



BENTLEY ACOUSTICS
quality hand made speakers for the audio enthusiast.

JUST LISTEN!





100 SERIES



FC-100



FC-150



FR-80



FR-100



FS-110



FS-120



FS-150

Quality handcrafted speakers for the enthusiast.

Bentley Acoustics is a proudly South African brand, developed specifically for the South African market with the goal of bringing back the enjoyment of listening to your favourite music and movies from handcrafted, high-performance loudspeakers that deliver excellent value for money

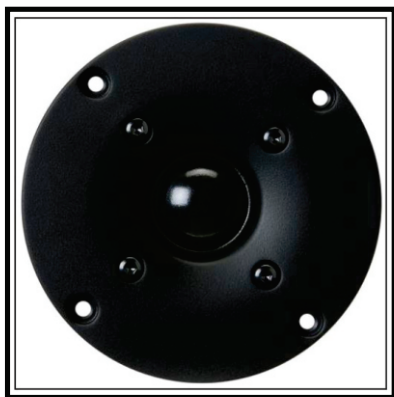
Founded by Vaughan Bentley (a lifelong and passionate audio enthusiast), we have employed one of SA's best loudspeaker designers to create the 100 Series, comprising 7 models that incorporate high-quality hand-selected components, represent excellent value for money and deliver a sound signature best described as rich, detailed, lively and warm

In developing the ground-breaking 100 Series, we set ourselves the goal of beating international competitors whose products can cost up to four times as much as ours... Just Listen and be amazed at what we've achieved!

"It's easy building an expensive speaker, it's easy building an inexpensive speaker. On the other hand, it is very hard building an affordable speaker which sounds and performs better than its more expensive counterparts - and that is exactly what we did!" Vaughan Bentley

Whether you choose our largest loudspeaker or our smallest, rest assured you will enjoy sound the way it was meant to be heard!

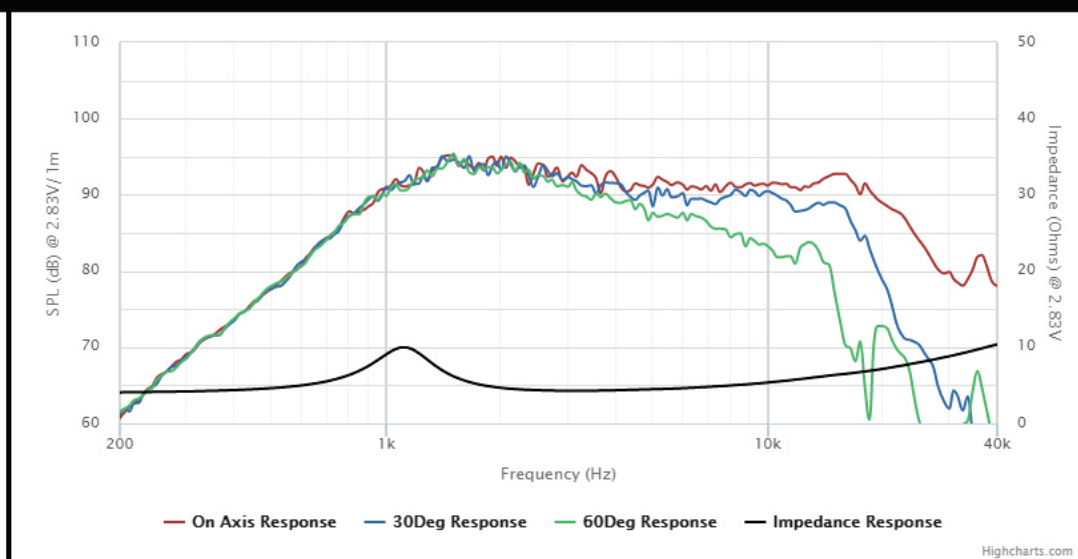
We engineer our loudspeakers for reliability, using high-quality components that are tested to rigorous performance standards. This is how we deliver amazing sound to last.



Danish-designed Peerless transducer technology has been a constant that has led to our rich audio heritage and success today. Peerless audio products deliver premium performance for many applications and we have leveraged the Peerless audio technology platform to bring a consistent and high level of quality to all our products.

