

R-TECH MATERIALS


World Class Expertise In Engineering Materials

Steel For Concrete Structures

R-TECH Materials – An industry expert in the testing of reinforcing steels and the associated products.

Reinforced concrete is one of the most utilised building materials in the world. A combination of beneficial mechanical properties, durability, cost effectiveness and versatility has seen reinforced concrete become the material of choice in the construction market. Such is the versatility of this material that it has been utilised in the world's biggest building projects, nuclear power plants, subterranean infrastructure, hydroelectric dams, bridges, marine, offshore & floating structures.

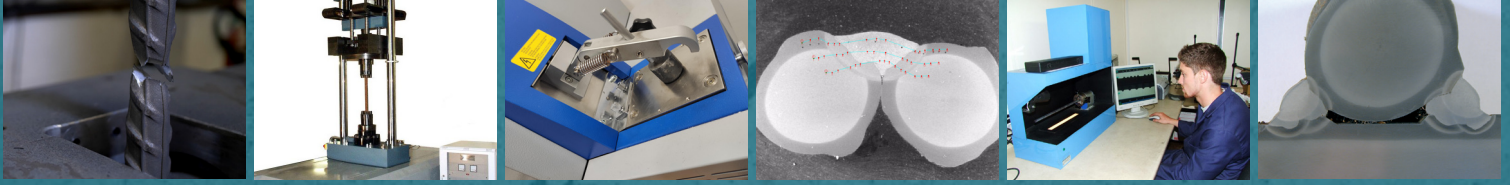
Steel is the principal means of providing reinforcement to concrete. A wide range of steel reinforcing products are available, facilitating the production of a wide range of engineered reinforced concrete products. In order to certify the materials and validate a design, it is essential that the mechanical properties of the constituent materials are accurately verified and validated.



R-TECH Materials' laboratory for the testing of reinforcing steels and associated products is recognised globally as one of the leading, specialist laboratories of its kind. Not only do R-TECH have the capability to test an extensive range of available reinforcing products, R-TECH's scope comprises loads of up to 1500kN, giving the capability to test the largest reinforcing products. We are able to offer a unique range of UKAS accredited testing, supported by our knowledge and expertise in manufacturing methods, standards and specifications.

- Reinforcing bar and coil
- Welded fabric
- Prestressing wire
- Prestressing strand
- Prestressing bar
- Mechanical couplers
- End anchors
- Headed bars
- Lightning protection systems
- Shear systems
- Welded reinforcement joints

Testing Capability



Tensile
Testing

Fatigue
Testing

Chemical
Analysis

Hardness
Testing

Rib
Geometry

Metallographic
Assesment

Specialist Expertise

Our team of highly experienced engineers and materials scientists share many decades of time served in the reinforcing steel industry, with expertise across manufacturing, quality assurance, research and development and of course, testing. It is this specialist expertise that has seen R-TECH Materials personnel taking leading roles on a variety of national, European and industry standards committees. This invaluable expertise is often drawn on by product manufacturers and fabricators of reinforcing steel, couplers, anchors, strand and welded products.

Unrivalled Capability

As the largest dedicated reinforcing steel test laboratory in the UK, R-TECH Materials have the capability to undertake a wide variety of tests across a range of sizes and reinforcing steel products. Our unrivalled in-house capability coupled with our skilled personnel enable R-TECH Materials to execute a wide range of testing with short lead times. The combination of our specialist expertise with our unrivalled capability have seen R-TECH Materials undertake a number of unique project specific test programs, some of which have requirements that are not described within existing standards. The combination of expertise with time-served experience makes R-TECH Materials the perfect partner to support bespoke project requirements.



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