



Figure 1.2 CIRIA Guide 3—meanings of symbols  $c_1$ ,  $c_2$ ,  $h$ ,  $l$  and  $l_c$

The CIRIA Guide considers that the active height  $h_a$  of a deep beam is limited to a depth equal to the span; that part of the beam above this height is taken merely as a load-bearing wall between supports.

#### 1.4.1 CIRIA Guide 'Simple Rules'

CIRIA's 'Simple Rules' are intended primarily for uniformly loaded deep beams. They can be applied to both single-span and continuous beams.

##### 1.4.1.1 Flexural strength

*Step 1:* Calculate the capacity of the concrete section.

$$M_u = 0.12 f_{cu} b h_a^2 \quad (1.3)$$

where  $f_{cu}$  is the concrete characteristic strength and  $b$  the beam thickness.

*Step 2:* If  $l/h_a \leq .5$  go to step 3. If  $l/h_a > 1.5$  check that the applied moment  $M$  does not exceed  $M_u$  of Eqn (1.3)

*Step 3:* Calculate the area  $A_s$  of the main longitudinal reinforcement:

$$A_s > M / 0.87 f_y z \quad (1.4)$$

where  $M$  is the applied moment,  $f_y$  the steel characteristic strength and  $z$  the lever arm, which is to be taken as follows:

$$z = 0.2l + 0.4h_a \text{ for single-span beams} \quad (1.5)$$

$$z = 0.2l + 0.3h_a \text{ for continuous beams} \quad (1.6)$$

*Step 4:* Distribute the reinforcement  $A_s$  (Eqn (1.4)) over a depth of  $0.2h_a$ . Anchor the reinforcement bars to develop at least 80% of the maximum ultimate force beyond the face of the support. A proper

# Ciria Guide 2 The Design Of Deep Beams

**Geodex International**



## **Ciria Guide 2 The Design Of Deep Beams:**

*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

Precast Concrete Structures Kim S. Elliott,2019-08-08 This second edition of *Precast Concrete Structures* introduces the conceptual design ideas for the prefabrication of concrete structures and presents a number of worked examples that translate designs from BS 8110 to Eurocode EC2 before going into the detail of the design manufacture and construction of precast concrete multi storey buildings Detailed structural analysis of precast concrete and its use is provided and some details are presented of recent precast skeletal frames of up to forty storeys The theory is supported by numerous worked examples to Eurocodes and European Product Standards for precast reinforced and prestressed concrete elements composite construction joints and connections and frame stability together with extensive specifications for precast concrete structures The book is extensively illustrated with over 500 photographs and line drawings

*The Design of Deep Beams in Reinforced Concrete* ,1977 The Structural Engineer ,1998 *Geodex Structural Information Service* Geodex International,1987 **Reinforced Concrete Designer's Handbook** Charles Edward Reynolds,James Cyril Steedman,1981 A Viewpoint publication Proceedings - Institution of Civil Engineers Institution of Civil Engineers (Great Britain),1989 **ACI Structural Journal** ,2008 **Reinforcement Detailing Manual** Robin Whittle,1981 *Proceedings* Institution of Civil Engineers (Great Britain),1988-02 **Journal of Advanced Materials** ,2007 *Offshore Structures* G. S. T. Armer,F. K. Garas,1981 **Proceedings** International Congress of the Precast Concrete Industry,1994 **Journal of Ferrocement** ,2002 Magazine of Concrete Research ,1983 Concrete Abstracts ,1986 **High-performance Concrete** V. M. Malhotra,1994 PCI Journal ,1990 Dissertation Abstracts International ,1989 **ACI Materials Journal** ,1998

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### **Table of Contents Ciria Guide 2 The Design Of Deep Beams**

1. Understanding the eBook Ciria Guide 2 The Design Of Deep Beams
  - The Rise of Digital Reading Ciria Guide 2 The Design Of Deep Beams
  - Advantages of eBooks Over Traditional Books
2. Identifying Ciria Guide 2 The Design Of Deep Beams
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Ciria Guide 2 The Design Of Deep Beams
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ciria Guide 2 The Design Of Deep Beams
  - Personalized Recommendations
  - Ciria Guide 2 The Design Of Deep Beams User Reviews and Ratings

- Ciria Guide 2 The Design Of Deep Beams and Bestseller Lists
- 5. Accessing Ciria Guide 2 The Design Of Deep Beams Free and Paid eBooks
  - Ciria Guide 2 The Design Of Deep Beams Public Domain eBooks
  - Ciria Guide 2 The Design Of Deep Beams eBook Subscription Services
  - Ciria Guide 2 The Design Of Deep Beams Budget-Friendly Options
- 6. Navigating Ciria Guide 2 The Design Of Deep Beams eBook Formats
  - ePub, PDF, MOBI, and More
  - Ciria Guide 2 The Design Of Deep Beams Compatibility with Devices
  - Ciria Guide 2 The Design Of Deep Beams Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ciria Guide 2 The Design Of Deep Beams
  - Highlighting and Note-Taking Ciria Guide 2 The Design Of Deep Beams
  - Interactive Elements Ciria Guide 2 The Design Of Deep Beams
- 8. Staying Engaged with Ciria Guide 2 The Design Of Deep Beams
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ciria Guide 2 The Design Of Deep Beams
- 9. Balancing eBooks and Physical Books Ciria Guide 2 The Design Of Deep Beams
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ciria Guide 2 The Design Of Deep Beams
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ciria Guide 2 The Design Of Deep Beams
  - Setting Reading Goals Ciria Guide 2 The Design Of Deep Beams
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ciria Guide 2 The Design Of Deep Beams
  - Fact-Checking eBook Content of Ciria Guide 2 The Design Of Deep Beams
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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