

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

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Summary

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 piles, by either static loading or dynamic methods. Although Eurocode 7 recognises the importance of combining these, its provisions 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 both calculation and testing should be used together proved to be a major challenge in drafting the UK National Annex. An extensive consultation among pile designers was undertaken to reach the consensus, which was published in November 2007.

The paper is published in two parts. Part 1 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, together 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 1 (EN 1997-1)¹ was released by the European Committee for Standardisation (CEN) in November 2004 for publication as a national standard in 30 countries throughout the European Union and the European Free Trade Association (EFTA). The British Standards Institution published this standard as BS EN 1997-1² 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 considerations; pile load tests; axially loaded piles; transversely loaded piles; structural design of piles; and supervision of construction. Section 7 comprises 147 paragraphs, 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, friction, tension, and transversely loaded piles installed by driving, jacking, screwing, and boring (with or without grouting).

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 (NDPs), such as partial, correlation, and model factors; the procedure to be used where alternative procedures are given; decisions regarding the status of the Eurocode's informative annexes; and references to Non-Contradictory, Complementary Information (NCCI). The UK National Annex to BS EN 1997-1³ 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 process by which they were derived. Finally, some examples of application are shown.

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

Ground investigation for pile foundations

Annex B.3 of Eurocode 7 Part 2⁴ 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 deepest pile, z_a , is the greatest of:

$$(1) \quad z_a \geq b_g$$

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

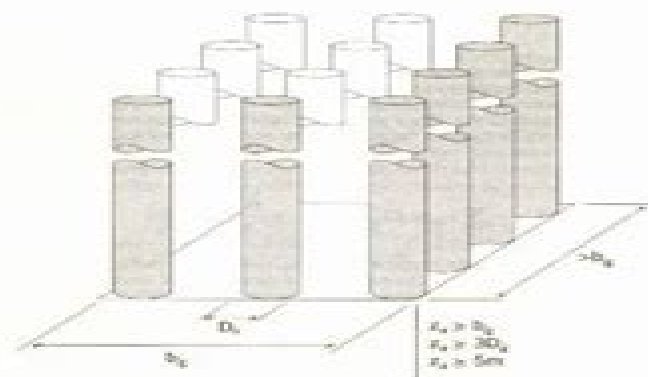


Figure 1: Recommended depth of investigation for pile foundations (after Bond and Harris⁵)

$$(2) \quad z_a \geq 3D_p$$

where D_p is the base diameter of the largest pile, and

$$(3) \quad z_a \geq 5\text{m}$$

The depth z_a may be reduced to 2m if the pile foundation is built on competent strata with "distinct" (ie known) geology. With "indistinct" geology, at least one borehole should go to at least 5m. If bedrock is encountered, it becomes the reference level for z_a . Greater depths of investigation may be needed for very large or highly complex projects or where unfavourable geological 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 buckling, shear, and bending.

Eurocode 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-induced vibrations and soil disturbance from boring should be considered.

Limit state design

EC7 considers both ultimate and serviceability limit states (ULS and SLS) and generally aims, as far as practicable, to deal with these separately. Consideration of ULS design tends to dominate the code text, 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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