

Briefing: Ciria guide C760: guidance on embedded retaining wall design

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This paper details key aspects of the update of the Construction Industry Research and Information Association's good practice on embedded retaining walls (C760). The authors of C760 provide an overview of the new guidance on the selection and design of vertical embedded retaining walls that satisfy the requirements of Eurocodes. The guidance also covers temporary and permanent cantilevers, and anchored, single-propped and multi-propped retaining walls that are supported by embedment in soft soils, stiff clays and other competent soils and soft rocks. C760 addresses the technical and construction issues relating to the selection of appropriate wall types and construction sequence to achieve a satisfactory design. It clarifies areas of ambiguity and common misunderstandings when applying the Eurocodes to the design of embedded retaining walls and presents a clear, unambiguous method for the application of the observational method.

Notation

E	elastic modulus of the reinforcement
I	second moment of area of the reinforced-concrete section
K_0	in situ earth pressure coefficient, K_0/K_c

Introduction

An earth-retaining wall is required to withstand forces exerted by a vertical or near-vertical ground surface. An embedded retaining wall is one that penetrates and obtains some lateral support from the ground at its base.

The bending capacity of such a wall typically plays a significant role in the support of the retained material, particularly if it is free-standing. The wall may also be supported by structural members such as props, berms, ground anchors and slabs, and it may form part of a larger structure.

C760 (Gaba *et al.*, 2017) provides guidance on the selection and design of vertical embedded retaining walls in compliance with the principles in the Eurocodes. It covers all types of retaining walls, including sheet pile walls, king post walls, contiguous bored pile walls, secant bored pile walls and diaphragm walls.

It is possible to make economies in embedded retaining walls by selecting an appropriate wall type and support system for the envisaged construction method, construction sequence and long-term use. It is important to adopt a clear, unambiguous design method and to follow appropriate good practice of ground investigation, laboratory and field testing and design analysis, and utilise good-quality case study data. C760 provides guidance on all these points.

Construction Industry Research and Information Association and ground engineering

Whether it is designing and constructing embedded retaining walls for some of the world's most iconic (and not so iconic) infrastructure or designing and constructing levees to protect vulnerable communities from flooding, Construction Industry Research and Information Association's (Ciria) good practice guidance documents are used for a variety of construction and civil engineering schemes.

From everyday construction projects to once-in-a-lifetime major infrastructure schemes, enabling practitioners to design, construct and manage better has been the role of Ciria's research since the inception of the organisation in 1967. The very first research and development work Ciria commissioned was on a series of practical piling guides, leading to the PG Piling series, which became the industry standard for the decades that followed.

Research that Ciria undertakes in the area of ground engineering is steered by the Ciria Ground Engineering Advisory Panel before the wider industry is approached to support its development. Ciria also provides secretariat services to the client-led Geotechnical Asset Owners Forum, which helps position Ciria to identify and develop guidance that meets their particular needs.

Ciria's ground engineering research is a part of Ciria's civil engineering infrastructure programme of good practice guidance research, which is now heavily influenced by the 'digital transformation' and the profound opportunities afforded to the

Regulations Ciria Design Guide

Ray Tricker



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Tunnel Lining Design Guide British Tunnelling Society, Institution of Civil Engineers (Great Britain), 2004 Of geotechnical and geophysical properties 160 10 3 4 Design of tunnel linings 1 61 10 4 Instrumentation of the CTRL North Downs Tunnel 164 10 5 References 165 Appendix I Abbreviations and symbols 166 Appendix 2 Risk management 168 A21 Introduction 168 A2 2 Scope 168 A23 Risk register 169 A21 1 When to use the risk register 169 A2 32 What is it 169 A2 3 3 Assessment process 169 A2 3 4 Key steps 169 A2 3 5 Risk assessment qualitative or quantitative 171 A2 3 6 Ranking risk 175 A2 4 References 17

CDM Regulations Procedures Manual Stuart D. Summerhayes, 2008-04-15 The Construction Design and Management Regulations require all those involved in construction to adopt an integrated approach to health and safety management Clients designers and contractors as well as planning supervisors must now work together to ensure that health and safety management issues are considered throughout all phases of a project Appropriate procedures must be established to ensure that documentation is clear and a structured approach is adopted by all those involved in a project to ensure that the requirements of the regulations are complied with This Procedures Manual provides a documentation system which has been developed by a practising planning supervisor It addresses the full range of obligations of the client planning supervisor designer s principal contractor and contractors for compliance with the statutory requirements and features flow charts checklists model forms including service agreements notices and health and safety plans standard letters and proformas In addition to providing the necessary documentary record the Procedures Manual also functions as a control document for quality assurance purposes The new edition has been revised to take account of Approved Code of Practice for the Regulations

