



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 2 The Design Of Deep Beams

Michael Hoelscher



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Table of Contents Ciria 2 The Design Of Deep Beams

1. Understanding the eBook Ciria 2 The Design Of Deep Beams
 - The Rise of Digital Reading Ciria 2 The Design Of Deep Beams
 - Advantages of eBooks Over Traditional Books
2. Identifying Ciria 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 2 The Design Of Deep Beams
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ciria 2 The Design Of Deep Beams
 - Personalized Recommendations
 - Ciria 2 The Design Of Deep Beams User Reviews and Ratings
 - Ciria 2 The Design Of Deep Beams and Bestseller Lists
5. Accessing Ciria 2 The Design Of Deep Beams Free and Paid eBooks
 - Ciria 2 The Design Of Deep Beams Public Domain eBooks
 - Ciria 2 The Design Of Deep Beams eBook Subscription Services
 - Ciria 2 The Design Of Deep Beams Budget-Friendly Options

6. Navigating Ciria 2 The Design Of Deep Beams eBook Formats
 - ePub, PDF, MOBI, and More
 - Ciria 2 The Design Of Deep Beams Compatibility with Devices
 - Ciria 2 The Design Of Deep Beams Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ciria 2 The Design Of Deep Beams
 - Highlighting and Note-Taking Ciria 2 The Design Of Deep Beams
 - Interactive Elements Ciria 2 The Design Of Deep Beams
8. Staying Engaged with Ciria 2 The Design Of Deep Beams
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ciria 2 The Design Of Deep Beams
9. Balancing eBooks and Physical Books Ciria 2 The Design Of Deep Beams
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ciria 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 2 The Design Of Deep Beams
 - Setting Reading Goals Ciria 2 The Design Of Deep Beams
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ciria 2 The Design Of Deep Beams
 - Fact-Checking eBook Content of Ciria 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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