

## **Eurocode 7: Geotechnical design**

BS EN 1997 applies to geotechnical aspects of the design of buildings and civil engineering works.

BS EN 1997 is in two parts: BS EN 1997-1 covers the general basis for the geotechnical aspects of the design of buildings and civil engineering works, assessment of geotechnical data, use of ground improvement, ground reinforcement, dewatering and fill. It also includes geotechnical design of spread foundations, piles, anchors, retaining structures, embankments and slopes. Finally it covers calculation rules for actions originating from the ground e.g. earth and ground water pressures.

BS EN 1997-2 sets out the rules for the planning and reporting of ground investigations, the general requirements for a number of commonly used laboratory and field tests, as well as the interpretation of soil test results. The standard also looks at the derivation of the values of geotechnical parameters and coefficients during construction engineering works. The application of field testing results to design is also covered in BS EN 1997-2.

### **The specific parts, and the relevant British Standards which have been amended to work with EC 7, are:**

BS EN 1997-1- General rules. Partially replaces BS 5930:2015, BS 8006-1:2010, BS 8006-2:2011, BS 8008:2008, BS 8081:2015, BS 6031:2009, BS 8002:2015, and BS 8004:2015

BS EN 1997-2- Ground investigation and testing. Partially replaces BS 5930 and BS 1377- 9