

# Pile design to Eurocode 7 and the UK National Annex. Part 1: Eurocode 7

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#### Summery

This two-part paper presents a summary of the provisions for pile design according to Eurocode 7 and the UK National Annex.

The design process for piling depends on both calculation and testing of pilin, by either static locading or dynamic methods. Although Eurocode 7 pilin, by either static locading or dynamic methods. Although Eurocode 7 recognises the importance of combining theor, in previousness treat them separately. Furthermore, pile design has usually linked, at least implicitly, consideration of ultimate and serviceability limit states; this remains the case in Eurocode 7. In the event, specifying how calculation and testing should be used together proved to be a major challenge in drafting the UK National Arises. An extensive consultation among pile designers was undertaken to reach the consensus, which was published in November 2007.

The paper is guidished in two parts. Part I covers the provisions of Eurocode 7 itself (ENs 1997-1 and -2), which apply throughout Europe except where amended by a National Annex, Part 2 will present the values of the various factors required by the UK National Annex, regether with a description of the process by which they were derived. Part 2 will also include two worked examples showing the application of the Eurocode rules.

#### Introduction.

#### Background to Eurocode 7

Eurocode 7 Part I (EN 1997-I)<sup>1</sup> was released by the European Committee See Standardization (CEN) in November 2004 for publication as a national standard in 30 committee throughout the European Union and the European Free Trade Association (EFTA). The Echish Standards Institution published this standard at RS EN 1997-I<sup>1</sup> in December 2004.

The design of pile foundations is the subject of Section 7 of Eurocode 7 Part 1, covering topics such as limit states, actions and design situations, design methods and design iconsiderations, pile load tests, anially loaded piles, transversely loaded piles, structural design of piles, and supervision of construction. Section 7 comprises 167 paragraphy, of which 98 are Principles (general statements and definitions that must be followed) and the remainder Application Rules (generally recognised rules that comply with the Principles and satisfy their requirements). Principles are identified by their use of the verb "shall"; Application Rules employ such verbs as may and "should". Section 7 applies to end-bearing, fraction, tension, and transversely loaded piles installed by driving, jacking, screwing, and boring (with or without growting).

Under CEN rules, each National Standards Body (NSB) may provide in a National Annex (NA) decisions regarding certain national choices, where such choices are allowed in the Eurocode. These include values for Nationally Determined Parameters (NDFS), such as partial, correlation, and model factors; the procedure to be used where alternative procedures are given, decisions segarding the status of the Eurocode's informative amnexes; and references to Non-Contradictory, Complementery Information (NCCI). The UK National Annex to BS EN 1997-1 was published in November 2007.

In this paper, the provisions for pile design in the Eurocode system are briefly described. The values of the various factors required by the UK National Annex are then presented, together with a description of the photos by which they were derived. Finally, some examples of application are shown.

References to panagraphs in Eurocode 7 Part 1 are denoted by the symbol For harviry, Part 1 of Eurocode 7 will subsequently mainly be referred to as EC7.

#### Ground investigation for pile foundations

America B.3 of Eurocode 7 Part 2' provides outline guidance on the depth of investigation points for pile foundations, as illustrated in Figure 1. The recommended minimum depth of investigation below the base of the deep-rat pile, a<sub>n</sub> is the greatest of:

where by is the smaller width of the pile group on plan;

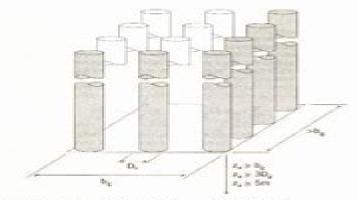


Figure 1: Recommended depth of investigation for pile foundations (after Bond and Harris\*)

(2)  $z_{\perp} = 3D_{\parallel}$ 

where Dy is the base diameter of the largest pile; and

(20, 2), at 5 m.

The depth z<sub>n</sub> may be reduced to 2m if the pile foundation is built on competent strata with "distinct" (is known) goology. With "indistinct" geology, at least 5m. If bedrock is encountered, it becomes the reference level for z<sub>n</sub>. Greater depths of investigation may be needed for very large or highly complex projects or where unfavourable goological conditions are encountered.

#### Design situations and limit states

Possible limit states for pile foundations include geotechnical failure in compression, tension, and under transverse loading; and structural failure by tracking, thear, and bending

Extracode 7 Part 1 contains a long list of design considerations for pile foundations, some of which are mandatory ("shall be taken into account") and some of which are optional ("should receive attention"). For example, the choice of pile type must account for stresses generated during installation and the effect of installation on adjacent structures, while installation indisond vibrations and soil disturbance from boring should be considered.

#### Limit state design

EC7 considers both ultimate and serviceability limit mates (ULS and SLS) and generally aims, as far as practicable, to deal with those separately. Consideration of ULS design tends to dominate the code test, perhaps because SLS requirements are more difficult to standardise. However, for piling it states in §7.6.4.1(2) that: "For piles bearing in medium-to-dense soils and for tension piles, the safety requirements for the ultimate limit state design are normally sufficient to prevent a serviceability limit state in the supported structure."

Although it is not entirely clear, it is considered that "medium-to-dense soils" is intended to include stiff, high-strength clays. Thus the require-

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