



Architect

Capability Statement

Sustainability Achieved through Durable Design Engineering



INNOVATIVE CORROSION MANAGEMENT
FOR A SUSTAINABLE FUTURE

ArchiT ECHT provides corrosion mitigation and durability design review consultancy services.

It is recognised that, when designing structures or when ordering plant and equipment, it is important to provide suppliers with **CORROSION MANAGEMENT INFORMATION**. This allows for correct design of corrosion mitigation Strategies to **ENSURE THE PLANT AND EQUIPMENT IS FIT FOR PURPOSE** for the intended life.

SUSTAINABILITY THROUGH DESIGN

The most competent designs from a durability and corrosion perspective are generated by incorporating, from the beginning, corrosion mitigation techniques and engineered materials selection to reduce long term expenditure on corrosion protection.



“TECHT undertook a corrosivity assessment of our site and developed a corrosion mitigation plan strategy based on the findings. The report allowed us to downgrade material specifications with confidence, saving the project hundreds of thousands.”

– Renewable Energies Designer

Corrosivity Assessment

Typically, the first step is to understand the environment from a **CORROSION & DURABILITY** point of view. TECHT develops comprehensive Corrosivity Assessments based on information gathered onsite and from reputable sources to produce Service Life Calculations to industry best practice & standards.

Durability Plan

A **DURABILITY PLAN** breaks down the project into its various environments and assesses individual risk. Once this process is undertaken then construction detailing improvements are offered to mitigate deterioration mechanisms that lead to structural implications.

TECHT CAN OFFER ALL ASPECTS OF A DURABILITY PLAN from the original overview document through to construction documents, specifications, quality control verification, and the development maintenance manuals.

Corrosion Mitigation Design Review

TECHT's experience in doing inspections and failure analysis can be drawn on by our qualified engineers to ensure that design issues can be addressed at the FEED phase of the project, rather than at construction, or even production phase.

Our approach to durability planning encompasses the following key criteria:

- Risk of deterioration,
- Cost of control strategies,
- Correct detailing to ensure positive result.

Specification Development / Review

TECHT's knowledge and experience of what influences a material property due mechanical, chemical or other process assists decision making. We aim to simplify the choices when considering cost, manufacture, the environment, and corrosion protection.

Correct product specification is crucial to ensure that the end user's assets are going to be fit for purpose for the intended life. This process also alleviates site issues and problems associated with premature failures.

Material testing & selection

An essential part of TECHT's services is the availability of in-house and third-party testing facilities. This includes metallurgical, analytical and microbial testing. Corrosion Coupon exposure is one way of testing a material to ensure it is fit for purpose, leading to correct material selection for the project.

Construction Quality Assurance & Control

YOU GET WHAT YOU INSPECT. TECHT offers a full range of Quality Assurance and Quality Control Services. From the kick-off meeting to the final closeout report, TECHT ensures the specification is followed and can assist with any conflict resolution quickly and professionally, should it arise.





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