

Kiwa UK - Construction Services

Kiwa UK



Partner
for
Progress

Construction industry expertise

Kiwa's Construction offering combines a full range of testing, inspection, consultancy and Agrément services to construction materials manufacturers, construction and civil engineers, highways, local authorities and System Designers.

Our engineers are highly experienced, totally impartial, solution oriented and renowned for their expertise.

We can help with:

- Reducing construction project costs
- Improving sustainability in construction
- Providing a route to market
- Ensuring quality assurance – product 'fitness for purpose'
- Sustainable Construction – reduce, reuse, recycle
- Testing & Consultancy to support your business
- Experience offered support at each stage of customer projects
- Thinking globally, acting locally to meet customer needs

Geo-Environmental

Our Geo-Environmental team provide cost-effective services to the construction industry. We regularly carry out work for construction companies, developers, contractors, local authorities, waste producers, waste recyclers, aggregate producers, and consultancies throughout the UK. We sample, test and advise on construction materials. Key services include site investigations, contaminated land, coal tar analysis, site walk overs, foundation recommendations, trial pits, bore hole sampling, window sampling and gas membrane validation.

Geotechnical

Our Geotechnical team provide a wide range of testing solutions both on site and in our UKAS accredited laboratories. Key services include CBRs, DCP, plate bearings, in situ Density Testing, classification of materials, soils and aggregates. Using state of the art technology to provide clients with accurate, reliable, and prompt reporting, meeting the strict quality standards of our UKAS accreditation.

Concrete Testing

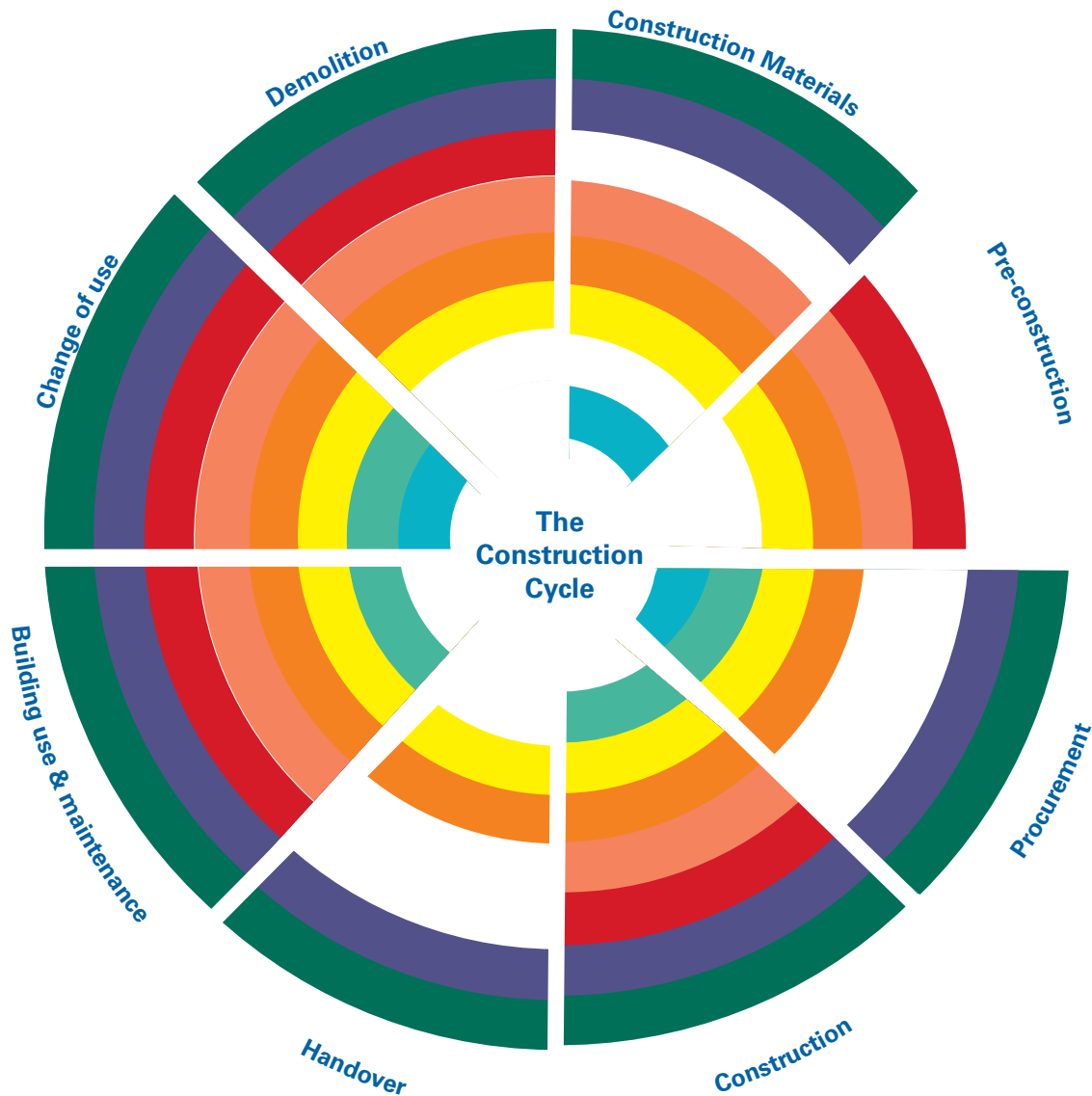
Our concrete specialists conduct on-site and laboratory investigation and physical testing on materials used in the construction industry. Key services include: Concrete cube making; physical testing of concrete; rock cores; trial mixes and testing of admixtures; cementitious repair materials and resins. Our technicians can collect from your site or we can accept samples delivered to our testing facility.

