

Mechanical destructive testing

The **RGB Testing Laboratory** performs destructive testing of metallic materials and welded joints in accordance with the requirements of applicable international standards.

Methods of mechanical destructive testing:

□ Tensile testing

- EN ISO 6892-1 – Metallic materials - Tensile testing - Part 1: Method of test at room temperature.
- EN ISO 4136 – Destructive tests on welds in metallic materials - Transverse tensile test.
- EN ISO 15630-1 – Steel for the reinforcement and prestressing of concrete - Test methods - Part 1: Reinforcing bars, rods and wire.

□ Impact testing

- EN ISO 148-1 – Metallic materials - Charpy pendulum impact test - Part 1: Test method.
- EN ISO 9016 – Destructive tests on welds in metallic materials - Impact tests.

□ Bend testing

- EN ISO 7438 – Metallic materials - Bend test.
- EN ISO 5173 – Destructive tests on welds in metallic materials - Bend tests.

□ Fracture testing

- EN ISO 9017 – Destructive tests on welds in metallic materials - Fracture test.

Equipment and testing capabilities:

- Destructive testing load range: 0,1 – 1000 kN.
- Charpy pendulum impact testing with a maximum impact energy of 300 J.
- Tensile and load testing of bolts, nuts, and other fasteners.
- Customized testing tools upon agreement.

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