

## ABSTRACTA BOOTH (PLENTY WALL POD) – EXPECTED SOUND INSULATION RESULTS WITHOUT FLOOR CONSTRUCTION (SEALED TO THE FLOOR)

The Abstracta Plenty Wall pod has been tested by WSP Acoustics, for their sound insulation characteristics. The results are displayed in report MR-10244150 (dated 2016-12-13). The tests was carried out with a floor construction included in the POD. Another version is available which do not include a floor construction but instead is mounted with the walls directly on the floor sealed with a specific sealing stripe. The question is if this version (without the floor construction) can fulfill the same sound insulation characteristics?



Figure: Plenty Wall POD without flooring inside

### Comments

The original measurements show that a sound insulation result corresponding to  $D_w = 36$  dB can be achieved when the floor construction is included.

Preasssuming a flat leveled concrete floor with a hard floor covering glued to the floor (such as parquet glued to the concrete, ceramic floor, linoleum or similar), the results are assumed not to be affected.

However, a limited reduction (few dB:s) might appear if the POD is mounted on a floating parquet floor or an inhomogeneous light floor structure and if the floor structure is not perfectly leveled.

Still the POD will provide significant positive impact as a “quiet room”.

Klas Hagberg

Malmö 2018-06-21

WSP Sverige AB