

Software check of the Spit anchor calculation software i-Expert (version 2020.03) for fastenings in concrete according to EN1992-4:2018

The engineering company Siggma was commissioned by the company Spit to check the Spit anchor calculation software i-Expert (version 2020.03) for fastenings in concrete according to EN 1992-4:2018. A series of application cases to test various features and design algorithm of the program were defined and the software results were compared to control calculations.

The review has shown that the design of the checked applications, as regulated by EN 1992-4:2018, is correctly performed by the software (version 2020.03).

The software i-Expert (version 2020.03) robustness was checked on the series of comprehensive test examples which have been chosen jointly with the company Spit. However, a complete check of all functions and design scenarios as well as the correctness of the assessment values in the database cannot be guaranteed, therefore, when using Spit i-Expert Software, the following has to be considered:

1. The data input and the results of the software must be checked by the user.
2. The user bears the sole responsibility of the completeness and absence of errors in the data input.
3. The user must ensure that the software is up to date by checking for latest updates.
4. The aim of the software is to work as a calculation aid and to assist in the interpretation of norms, however the user must ensure that the calculation is checked to assure the absence of any errors and the compliance of the design with norms and regulations related to the specific considered application.