

# THE PROFESSIONAL SERIES SOVEREIGN PRO 15-500

BASS DRIVER

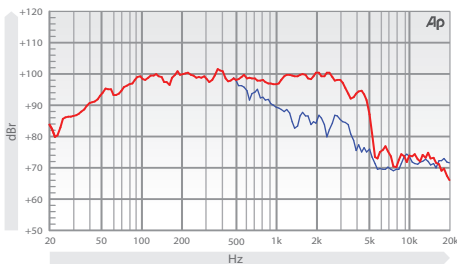


<b>15" / 381 mm</b> CHASSIS DIAMETER	<b>500 w (A.E.S.)</b> POWER HANDLING	<b>99 dB</b> SENSITIVITY (1w / 1m)
<b>42 Hz - 3.5 kHz</b> FREQUENCY RESPONSE	<b>3.0" / 76.2 mm</b> COPPER VOICE COIL	Designed for use in 75-150 litre enclosures

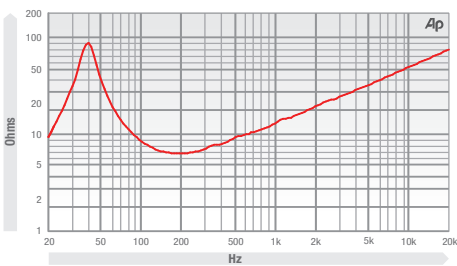
The Sovereign Pro 15-500 is intended for use in two-way ported enclosures, such as the classic bass driver plus horn tweeter or compression driver format. The unit features a die cast chassis with long throw motor system and high linearity suspension allowing solid bass reproduction at high-power levels. 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.

- Highly versatile in 2-way ported enclosures.
- High SPL producing fast and punchy bass.
- Smooth extended frequency response.
- High linearity suspension.
- UK manufactured cone with optimised pulp offering increased strength, durability and performance.

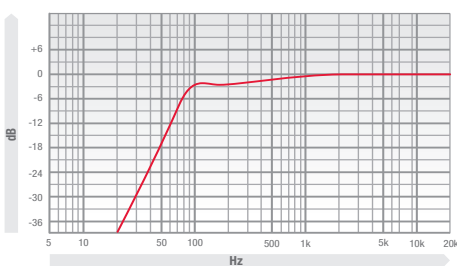
## FREQUENCY RESPONSE DATA\*



## IMPEDANCE



## PREDICTED BASS RESPONSE



## ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	15" / 381 mm
Impedance	4 / 8 / 16 Ω
Power Handling	500 w (A.E.S.)
Peak Power (6dB Crest Factor)	2000 w (A.E.S.)
Usable Frequency Range -6dB	42 Hz - 3.5 kHz
Sensitivity (1 w - 1 m)	99 dB
Moving Mass inc. Air Load	85 grams
Minimum Impedance Zmin	6.5 Ω
Effective Piston Diameter	13.03" / 330.96 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	3.0" / 76.2 mm

## MOUNTING / SHIPPING INFORMATION

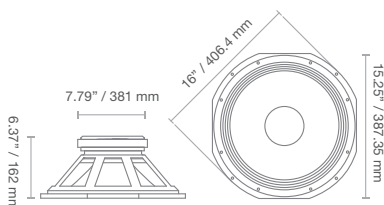
Overall Diameter	16" / 406.4 mm
Width Across Flats	15.25" / 387.35 mm
Flange Height	0.30" / 7.62 mm
Baffle Hole Diameter F/M	13.85" / 351.79 mm
Baffle Hole Diameter R/M	14" / 355.6 mm
Gasket Supplied	Front & Rear
Fixing Holes	4x 0.281" diam on 15.5 PCD / 8 x 0.281 diam on 14.56 PCD 4x 7.1 mm diam on 393.7 PCD / 8x 7.1 diam on 370 PCD
Depth	6.37" / 162 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

## THIELE SMALL PARAMETERS

FS Hz	40 Hz
RE Ohms	5.4 Ω
Qms	10
Qes	0.33
Qts	0.32
Vas Ltr	192 litres
Vd litres	0.513 litres
CMS (mm/N)	0.186 mm/N
BL T/m	18.9 T/m
Mms (gms)	85 grams
Xmax (mm)	6 mm
Sd (cm²)	855 cm²
Efficiency %	3.60%
Le (1k Hz)	1.9 mH

## 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 Multi Roll. Poly Cotton
Dust Dome	Solid Paper
Connectors	Push-button Spring Terminals
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.