



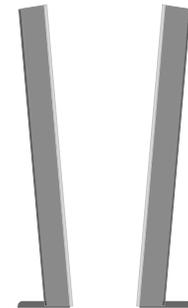
PHIL

Passive 2-way floorstand / wall mount loudspeaker

Tweeter:	Titanium dome (1" / 25mmØ) with waveguide and acoustic lens
Mid-Woofer:	HDA-membrane (5 1/2" / 145mmØ) HDA = High Definition Aerogel
Sensitivity:	86dB/1Watt@1m
Nominal power:	40 Watt RMS
Impedance:	6 Ohm (Minimum)
Frequency response (-6dB, near a wall)	39Hz-22'000Hz
Baffle material:	CREANIT® white (other colours on demand)
Cabinet material:	MDF Nextel coating: light-grey
Dimensions (H x W x D)	995 x 210 x 94mm
Weight:	11.7 kg

Technical adaptations are subject to change without prior notice

K L A N G W E R K[®]



PHIL

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AudioPHiLe reproduction of music near walls

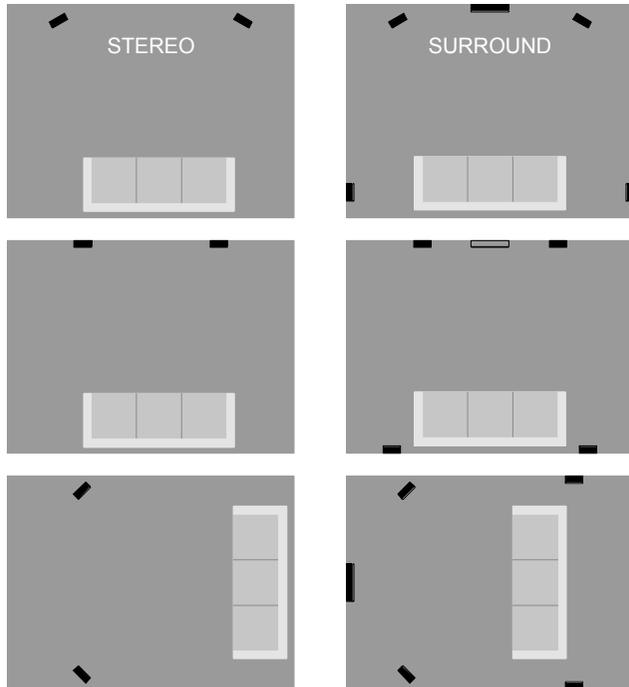
PHIL delivers its full potential in front of a wall, exactly where loudspeakers are mostly positioned. If the base plate is unmounted, the elegant object can even hang on a wall. In both positions the loudspeakers fill the room with music but without dominating a room optically.

PHIL benefits that low frequencies get amplified in front of a wall. A special alignment allows an astonishing bass power through small drivers. Their advantage, precise reproduction and wide dispersion, are maintained. Music sounds very open, natural and lively.

Stereophonic listening is possible in a wide zone due to a controlled directivity response. Music doesn't seem to sound out of a box and the response changes very little in different positions. The audiophile connoisseur, sitting in the sweet spot has the additional benefit of a realistic and transparent stereo image and a non fatiguing sound. The loudspeakers can even be placed in the nearfield at a distance of 1m to the listener.

Music and movies playback (Stereo and Surround-Sound)

PHIL performs either well for two channel and multichannel audio. To complete the center and rear channels, the wall loudspeaker MURO is a perfect choice. For high levels and deep bass in soundtracks a subwoofer is useful. With this support the loudspeakers can also play very loud music and be positioned farer away from walls.



Cabinet



The cabinet is divided in two parts: On a stiff structure of MDF, a flat baffle of CREAMIT® is mounted. Creamit is an artificial stone with high density and high inner damping and therefore is not sensitive to resonances. The baffle is decoupled from the MDF-structure to reduce vibrations.

The cabinet can be mounted on the wall by a single screw, preventing the transmission of vibrations.

The Creamit-baffle is robust, because the colour is in the material. It can easily be restored or changed. The standard colour is white but there are many other colours available on demand, also those of CORIAN®. Polishing the surface gives other aesthetic options from matt to glossy.

The protections of the Mid-woofer are also available in different colours to adapt the loudspeakers furthermore to the interior design of a room.

Titanium tweeter with waveguide and acoustic lens

The membrane of the tweeter is very light, stiff and coated with an antiresonant layer. The high output and the waveguide allow a low crossover frequency. The tweeter is covering a wide frequency range, what makes the sound open and clean. The acoustic lens improves the dispersion in the highest frequency range and protects the membrane.

Mid-woofer with HDA-membrane

The membrane is made of High-Definition-Aerogel, which is light, stiff and has a high inner damping. The membrane of a small driver is basically stiffer than a larger one and performs better in the midrange where human ear is very sensitive.

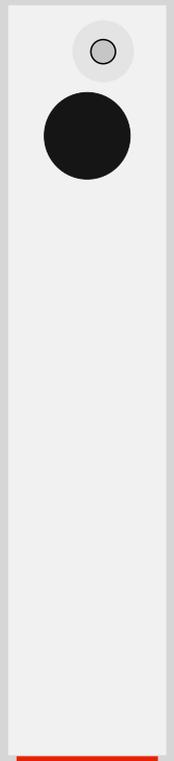
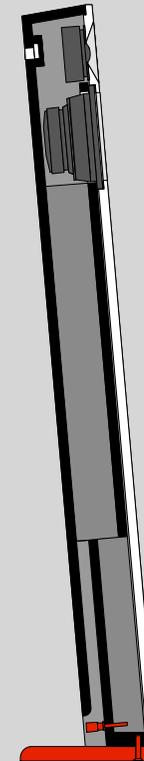
The amplification of the bass through the wall is used to design a bass-reflexsystem with a deeper and more powerful bass than in a comparable free standing box. The reflex-port is flat to get a laminar air flow for low distortion and it ends at the bottom on the rear side of the cabinet for maximum efficiency.

Passive filter

With the low crossover frequency and the compact driver arrangement the design acts almost like a point source with a very even response through the whole frequency range and also off-axis. The passive filter is composed of few but high quality polypropylene-film capacitors and air-core inductors. It has an impedance correction network to offer also the combination with tube amplifiers.



WALL



INVITATION TO LISTEN

PHIL