



# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **STRUCTURES AND MATERIALS RESEARCH LABORATORY, UNIVERSITY OF SOUTHERN CALIFORNIA**

3620 SOUTH VERMONT AVENUE, KAP 210  
LOS ANGELES, CALIFORNIA 90089-2531, U.S.A.

### **Testing Laboratory TL-848**

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date February 7, 2022



A handwritten signature in black ink that reads "Raj Nathan".

**President**

Visit [www.iasonline.org](http://www.iasonline.org) for current accreditation information.

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | [www.iasonline.org](http://www.iasonline.org)

## STRUCTURES AND MATERIALS RESEARCH LABORATORY, UNIVERSITY OF SOUTHERN CALIFORNIA

<https://smrl.usc.edu>

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*Accredited to ISO/IEC 17025:2017*

*Effective Date February 7, 2022*

AISI S905-13	Test Standard for Cold-Formed Steel Connections
ASTM A370	Standard Test Methods and Definitions for Mechanical Testing of Steel Products (only tensile testing)
ASTM A615/A615M	Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement (only tensile testing)
ASTM A820/A820M	Standard Specification for Steel Fibers for Fiber-Reinforced Concrete
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 C42/42M	Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete (except ASTM C174)
ASTM C78/C78M	Standard Test Method for Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)
ASTM C109/C109M	Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)
ASTM C136/C136M	Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates
ASTM C138/C138M	Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete
ASTM C143/C143M	Standard Test Method for Slump of Hydraulic-Cement Concrete
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

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ASTM C192/C192M	Standard Practice for Making and Curing Concrete Test Specimens in the Laboratory
ASTM C231/C231M	Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method (only type B meter)
ASTM C293/C293M	Standard Test Method for Flexural Strength of Concrete (Using Simple Beam With Center-Point Loading)
ASTM C403/C403M	Standard Test Method for Time of Setting of Concrete Mixtures by Penetration Resistance
ASTM C469/C469M	Standard Test Method for Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression (except ASTM C174)
ASTM C496/C496M	Standard Test Method for Splitting Tensile Strength of Cylindrical Concrete Specimens
ASTM C511	Standard Specification for Mixing Rooms, Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes
ASTM C531	Standard Test Method for Linear Shrinkage and Coefficient of Thermal Expansion of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes
ASTM C642	Standard Test Method for Density, Absorption, and Voids in 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 C1006	Standard Test Method for Splitting Tensile Strength of Masonry Units
ASTM C1018	Standard Test Method for Flexural Toughness and First-Crack Strength of Fiber-Reinforced Concrete (Using Beam With Third-Point Loading) (Withdrawn 2006)
ASTM C1185	Standard Test Methods for Sampling and Testing Non-Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clapboards (except Sections 14 and 15)
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 C1399/C1399M	Standard Test Method for Obtaining Average Residual-Strength of Fiber-Reinforced Concrete
ASTM C1437	Standard Test Method for Flow of Hydraulic Cement Mortar
ASTM C1567	Standard Test Method for Determining the Potential Alkali-Silica Reactivity of Combinations of Cementitious Materials and Aggregate (Accelerated Mortar-Bar Method)

