

Fire-Rated Backcan Sound attenuation

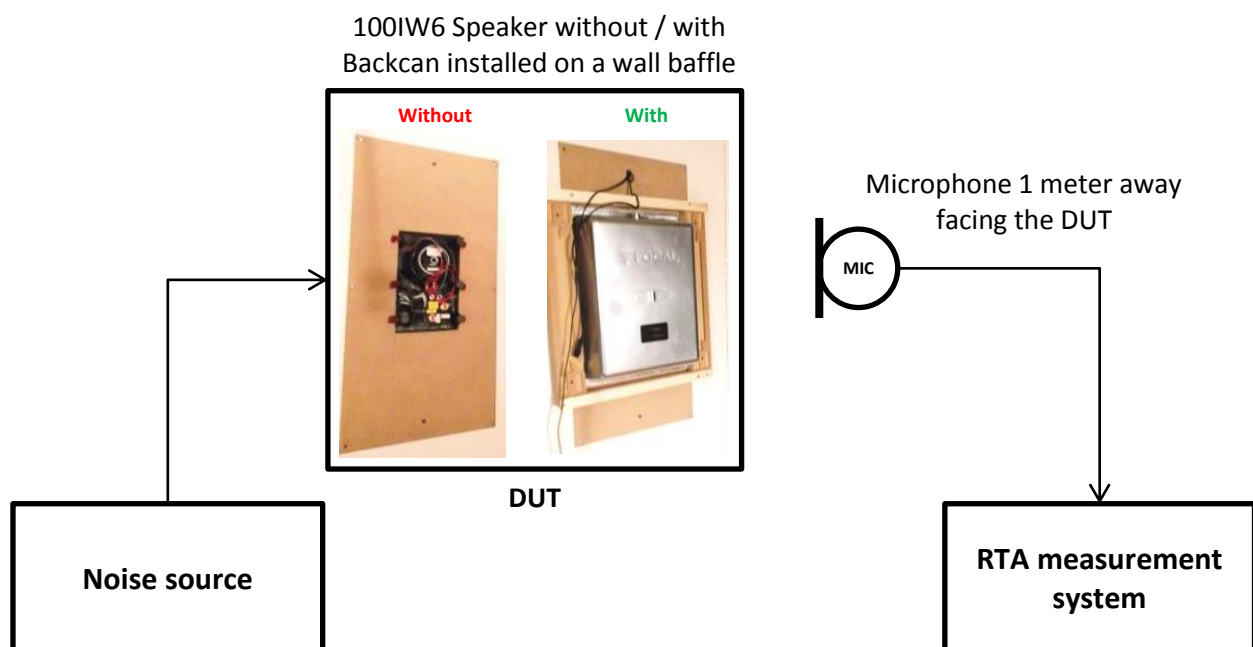
September 3rd 2018

1. Goal

This document describes a test that has been performed to evaluate the sound attenuation performances of our integration Fire-rated backcan accessory.

2. Setup

The measurement is performed in our listening room on the wall baffles, following the setup below


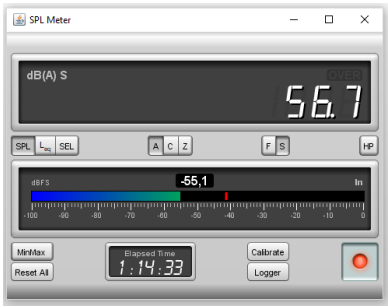
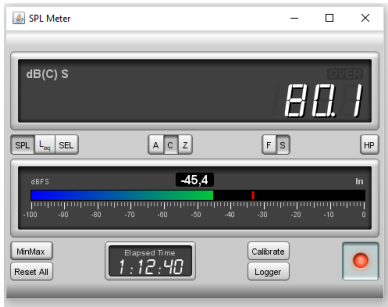
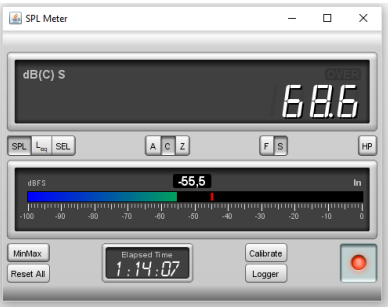


The loudspeaker is mounted backward to measure sound coming from the back (sound that will go through the fire-rated backcan in a real construction).

The measurement is done first without the backcan. Then we add it just behind the speaker (hanging with a wire -> no perfect seal).

3. Measurement of the level difference

We performed the test in both dB(A) and dB(C) and checked the level difference.

	Without Backcan	With Backcan	Difference
dB(A)			19,5 dB
dB(C)			11,5 dB

4. Spectrum with and without backcan

Here is a spectrum showing the difference for each frequency band.

