

Measurement of diffusor reflections



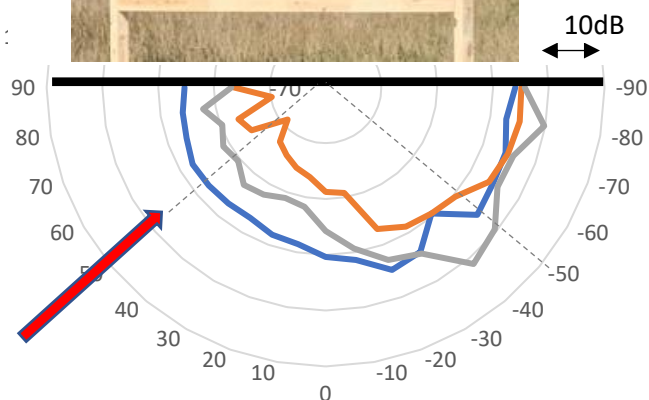
Your reference	Our reference	Project number	Measurement date
Ola Swenson	Martin Höjer	314115	2021-09-01

Client: Snabel AB
Project description: Measurement of diffusor reflections in field
Test object: 5xReflorb

Measurement system:
 Iris 2.0 4ch system

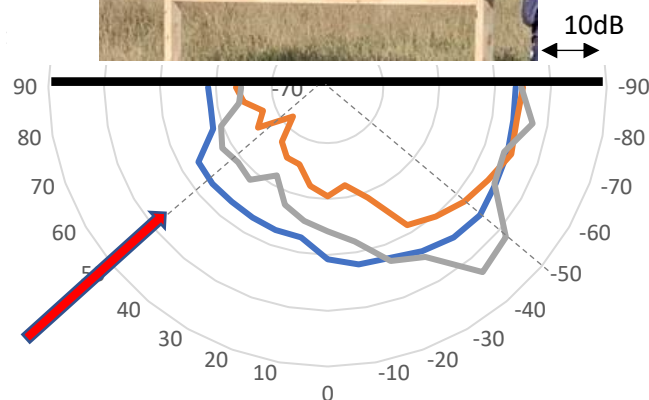
5 x Reflorb

— 125Hz — 250Hz — 500Hz



Flat surface

— 125Hz — 250Hz — 500Hz



Comment

At lower frequencies the diffusor behave similar to the flat surface. The reason is that the dimensions of the diffusor irregularities are small compared to the wavelength. In a typical installation against a wall the Reflorb will reduce the amplitude of these lowfrequent reflections due to the sound absorption (see results from measurement of sound absorption in lab).

The measured sound pressure level is calibrated and can be directly compared between the two scenarios.

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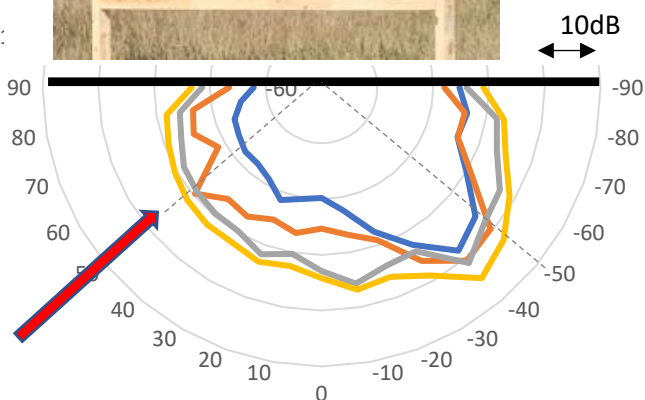
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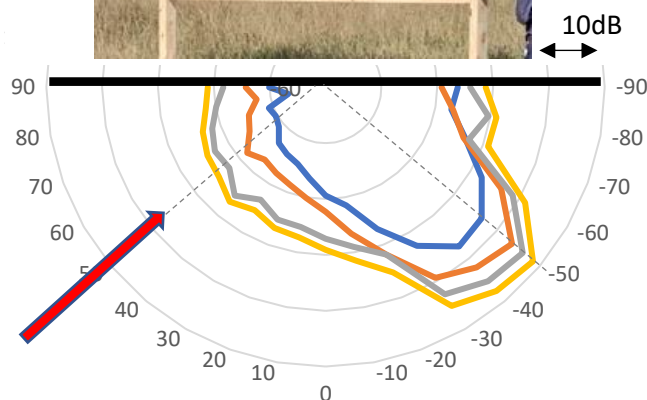
5 x Reflorb

— 1000 Hz — 2000Hz — 4000Hz — 8000Hz



Flat surface

— 1000 Hz — 2000Hz — 4000Hz — 8000Hz



Comment

Note how the Reflorb reflections spread at wider angles compared to the flat surface. The specular reflection is reduced and transformed to diffuse reflections.

