

STRUCTURAL · CONDITION ASSESSMENT

Structural Assessment







Non-destructive testing, load testing, and structural condition assessment for existing buildings, bridges, marine structures, and industrial plants across Kuwait — combining visual inspection, instrumented NDT, and finite-element analysis to quantify residual capacity.



Since 2004 · BS EN 1504 · ACI 562 · FIB 42 · NDT Level II / III · Forensic specialists

Know what's holding your structure up — before it fails.

Vision International provides owners, facility managers, and insurers with **structural condition assessment** services for aging buildings, damaged structures, and change-of-use approvals. Our assessments combine detailed visual inspection, NDT (UPV, rebound hammer, GPR, cover meter, half-cell potential), instrumented load testing, and **finite-element analysis in ETABS, SAP2000, and ANSYS** to quantify residual capacity, identify root causes of defects, and define targeted repair and strengthening interventions to **BS EN 1504, ACI 562, and FIB 42**.

 <p>Visual Inspection</p> <p>Detailed condition surveys with crack, deflection, corrosion, and defect mapping per BS EN 1504.</p>	 <p>Non-Destructive Testing</p> <p>UPV, rebound hammer (Schmidt), GPR, cover meter, and half-cell potential surveys by NDT Level II/III.</p>	 <p>Load Testing</p> <p>Instrumented static and dynamic load tests on beams, slabs, trusses with deflection and strain monitoring.</p>
 <p>Structural Analysis</p> <p>Finite element modelling in ETABS, SAP2000, and ANSYS for residual capacity and change-of-use evaluation.</p>	 <p>Forensic Assessment</p> <p>Root-cause investigation of cracks, collapses, service failures, and construction disputes.</p>	 <p>Repair & Strengthening</p> <p>Design of CFRP strengthening, section enlargement, steel jacketing, and structural repair interventions.</p>

HOW WE WORK

From Inspection to Strengthening Design



Concerns about an aging or damaged structure?
 Senior structural assessor engaged within one week · Confidential reports for owners, insurers, and courts.
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 info@visionkuwait.com

Full Structural Assessment Offering

BS EN 1504

ACI 562 · FIB 42

NDT Level II/III Certified

Chartered Engineer Reports

CONDITION ASSESSMENT

- Detailed visual surveys and defect mapping
- Crack monitoring and deflection recording
- Corrosion survey and carbonation depth
- Moisture and chloride ingress profiles
- Owner-friendly condition reports
- Change-of-use structural certification
- Post-earthquake damage assessment

NON-DESTRUCTIVE TESTING

- Ultrasonic Pulse Velocity (UPV)
- Rebound hammer (Schmidt) testing
- Ground Penetrating Radar (GPR) on concrete
- Cover meter and rebar mapping
- Half-cell potential corrosion survey
- Impact-echo and infrared thermography
- Ultrasonic pulse-echo and pachometer

LOAD & FIELD TESTING

- Static and dynamic load tests
- Proof testing to design load
- Deflection, strain, and tilt monitoring
- Wireless instrumentation and dataloggers
- Pile integrity testing (PIT, CHA)
- Witness and certification services
- Long-term structural health monitoring

ANALYSIS & DESIGN

- Finite element modelling (ETABS, SAP2000, ANSYS)
- Residual capacity evaluation to ACI 562
- Seismic vulnerability assessment
- CFRP strengthening design
- Steel jacketing and section enlargement
- Structural repair specification (BS EN 1504)
- Expert witness and forensic reporting

The Vision Difference — Why Clients Choose Us



Integrated Delivery

Field crews, senior engineers, and accredited ISO 17025 laboratory under one roof — no hand-off delays, no subcontractor gaps.



Engineer-Led Reports

Every deliverable is signed by a senior chartered engineer — findings interpreted for design, not delivered as raw data.



Schedule-Driven

Owned equipment, owned laboratory, owned teams. We hit tight oil & gas, MPW, KOC, and EPC schedules — every time.

Sectors We Serve

Oil & Gas

Infrastructure

Marine & Ports

Buildings & Towers

Industrial

Government

2004

ESTABLISHED

2000+

PROJECTS DELIVERED

4

ISO CERTIFICATIONS

Kuwait

& GCC COVERAGE



Vision International General Trading & Contracting Co. W.L.L.

Established 2004 · Kuwait-based · GCC delivery

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