

- **RBA-CIB-013-IP**

Alternative method for measurement of impact sound improvement on lightweight floors

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As an alternative to the proposed methods of ISO/CD 140-12 a new test method using a simulated lightweight floor mounted on top of a standard concrete floor has been tested. Round-Robin measurements between 5 different laboratories in the Nordic countries, one in Germany and one in Austria have been carried out. 3 different floor coverings were tested on 3 different simulated lightweight floor constructions. The results indicate good agreement as far as the weighted impact sound improvement is concerned but there are still some question marks concerning some frequency band values. Complete results will be presented together with some background material.