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ASTM C1609/C1609M	Standard Test Method for Flexural Performance of Fiber-Reinforced Concrete (Using Beam With Third-Point Loading)
ASTM C1611/C1611M	Standard Test Method for Slump Flow of Self-Consolidating Concrete
ASTM C1621/C1621M	Standard Test Method for Passing Ability of Self-Consolidated Concrete by J-Ring
ASTM D570	Standard Test Method for Water Absorption of Plastics
ASTM D792	Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement (only method A)
ASTM D1141	Standard Practice for the Preparation of Substitute Ocean Water
ASTM D2344/D2344M	Standard Test Method for Short-Beam Strength of Polymer Matrix Composite Materials and Their Laminates
ASTM D2584	Standard Test Method for Ignition Loss of Cured Reinforced Resins
ASTM D2990	Standard Test Methods for Tensile, Compressive, and Flexural Creep and Creep-Rupture of Plastics (tensile creep only)
ASTM D3039	Standard Test Method for Tensile Properties of Polymer Matrix Composite Materials
ASTM D3045	Standard Practice for Heat Aging of Plastics Without Load
ASTM D3165	Standard Test Method for Strength Properties of Adhesives in Shear by Tension Loading of Single-Lap-Joint Laminated Assemblies
ASTM D7205/D7205M	Standard Test Method for Tensile Properties of Fiber Reinforced Polymer Matrix Composite Bars
ASTM D7264/D7264M	Standard Test Method for Flexural Properties of Polymer Matrix Composite Materials
ASTM D7522/D7522M	Standard Test Method for Pull-Off Strength for FRP Laminate Systems Bonded to Concrete Substrate
ASTM D7565/D7565M	Standard Test Method for Determining Tensile Properties of Fiber Reinforced Polymer Matrix Composites Used for Strengthening of Civil Structures
ASTM E4	Standard Practices for Force Verification of Testing Machines (only verification by elastic calibration devices)
ASTM E8/E8M	Standard Test Methods for Tension Testing of Metallic Materials
ASTM E72	Standard Test Methods of Conducting Strength Tests of Panels for Building Construction
ASTM E83	Standard Practice for Verification and Classification of Extensometer Systems
ASTM E518/E518M	Standard Test Methods for Flexural Bond Strength of Masonry
ASTM E519/E519M	Standard Test Method for Diagonal Tension (Shear) in Masonry Assemblages

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ASTM E1640	Standard Test Method for Assignment of the Glass Transition Temperature by Dynamic Mechanical Analysis
ASTM G85	Standard Practice for Modified Salt Spray (Fog) Testing
ICC ES AC32	Concrete with Synthetic Fibers (except Sections 4.3, 4.4, 4.5, 4.7.1.2, 4.9 and Annex A, Annex B and Annex E)
ICC ES AC125	Concrete and Reinforced and Unreinforced Masonry Strengthening Using Externally Bonded Fiber-reinforced Polymer (FRP) Composite Systems (except ASTM D696 and ASTM E831 in Table 2, ASTM C581 and ASTM E104 in Table 3, Sections 5.10, 5.13, 5.14, 5.15, 5.16 and 5.19)
ICC ES AC208	Steel Fibers in Concrete (except Sections 4.6 and 4.7)
ICC ES AC383	Polyolefin Chopped Strands for Use in Concrete (except Sections 4.2, 4.4, 4.5, 4.6, 4.7 and 4.9)
ICC ES AC434	Masonry and Concrete Strengthening Using Fabric-reinforced Cementitious Matrix (FRCM) Composite Systems (except ASTM C581 and ASTM E104 in Table 3, and Sections 4.9, 4.10 and 4.11)
ICC ES AC454	Fiber-reinforced Polymer (FRP) Bars for Internal Reinforcement of Concrete Members (except ASTM D4475, ASTM D7617, ASTM E2160 and ACI 440.3R (B.3 and B.5) in Table 2, and Sections 4.1.2, 4.1.3, 4.2.3, 4.2.5, 4.2.6, 4.3.2, 4.3.4 and 4.6)
ICC ES AC458	Exterior Ultra-High-Performance Concrete Thin Wall Cladding Panels (except Sections 3.4.3, 3.4.6, 3.5, 4.1, 4.2 and 4.3)
ICC ES AC490	Concrete and Reinforced and Unreinforced Masonry Strengthening Using Externally Bonded Steel-Reinforced Polymer (SRP) Composite Systems (except ASTM D696 in Table 1, ASTM C581 and ASTM E104 in Table 3, and Sections 5.8, 5.10, 5.11, 5.12 and 5.13)
ICC ES AC493	Composite, Ultra-High-Performance Concrete (UHPC) Panel Systems (except Sections 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 4.1.4, 4.1.5, 4.1.8, 4.2.3 and 4.3.1 and Table 1)
ICC ES AC509	3D Automated Construction Technology for 3D Concrete Walls (except Sections 3.3, 3.4, 4.3 and 4.5)