 3.1.6, 3.2 and 3.3) and 4.0)
ICC ES AC58	Adhesive anchors in masonry elements (test methods referenced in sections 3.0 and 4.0)
ICC ES AC86	Cold-formed steel framing members-interior nonload-bearing wall assemblies (test methods referenced in section 4.0)
ICC ES AC118	Tapping screw fasteners (test methods referenced in sections 3.0 and 4.0)
ICC ES AC133	Mechanical splice systems for steel reinforcing bars (test methods referenced in sections 3.0 and 4.0)
ICC ES AC193	Mechanical anchors in concrete elements (test methods referenced in tables 4.1, 4.2 and 4.3)
ICC ES AC237	Threaded high-strength steel bars for concrete reinforcement (test methods referenced in section 4.0)
ICC ES AC303	Post-tensioning anchorages and couplers of prestressed concrete (test methods referenced in sections 3.0 and 4.0)
ICC ES AC308	Post-installed adhesive anchors in concrete elements (test methods referenced in tables 4.1, 4.2, 4.3 and 4.4)
Thermal	
AASHTO T 336	Standard method of test for coefficient of thermal expansion of hydraulic cement concrete

AASHTO: The American Association of State Highway and Transportation Officials

AREMA: American Railway Engineering and Maintenance-of-Way Association

CT: CAL-Trans

UBC: Uniform Building Code