



# technical specifications BC543

## general

- Double-tuned, bass-reflex loaded cardioid-control subwoofer system
- Triple 18" woofer with all-carbon cone for high pressure loading
- 5.3" voice-coils for low power compression and accurate performance
- Large, centrally-located vent for improved breathing and low compression
- Selectable cardioid patterns with up to 42dB rearward rejection
- SIS™ pre-wired for very high damping and further reduced distortion (with ALC)



## description

The BC543 is a self-contained, high-output cardioid subwoofer system for both permanent and portable applications. It is designed to offer a very high output, tight and accurate sub-bass response, as low-frequency extension of any Alcons pro-ribbon system.

By means of a front and rear located woofer configuration, in combination with integrated processing, the system offers selectable cardioid low-frequency pattern control and excellent rear rejection (up to 42dB), without the need for additional cabinets.

Two state-of-the-art 18" long-excursion woofers with 5.3-in. voice-coil with vented triple-spider frame, Neodymium motor structure and all-carbon-fibre cone and dust cap are mounted in a direct-radiating configuration, with centrally-located X-Venting™;

Taking more than 25% of the baffle surface, this port is designed to maximise the system's breathing capacity, while minimising port-compression. The excursion capabilities of the 18" design, extends the output by 3.5 dB compared to traditional 18" designs (not included in SPLpeak spec).

On the rear side, a single state-of-the-art 18" long-excursion woofer with 5.3-in. voice-coil, Neodymium motor structure and all-carbon-fibre cone and dust cap is mounted in a direct-radiating configuration, with Flank-Venting™ port; This folded port design enables optimal reflex-breathing, under minimal baffle dimensions.

The BC543 is powered and controlled by the ALC amplified loudspeaker controller; The ALC offers system-specific drive processing with dedicated optimisation, power and excursion protection, and hybrid filtering.

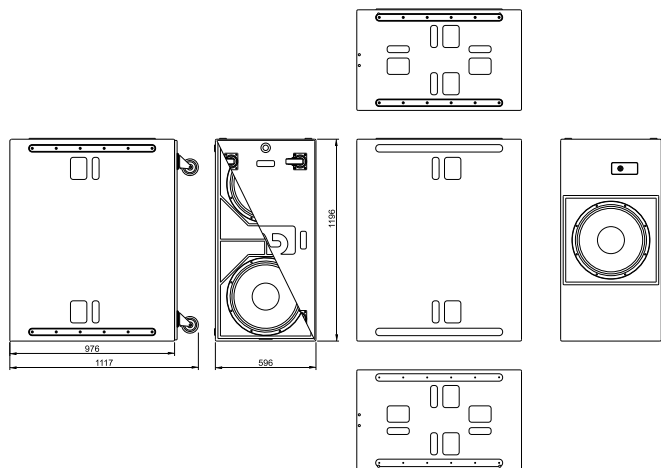
The preset library contains BC543 settings for sub/bass/punch response curves, as well as different cardioid patterns for maximum rear-/side-ward attenuation.

Through the SIS™ (Signal Integrity Sensing) circuit, the cable-length and connector resistance between the BC543

and ALC is completely compensated (system damping factor >10.000), for further increased accuracy and controlled cone-travel, resulting in a tighter sub and bass response.

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## dimensional drawing



## technical specifications

Frequency response	35 Hz – 150 Hz (+/- 3 dB)
	29 Hz - (+/-10 dB)
Sensitivity nominal	100 dB (40 - 100 Hz)
Nominal impedance	4 ohms/front, 8 ohms/rear
Recommended drive	Sentinel10, 1 pce. per 2 channels (4 ohms/front, 8 ohms/rear)
Nominal SPL peak	135 dB (Sentinel10 40 - 100 Hz)
	140 dB (comparative)
Dispersion H x V	omni (rear not connected) / (hyper)cardioid

## physical specifications

System	subwoofer, bass reflex front + rear	
Drivers LF (front)	2x AW18.6NDC-8 18", X-Vented™	
(rear)	1x AW18.6NDC-8 18", Flank-Vented™	
Connectors	1x Speakon NL8 input	
Physical dimensions	mm	inches
Height	1196	47,1
Width	596	23,5
Depth	976	38,4
Weight (approx.)	kg	lb
BC543	135	298*
BC543i	123	271
Warranty	6 years limited	

\*incl. wheel board

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