

INTRODUCTION OF EUROCODE 7

Changes with the implementation
of new European Standards

EUROCODES 1 – 9

The aim is for the all the 10 standards to be implemented into UK Practise by March 2010

EUROCODES comprises 10 BASIC STANDARDS – EUROCODES 0 to 9 covering all disciplines from Structural design of concrete , timber, aluminium and steel structures, Geotechnical design and disciplines to designs for resisting Earthquakes .

EACH EUROCODE THEN HAS MANY ATTACHMENTS in the form of BS EN Documents

EUROCODE 7

- **COMPRISES:**
- **BS EN1997 – Geotechnical Design**
- **BS EN1997-1 Part 1 General Rules** (pub 2004)
- **BS EN1997-1 National Annex to Part 1** (pub 2007)
- **And,**
- **BS EN1997-2 Ground Investigation and Testing** (pub 2007 amended 2009)

EUROCODE 7 ATTACHMENTS-

BS EN 1997-2 – Part 2

- **Ground investigation and Testing – Sampling methods and Groundwater measurement**
- BS EN ISO 22475 series in 3 parts:
- Part 1 Technical principles for execution
- Part 2 Qualification criteria for enterprises and personell
- Part3 Conformity assessments of enterprises and personal by third parties

EUROCODE 7 ATTACHMENTS

- **Ground Investigation and Testing Field Testing**
- **BS EN ISO 22476 series in 13 parts**
- Part1 Elec cone & piezocone testing
- Part2 Dynamic Probing
- Part3 Standard penetration test
- Part4 Menard Pressuremeter test
- Part5 Flexible Dilatometer test
- Part6 Self boring Pressuremeter test
- Part 7 Borehole jacking test

BS EN ISO 22476 continued

- Part 8 Full displacement pressuremeter test
- Part 9 Field vane Test
- Part 10 Weight sounding test
- Part 11 Flat dilatometer test
- Part 12 Mechanical Cone Penetration test
- Part 13 Plate Loading Test

BS EN ISO 22282 SERIES IN 6 PARTS

- **Ground Investigation and Testing _
Geohydraulic tests**
- Part1 General Rules
- Part2 Water permeability without packers
- Part3 Water pressure test in rock
- Part4 Pumping tests
- Part 5 Infiltrometer tests
- Part 6 Closed packer systems

17892 Series in 12 parts

- **Ground Investigation and testing – Laboratory testing .**
- Part1 – Moisture content
- Part2 Density of fine grained soils
- Part3 Density of solid particles
- Part4 Particle size distribution
- Part5 Oedometer test
- Part 6 Fall cone test
- Part 7 Compression test

17892 series continued

- Part 8 Unconsolidated triaxial test
- Part 9 Consolidated triaxial test
- Part 10 Direct Shear test
- Part 11 Permeability Test
- Part 12 Atterberg Limit
- At present BS1377 parts 1 to 8 remain current, Part 9 field tests Part 7 compression test has been replaced.

BS EN ISO 14688 SERIES in 2 parts

- **Ground Investigation and testing – Identification and classification of soil**
- Part 1 – Identification and description
- Part 2 – Principles for a classification
- Both these implemented in UK in July 07, which resulted in BS5930 being amended to comply Amendment 1 – section 6

BS EN ISO 14689-1 – I part only

- Ground Investigation and testing – Identification and classification of rock
- Part 1 Identification and description
- Implemented in UK July 2007 resulting in BS5930 Amendment 1 being issued , again Section 7

BS 5930 :1999 Amendment 1 (Dec 2007)

- This was amended with due regard to implementation of BS EN ISO 14688 and 14689
- It also included updates on:
 - Standard penetration test (BS EN ISO 22476-3)
 - Dynamic Probing (BS EN ISO 22476-2)