

THE SOVEREIGN SERIES SOVEREIGN 15-250

BASS DRIVER



15" / 381 mm
CHASSIS DIAMETER

250 w (A.E.S.)
POWER HANDLING

97 dB
SENSITIVITY (1w / 1m)

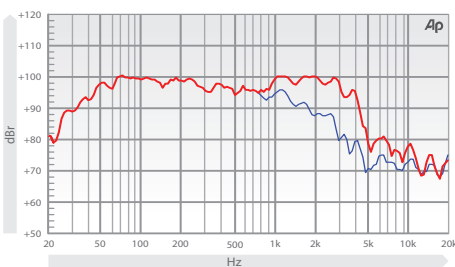
40 Hz - 3 kHz
FREQUENCY RESPONSE

2.0" / 50.8 mm
Copper Voice Coil

- Bass driver optimised for use in 2 way sealed enclosures.
- Optimised cone pulp offering increased strength, durability and performance.

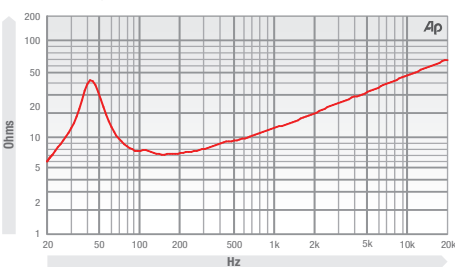
THE SOVEREIGN SERIES

FREQUENCY RESPONSE DATA*

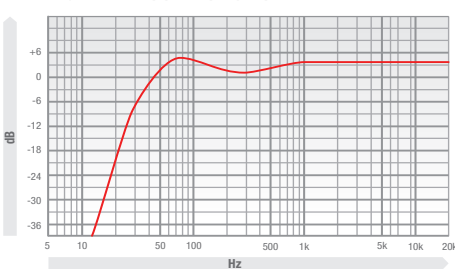


* Half space response measured in a 975 litre sealed box.

IMPEDANCE



PREDICTED BASS RESPONSE



** Normalised bass response in 175 litre tuned to 40 Hz

ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	15" / 381 mm
Impedance	8 Ω
Power Handling	250 w (A.E.S.)
Peak Power (6dB Crest Factor)	1000 w (A.E.S.)
Usable Frequency Range -6dB	40 Hz - 3 kHz
Sensitivity (1 w - 1 m)	97 dB
Moving Mass inc. Air Load	90 grams
Minimum Impedance Zmin	7.1 Ω
Effective Piston Diameter	15.03" / 381.76 mm
Peak Displacement Volume of Cone Vd	0.25 litres
Magnetic Gap Depth	0.31" / 7.87 mm
Flux Density	1 Tesla
Coil Winding Height	0.59" / 14.98 mm
Voice Coil Diameter	2.0" / 50.8 mm

MOUNTING / SHIPPING INFORMATION

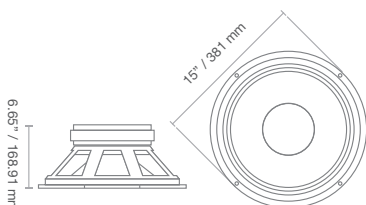
Overall Diameter	15" / 381 mm
Width Across Flats	N/A
Flange Height	0.35" / 8.89 mm
Baffle Hole Diameter F/M	13.85" / 351.79 mm
Baffle Hole Diameter R/M	13.85" / 351.79 mm
Gasket Supplied	Front & Rear
Fixing Holes	8x 6.35 mm on 14.56" / 369.2 mm PCD
Depth	6.65" / 168.91 mm
Weight	7.38 lb / 3.35 kg
Recommended Enclosure Volume	1.76 - 4.41 cu ft / 50 - 125 litres
Shipping Weight	10.13 lb / 4.6 kg
Packing Carton Dimensions	220 x 420 x 420 mm

THIELE SMALL PARAMETERS

FS Hz	43 Hz
RE Ohms	6.2 Ω
Qms	7.18
Qes	0.81
Qts	0.73
Vas Ltr	144 litres
Vd litres	0.247 litres
CMS (mm/N)	0.14 mm/N
BL T/m	13.72 T/m
Mms (grams)	90 grams
Xmax (mm)	4.35 mm
Sd (cm²)	853 cm²
Efficiency %	1.59%
Le (1k Hz)	1.8 mH

MATERIALS OF CONSTRUCTION

Former Material	1 Tesla
Voice Coil	Copper
Magnet Material	Ferrite
Chassis	Pressed Steel
Cone	Paper
Surround / Edge Termination	Polyvinyl Damped Dbl. Half Roll Linen
Dust Dome	Paper
Connectors	Solder Tag
Polarity	Positive voltage at red terminal causes forward motion of cone



- Please enquire about alternative impedances.
- A.E.S. power handling test. Pink noise bandpass filtered at 12 dB per octave with cutoff frequencies of 40 Hz and 400 Hz. Driver mounted in free air, test signal applied at rated power for two hours.
- Please note that the frequency response measurements are supplied for comparison only and are not a measure of the low frequency performance which may be achieved in a fully optimised system.
- Technical Schematic provided for illustrative purposes only and is not indicative of the actual product.

SOVEREIGN 15-250

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