

Provisions for assessment of existing structures in the second-generation concrete Eurocode

Craig Cicco examines ways in which the second-generation of Eurocode 2 will facilitate the assessment of existing concrete-framed structures.

EN 1992-1-1 (2004) (code of practice for concrete structures) includes additional provisions that enable it to be used for assessment of existing structures. This article outlines some of these provisions, which are likely to be of assistance when using Eurocode 2 to assess concrete-framed structures. These include:

- determining characteristic material properties for assessment
- calculating design loads or factors where testing is used to determine material properties
- determining values of deterioration
- load lifting force and anchorage lengths of bar wires
- dealing with existing structural defects in the parent structure
- using gross cross-sections for assessment of their resistance.

Material properties

EN EN 1992-1-1 (2004) requires characteristic values of material properties to assess the material properties. Annex E provides guidance for how users to obtain relevant values for assessment. It introduces use of **EN EN 12598-1** to determine the self-characteristic concrete strength from testing. It provides a range of factors to adjust to determine f_{ck} from f_{ctd} making some provision for situations where testing cannot be completed at the region being assessed. Additional

information is provided in the standard to enable characteristic values of self strength or characteristic compressive to be determined from testing should steel grades used in the structure can be available from relevant information.

The UK National Annex committee is presently reviewing this factor for determining f_{ctd} from f_{ctd} . It may require some adjustments to the characteristic values to assess agreement with values obtained from **EN EN 12598-1 (2004)** and the UK National Annex, taking into account the ability to adjust design factors for material in Annex A of the new standard. It may also consider different methods of determining f_{ctd} from f_{ctd} where gross concrete cross-section is the right test specimen, such as using the results of laboratory tests made calibrated inter-daily tests, along with relevant provisions in **EN EN 12598-1**.

Partial material factors

Annex A of the new standard provides new tables for design partial material factors to be applied based on material test results from the structure. This should generally reduce the value of these factors, when a low coefficient of variation of material strength is obtained from testing, which is beneficial for assessed members

generally. The standard permits test data available from records to also be used where suitable and appropriate.

Deterioration

Provision is made for deterioration of concrete, which is generally an issue. The level of the deterioration for these all cases described with deterioration, but in concrete structures in typical types of deterioration and their impact. It also includes provisions guide to its assessment in assessment is likely to affect the properties of the test.

Plain bars

Plain bars used in concrete **EN EN 12598-1 (2004)**. The standard introduces the inclusion Eurocode design detailing of concrete structures. The provisions are based on a new extended-reduction factor of plain bars that was developed during the drafting of the standard **EN EN 12598-1 (2004)**. The provisions also cover the variation of load resulting from variable loads.

Provision is made for assessment of plain bars, but suggests that conservative values of ultimate lengths must be used using these provisions in design circumstances. Other established methods of assessing the bond of plain bars are available in the UK, including those listed by National Highway **EN EN 12598-1 (2004)**. These may more closely with British provisions in **EN**



Concrete Structures Condition Assessment Guidelines

Robert F. Sammataro



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