

# Bridge & Tunnel Refurbishment

Concrete **Condition** Surveys & Reports

Concrete **Repairs**

**Protective** Coatings

Corrosion **Control** Systems

Bearing **Replacement**

Structural **Strengthening**

ECI (Early Contractor **Involvement**)



# CRL is a **Specialist** Contractor

experienced in repairing **vital infrastructure**

**CRL** have been carrying out the **inspection, repair and refurbishment of bridges and tunnels** since 1955. We have a network of seven regional offices in the UK which provide **sustainable comprehensive refurbishment services**. CRL Surveys are **UKAS Accredited** to undertake the initial condition surveys to identify the nature and extent of any structural deterioration. This allows us to then provide professional and informed advice on how to repair the defects in a **cost effective** and **sustainable manner**. CRL are a multi-award winning company, renowned for providing **professional innovative engineering solutions**.



## **Masonry and concrete**

**tunnels** often have water ingress issues which can cause structural and operational problems. CRL is skilled in **managing water ingress in structures** using a variety of techniques, either to stop or control the water flow. After repairing the existing tunnel lining we use a combination **resin injection, grouting** and **tunnel liners** to manage any future water ingress. CRL are **approved applicators** for a range of **epoxy, polyurethane and acrylic resins** which can be used to seal cracks and voids in the tunnel lining. Masonry tunnels can also be strengthened and lined with a sprayed mortar to **enhance future durability**.

# We **sustainably** restore your structures for future generations to use

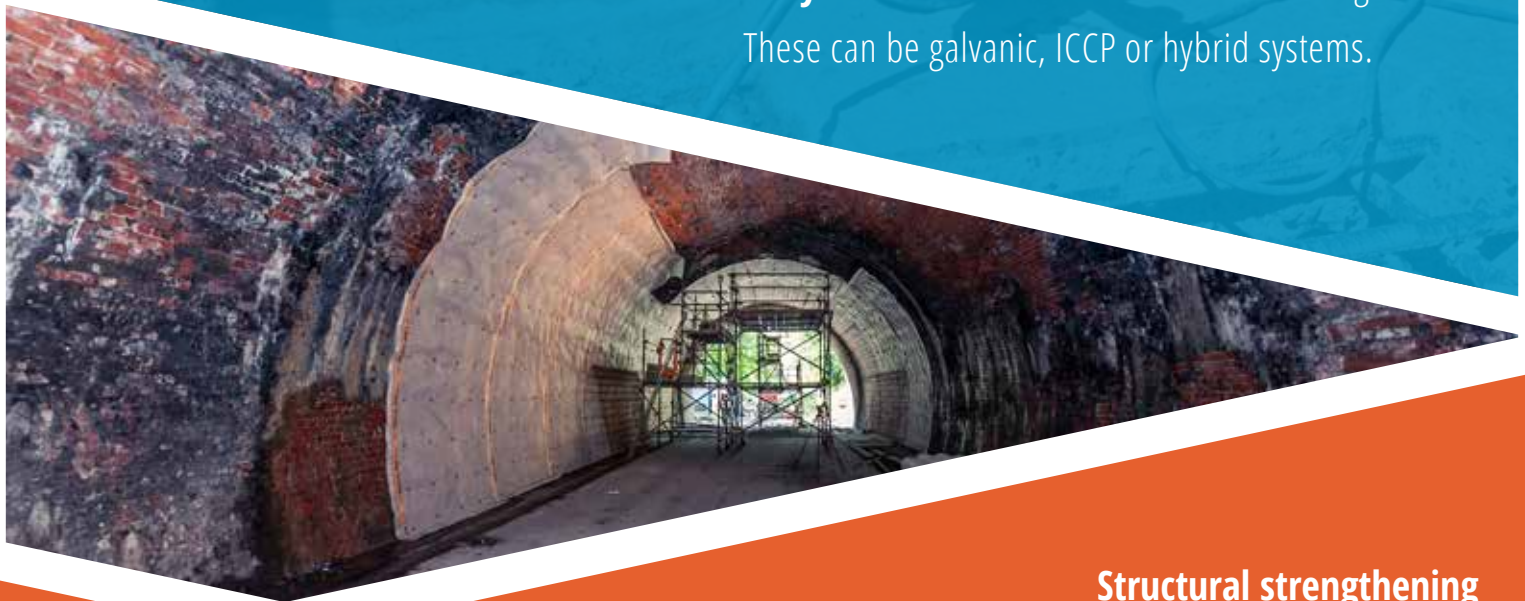
Reinforced concrete

**highway and rail** structures frequently

**suffer** from deterioration due to **corrosion of the steel**

**reinforcement**. This is usually initiated by high chloride ion levels in the concrete from de-icing salts spread on the roads and structures. CRL, with its vast experience in this sector is able to repair the concrete with **minimal disruption to traffic** in accordance with **BS EN1504**. Where necessary we can also **design and install** corrosion control systems to **ISO 12696:2022** to enhance the **durability** of the structures and extend their design life.

These can be galvanic, ICCP or hybrid systems.



## **Structural strengthening**

is often required to accommodate increased loading requirements or remedy structural deficiencies. **CRL** has been using **fibre reinforced polymer (FRP)** composites since 1996 to strengthen **steel, concrete** and **cast iron structures**. We **design, supply** and **install** both **plate** and **wrap systems** using carbon or aramid fibres in accordance with the **Concrete Society Technical Reports TR55 and TR57**.

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