



CERTIFICATE OF ACCREDITATION

This is to attest that

UNIVERSITAET STUTTGART INSTITUT FUR WERKSTOFFE IM BAUWESEN

PFaffenWALDRING 4
STUTTGART 70569
GERMANY

Testing Laboratory TL-230

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 maintained on the IAS website (www.iasonline.org).

This certificate is valid up to October 1, 2020.



This accreditation certificate supersedes any IAS accreditation bearing an earlier effective date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See www.iasonline.org for current accreditation information, or contact IAS at 562-364-8201.



A handwritten signature in black ink, reading 'Raj Nathan', positioned above a horizontal line.

Raj Nathan
President



SCOPE OF ACCREDITATION

IAS Accreditation Number	TL-230
Company Name	Universitaet Stuttgart Institut fur Werkstoffe im Bauwesen
Address	Pfaffenwaldring 4 Stuttgart 70569 Germany
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Effective Date of Scope	July 23, 2019
Accreditation Standard	ISO/IEC 17025:2017

Structural

ACI 355.2	Qualification of post-installed mechanical anchors in concrete
ACI 355.4	Qualification of post-installed adhesive anchors in concrete (except section 5.3)
ASTM E488	Standard test methods for strength of anchors in concrete elements
ASTM E1512	Standard test methods for testing bond performance of bonded anchors
EAD 330008-02-0601	Anchor Channels
EAD 330011-00-0601	Adjustable Concrete Screws
EAD 330076-00-0604	Metal Injection Anchors for Use in Masonry
EAD 330083-02-0601	Power-Actuated Fasteners for Multiple Use in Concrete for Non-Structural Applications
EAD 330196-00-0604	Plastic Anchors for fixing of external thermal insulation composite systems with rendering
EAD 330232-00-0601	Mechanical Fasteners for Use in Concrete
EAD 330499-00-0601	Bonded Anchors for Use in Concrete
EAD 330747-00-0601	Fasteners for Use in Concrete for Redundant Non-structural Systems
ETAG 001	Metal Anchors for use in concrete



SCOPE OF ACCREDITATION

ETAG 014	Plastic Anchors for fixing of external thermal insulation composite systems with rendering
ETAG 020	Plastic Anchors for multiple use in concrete and masonry for non-structural applications
ETAG 029	Metal injection anchors for use in masonry
ICC ES AC01	Expansion anchors in masonry elements (test methods referenced in section 5.0)
ICC ES AC58	Adhesive anchors in masonry elements (test methods referenced in section 4.0)
ICC ES AC70	Power-actuated fasteners driven into concrete, steel and masonry elements (test methods referenced in section 4.0, concrete only)
ICC ES AC106	Predrilled fasteners (screw anchors) in masonry (test methods referenced in sections 3.0 and 4.0, concrete only)
ICC ES AC193	Mechanical anchors in concrete elements (test methods referenced in tables 4.1, 4.2 and 4.3, except embrittlement test method B)
ICC ES AC232	Anchor channels in concrete elements (test methods referenced in Annex A)
ICC ES AC308	Post-installed adhesive anchors in concrete elements (test methods referenced in tables 3.1, 3.2, 3.3, 3.4, 3.5, 3.6 and 3.7)
TR048	Details of Tests for Post-Installed Fasteners in Concrete
TR049	Past-Installed Fasteners in Concrete under Seismic Action

ACI: American Concrete Institute

EAD - European Assessment Document

ETAG – European Technical Approval Guide