Here to help at every stage of your project

Structures Testing & Lighting Column Testing

Kiwa CMT carries out a range of structural testing services. These range from structural investigation works to barrier testing in buildings and sports stadia. Using accredited technology we provide our clients with impartial, accurate results which are reported promptly.

Kiwa CMT is the only accredited lab for the use of the unique Relative Loss of Section™ (RLS) system for structural testing of lighting columns. Local authorities choose our service as our unique RLS system was developed specifically to locate and quantify corrosion of steel columns that cannot be identified by visual inspection. Results obtained estimate percentage loss of section, allowing columns to be classified (scale of 1-5) for either replacement or periodic retesting, in a downloadable electronic report.



Building Materials Testing

Our Building Products department is a multifunctional department offering assessment of raw materials through to compliance testing of the finished products, including assistance in the research and development process and mix design. Additionally, we conduct laboratory, on-site investigation and physical testing on materials used in the construction, civil engineering, warehousing, environmental and associated industries.

We can assess the performance of virtually any material used in modern day heavy side construction, including Slip Resistance Testing, Concrete Floor slab investigations, tensile strength, workable life, flow and setting time of concrete products, additives, admixtures and pigments, evaluation of concrete repair and cement materials.



Installer Assessment and Surveillance Scheme

As a System Designer, you will have various companies installing your product. Kiwa's Installer Assessment and Surveillance Scheme checks that installation companies have policies and procedures in place to ensure they are robust, professional and follow best practice.

Kiwa conducts an office and site/depot audit. This audit process is stringent and is designed to establish that the company has the appropriate legal documentation, risk management, method statement, staff training, equipment maintenance and calibration, health and safety policy and site surveys in place. Once evidence has been collated and verified, our auditor will conduct a site visit where they will witness a live site installation, looking at relevant documentation - a site survey, risk assessment and method statement.

Once an installation company has satisfied the conditions of the audit, they will be presented with a Kiwa Building Products certificate and a Kiwa Installer Assessment and Surveillance Scheme pictogram for use on promotional material.

BDA Agrément®

The BDA Agrément® process is designed to underpin the "safety and fitness for purpose" of products destined for the UK construction market. Products are examined and rigorously tested following precise installation instructions. Agréments confirm the compliance and durability of the product under the specified method of installation.

Agréments are recognised by architects, specifiers, engineers and Building Control personnel, and give suppliers and purchasers the confidence that their products are suitable for their intended use and fit for purpose.