The Essential Guide to the ICE Specification for Piling and Embedded Retaining Walls Federation of Piling Specialists, 1999 First published in 1996 this updated guide provides practical advice on the use of ICE Institute of Civil Engineers specifications and includes a detailed commentary on each section with references to specific clauses Technology Industrial Arts

Design Risk Management Stuart D. Summerhayes, 2010-02-19 The Construction Design and Management Regulations 2007 CDM Regulations 2007 is a revision of a major piece of legislation within the wide portfolio of construction related legislation It seeks to improve the long term health and safety performance of the UK construction industry with ownership of health and safety proactively undertaken by the integrated project team Good design has always embraced health and safety issues and design teams remain essential players as well as key contributors and communicators in matters of health and safety management Designers have a legal responsibility to ensure that their designs account for health and safety at all stages within the holistic envelope of construction Design Risk Management Contribution to Health and Safety gives detailed guidance to construction practitioners with design responsibility on how to identify and manage health and safety risks and on the design strategies to be followed It seeks to focus on accountability with due emphasis on the minimisation of unnecessary bureaucracy and offers documentation trails that provide an insight to managing risk and not

paperwork Subsequently it offers a process by which designers can discharge their duties in compliance with the CDM Regulations *Using the Building Regulations* Mike Billington, 2012-08-21 As the Building Regulations and Approved Documents have become more and more complex they have become increasingly unfriendly for a professional user Compliance is only possible by understanding a wide range of supporting documentation Alternative approaches are implied but not described or analysed This book examines Approved Document C on Site Preparation and takes the user through all the key stages of preparation compliance inspection and enforcement It offers practical advice on using not just the traditional routes to compliance but also on the alternative approaches suggested but not explained in the Approved Documents The advantages and disadvantages of each form of compliance are analysed in depth Everything you need to know to prepare a site's fixtures against contamination and moisture is discussed including floors walls window frames door thresholds and roofs This is an indispensable text for professional designers architects structural and other specialist engineers building control officers and students in construction building and architecture [An Introduction to Coastal Engineering](#) Michael Isaacson, 2024-11-07 Understand and respond to a changing coastline with this comprehensive reference Coastal engineering concerns society's interactions with coastlines and relates for example to coastal flooding beach erosion seawalls and breakwaters and the design of marinas As climate change drives sea level rise coastal engineering is critical in responding to increased coastal flooding and receding shorelines The need to develop coastal infrastructure while minimizing environmental impacts makes this a vital field An Introduction to Coastal Engineering offers a comprehensive overview of this subject designed to bridge existing gaps in the general civil engineering literature Covering all major aspects of coastal engineering including ocean wave behaviour structures sediments mixing processes and modelling the book emphasizes practical solutions and applications for students and practicing engineers alike Thorough and rigorous yet highly readable the book is a must own tool for developing solutions towards a sustainable coastal future An Introduction to Coastal Engineering readers will also find Pertinent descriptions of wave theories wave transformations and random waves Detailed discussion of practical solutions recent advancements in the field and up to date data sources Worked through examples and end of chapter problems with some written assignments A spreadsheet appendix containing a set of reference solutions An Introduction to Coastal Engineering is ideal for students in upper level undergraduate and graduate courses in coastal engineering practicing coastal engineers and other engineers engaged in coastal flood protection waterfront development projects and the minimization of environmental impacts along shorelines **River Diversions** Karen Fisher, David Ramsbottom, 2001 River diversions A design guide covers all aspects of river diversion design including technical construction and legal matters in one concise volume This essential book provides guidance on the design of river diversions taking into account the wide range of issues that must be considered in the planning design and construction Split into four parts this authoritative volume begins with an overall view on the issues to be addressed in river diversion design

details of data requirements and outline design procedure 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 Construction Health and Safety in Coastal and Maritime Engineering Ian Cruickshank, Stephen Cork, 2005 Over 500 million is spent on coastal and maritime construction in the UK every year This work is particularly hazardous due to the hostile environment and uncertainty caused by the combination of storms waves currents and tides At present there is little health and safety related guidance available to assist coastal maritime clients designers contractors and other stakeholders to ensure this work is undertaken in a safe manner The CDM Regulations amongst others regulations require these parties to consider and assess construction risks *Environmental Handbook for Building and Civil Engineering Projects* Roger Venables, 1994 This handbook contains information and practical guidance on the environmental issues likely to be encountered at each stage in the tendering and construction phases of a building or civil engineering project It is aimed at informing construction managers clients designers and other consultants engineers and scientists on their obligations and the opportunities open to them to improve the industrys environmental performance *Sustainable Construction* Sandy Halliday, 2008-01-14 It has taken a very long time for sustainable development to be recognised as a justified restraint on inappropriate development and a primary driver of improving quality of life for all For designers clients and project managers this means we have to create healthy buildings and places which support communities enhance biodiversity and contribute to reversing unsustainable trends in pollution and resource consumption It is a very positive agenda This groundbreaking book will help all building design management and cost professionals to understand sustainable design and provide the technical skills needed to implement the most up to date concepts Based on a hugely successful series of workshops for professionals in construction the book covers the history of ideas materials measurement both cost and benchmarking performance environmental services and the building design and delivery process through to post occupancy evaluation It covers individual buildings and the urban scale Sustainable Construction is a master class in how to achieve practical affordable replicable sustainable design It has something new and often surprising in it for everybody in the construction industry For the Architect and Engineer it gives chapter and verse to the basic design issues at all scales and through the whole of the plan of work For Quantity Surveyors and cost professionals it challenges current conventions with researched case study evidence For clients and project managers it outlines the drivers and the justification for a sustainable approach and outlines the legislative framework and it gives guidance on procurement and project and site management issues For contractors and developers it contains a wealth of case study material rooted in practical experience and economic reality For teachers and students it will bust myths liberate thinking