Tweeter Specifications

FREQUENCY & IMPEDANCE RESPONSE



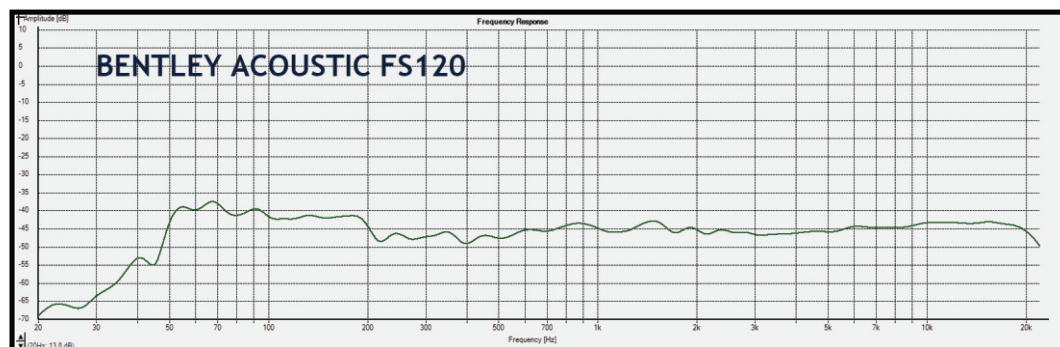
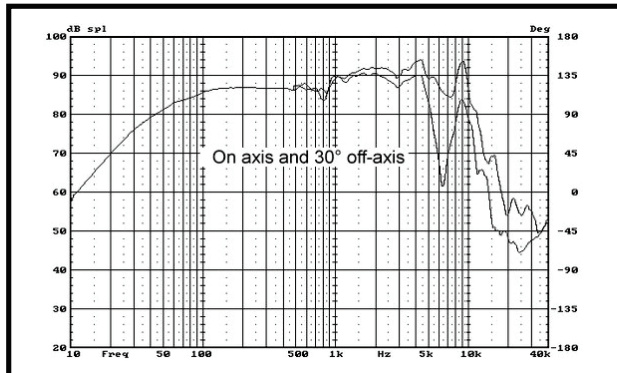
Driver Size	25 mm
DC Resistance	3.07 Ω $\pm 5.0\%$
Resonant Frequency	1137.32 Hz 15%
Half Space Sensitivity @ 2.83V	92.97 dB ± 1.01
Sensitivity @ 1W/1m	90.2 dB ± 1.01
Rated Noise Power	100 W
Test Spectrum Bandwidth	2.5KHz -20KHz 12 dB/Oct
Effective Piston Area	7.1 cm ²
Moving Mass	0.4 g
Motor Force Factor	2.43 T•m
Voice Coil Inner Diameter	25.4 mm
Gap Height	3 mm
Maximum Linear Excursion	0.6 mm
Minimum Impedance	4.28 Ω $\pm 7.5\%$
Mechanical Q Factor	2.43
Electrical Q Factor	1.34
Total Q Factor	0.87
Ratio	1314.82 fs/Qts
Effective Cone Diameter	3 cm
Motor Efficiency Factor	1.9 (T•m ²)/ Ω



Woofer and Midrange Driver Specifications

The drivers used in the 100 Series have been optimised for extended and dynamic bass reproduction in vented systems. The clarity and accuracy provided by the unique one-piece aluminium/magnesium cone is simply remarkable!

A shielded magnet structure allows our loudspeakers to be incorporated into Audio Visual applications



Nominal Power Handling (Pnom)(W)	80
Max Power Handling (Pmax)(W)	160
Sensitivity (2.83v/1m)(dB)	89
Weight (M)(Kg)	2.3
Nominal Impedance (Z)(Ω)	8
DC (Re)(Ω)	6.5
Magnet Former	Ferrite
Force Factor (BL)(N/A)	9.6
T-S Parameters	
Suspension Compliance (Cms)(uM/N)	822
Mechanical Q (Qms)	5.02
Electrical Q (Qes)	0.5
Total Q (Qts)	0.45
Moving Mass (Mms)(g)	36.5
Resonance Frequency (Fs)(Hz)	33



Model : FS-110

Specifications

System Type : 3-way bass-reflex design

Power Handling: 10-140W

Impedance: 6 Ohm

Frequency Response: 50hz - 25Khz

Sensitivity: 89db

Driver Configuration :

1 x 6" Aluminium Magnesium M6N Woofer (Low/Mid Bass)

1 x 5" Aluminium Magnesium M5N Dedicated Midrange

1 x 1" Silk Dome Tweeter

Weight: 15kg Nett

Dimensions: 200 x 262 x 850mm

The entry level Floorstanding speaker offers great value for money, with the 6" woofer and 3-way configuration this speaker can provide powerful bass, clear midrange and exceptional highs.

