

PROJECT DESCRIPTION EARTH- AND TRAFFIC ROUTE CONSTRUCTION SYNTHETIC TURF STADIUM

Project: Uplandstadion
Location: Willingen
Year: 2016/2017

Site investigation and foundation consultation for the new construction of the Upland Stadium in Willingen



PROJECT DESCRIPTION

The municipality of Willingen-Schwalefeld is planning the reconstruction of the Uplandstadion, consisting of an artificial grass field and a grass field with a circulating track. For the production of the artificial grass field in the west of the construction area and the turf field with surrounding synthetic surface in the east, the existing terrain had to be partially excavated and filled up. Additional subsoil investigations identified near-surface peat layers with low load-bearing capacity, so that additional foundation measures were necessary.



PROJECT FACTS

- construction cost approx. 4 Mio €
- production of a type C, 4 / 6-lane sport arena, consisting of a synthetic lane with a natural grass playing field inside.
- artificial grass play field with irrigation and floodlighting system
- subsoil consisting of less viable peat layers



OUR SERVICE

- supplementary subsoil investigations and laboratory tests (including CBR tests)
- chemical analysis according to LAGA
- suitability tests for lime stabilization
- foundation recommendations and dimensioning of lime stabilization and increase in load capacity using geogrids
- geotechnical consulting