

Construction sector

Raw materials

TESTING (ISO/IEC 17025)

Laboratories carry out testing of raw materials such as concrete, aggregates, cement, soils, bituminous materials, roofing materials, rock and natural stone, masonry and steel. Testing of raw construction materials checks durability, safety, characteristics and specification.

Construction products manufacturing

TESTING (ISO/IEC 17025)

Laboratories carry out testing of manufactured products such as windows, glazing and doors, pipes, ducts and fittings, plumbing components, valves, fittings and water meters, paints and coatings for performance, durability and safety characteristics.

VALIDATION/ VERIFICATION (ISO/IEC 17029)

Verification bodies confirm claims regarding such aspects as greenhouse gas emissions of cement manufacturing, ethical mining and validated potential of new materials.

PRODUCT CERTIFICATION (ISO/IEC 17065)

Certification bodies certify construction products and construction materials to facilitate product traceability and ensure quality and safety.

Distribution

INSPECTION (ISO/IEC 17020)

Inspection bodies do pre-shipment inspection of cargo to check the quantity and quality of the merchandise.

Construction

TESTING (ISO/IEC 17025)

Laboratories carry out testing of soil and groundwater for compressibility, strength and contaminants.

INSPECTION (ISO/IEC 17020)

Inspection bodies carry out inspections of on-site machinery, welding and welding procedures, pressure vessels, piping and gas, electrical safety, lifting equipment and the carriage of dangerous goods.

CERTIFICATION (ISO/IEC 17021-1)

Certification bodies certify management systems (e.g. ISO 45001) to ensure health and safety are effectively maintained in the workplace.

CERTIFICATION OF PERSONNEL (ISO/IEC 17024)

Certification bodies assess and certify workers in construction management, crane operation, signalling, rigger operation, energy inspection, building design and site management, etc.

Building completion

TESTING (ISO/IEC 17025)

Laboratories carry out testing of structures and buildings in areas such as non-destructive testing (NDT) of metal fabrications, structures, building acoustics and air leakage testing to deliver supply chain confidence.

INSPECTION (ISO/IEC 17020)

Inspection bodies carry out inspections of on-site machinery, welding and welding procedures, pressure vessels, piping and gas, electrical safety, lifting equipment and the carriage of dangerous goods.

VALIDATION/ VERIFICATION (ISO/IEC 17029)

Verification bodies confirm claims regarding, for example, sustainable buildings and validate projects for new power plants.

Building safety and management

TESTING (ISO/IEC 17025)

Laboratories carry out testing of solar panels and renewable energy installations.

INSPECTION (ISO/IEC 17020)

Inspection bodies carry out inspections for such things as legionella risk, asbestos, and gas and electrical safety.

MANAGEMENT SYSTEMS CERTIFICATION (ISO/IEC 17021-1)

Certification bodies certify management systems to help ensure that quality, health and safety, environmental matters, energy, waste, fire safety and other aspects are consistently achieved and, if not, corrected.