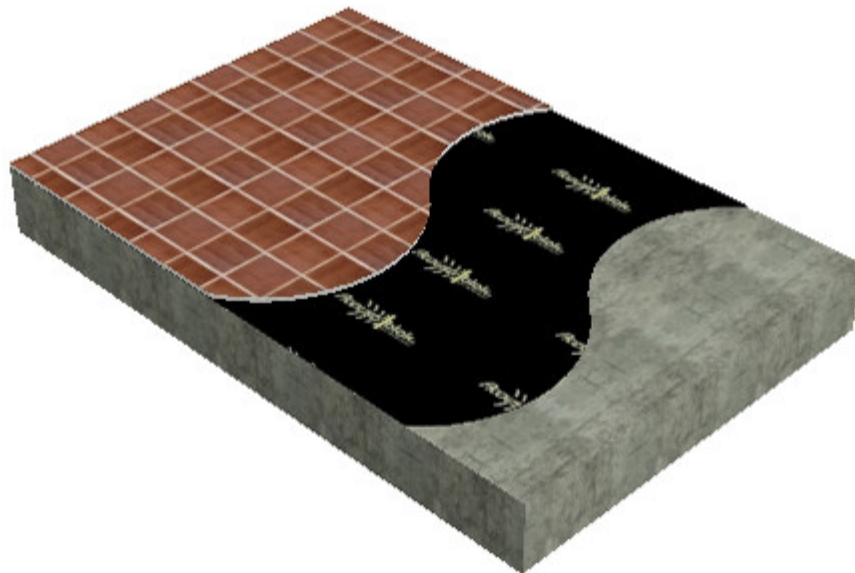


## Document Name

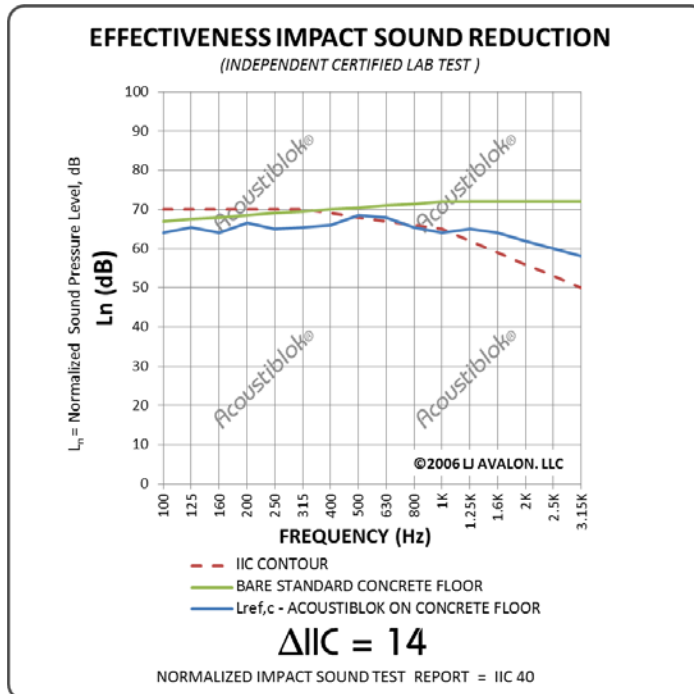
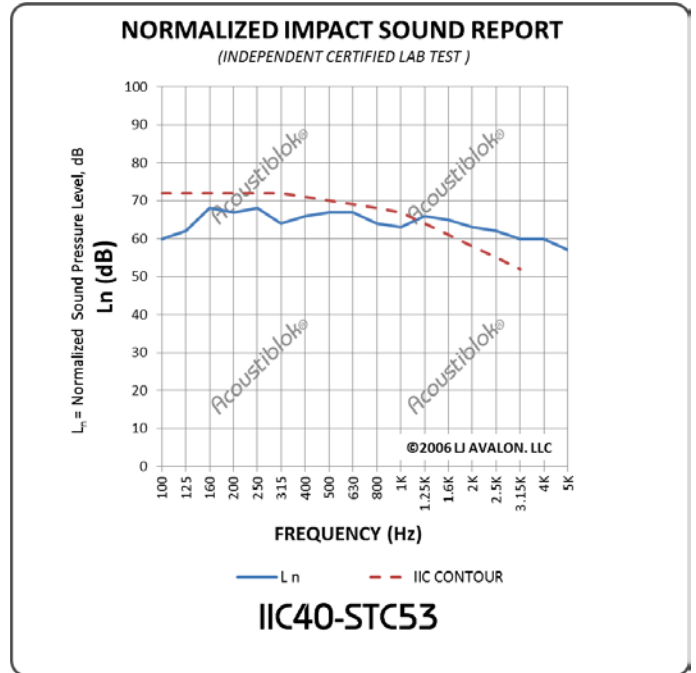
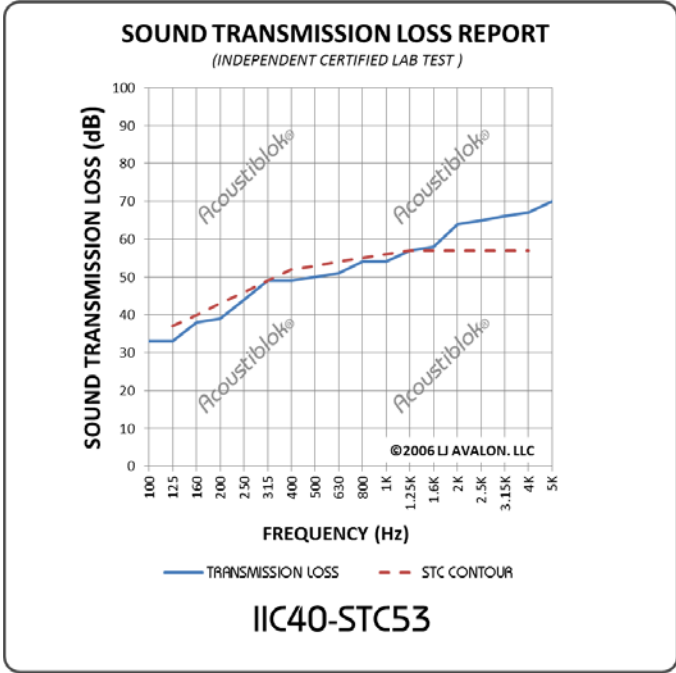
### IIC40-STC53 Rated Assembly – Blok32 & Tile Floor on a Concrete Slab