Kiwa Building Products issues the BDA Agrément® for building envelope products and systems. Typically, thermal performance, structural performance (e.g. wind-uplift resistance), condensation and water penetration risk, behaviour in relation to fire and durability are included in the scope of Agrément where appropriate.

Chemistry Testing

Our UKAS accredited Materials Testing and Chemistry testing laboratory provide a service analysing a wide range of cement-based construction materials and aggregates for the following analytical parameters: Cement content & cement; aggregate ratio; mix proportions by volume; chloride ion content; acid soluble and water-soluble sulphate; alkalis (sodium & potassium oxide contents); pH and magnesium sulphate soundness.

Structural investigation work is also undertaken looking at causes of problems and failures of buildings and structures, including presence of high alumina cement (HAC), Alkali Silica Reaction (ASR) and sulphate attack of hardened concrete. Historic lime mortar investigation and analysis to enable suitable repair and restoration of listed buildings and monuments.

Kiwa in the UK

Part of a global top 25 Testing Inspection and Certification (TIC) organisation employing over 4000 staff, Kiwa has come a long way since its 1948 beginnings in The Netherlands monitoring drinking water. Kiwa's centre of operations remains Dutch-based, and the logo (a beaver) is faithful to these water roots, but it now has a leading TIC presence in over 40 countries.

Markets we're active in range from metals and mining to healthcare and construction. Our clients are from manufacturing and process industries, public and private utilities, governments and international institutions.

Kiwa's UK testing facilities are the product of several acquisitions, bringing together laboratories testing heating and cooking appliances, water and electrical products, and construction materials. Typical clients include manufacturers of boilers and stoves, showers and taps, civil engineers and local authorities involved in construction and highway projects. Our certification arm provides approval services for many of these and also for food and agricultural products.

With expert knowledge in these areas, it's not surprising that we also have separate Consultancy services specialising in Energy (predominantly hydrogen and gas safety), in Construction, Agrifood and the global RF product approval arena.

Present in many marketplaces, the common thread in our range of services is integrity. We are known for our technical rigour, reliability and industry knowledge. Many of our laboratories are UKAS-accredited.

Testing and Certification

Kiwa UK incorporates laboratories providing specialist testing for gas appliances, water products and electrical equipment. Often the same appliances are tested by all three laboratories. We test to a comprehensive range of industry standards to support WRAS certification, CE Marking (EMC, LVD, GAR) and global approvals. Our RF approval services are in keen demand.

Materials testing is conducted by our Derby-based laboratory and includes procedures on mortar, cement, concrete and coal tar. There is also an offsite testing service for structures such

as street lights, barriers and bridges, and geotechnical advice. Analysis of contaminated land and the re-use of waste are both areas of growth for this laboratory.

Our operation in Harrogate handles the certification and audit of schemes relating to all stages in the food chain, as well as several agricultural schemes (for example animal feed and fertiliser). Very active in Spain and France, this is a rapidly expanding service gaining momentum in South America, and now establishing a base in the USA.

Energy and Carbon

We specialise in energy usage in most of its forms: solid fuel, gas, oil and biomass as well as renewable / efficient technologies such as hydrogen, solar, wind, heat pump and m-CHP. Advising governments and trade bodies, our work often involves executing detailed field trials to produce real data for assisting evidence-based decisions concerning product development and strategic policy. Our expertise is internationally renowned and our consultants regularly advise across the globe.

Our greenhouse gas emissions expertise is divided between our auditors performing an independent accredited GHG verification, and our consultants advising on GHG emissions under various local and national schemes, such as the CCA and EU ETS.

Training

We provide training and assessment services for two distinct marketplaces:

- Food safety education
- Cooking and heating appliance installation

Our trainers and assessors are experts in their field. We deliver specialist courses such as 'Hydrogen and the Natural Gas Network' and various industrial gas modules. Such niche courses are an appropriate use of our strong technical base and good standing in the industries in which we work.

" I have always found Kiwa CMT Testing very professional... always reliable and helpful."



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