SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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MECHANICAL

Valid To: December 31, 2027 Certificate Number: 5669.14

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on geotextile, waterproofing membrane, metals, reinforcing steel bar, weldments, ceramic tiles, grouts, and adhesives:

Test(s):	**Test Method(s):**
Puncture Test	ISO 12236; ASTM D4833/D4833M; ASTM E154/E154M Section 10
Tensile Properties	ASTM D4595
Grab Breaking Load and Elongation	ASTM D4632/D4632M
Tensile Strength and Elongation	ASTM D5147/D5147M Section 7; BS EN 12311-1; BS EN 12311-2; UEATC MOAT No.30
Tensile – Tear Strength	ASTM D4073/D4073M; ASTM D5147/D4157M Section 8
Resistance to Tearing (Nail Shank)	BS EN 12310-1
Thickness and Mass per Unit Area	BS EN 1849-1; BS EN 1849-2
Water Absorption	ASTM D570
Ceramic Tiles, Grouts & Adhesives:	
Tensile Adhesion Strength	ISO 13007-1; ISO 13007-2; BS EN 12004-1; BS EN 12004-2
Tensile Adhesion Strength After Water Immersion	ISO 13007-1; ISO 13007-2; BS EN 12004-1; BS EN 12004-2

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Test(s):	Test Method(s):
Ceramic Tiles, Grouts & Adhesives (cont.):	
Tensile Adhesion Strength After Heat Aging	ISO 13007-1; ISO 13007-2; BS EN 12004-1; BS EN 12004-2
Tensile Adhesion Strength After Freeze-Thaw Cycle	ISO 13007-1; ISO 13007-2; BS EN 12004-1; BS EN 12004-2
Open Time: Tensile Adhesion Strength	ISO 13007-1; ISO 13007-2; BS EN 12004-1; BS EN 12004-2
Extended Open Time: Tensile Adhesion Strength	ISO 13007-1; ISO 13007-2; BS EN 12004-1; BS EN 12004-2
Slip	ISO 13007-1; ISO 13007-2; BS EN 12004-1; BS EN 12004-2
Transverse Deformation	ISO 13007-1; ISO 13007-2; BS EN 12004-1; BS EN 12004-2
Metals:	
Charpy Impact (-196 °C to ambient temperature) Including Expansion and Shear	ASTM A370; ASTM E23; BS EN ISO 148-1; EN ISO 9016
Tensile Test at Ambient Temperature	ASTM E8/E8M; BS EN ISO 6892-1; API 5L; ASTM A370; ASTM B557/B557M; ASTM F606/F606M; BS 4449:1997 (Withdrawn)[1]; BS 4449; BS EN ISO 15630-1:2002 (Withdrawn)[1]; BS EN ISO 15630-1:2010 (Withdrawn)[1]; BS EN ISO 15630-1; ASTM A615/A615M; ISO 6935-2
Through-Thickness Tension Testing	ASTM A770; ISO 7778; BS EN 10164
Determination of Ferrite Content using Feritscope	EMT-M-OP-MET-MD022A

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Test(s):	Test Method(s):
Metals (cont.):	
Shear test	ASTM A264/A264M; ASTM A265/A265M
Vickers Hardness Micro scales: 100, 200, 300, 500 & 1000gf Macro Scales: 5 & 10 kgf	ASTM E92; BS EN ISO 6507-1; ASTM E384
Coating Thickness by Meter Gauge	EL-M-OP-CT-DXB-MD006; BS EN ISO 2808; ASTM B499; ASTM D7091; ASTM E376
Flattening Test	ASTM A370; ASTM A999/A999M; ASTM A1016/A1016M; BS EN ISO 8492; API 5L
Hardness Rockwell-C & B Scales	ASTM E18; ISO 6508
Brinell Hardness	ASTM E10; ISO 6506
Weldments:	
Bend Test	BS EN ISO 5173; ASME IX; AWS D1.1/D1.1M; API 1104; AWS B4.0
Fracture & Nick Break	BS EN ISO 9017; API 1104; ASME IX; AWS D1.1/D1.1M; AWS B4.0; ASME Sec II Part C
Vickers Hardness Survey Macro Scales: 5 & 10 kgf	BS EN ISO 9015-1; API 1104; ASME IX; AWS D1.1/D1.1M; ASTM E92
Macroscopic & Microscopic Examination of Welds	BS EN ISO 17639; API 1104; ASME IX; AWS D1.1/D1.1M; ASTM E340; AWS B4.0; ASME Sec II Part C
Longitudinal Tensile Test on Weld Metal in Fusion Welded Joints	BS EN ISO 5178; API 1104; ASME IX; AWS D1.1/D1.1M

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Test(s):	Test Method(s):
Weldments (cont.):	
Cross Weld Tensile Test on Weld Metal in Fusion Welded Joints	BS EN ISO 4136; API 1104; ASME IX; AWS D1.1/D1.1M
Reinforcing Steel Bar:	
Bend	BS 4449:1988 (Withdrawn)[1]; ASTM A615/A615M; BS EN ISO 15630-1; BS EN ISO 7438; ISO 6935-2; ASTM E290
Rebend	BS 4449; BS EN ISO 15630-1; BS 4449:1997 (Withdrawn)[1]; BS EN ISO 15630-1:2002 (Withdrawn)[1]; BS EN ISO 15630-1:2010 (Withdrawn)[1]; BS EN ISO 15630-1; ISO 6935-2
Tensile	BS 4449; ASTM A615/A615M; BS EN ISO 15630-1
Mass per Unit Length	BS 4449; ASTM A615/A615M; BS EN ISO 15630-1
Slip Test	ISO 15835-2
Rib geometry	BS 4449; BS EN ISO 15630-1; ASTM A615/A615M; BS 4449:1997 Amd't1 (Withdrawn)[1]; BS 4449; BS EN ISO 15630-1:2002 (Withdrawn)[1]; BS EN ISO 15630-1:2010 (Withdrawn)[1]; ISO 6935-2
Determination of Coating Weight	ASTM A90/A90M; BS EN ISO 1460; BS EN ISO 10346
Corrosion:	
Determining Average Grain Size (Comparison method)	ASTM E112
Determining the Inclusion Content of Steel	ASTM E45 Method A
Preparation of Metallographic Specimens	ASTM E3
Standard Practice for Micro etching Metals and Alloys	ASTM E407; BS EN ISO 17639

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Test(s):	Test Method(s):
Corrosion (cont.):	
Determining Volume Fraction of Ferrite by Systematic Manual Point Count	ASTM E562
Pitting Resistance of Stainless Steels and Related Alloys by Use of Ferric Chloride Solution	ASTM G48 Method A and Method C
Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels	ASTM A262 Practice A, Practice B, Practice C and Practice E
Detecting Detrimental Intermetallic Phase in Duplex Austenitic/Ferritic Stainless Steels	ASTM A923 Method A and Method C
Detecting Susceptibility to Intergranular Corrosion in Wrought, Nickel-Rich, Chromium-Bearing Alloys	ASTM G28 Method A
Analysis of Plain Carbon, Low Alloy and Stainless Steels by OES	ASTM E415; ASTM A751; ASTM E1086; EMT-M-OP-CH-MD101

[1] This scope includes some specifications which are withdrawn but are specified by the clients or applicable to specific grades of steel

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Accredited Laboratory

A2LA has accredited

AL FUTTAIM ELEMENT MATERIALS TECHNOLOGY DUBAI L.L.C

Dubai, United Arab Emirates

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 12th day of January 2026.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5669.14
Valid to December 31, 2027

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.

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