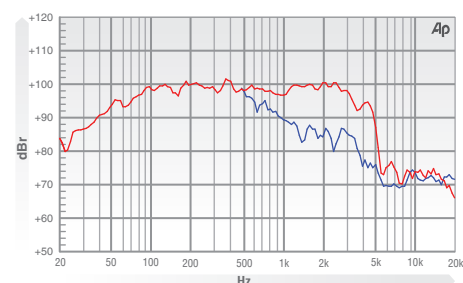




SOVEREIGN PRO 15-500

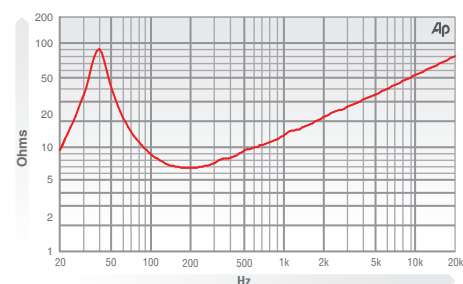
The Sovereign Pro 15-500 is intended for use in two-way ported enclosures, such as the classic bass driver plus horn tweeter or compression driver format. The unit features a die cast chassis with long throw motor system and high linearity suspension allowing solid bass reproduction at high-power levels. The driver exhibits smooth frequency response to give a balanced tonal characteristic when properly matched to appropriate high-frequency drivers. The Sovereign Pro 15-500 is designed for use in 75 to 150 litre ported enclosures. The unit features a 3-inch voice coil with a power handling of 500 Watts and an average sensitivity of 99dB.

FREQUENCY RESPONSE DATA*

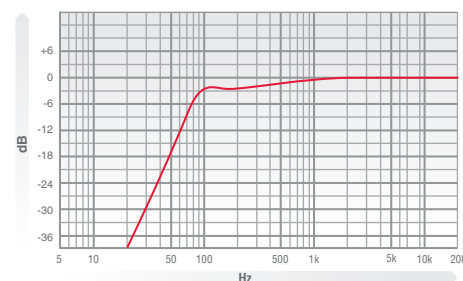


* Half space response measured in a 975 litre sealed box

IMPEDANCE



PREDICTED BASS RESPONSE



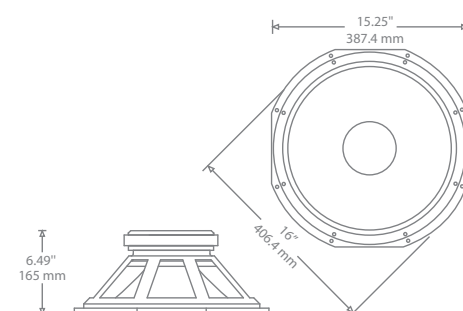
** Normalized bass response in 175 litre tuned to 40Hz

ELECTRO ACOUSTIC SPECIFICATIONS	
Nominal Chassis Diameter	15"
Impedance	8 Ω
Power Handling	500 w (EIA 426A)
Peak Power (6dB Crest Factor)	2000 w (EIA 426A)
Usable Frequency Range -6dB	42 Hz - 3.5 kHz
Sensitivity (1 w - 1 m)	99 dB
Moving Mass inc. Air Load	82 grams
Minimum Impedance Zmin	6.5 Ω
Effective Piston Diameter	13.03" / 331 mm
Peak Displacement Volume of Cone Vd	0.51 litres
Magnet Weight	80 oz
Magnetic Gap Depth	0.39" / 10 mm
Flux Density	1.0 Tesla
Coil Winding Height	0.70" / 18 mm
Voice Coil Diameter	3.00" / 76.2 mm

MATERIALS OF CONSTRUCTION	
Former Material	Glass Fibre
Voice Coil	Copper
Magnet Material	Ferrite
Chassis	Die-cast Aluminium
Cone	Curvilinear Paper
Surround / Edge Termination	Polyvinyl Damped Half Roll Linen
Dust Dome	Solid Paper
Connectors	Push-button Spring Terminals
Polarity	Positive Voltage at Red Terminal Causes Forward Motion of Cone

THIELE SMALL PARAMETERS	
FS Hz	40 Hz
RE Ohms	5.4 Ω
Qms	10
Qes	0.33
Qts	0.32
Vas Ltr	192
Vd litres	0.513
CMS (mm/N)	0.186
BL T/m	18.9
Mms (grms)	85
Xmax (mm)	6
Sd (cm ²)	855
Efficiency %	3.6
Le (1k Hz)	1.9 mH

MOUNTING / SHIPPING INFORMATION	
Overall Diameter	16" / 406.4 mm
Width Across Flats	15.25" / 387 mm
Flange Height	0.30" / 7.8 mm
Baffle Hole Diameter F/M	13.85" / 352 mm
Baffle Hole Diameter R/M	14" / 355.6 mm
Gasket Supplied	Front & Rear
Fixing Holes	4x 7.1mm on 15.5" / 393.7 mm pcd
Depth	6.49" / 165 mm
Weight	17.52 lb / 7.95 kg
Recommended Enclosure Volume	2.64 - 5.29 cu ft / 75 - 150 litres
Shipping Weight	20.05 lb / 9.1 kg
Packing Carton Dimensions	220 x 420 x 420 mm



- Please enquire about alternative impedances.
- EIA 426A. power handling test. Pink noise bandpass filtered at 12 dB per octave. Driver mounted in free air, test signal applied at rated power for 8 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.