

Alion Science and Technology

April 5, 2005

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Subject: An Evaluation of the Effectiveness of Kinetics SR Floorboard in Reducing the Impact Sound Transmission Through an 8" Flexicore Concrete Floor

Dear Mr. Swysgood:

Upon your request we have evaluated the effectiveness of Kinetics SR Floorboard in reducing the impact sound transmission through our reference 8 inch thick concrete floor.

The impact transmission results of RAL test number IN86-26, an ASTM E492 test conducted on "A CTI Case #16B Floor/Ceiling Assembly Without Hanging Ceiling" was compared to the average impact results for Riverbank's 8 inch thick precast concrete reference slab.

The 8 inch thick precast concrete reference slab consists of Flexicore® Model #824A-D-22 panels. The IN86-26 floor finish over the same concrete substrate consisted of nominal 1/2 in. thick ceramic tile set on 7/16 in. thick cementitious backer units with a dry-set bond coat composite placed over a layer of 5/8 in. thick molded fiberglass honeycomb composite "Kinetics SR Floorboard."

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Results of the comparison are as follows:

Bare Standard 8 Inch thick precast concrete reference slab	IIC 21
8 Inch thick precast concrete reference slab w/ Rigid Covering of Tile / Cement board / SRFloorboard	IIC 59
Reduction in Impact Level due to Rigid Floor Finish System	38 dB

Sincerely,



David L. Moyer
Laboratory Manager

DLM/ks