

## The HideAway Sub – A downsizing project



It started with the back loaded horn, 153 cm tall with the vintage 8" Richard Allan and the 6,5" Fostex.

Internally there is a triangular pipe, and the total pipe length is about 280 cm. There is no parallel lines inside the cabinet. This was called The Skyscraper in Denmark in the 80-ties. The sound was very good and very efficient even with my 20 W NAD.

However, they are big. Not invisible at all.



Vented box with 10" Beyma (Fs 31 Hz, Qts 0,36 and Vas 115 liters). The internal volume is 81 liters. This is big as well, and suffer from noise caused by air turbulence in the port (chuffing). The sound is "big", but I do not like the sound of a vented box.

Does not perform below 30 Hz.



The HideAway Sub with the same Beyma driver. The idea was inspired by Rick Schultz articles. From the quarter wave research of Martin J. King, I learned why the result was so promising with deep and tight bass.

Usable output down to 20 Hz.



The visible part of the HideAway is only 32 x 32 x 32 cm. Although the cabinet is made by relatively thin material, it does not vibrate much. The front baffle is 22 mm MDF, and the box has a cross brace. The aperture, next to the driver, is 28 x 150 mm. There is no chuffing. Footprint is 30 x 140 cm. Stuffing is light in the box and first half of the line.

The HideAway Sub is designed and developed by Bjørn Johannesen, Denmark.

[bjohannesen@post.cybercity.dk](mailto:bjohannesen@post.cybercity.dk)