Acoustic Design Excellence

The FS-110 is a powerful speaker! It consists of three independent drivers – a 25mm aluminium-dome tweeter located at the top of the front baffle, accompanied by a 5" dedicated midrange driver and a 6" mid-bass driver, both constructed from aluminium/magnesium alloy for rigidity.

A perfectly tuned and braced bass-reflex cabinet is designed to deliver massive "bang-for-buck" performance, ensuring detailed highs and mids with impactful bass. You'll be hard-pressed to find anything better at the price!

Phase Error Minimisation provides smooth, accurate playback across a wide listening area for great stereo from any listening position

Out of the box, built quality is very good with good craftsmanship all around. The units are very heavy therefore care needs to be taken moving them into position. I played various scenes ranging the T-Rex scene in Jurassic Park, Speeder Chase scene in Star Wars – Return of the Jedi to music ranging from Piano guys to Def Leppard and it is as if a whole new world opened with all these tracks. Very fine details were clear and identifiable, and all the sound elements had a very realistic, real life feel to them. The bass was clear and detailed without being overwhelming. Even at higher sound levels the instrumental and dialogue quality remained true and sounded real life without distortion. Before purchasing any other brand of high end speakers, I honestly suggest one must audition a set of Bentley Acoustic speakers with your favourite tracks as they offer very good sound quality and I believe it to be a worthwhile investment if you are serious about getting value for money. - Herman Claassens

Model : FS-120

Specifications

System Type : 3-way bass-reflex design

Power Handling: 30-160W

Impedance: 6 Ohm

Frequency Response: 40hz - 25Khz

Sensitivity: 89db

Driver Configuration :

2 x 6" Aluminium Magnesium M6N Woofer (Low/Mid Bass)

1 x 5" Aluminium Magnesium M5N Dedicated Midrange

1 x 1" Silk Dome Tweeter

Weight: 23kg Nett

Dimensions: 200 x 312 x 1000mm

The mid level Floorstanding speaker with its 3-way, four driver design really shines throughout the whole spectrum of frequencies producing solid detailed bass as low as 40hz accompanied by clean balanced vocals and detailed highs.

Value for money you won't find anything better, not even at double the price!

Clear, articulate and dynamic, without a hint of harshness or edginess

Soundstage presentation is wide, high, deep and open with deep, tuneful bass from dual 6" woofers in a braced, solid cabinet. Equally perfect for immersive stereo and powerful surround sound experiences.

We use premium components, from the silk dome tweeters, to the aluminium/magnesium alloy mids/woofers and the high-quality crossovers – all chosen to blend together to deliver you the best sound experience.

These speakers have a clean, linear response from as low as 40Hz up to 20kHz. Detailed vocals, clean, clear highs and powerful bass brings your music and movies alive!

Phase Error Minimisation provides smooth, accurate playback across a wide listening area for great stereo from any listening position

As a connoisseur of music of all genres, clarity and balance of the sound on my music system is of primary importance. I want to hear the triangle in an orchestral arrangement without loudness draining the moment. Therefore the audible spectrum must be clearly defined between tweeter, mid-range, low range and sub-woofer. I have searched and listened to many brands including Jamo, Kef, B&W and even ended up buying a pair of Klipch R28F.

Nothing could match my Infinity series IIIA Speakers which I owned many years ago. I then listened to the FS150 Bentley Acoustics and I just had to have them! My prejudice towards local manufactured goods were eliminated without breaking the bank. These speakers are solidly built and if your budget is below R20k look no further because with the right amplifier you will enjoy High Fidelity sound guaranteed. Roelie Van Rensburg



Model : FS-150

Specifications

System Type : 3-way bass-reflex design

Power Handling: 40-200W

Impedance: 6 Ohm

Frequency Response: 30hz - 25Khz

Sensitivity: 89db

Driver Configuration :

2 x 8" Aluminium Magnesium M8N Woofer (Low/Mid Bass)

1 x 5" Aluminium Magnesium M5N Dedicated Midrange

1 x 1" Silk Dome Tweeter

Weight: 33kg Nett

Dimensions: 245 x 362 x 1200mm

The top of the 100 series Floorstanding speakers.

