NDT: NON-DESTRUCTIVE TESTING AND EVALUATION
FOR QA AND CONDITION ASSESSMENT OF CONCRETE, NATURAL STONE AND ASPHALT

Ramboll’s static and mobile laboratories contains a wide selection of equipment for non-destructive laboratory and in-situ testing such as:

- **Impact Echo**
  Delaminations, honeycombing, ASR, cracks, voids and QA and detection of voids in post-tensioning

- **sMASH**
  Delaminations of pavements, location of ASR and honeycombing, integrity of piles

- **MIRA**
  QA of grouting/void of post-tensioned bridge ducts

- **Infrared thermo vision**
  Detection of delaminations, moisture, thermal bridges etc.

- **Covermeter**
  Measurement of reinforcement cover, locations and diameter

- **Ultrasonic/pulse velocity**
  Determination of strength and elastic modulus and detection of honeycombing and delamination

- **Galva pulse and half cell potential**
  Reinforcement corrosion, resistance and corrosion activity

- **Ground penetrating radar (Geo radar)**
  Detection of embedded structures

- **Endoscope**
  Inspection of core holes, narrow voids etc.

- **CAPO-Test**
  Assessment of concrete strength on-site

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We are experts within a large range of techniques for non-destructive testing of concrete, natural stone and asphalt for QA and condition assessment.

Ramboll have a detailed and practical knowledge of, and expertise in, the different techniques and understands the strengths and limitations of each as well as their application.

Non-destructive testing are often used in combination with visual inspection of concrete structures, different natural stone applications and asphalt pavements, including bitumen membranes. The use of different techniques can assist us in assessing the condition of the structure, including establishing the cause of damage and degree of deterioration. It can also be used as a quality assurance measure on older as well as newer structures.