Independent testing services have rated this floor configuration with an IIC40 and an STC53.

The tested assembly consisted of Blok32 and unglazed quarry tile (installed using polymer modified mortar and polymer modified grout mixtures) on a 6" concrete slab. The mortar and grout cured for a minimum of 5 days while the concrete cured for a minimum of 28 days.

On the next page, you will find graphs detailing the Sound Transmission Loss, Normalized Impact Sound and the Effectiveness of Impact Sound Reduction.



**Impact Insulation Class (IIC)** is a single number rating used to compare the performance of floor/ceiling partitions in blocking impact noise, such as footsteps and dropped objects. The higher the IIC rating number, the better the performance. An IIC of 50 is usually considered the minimum for preventing noise complaints in the residential buildings. IIC ratings are calculated by a method similar to STC ratings (see description of STC below).

**Sound Transmission Class (STC)** is a single number that represents the sound blocking capacity of a partition such as a wall or ceiling.

The STC is calculated by comparing the actual sound loss measured when 18 test frequencies pass through partition, with fixed values for each STC level. The highest STC curve under which the measured sound loss numbers fit, determines the STC rating of the tested partition.

STC calculations emphasize sound frequencies that match the human voice. A high STC partition will block the sound of human speech and block the sound that interferes with human speech. A high STC number may not indicate a partition that is effective in blocking very low or very high-pitched sound. To estimate high and low frequency performance, consult the Sound Transmission Loss graph included in STC test reports. STC does not indicate how well a partition can block impact noise or directly transmitted noise such as machinery mounted on the far side of the wall.

**Transmission Class (TC)** numbers are often called out in architectural specifications, to assure that partitions will reduce noise levels adequately. For performance similar to laboratory test numbers, it is necessary to adhere closely to the construction materials and techniques used in the tested partition.



6900 Interbay Blvd  
Tampa, Florida USA 33616  
Telephone: (813)980-1440  
[www.Acoustiblok.com](http://www.Acoustiblok.com)  
[sales@acoustiblok.com](mailto:sales@acoustiblok.com)

Information herein is, to the best of our knowledge and belief, accurate. However, since conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damages incurred by the use of this material/product. All material/products may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Final determination of suitability of this material/product is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any nature are made hereunder with respect to the information contained herein or the material/product to which the information refers. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations. These specifications are subject to change without notice.