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INGENIEURGESELLSCHAFT FÜR BAUWESEN, GEOLOGIE UND UMWELTTECHNIK MBH

DEVELOPER

Karstadt Immobilien AG & Co. KG, Essen

PROJECT

Karstadt Leipzig, new construction

- New construction of a shopping centre over 5 storeys with 3 underground car parking levels
- Foundation ditch approx. 12 m deep in the Leipzig city centre area
- Foundation in pierraille over brown coal stratum in groundwater, as combined pillar-spread foundation
- Underpinning of historic facades and neighbouring buildings, enclosing foundation ditch with subterranean curtain 400 m long up to 30 m deep
- Subsequent undercutting of city tunnel using shield driving method

OUR SERVICES

- Investigation of subsoil, advice on foundations
- Groundwater modelling
- Preliminary planning of enclosure for foundation ditch
- Application in relation to water laws
- Estimate of influence on lowered water level due to tunnel driving
- Advice on removal of 80 leader anchors in the subterranean curtain run
- Assessment of the influence of hydraulic banking on neighbouring construction

