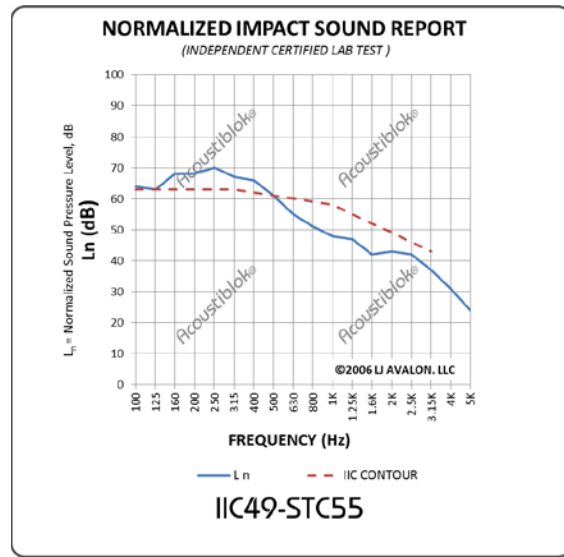
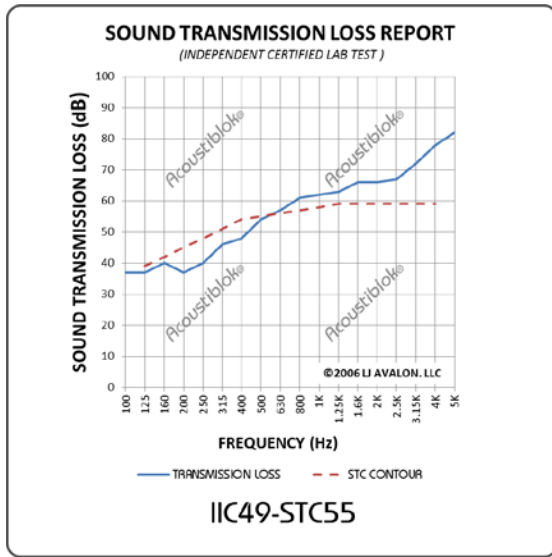


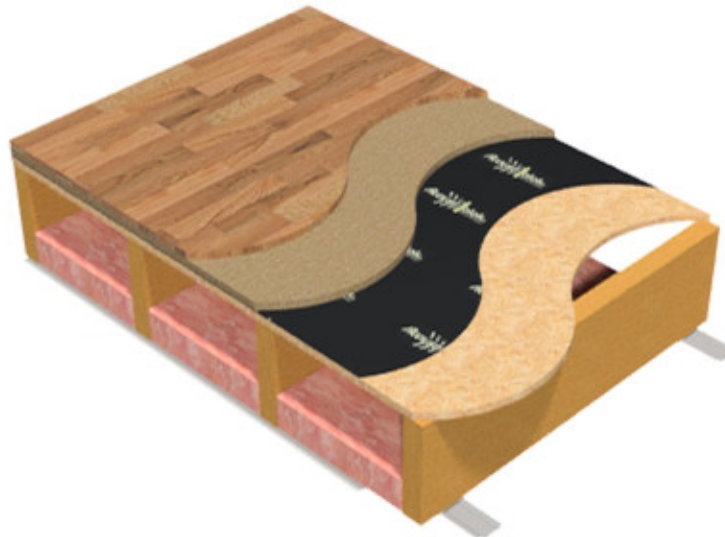
Document Name

IIC49-STC55 Rated Assembly - Blok16 & Oak Floor on Wood Joists



Independent testing services have rated this floor configuration with an IIC49 and an STC55.

The tested assembly consisted of Blok16, Red Oak Tongue & Groove, Plywood and OSB attached to wood joists with paper faced fiberglass insulation, Unimast RC Deluxe resilient furring channels and Type X wallboard.



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.



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