Errata – Properties of Concrete for use in Eurocode 2
Published 2008
CCIP-029

Page 7 – Compressive strength section

The values of 1000 and 1125 in equations 2 and 3 should be 1.0 and 1.125 respectively.

3.4 Confined concrete

Confinement of concrete results in a modification of the effective stress–strain relationship. Confinement can be generated by links or cross-ties adequately anchored to resist bursting stresses. This results in an increased effective compressive strength, $f_{ck,c}$ and higher critical strains as outlined in BS EN 1992-1-1, Clause 3.1.9. The value of $f_{ck,c}$ is calculated using the expressions:

EC2 3.24

$$f_{ck,c} = f_{ck} (1000 + 5.0\, \sigma_2/f_{ck}) \qquad \text{for } \sigma_2 \leq 0.05 f_{ck} \qquad (2)$$

EC2 3.25

$$f_{ck,c} = f_{ck} (1125 + 2.5\, \sigma_2/f_{ck}) \qquad \text{for } \sigma_2 > 0.05 f_{ck} \qquad (3)$$

η_{fi} = reduction factor (see 'combinations of actions' section on page 2)