

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) (referred to as EN 1992-1) 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;
- adjusting design loads or factors where testing is used to determine material properties;
- determining values of deterioration;
- load lifting force and anchorage lengths of bar ends;
- dealing with existing structures' capacity to be tested directly;
- using gross cross-sections for assessment of their resistance.

Material properties

EN 1992-1-1 (2004) requires characteristic values of material properties to assess the member resistance. Annex E provides guidance for how values to obtain design values for assessment. It introduces what **EN 1992-1-1 (2004)** refers to as the 'characteristic concrete strength from testing'. It provides a range of factors to adjust to determine f_{ck} from f_{ctd} (taking some provision for 'deterioration' where testing is not to be carried at the region being assessed). Additional

information is provided in the standard to enable characteristic values of steel strength or reinforcement to be determined from testing should steel grades used in the structure not be available from national authorities.

The UK National Annex committee is presently reviewing this factor for determining f_{ck} from f_{ctd} . It may require some adjustments to the characteristic values to assess agreement with values obtained from **EN 1992-1-1 (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_{ck} from f_{ctd} where gross concrete cross-sections and the region being assessed, such as using the results of 'representative tests' performed on nearby cores, along with relevant provisions in **EN 12601 (2001)**.

Partial material factors

Annex E 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 spirit of the provisions is to take an issue described with deterioration, but to consider it relative to typical types of deterioration and their impact. It also clearly provides guidance on when assessment in accordance is likely to affect the provision of the test.

Plain bars

Plain bars were not covered in **EN 1992-1-1 (2004)**. The standard introduces this into the Eurocode, similar to existing concrete standards. The provisions are based on a new extended-member test of plain bars that was developed during the drafting of the standard (Pohlmann et al.). The provisions also cover the variation of load resulting from variable cross-section.

Provision is made for members that, for reasons that compromise levels of anchorage lengths, must anchor using these provisions in certain circumstances. Other established methods of assessing the bond of plain bars are available in the UK, including those listed by National Highway **EN 12601**. These may more closely with British provisions in **EN**



Concrete Structures Condition Assessment Guidelines

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