



Construction and building engineering services

Inspection of old and newly constructed buildings, special civil engineering inspection

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 **TÜVRheinland**[®]
Precisely Right.

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OUR SERVICES:

PROJECT ACQUISITION

- Design management (design coordination, design supervision, design monitoring)
- Real estate development, inspection and evaluation (assessing and presenting local endowments, technical-financial evaluation of public utilities, buildings, auxiliary facilities, due - diligence value analysis, preparation of feasibility studies)
- Inspection of buildings

1. INSPECTION OF CONSTRUCTED BUILDINGS

AND FACILITIES

- Building structures (On the basis of existing documents: dimension check, representative sampling; if there is no documentation: survey and dimension check; In general: insulation, heat- and sound structure inspections, non-destructive and destructive sampling, facades, partition walls, claddings, windows and doors, roof structures, material tests, documentation, auditing of procedures, preparation of expert opinion)
- Supporting structures (Inspection of foundation, frame structure, roof structure, bracing structures, material tests, documentation, auditing of procedures, preparation of expert opinion)
- Building engineering (Inspection of equipment, devices, survey and inspection of networks, definition of the actual stage in the field of heat supply, water, gas supply and sewerage, HVAC systems, indoor traffic: inspection of lifts, elevators, escalators, material tests, documentation, auditing of procedures, preparation of expert opinions)
- Building electricity (Survey, inspection of equipment, devices, networks, állapot meghatározások in the fields of heavy current, light current, building automation and building monitoring, risk-assessment and analysis of electrical network systems, material tests, preparation of expert opinions)

2. INSPECTION OF NEW BUILDINGS, FACILITIES

- Construction phase (continuous material testing, continuous inspection during construction on the basis of the effective construction permit documents and of the approved construction documents, preparation of QM plans and TI plans, auditing of procedures)
- Building structures (inspection of insulation, heat and sound structures, facades, partition walls, windows and doors, roof structures, preparation of QM plans, TI plans, auditing of procedures)
- Supporting structures (Foundation, frame structures: columns, beams, floor plate, roof structure, bracing structures: complex technical supervision of the manufacturing and installation of lifts, staircases, core part of the stairhouse, bracing of roof and side-walls, reinforced concrete and steel structures, preparation of ITPs according to international standards, preparation of



test pieces and welding procedures, TIP, non-destructive tests, destructive tests as needed)

- Building engineering (heat supply, water, gas, sewerage, sanitary installations, HVAC, installation and commissioning of networks, monitoring activity, qualification of equipment manufacturers)
- Building electricity (Heavy- and light-current, building automation, building monitoring, risk-assessment of complete electrical systems)

3. SPECIAL UNDERGROUND CONSTRUCTION (Inspection and construction of public utilities, infrastructure, water, wastewater, gas, power supply systems, monitoring of the construction of subways and tunnels)

- Environment and power engineering supervising activities (Environmental projects: water, air, wastewater, depositing of toxic substances and decontamination)
- Airports, road construction (Surface pavement and auxiliary engineering structures: technical inspection of culverts, earthworks, flyovers and undercrossings, non-destructive and destructive tests)
- Bridges

FOR MORE INFORMATION PLEASE CONSULT OUR EXPERT!

Eur. Eng. Dr. Dénes Sós-Hegedűs

Phone: +36 1 461-1170

Fax: +36 1 461-1199

denes.sos-hegedus@hu.tuv.com



TÜVRheinland®
Precisely Right.

1132 Budapest, Váci út 48/A-B.

phone: +36 1 461-1100

fax: +36 1 461-1199

e-mail: tuv@hu.tuv.com

www.tuv.hu