

General



"Form follows function" is the philosophy that inspired these thin beauties. Designed and developed to be used near or on the wall, BERG reaches true high-end performance through the use of the most innovative technology.

One example of this innovative approach is the mid-bass driver and crossover being created as one unit. By using this "outside the driver" concept in creating the mid-bass transducers, the crossover follows a prescribed transmission function as it relates to the design features of the woofer, which in turn was designed with the characteristics of the crossover in place. By designing both crossover and driver in tandem, it was possible to most efficiently and effectively ensure an unbelievably rich foundation of bass regardless of the diminutive size of the cabinet.

A completely new construction technique for the hand-coated silk dome tweeter places the tweeter outside the cabinet in a one-point decoupled assembly which enables it to "breathe," devoid of any compression effects, therefore providing the finest resolution and integration.

The special shape of BERG perfectly supports these technical features. In extensive research we found that aluminium has ideal properties, but it is vital to avoid a closed, single piece cabinet. Rather, by breaking a single cabinet into two elements and then connecting these elements with intervening layers of damping material, detrimental resonance can be eliminated.

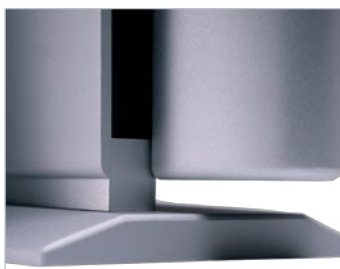
Two installation schemes are offered in order to provide the greatest ease in integrating BERG into your home, either the heavy aluminium stand, or the wall-mount bracket. Whichever option is chosen, the beautifully curved shape of BERG will always be in harmony with its surroundings. Do not allow yourself to be misled by the small, slim appearance of BERG. Our research enables this speaker to have a huge, dynamic and richly detailed sound stage, so we invite you to lean back and make your very own personal experience.

Berg

Features



During the development of the cabinet for BERG, extensive research into ideal conditions for near-wall speaker application led to a thorough solution that results in a number of positioning options. One option is an ingenious aluminum wall-mounting device, unrivalled in its ability to provide the best environment for superior sound quality. Three positions are afforded by this device, enabling it to be angled toward the listening positioning for best performance. The spike which fixes the angled position presses the cabinet against a rubber decoupling device, therefore damping and silencing the interface point between wall and speaker, preventing detrimental resonance from being transferred between wall and speaker. Additionally, this wall-mounting device allows not only for vertical but for horizontal positioning as well, allowing BERG to be used as a center speaker with a plasma-television or projector. No matter which positioning option is chosen, the beautifully curved cabinet will always be in smooth harmony with any wall and listening room.



Alternatively, for those who do not wish to mount the speaker to the wall, an ultra-rigid aluminium stand is offered, which was developed for optimum sound when placed on a surface such as a bookshelf or desktop. The stand serves both tweeter left and tweeter right positions.

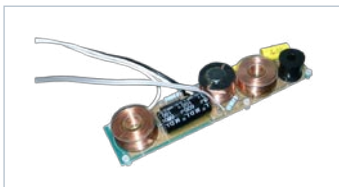


The highest grade of surface treatment processing is used for the aluminum cabinet. After being precisely machined and CNC milled, all aluminum cabinet components are bead blasted and transparently anodized, to ensure that the appearance of BERG is as beautiful as the technology is ingenious. The special shape of BERG perfectly supports these technical features. In extensive research we found that aluminium has ideal properties for cabinet construction in the production of an ultra-thin on-wall speaker results in a number of immediate advantages; properties that require special execution to gain the fullest advantage in providing optimum performance. It is vital to avoid a closed, single piece cabinet. Rather, by breaking a single cabinet into two elements and then connecting these elements with intervening layers of decoupling and damping material, detrimental resonance can be eliminated. Using aluminum allows for very thin cabinet wall panels, without sacrificing crucial stiffness, which means that the maximum of interior volume is achieved, while keeping to a minimum exterior dimensions. Furthermore, each aluminum panel is curved to optimize both stiffness and resonance control, as well as to provide non-parallel walls, helping to dissipate internal standing waves, so as to aid in producing natural sound. The curvature of the cabinet allows for yet an additional benefit. The depth needed to use a true high-end mid-bass driver is provided in the middle of the cabinet while limiting overall size of the cabinet to the minimum.

Features



As with all of our flat-speaker designs, mid-bass drivers and crossover are designed as one unit. We invented a totally new approach of developing drivers, by prescribing an optimum (with conventional driver-technology unrealistic) transmission-function with the alternate circuit diagram of the drivers, and realizing it with "outside the driver parts" in the form of crossover filter components. The results were astonishing. We could realize bass performance of the same quality as speakers having three times the internal volume. At the same time, the maximum output for music could be increased by 50%. The result for the listener is the pleasure of wonderful and effortless sound additionally to the driver's basic highend qualities of natural mids and tight bass. Apart from / refrained from the special filter, the crossovers feature the same outstanding development and quality components which characterize all Vienna Acoustics speakers.

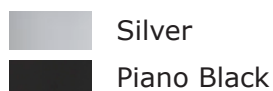


The tweeter is of a completely new design. Three neodymium magnets are center drilled, guiding the internal sound waves into a damping chamber, which itself is vented again to the outside world for complete control of internal pressure. Compression effects are thereby totally avoided, and the resonance frequency is lowered as a result with benefits for optimizing the tweeter's midrange contribution. The second of the three neodymium magnets is a "countermagnet" for total magnetic shielding, caused by its reversed magnetic stray-field. This enables the speaker to be placed next to any television monitor. The handcoated silk dome ensures perfect resolution of highest frequencies, and is protected by a non-detachable hexagon metal grille. The voicing of the speaker system as whole was accomplished with this grille in place so as to allow for the highest resolution with complete protection. A one-point-decoupling and mechanical isolation mounting system for the silicone damped tweeter cabinet ensures the performance benefits of these features, allowing high frequency reproduction of astonishing clarity and precision.



The silver plated binding posts are placed in the 16 mm or .6 inch wide border between the two aluminum walls, allowing it to be isolated from the cabinet and invisible to the eye.

Specs



Specifications System Type

Bass System Frequency Response Mid-Woofer

Tweeter

Shielding Sensitivity Impedance Recommended Power Weight per Speaker Dimensions (WxHxD)

BERG
2 way system
6/12 dB Bessel
Closed cabinet
70 – 25.000 Hz
1 x 6" VA
Transparent XPP Cone
3-Magnet Neodym VA
Ventilated Chamber
Handcoated 1" Silk Dome
100%
89 dB
4 Ohms
30 – 180 Watts
5 kg / 11 Ibs
10.5x8.3x3.5"
268x212x90mm

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