Note

subject: Sound insulation of a moveable wall partition
Calculation Single Number Rating
date: August 26th, 2020

reference: TS/TS/HT/AA 2174-5E-NO-001

At the request of Parthos BV based at Panningen (The Netherlands), tests have been carried out in the Laboratory for Acoustics of Peutz bv, at Mook, The Netherlands.
The full test results are given in test report A2174-3E-RA in which a full description is given of the standards, guidelines, materials used, construction, test methods and measurement tolerances. This note gives a summary of the test results expressed in single-number ratings.

The measurements have been carried out according to the standard ISO 10140-2:2010 Acoustics - Laboratory measurements of sound insulation of building elements – Part 2: Measurement of airborne sound insulation

From those values the following single-number quantities have been calculated and stated :

- the "weighted sound reduction index R_w" and the spectrum adaptation terms C and C_{tr} according to ISO 717-1:2013 Acoustics - Rating of sound insulation in buildings and of building elements - Part 1: Airborne sound insulation;
- the "Sound transmission Class (STC)" according to ASTM E413-16 Classification for Rating Sound Insulation.

The following results are determined

Product:	Palace 110 SI Extra	**R_w = 58(-1;-5) dB**
Report No.:	A 2174-3E-RA	**STC 58**

Mook,

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