

Figure 1.2 CIRIA Guide 2—meanings of symbols c, c, h / and /.

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'

CIRLA'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.

$$M_u = 0.12 f_{cu} b h_s^2$$
 (1.3)

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

- Step 2: If $l/h_* \le .5$ go to step 3. If $l/h_{*>}1.5$ check that the applied moment M does not exceed M_u of Eqn (1.3)
- Step 3: Calculate the area A of the main longitudinal reinforcement:

$$A > M/0.87 f_v z$$
 (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:

$$=0.2l+0.4h_*$$
 for single-span beams (1.5)

$$=0.2l+0.3h_*$$
 for continuous beams (1.6)

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

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A Gutmann



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