

Ground bearing slabs

Introduction

Ground bearing floor slabs are most commonly found within industrial installations, such as warehouses or factories. Nevertheless, they can also be installed in all types of structures where there is no basement, provided that ground conditions are suitable. The design and detailing of these slabs is an involved process, as the interaction between the natural and/or made ground and the rigid concrete floor slab presents challenges with respect to cracking, movement and flatness. The last aspect is of utmost importance to factory floors and warehouses where the plant requires the floor to be extremely flat and level in order to function properly.

This Technical Guidance Note provides an introduction to ground bearing floor slabs, touching on the slabs' reinforcement by considering both historical use of mesh as well as current plastic and steel fibre reinforcement methods.

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Figure 1 Components of a ground bearing slab

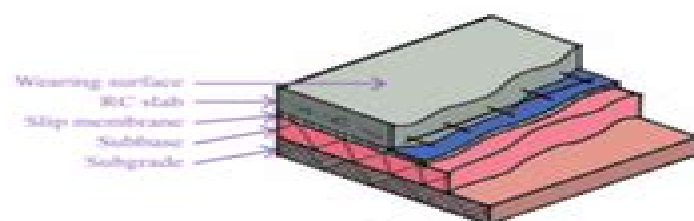
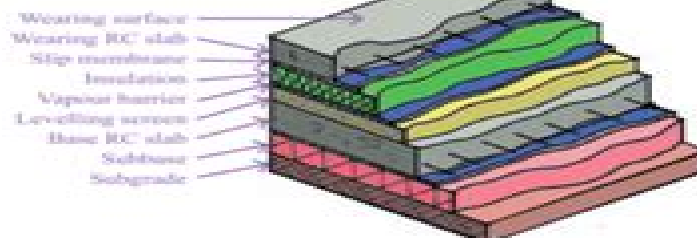


Figure 2 Components of a two layered ground bearing slab



Ground bearing slabs

When concrete floor slabs are cast directly onto the ground they rely on their rigidity and the interaction between the underlying soil to perform as intended. For larger floors there is a need to have joints within them in order to avoid the development of cracks within the floor slab. This topic has been covered before in Technical Guidance Note 26 (Level 0): Cracking in concrete. Another factor that influences the design and specification of ground bearing concrete floors is the nature of the load that they have to support. If it is non-specific human occupancy for example, it is assumed that a nominal load is applied to the floor and the only criterion is the need to create a relatively flat surface that rests on the

ground. For industrial floors this is not the case, as they typically have to support racking and heavy machinery that is moving or being used to transport items, e.g. via a forklift. In these instances careful provision needs to be made to accommodate the high point loads and very flat and level floor finish. Additionally the location of joints within the slab impacts on the location of supports to plant and storage racks.

Floor slab components

A typical ground bearing floor slab has five components, assuming it is of a single layer construction. These are listed (from bottom to top) in Figure 1 and can be summarised as:

- Subgrade – the soil against which the ground bearing slab construction is placed, but not cast

- Subbase – a graded material, usually made from broken masonry and/or rocks
- Slip membrane – provides a plane against which the concrete slab can flex independently of the subbase. This can also act as a against ground-borne gases such as methane, radon or carbon dioxide and/or moisture
- Reinforced concrete slab – the floor slab that contains either a square fabric mesh or fibres and is sometimes laid onto a binding layer of compacted sand
- Wearing surface – the exposed surface of the floor, which typically receives some sort of surface treatment, be it a paint, sealant or a screed

In some instances an insulation layer is installed. Its location would be similar to that shown in Figure 2.

Design Guide For Ground Bearing Slabs

**American Concrete Institute.
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Concrete Materials and Construction Mr. Rohit Manglik, 2024-06-24 In this book we will study about concrete materials and construction to understand its practical applications and theoretical foundations across scientific and engineering disciplines

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Structural Foundation Designers' Manual W. G. Curtin, Gerry Shaw, Gary Parkinson, J. Golding, Norman Seward, 2006-12-04 This manual for civil and structural engineers aims to simplify as much as possible a complex subject which is often treated too theoretically by explaining in a practical way how to provide uncomplicated buildable and economical foundations It explains simply clearly and with numerous worked examples how economic foundation design is achieved It deals with both straightforward and difficult sites following the process through site investigation foundation selection and finally design The book includes chapters on many aspects of foundation engineering that most other books avoid including filled and contaminated sites mining and other man made conditions features a step by step procedure for the design of lightweight and flexible rafts to fill the gap in guidance in this much neglected yet extremely economical foundation solution concentrates on foundations for building structures rather than the larger civil engineering foundations includes many innovative and economic solutions developed and used by the authors practice but not often covered in other publications provides an extensive series of appendices as a valuable reference source For the Second Edition the chapter on contaminated and derelict sites has been updated to take account of the latest guidelines on the subject including BS 10175 Elsewhere throughout the book references have been updated to take account of the latest technical publications and relevant British Standards

Design and Construction of Joints in Concrete Structures M. N. Bussell, R. Cather, 1995 This title provides advice on provision specification and construction of joints in in situ concrete construction It aims to help structural designers make informed decisions about the provision of joints in concrete structures

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