

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)

Ciria C660

Mourad M. Bakhoun



Ciria C660:

Structural Concrete, Volume 3 fib Fédération internationale du béton, 2009 The second edition of the Structural Concrete Textbook is an extensive revision that reflects advances in knowledge and technology over the past decade It was prepared in the intermediate period from the CEP FIP Model Code 1990 MC90 to fib Model Code 2010 MC2010 and as such incorporates a significant amount of information that has been already finalized for MC2010 while keeping some material from MC90 that was not yet modified considerably The objective of the Textbook is to give detailed information on a wide range of concrete engineering from selection of appropriate structural system and also materials through design and execution and finally behaviour in use The revised fib Structural Concrete Textbook covers the following main topics phases of design process conceptual design short and long term properties of conventional concrete including creep shrinkage fatigue and temperature influences special types of concretes such as self compacting concrete architectural concrete fibre reinforced concrete high and ultra high performance concrete properties of reinforcing and prestressing materials bond tension stiffening moment curvature confining effect dowel action aggregate interlock structural analysis with or without time dependent effects definition of limit states control of cracking and deformations design for moment shear or torsion buckling fatigue anchorages splices detailing design for durability including service life design aspects deterioration mechanisms modelling of deterioration mechanisms environmental influences influences of design and execution on durability fire design including changes in material and structural properties spalling degree of deterioration member design linear members and slabs with reinforcement layout deep beams management assessment maintenance repair including conservation strategies risk management types of interventions as well as aspects of execution quality assurance formwork and curing The updated Textbook provides the basics of material and structural behaviour and the fundamental knowledge needed for the design assessment or retrofitting of concrete structures It will be essential reading material for graduate students in the field of structural concrete and also assist designers and consultants in understanding the background to the rules they apply in their practice Furthermore it should prove particularly valuable to users of the new editions of Eurocode 2 for concrete buildings bridges and container structures which are based only partly on MC90 and partly on more recent knowledge which was not included in the 1999 edition of the Textbook

Thermal Cracking of Massive Concrete Structures Eduardo M.R. Fairbairn, Miguel Azenha, 2018-05-23 This book provides a State of the Art Report STAR produced by RILEM Technical Committee 254 CMS Thermal Cracking of Massive Concrete Structures Several recent developments related to the old problem of understanding predicting stresses originated from the evolution of the hydration of concrete are at the origin of the creation this technical committee Having identified a lack in the organization of up to date scientific and technological knowledge about cracking induced by hydration heat effects this STAR aims to provide both practitioners and scientists with a deep integrated overview of consolidated knowledge together with recent developments on this subject

Concrete Mix

Design, Quality Control and Specification Ken W. Day, James Aldred, Barry Hudson, 2013-11-11 This new edition provides comprehensive readily understandable assistance to concrete producers in the design and control of their product It shows how to apply the principles with or without elaborate systems and achieve competitive mix designs and close quality control without either excessive expenditure or extensive theoretical study

Concrete for the Modern Age Developments in materials and processes Dr Atef Badr, Dr Charles Fentiman, Professor Michael Grantham, Raman Mangabhai, 2017 This volume presents a wide ranging review of the latest developments in concrete technology that have been largely missing from the global conference circuit It the first major international event under the auspices of the Institute of Concrete Technology ICT and is appropriately located in the Middle East at the heart of a construction boom Themes covered include admixture technology durability mix design special cements and supplementary materials reinforced concrete and sustainability The 39 papers provide interesting theory and applicable practice blended with research findings from the application of 3D printing to performance based specifications and the role of concrete in the development of Oman to produce a volume of value to many engineers and technologists Founded in 1972 The Institute of Concrete Technology ICT's mission is to preserve and promote concrete technology as a recognised engineering discipline and consolidate the professional status of practising concrete technologists worldwide It is the concrete sector's professional development body operating internationally with some 500 members in more than 30 countries It is an awarding body for qualifications in concrete technology and a facilitator of continuing professional development CPD and networking opportunities Our partner in this conference The Military Technical College in Muscat Oman was established with the intent of becoming a Center of Excellence in engineering education Located in one purpose built state of the art well resourced center the intent is that MTC will be amongst the world's best in the field of military and applied non military technological education and training providers in the world

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

Corrosion. Materials and Structures in Construction Facundo Almeraya Calderon, Stanislav Kolisnychenko, 2021-06-22 Aggregated Book

Case Studies of Rehabilitation, Repair, Retrofitting, and Strengthening of Structures Mourad M. Bakhoun, 2010

Control of Cracking in Reinforced Concrete Structures Francis Barre, Philippe Bisch, Daniele Chauvel, Jacques Cortade, Jean-François Coste, Jean-Philippe Dubois, Silvano Erlicher, Etienne Gallitre, Pierre Labbé, Jacky Mazars, Claude Rospar, Alain Sellier, Jean-Michel Torrenti, François Toutlemonde, 2016-08-16 This book presents new guidelines for the control of cracking in massive reinforced and prestressed concrete structures Understanding this behavior during construction allows engineers to ensure properties such as durability reliability and water and air tightness throughout a structure's lifetime Based on the findings of the French national CEOS fr

project the authors extend existing engineering standards and codes to advance the measurement and prediction of cracking patterns Various behaviors of concrete under load are explored within the chapters of the book These include cracking of ties beams and in walls and the simulation and evaluation of cracking shrinkage and creep The authors propose new engineering rules for crack width and space assessment of cracking patterns and provide recommendations for measurement devices and protocols Intended as a reference for design and civil engineers working on construction projects as well as to aid further work in the research community applied examples are provided at the end of each chapter in the form of expanded measurement methods calculations and commentary on models

Early-age Thermal Crack Control in Concrete P. B. Bamforth, 2007 This guide provides a method for estimating the magnitude of crack inducing strain and the risk of cracking and where cracking will occur guidance is provided on the design of reinforcement to control crack widths

Marine Concrete Structures Mark Alexander, 2016-09-13 Marine Concrete Structures Design Durability and Performance comprehensively examines structures located in under or in close proximity to the sea A major emphasis of the book is on the long term performance of marine concrete structures that not only represent major infrastructure investment and provision but are also required to operate with minimal maintenance Chapters review the design specification construction and operation of marine concrete structures and examine their performance and durability in the marine environment A number of case studies of significant marine concrete structures from around the world are included which help to reinforce the principles outlined in earlier chapters and provide useful background to these types of structures The result is a thorough and up to date reference source that engineers researchers and postgraduate students in this field will find invaluable Covers in detail the design specification construction and operation of marine concrete structures Examines the properties and performance of concrete in the marine environment Provides case studies on significant marine concrete structures and durability based design from around the world

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