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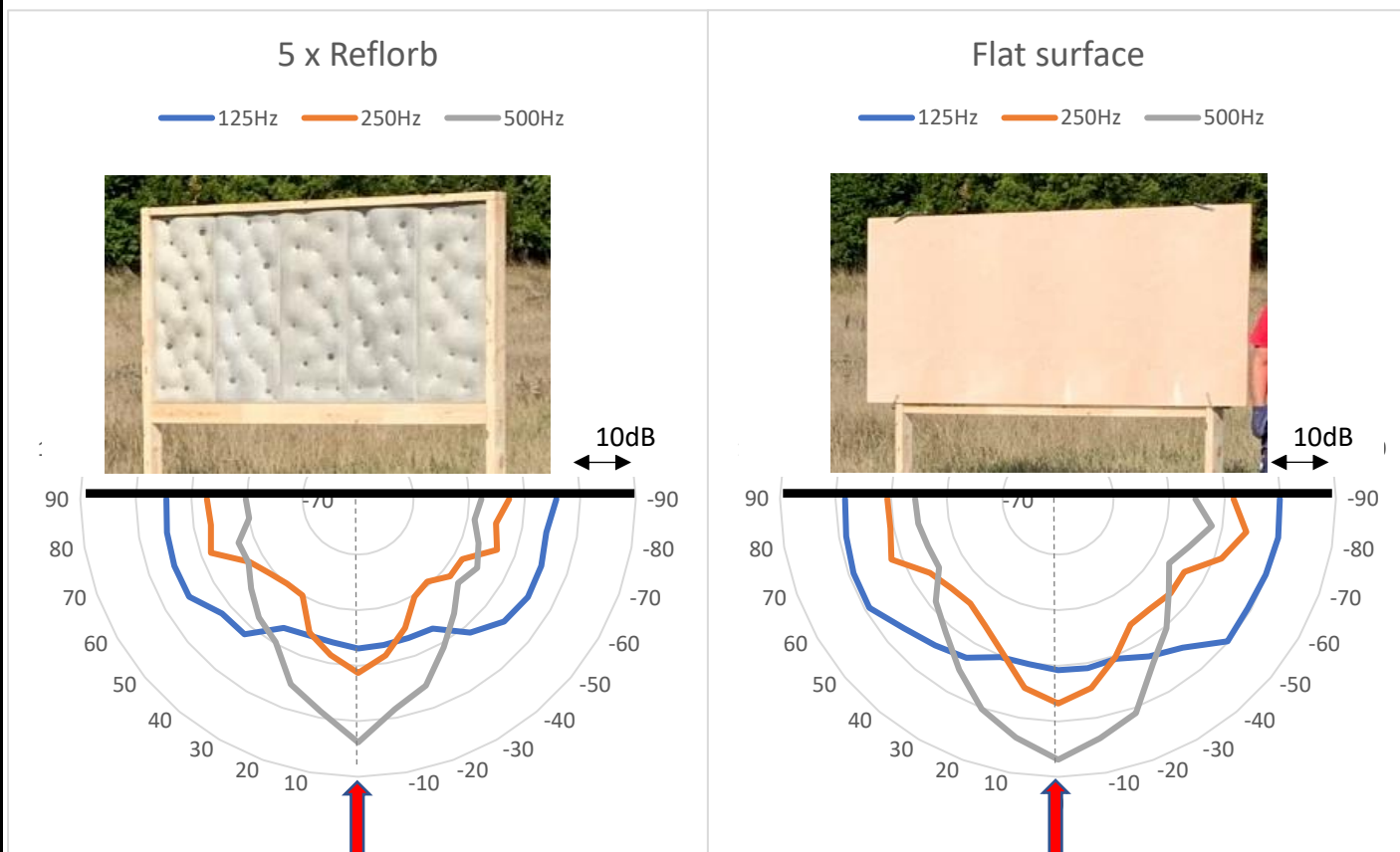
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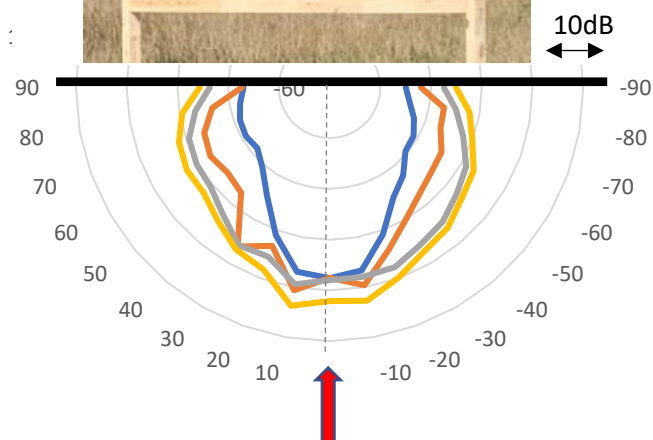
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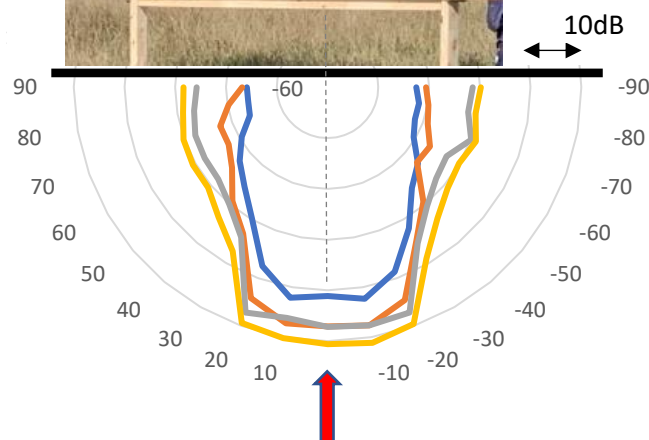
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