and inform design **Building Regulations in Brief** Ray Tricker,2004-07-15 Still baffled by the Building Regs Confused by codes of practice Mystified by materials and puzzled by planning permission Then look no further This is an ideal guide to glance at when you need a quick precise answer to the requirements of the Building Regulations This new edition includes the latest revisions to Part E and Part M published in 2003 and 2004 It explains the meaning of all the regulations their history current status requirements associated documentation and how local authorities and councils view its importance also emphasising the benefits and requirements of these regulations **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 **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 *Steel Designers' Manual* SCI (Steel Construction Institute),2016-06-27 In 2010 the then current European national standards for building and construction were replaced by the EN Eurocodes a set of pan European model building codes developed by the European Committee for Standardization The Eurocodes are a series of 10 European Standards EN 1990 EN 1999 that provide a common approach for the design of buildings other civil engineering works and construction products The design standards embodied in these Eurocodes will be used for all European public works and are set to become the de facto standard for the private sector in Europe with probable adoption in many other countries This classic manual on structural steelwork design was first published in 1955 since when it has sold many tens of thousands of copies worldwide For the seventh edition of the Steel Designers Manual all chapters have been comprehensively reviewed revised to ensure they reflect current approaches and best practice and brought in to compliance with EN 1993 Design of Steel Structures the so called Eurocode 3 [The Structural Engineer](#) ,2006 **ICE Handbook of Urban Drainage Practice** Richard Ashley,Brian Smith,Paul Shaffer,Issy Caffoor,2024-02-16 Written by leading experts ICE Handbook of Urban Drainage Practice provides an overview of key challenges opportunities and future directions of urban drainage in a practical accessible way An invaluable tool for local authority engineers environmental engineers drainage design operation engineers and consultants or contractors **CDM Questions and Answers** Pat Perry,2002 Part 1 Introduction to construction Design and Management Regulations 1994 and general health and safety The Construction Design and Management Regulations 1994 explained General health and safety Part 2 Feasibility and design stage The Client The Planning Supervisor The Designer The Principal Contractor Part 3 Proceeding to site The Client The planning Supervisor The Designer The Principal Contractor The Pre tender Health and Safety Plan The Construction phase health and safety plan Part

4 On site The Client The Designer The Planning Supervisor The Principal Contractor Contractors Practical on site initiatives
Part 5 Post Construction Design Risk Assessment The Health and Safety File Appendices **Refurbishing Occupied Buildings** Bev Nutt, Peter McLennan, Roger Walters, 1998 Based around the CDM regulations this guide draws information from Health and Safety Executive data to develop a profile of construction activities enabling readers to identify and prioritise health and safety risks during the refurbishment of occupied buildings *Lloyd's Register Technical Association Session 1997-1998* Lloyd's Register Foundation, 1997-01-01 The Lloyd's Register Technical Association LRTA was established in 1920 with the primary objective of sharing technical expertise and knowledge within Lloyd's Register Publications have consistently been released on a yearly basis with a brief interruption between 1938 and 1946 These publications serve as a key reference point for best practices and were initially reserved for internal use to maximise LR's competitive advantage Today the LRTA takes a fresh approach focusing on collaboration by combining professional expertise from across LRF Group to ensure a frequent output of fresh perspectives and relevant content The LRTA has evolved into a Group wide initiative that identifies captures and shares knowledge spanning various business streams and functions To support this modern approach the LRTA has adopted a new structure featuring representatives and senior governance across the business streams and the LR Foundation The Lloyd's Register Technical Association Papers should be seen as historical documents representing earlier viewpoints and are not reflective of current thinking and perspectives by the current LR Technical Association The Lloyd's Register Staff Association LRSA changed its name to the Lloyd's Register Technical Association LRTA in 1973

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