SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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MECHANICAL

Valid To: February 28, 2021 Certificate Number: 5669.09

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on Metals:

Test(s):	**Test Method(s):**
Plain Carbon and Low Carbon Alloy Steels	
Mechanical Tests	
Rockwell (B and C Scales)	BS EN ISO 6508-1; ASTM E18
Vickers (HV5 & 10)	BS EN ISO 6507-1; ASTM E92
Charpy impact (-196°C and -101°C to ambient)	ASTM E23; ASTM A370; BS EN ISO 148-1
Fracture Toughness	
CTOD (in the Temperature Range 77K to Ambient)	BS 7448-1; BS 7448-2:1997(Withdrawn)[1]
Tensile at Ambient Temperature (Forces up to 2000 kN)	BS EN ISO 6892-1; ASTM E8/E8M; ASTM A370; API 5L
Ferrite content	EMT-M-OP-MET-MD022
Replica Surface Microstructure	ASTM E1351; EMT-M-OP-MET-MD009
Rubbers / Elastomers	
Hardness Test (Shore A and D Scale)	ASTM D2240
Metallic Coatings – Hot Dip Galvanized Coatings	
Coating Thickness	ISO 1460

Carbon Steel Bars for the Reinforcement of Concrete	
Bend	BS 4449(Withdrawn)[1]; ASTM A615/A615M
Rebend	BS 4449:1997 (Withdrawn)[1], BS 4449; BS EN ISO 15630-1
Tensile	BS 4449:1997 (Withdrawn)[1], BS 4449; ASTM A615/A615M; BS EN ISO 15630-1
Bolts and Studs (In Full Section and Machined Test Pieces)	
Tensile	BS EN ISO 15630-1; ASTM F606/ F606M
Multi Wite Steel Strand	
Tensile Strength	ASTM 1061/A1061M; BS EN ISO 15630-3
Weldments	
Bend, Fillet weld fracture, Hardness, Impact, Nick-break, Tensile, CTOD, Macro- and Micro-examination in accordance with specific welding codes	BS EN ISO 5173; BS EN ISO 9017; BS EN ISO 9015-1; BS EN ISO 4136; BS EN ISO 5178; BS 7448-2 (Withdrawn)[1], BS EN ISO 17639; BS 4515-1; BS 4515-2; BS EN ISO 15614-1; BS EN ISO 15614-2; BS EN ISO 15653; BS EN 287-1; BS EN ISO 9601-1; BS EN ISO 9606-2; ASME IX; API 1104; API 5L; AWS D1.1/D1.1M
HDPE Pipe (Weld Sample)	
Tensile Test	BS ISO 13953
Manhole Tops for Vehicular and Pedestrian Areas	
Deflection (up to 1000 kN)	BS EN 124-1

[1]This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.

Accredited Laboratory

A2LA has accredited

ELEMENT DOHA, LLC

Doha, Qatar

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 31st day of October 2019.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5669.09
Valid to February 28, 2021

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