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SOUND INTENSITY MEASUREMENT OF SOUND TRANSMISSION LOSS

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INTRODUCTION

National or International Standards do not yet exist for the laboratory measurement of sound transmission loss. This work is intended to contribute to our understanding and use of the technique in the matter of measurement and also with respect to exploiting the greater flexibility offered us compared to traditional methods of sound transmission loss measurement.

With respect to establishing the measurement procedure, results will be presented concerning:

1. The influence lining the receiving room with absorbent material.
2. Selection of the averaging time.
3. Selection of the mesh size.
4. Selection of the panel measuring distance.

With respect to exploiting the analytical capability of the device, results will be presented concerning plane to plane testing and contour plotting in the examination of:

1. The effect of sills and reveals.
2. Lining the reveal with absorbent material.
3. Construction fault location.
4. The effect of panel dimensions.

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