

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

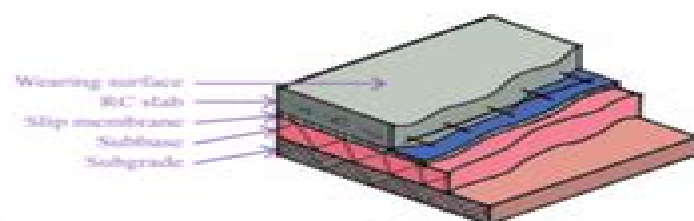
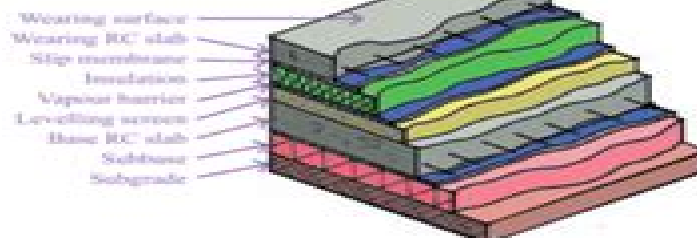


Figure 2 Components of a two layered ground bearing slab



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

Frank R. Neal



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Design of Slabs-on-ground ACI Committee 360, American Concrete Institute, 2006 **Ground Bearing Concrete Slabs** John Knapton, 2003-01-06 This comprehensive new reference work provides invaluable information to designers and specifiers throughout the design and construction project and beyond It comprises guidance on all categories of ground bearing concrete *Design Applications of Raft Foundations* J. A. Hemsley, 2000 This book examines alternative design procedures for plain and piled raft foundations It explores the assumptions that are made in the analysis of soil structure interaction together with the associated calculation methods The book gives many examples of project applications covering a wide range of structural forms and ground conditions **Structural Design of Buildings** Feng Fu, David Richardson, 2024-07-25 Structural Design of Buildings Holistic Design is the essential reference for structural engineers involved in the design of buildings and other structures It forms part of the Structural Design of Buildings series and introduces the concepts and principles involved in holistic structural design of a building **Concrete Industrial Ground Floors** Frank R. Neal, 2002-07-15 The quality of floor surfaces in industrial and commercial premises can be vitally important to effective business operations Increasingly rigorous specifications for industrial floors have resulted in considerable changes in the methods used for their construction *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 *ICE Handbook of Concrete Durability* Marios Soutsos, 2023-10-24 ICE Handbook of Concrete Durability second edition is a comprehensive practical reference for professionals involved in design and maintenance of concrete structures of all types It is an invaluable guide for construction professionals including design engineers consultants and contractors as well as postgraduate students **Advanced Concrete Technology Set** John Newman, B S Choo, 2003-11-06 Based on the Institute of Concrete Technology's advanced course this new four volume series is a comprehensive educational and reference resource for the concrete materials technologist An expert international team of authors from research academia and industry has been brought together to produce this unique reference source Each volume deals with different aspects of the properties composition uses and testing of concrete With worked examples case studies and illustrations throughout this series will be a key reference for the concrete specialist for years to come Expert international authorship ensures the series is authoritative Case studies and worked examples help the reader apply their knowledge to practice Comprehensive coverage of the subject gives the reader all the necessary reference material **Guide to Building Control** Anthony Gwynne, 2013-02-25 To clarify the practical requirements of the Building Regs and help you meet their requirements first go all the information contained in the building regulations 2010 and approved documents is presented here in an easy to understand format clear concise and fully illustrated Guidance is given for domestic buildings of up to three storeys in England and Wales including extensions loft

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