

CIRIA GUIDE C766: AN OVERVIEW OF THE UPDATED CIRIA C660 GUIDANCE ON CONTROL OF CRACKING IN REINFORCED CONCRETE STRUCTURES

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Abstract

This paper provides a brief overview of the updated version of the CIRIA C660 guide on control of thermal cracking, which has been used extensively in the UK and is also popular across Europe. The updated guide is entitled CIRIA C766 – Control of cracking caused by restrained deformation in concrete. It aims towards designing reinforced concrete structures subjected to restrained thermal and shrinkage deformations in a more efficient and sustainable manner, as well as less conservatively while maintaining an adequate degree of safety.

The primary updates present a design approach more closely aligned with BS EN 1992-1-1+A1:2014 and BS EN 1992-3:2006. Revisions include limiting cracking widths, calculation of restraint considering early age and long-term effect and viscoelasticity, models to predict temperature histories of concretes containing mineral additions, as well as a more sustainable selection of parameters relevant to the estimation of crack inducing strains and minimum steel required to control crack widths. Nonetheless, there are still aspects of design that may have not been adequately addressed, potentially requiring further improvements.

Keywords: Early age/Long term cracking, crack control, restraint, thermal and shrinkage cracking

1. INTRODUCTION

Cracking due to restrained volumetric changes in reinforced concrete (RC) structures has long been a recognised problem. This cracking occurrence is predominately associated with imposed deformations due to thermal and shrinkage (autogenous and drying) related effects, at both early ages and long-term, and it is often desired to control them in terms of the resulting crack width [1]. The primary reasons that crack control in RC structures is of great importance for the serviceability limit state design quoted in C766 are: a) ensuring adequate durability of concrete depending on exposure conditions throughout a specified design service life, b)

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Anchorage Zone Reinforcement for Post-tensioned Concrete Girders John Edward Breen, 1994 Reinforced Concrete Deep Beams F K Kong, 1991-05-01 The contents of this book have been chosen with the following main aims to review the present coverage of the major design codes and the CIRIA guide and to explain the fundamental behaviour of deep beams to provide information on design topics which are inadequately covered by the current codes and design manuals and to give authoritative review **ICE Manual of Geotechnical Engineering Volume 2** Hilary Skinner, D G Toll, Kelvin Higgins, Mike Brown, John Burland, 2023-11-17 ICE Manual of Geotechnical Engineering Second edition brings together an exceptional breadth of material to provide a definitive reference on geotechnical engineering solutions Written and edited by leading specialists each chapter provides contemporary guidance and best practice knowledge for civil and structural engineers in the field **Anchorage zones of prestressed concrete members state of the art report** FIB - International Federation for Structural Concrete, 1987-04-01 The Structural Engineer, 1998 *Construction Cost Management* Keith Potts, Nii Ankrah, 2014-01-23 In this updated and expanded second edition Keith Potts and Nii Ankrah examine key issues in construction cost management across the building and civil engineering sectors both in the UK and overseas Best practice from pre contract to post contract phases of the project life cycle are illustrated using major projects such as Heathrow Terminal 5 Crossrail and the London 2012 Olympics as case studies More worked examples legal cases case studies and current research have been introduced to cover every aspect of the cost manager's role Whole life costing value management and risk management are also addressed and self test questions at the end of each chapter support independent learning This comprehensive book is essential reading for students on surveying and construction management programmes as well as built environment practitioners with cost or project management responsibilities **Temporary Works Part Two** Ray Filip, 2025-06-12 *Temporary Works Part Two Further Principles of Design and Construction* provides authoritative and comprehensive guidance on key areas of temporary works for practising engineers Building on the successful format of *Temporary Works Principles of Design and Construction* the book provides 18 entirely new chapters *ACI Structural Journal*, 1996 *National Union Catalog*, 1981 Includes entries for maps and atlases Hot Deserts M. J. Walker, 2012 This volume provides an authoritative and comprehensive state of the art review of hot desert terrains in all parts of the world their geomaterials and influence on civil engineering site investigation design and construction It primarily covers conditions and materials in modern hot deserts but there is also coverage of unmodified ancient desert soils that exhibit engineering behaviour similar to modern desert materials Thorough and up to date guidance on modern field evaluation and ground investigation techniques in hot arid areas is provided including reference to a new approach to the desert model and detailed specialised assessments of the latest methods for materials characterisation and testing The volume is based on world wide experience in hot desert terrain and draws upon the knowledge and expertise of the members of a Geological Society

Engineering Group Working Party comprising practising geologists geomorphologists and civil engineers with a wealth of varied but complementary experience of working in hot deserts It is an essential reference book for professionals as well as a valuable textbook for students It is written in a style that is accessible to the non specialist A comprehensive glossary is also included The Geological Society of London Founded in 1807 the Geological Society of London is the oldest geological society in the world and one of the largest publishers in the Earth sciences The Society publishes a wide range of high quality peer reviewed titles for academics and professionals working in the geosciences and enjoys an enviable international reputation for the quality of its work

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