

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
- 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 structural defects in the parent structure
- 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 material properties. Annex E provides guidance for how users to obtain relevant values for assessment. It introduces what EN 1992-1-1 (2004) calls *existing* rather than *observed* concrete strength from testing. It provides a range of factors to adjust to determine f_{ck} from f_{ct} , making some provision for situations where testing cannot be completed at the region being assessed. Additional

information is provided to 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 relevant information.

The UK National Annex committee is presently reviewing this factor for determining f_{ck} from f_{ct} . 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 partial to Annex A of the new standard. It may also consider different methods of determining f_{ck} from f_{ct} where gross concrete cross-sections and the region being assessed, such as using the results of laboratory tests have calibrated inter-daily data, along with relevant provisions in EN 1992-1-1 (2004).

Partial material factors

Annex A of EN 1992-1-1 provides new tables for 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.

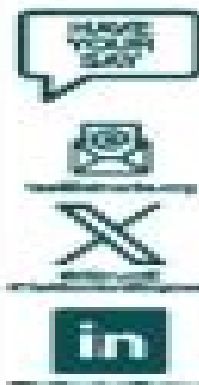
Deterioration

Provision is made for deterioration of steel frames is generally not used. The spirit of the provisions for these are not designed with deterioration, but to consider adverse fire impact. It also helps provide guidance on circumstances in which it is likely to affect the properties of the steel.

Plain bars

EN 1992-1-1 (2004) allows EN 1992-1-1 (2004). The standard introduces the inclusion of concrete sections designed with plain bars. The provisions are based on a new extended-region model 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-sections.

Provision is made for situations that suggests that conservative values of anchorage lengths could be achieved 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 (2004). These may more closely with British provisions in EN



Concrete Structures Condition Assessment Guidelines

Puja Mehta



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