The Influence of the Thickness of the Slab and Concrete Grade on Composite Floors

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Tomme: LVI (LX) | **Fascicle:** 2 | 2010
Pages: 85-92
Abstract text:
A modern flooring system is the ComFloor Composite Floor Deck from Corus. This type of floor has many advantages involving cost, weight, construction speed, but also disadvantages regarding vibrations induced by human activity. The vibration behaviour of this system was analysed taking into consideration two parameters: the thickness of the slab and the grade of the concrete. Two sets of models were made, one with composite beams and one with steel beams. The purpose was to make a comparison between these two types of flooring systems. Results showed a good improvement created by the composite action of the beams and usefull information regarding the two parameters considered.
Key Words:
ultra shallow floor beam; vibrations; parametric study; frequency.

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Current Issue
T. LVI (LX), Fasc. 3, 2010

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