

SIRAS/SIRAS+

LRQA announce the launch of the Structural Integrity and Resilience Accreditation Scheme SIRAS/SIRAS+



The accreditation scheme

Developed by LRQA, the Structural Integrity and Resilience Accreditation Scheme (SIRAS) provides assessment, accreditation and an online register of properties and infrastructure that incorporate corrosion control monitoring systems that are designed, installed and operated for proactive management of the whole life structural corrosion resilience.

Structural degradation – the background

Structures degrade over their life cycle which impacts service life use and associated asset value. Corrosion of steel is a primary cause of damage to structures, accelerated by the environment and negatively impacting 70% of infrastructure. The application of corrosion control systems offers the opportunity to significantly extend the whole life operation of such structures.

Through extending the life of the structure, the application of corrosion control systems, secure the embodied carbon and therefore support the UK Government agenda to decarbonise construction – the focus of the Construction Playbook and platform toolkit. However there has been a marked reticence to normalise the use of corrosion control systems, within the fabric of a structure, largely due to the uncertainty as to the benefits of corrosion control systems and the perceived risks associated with the technology involved.

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Siras scheme assurance

The SIRAS and SIRAS+ accreditation schemes have been developed to provide assurance to asset developers, operators and owners as to the technical integrity of proposed corrosion control systems and monitoring and to support the mitigation of perceived risks. The SIRAS scheme adopts a tiered approach, which evaluates levels of system performance, reporting, security and proactive maintenance, against ISO 15257:2019 and ISO 126969:2016 requirements and best practice.

The tiered award system is based upon the output of a numerically scored assessment process and comprises:

- **Gold Tier**
- **Silver Tier**
- **Bronze Tier**

Enhanced accreditation scheme

SIRAS+ builds upon the SIRAS foundation, it incorporates additional design criteria that promote sustainability and the innovation incorporated in the corrosion control monitoring processes during the operational stage. This enhanced scheme, recognises and therefore incentivises the use of low-carbon materials and technologies, such as recycled and repurposed resources, while maintaining high corrosion protection standards. SIRAS+ fosters a more holistic and future-oriented asset management and maintenance approach by expanding its scope to include data-driven strategies. It encourages the use of open networks for expansion of functionality, for the performance assessment and maintenance of an asset's structural health.

Scheme beneficiaries



Structure owners
and developers



Infrastructure operators
(e.g., utilities, transportation)



Asset managers
(e.g., industrial facilities,
critical infrastructure)



Government
agencies and
regulatory bodies



Consulting engineers and
structural designers



Insurance
companies and
risk assessors



Scheme information and application process

LRQA are pleased to announce that following the SIRAS scheme development in 2024 and the successful completion of a pilot programme, we are now in a position to respond to global market demand.

Find out more

For more information on the SIRAS scheme and/or applications form, visit lrqa.com, email karl.miller@lrqa.com or call **+44 (0)7855 064840**