With its 3-way double 8" aluminium magnesium driver design, these speakers can dig down into the low frequency range of sub 30hz! Lows you can feel vibrating throughout your body with superb natural, smooth mids and clear, clean, detailed highs.

Bentley Acoustics brings you the FS-150- an audiophile-grade, 3-way floorstanding speaker from the vision of Vaughan Bentley and Rudi Marloth. The speaker are designed to deliver a listening experience that is clear, detailed and dynamic with enough Bass for ALL music genres!

The FS-150s sports a 5" mid driver, double 8" woofer drivers and a 1" silk dome tweeter from Peerless - for a superior listening performance. The result of this combination is a detailed mid presence, clear highs and a powerful bass response. The front bass reflex ports make it easy to place the floorstanding speaker close to walls without any compromise in sound quality.

These floorstanding speakers can be either used as a standalone stereo system or part of a multi-channel setup for a seamless surround sound. With the Bentley acoustic FS-150s you can get ready a superior sound quality in home theatre, stereo music, TV shows, and games.

The ethos at Bentley Acoustics is simple, build an audiophile quality speaker at an accessible price point. Finished in sleek wood, the Bentley Acoustics build quality is what you'd encounter with speakers at a much higher price point.

The tweeter used in the range of Bentley Acoustics speakers provides a natural non fatiguing sound without losing any of the detail. Allowing for hours of listening pleasure.

The beefy midrange drivers and woofers are full bodied but are also accurate and fast due to the special material used in the cone. This provides a balanced speaker which reproduces instruments and vocals as the were recorded. The range toping 3 way fs150 floorstanders will have you doubting the necessity to add a sub woofer.

Whether you are looking for a full surround home theatre system with atmos, a small stereo system for your office or are somewhere in between, Bentley Acoustics has the speakers for you. Alex Singo

Model : FC-150



Specifications

System Type : 3-way bass-reflex design

Power Handling:	40-150W	Impedance:	6 Ohm
Frequency Response:	60hz - 25Khz	Sensitivity:	89db

Driver Configuration :

2 x 4" Aluminium Magnesium M4N Woofer (Low/Mid Bass)

2 x 4" Aluminium Magnesium B4N Dedicated Midrange

1 x 1" Silk Dome Tweeter

Weight:	6kg Nett	Dimensions:	650 x 210 x 150mm
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FC-150 centre channel speaker is the flagship 100 Series centre speaker and is unique at its price in being a 3-way, full-range design, able to meet the requirements of modern music and movie multichannel playback with its natural, smooth, powerful performance.

With its unique 3-way full range speaker design it is able to make vocals sound natural and smooth.

Model : FC-100



Specifications

System Type : 2-way Sealed box design

Power Handling:	20-100W	Impedance:	6 Ohm
Frequency Response:	80hz - 25Khz	Sensitivity:	88db

Driver Configuration :

2 x 4" Aluminium Magnesium M4N Woofer (Low/Mid/vocal/Bass)

1 x 1" Silk Dome Tweeter

Weight:	4kg Nett	Dimensions:	450 x 160 x 150mm
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FC-100 centre channel speaker is a great solution for smaller room, offering clear, detailed vocals and effects at a very reasonable price.

Model : FR-100



Specifications

System Type : 2-way bass-reflex design

Power Handling: 20-120W

Impedance: 6 Ohm

Frequency Response: 45hz - 25Khz

Sensitivity: 89db

Driver Configuration :

1 x 5" Aluminium Magnesium M5N Midrange/Midbass Woofer

1 x 1" Silk Dome Tweeter

Weight: 5.5kg Nett

Dimensions: 180 x 320 x 260mm

The top-level bookshelf speaker with its 2-way design and solid cabinet packs in impressive punch, with solid, detailed bass as low as 45Hz, balanced by crystal clear mids and highs.

Model : FR-80



Specifications

System Type : 2-way bass-reflex design

Power Handling: 20-80W

Frequency Response: 60hz - 25Khz

Driver Configuration :

1 x 4" Aluminium Magnesium M4N Midrange/Midbass Woofer

1 x 1" Silk Dome Tweeter

Weight: 3.3kg Nett

Dimensions: 160 x 270 x 150mm

Designed with one thing in mind: accurate sound reproduction. Perfect for use as surround and effects speakers, these small speakers pack a mighty punch!



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