

THE PROFESSIONAL SERIES SOVEREIGN PRO 10-300

BASS DRIVER

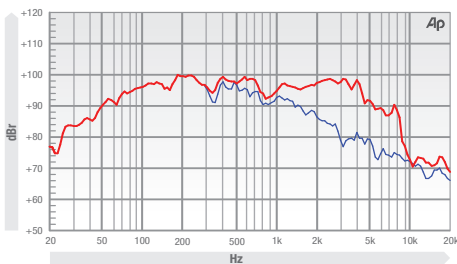


10" / 254 mm CHASSIS DIAMETER	300 w (A.E.S) POWER HANDLING	98 dB SENSITIVITY (1w / 1m)
45 Hz - 4 kHz FREQUENCY RESPONSE	2.5" / 63.5 mm COPPER - INSIDE / OUTSIDE WINDINGS VOICE COIL	Optimised for 14-40 litre ported enclosures

The Sovereign Pro 10-300 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 die cast chassis with long throw motor system and high linearity suspension allowing solid bass reproduction at high-power levels. This this driver delivers a smooth and balanced response throughout its frequency range and delivers well balanced tonal characteristics when properly matched to appropriate high-frequency drivers. The Sovereign Pro 10-300 is designed for use in 14 to 40 litre ported enclosures and features a 2.5 inch sandwich voice coil capable of 300 Watt power handling and 98 dB sensitivity.

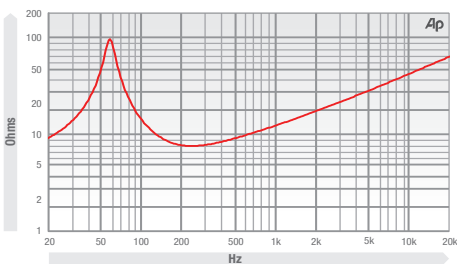
- Smooth and balanced response.
- High linearity suspension.
- Long throw motor structure 5.5 mm Xmax.

FREQUENCY RESPONSE DATA*

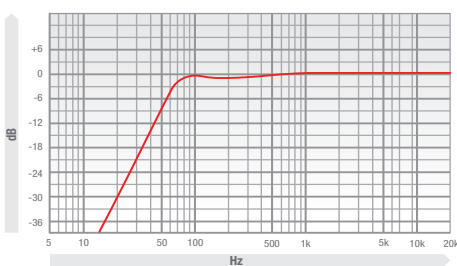


* Half space response measured in a 975 litre sealed box.

IMPEDANCE



PREDICTED BASS RESPONSE



** Normalised bass response in 25 litre tuned to 50 Hz

ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	10" / 254 mm
Impedance	4 / 8 / 16 Ω
Power Handling	300 w (A.E.S)
Peak Power (6dB Crest Factor)	1200 w (A.E.S.)
Usable Frequency Range -6dB	45 Hz - 4 kHz
Sensitivity (1 w - 1 m)	98 dB
Moving Mass inc. Air Load	37 grams
Minimum Impedance Zmin	6.8 Ω
Effective Piston Diameter	8.46" / 214.88 mm
Peak Displacement Volume of Cone Vd	0.2 litres
Magnet Weight	56 oz
Magnetic Gap Depth	0.39" / 10 mm
Flux Density	1.1 Tesla
Coil Winding Height	0.70" / 18 mm
Voice Coil Diameter	2.5" / 63.5 mm

MOUNTING / SHIPPING INFORMATION

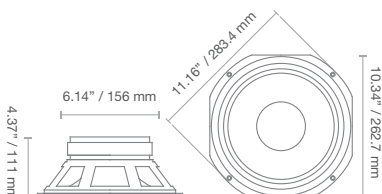
Overall Diameter	11.16" / 283.4 mm
Width Across Flats	10.34" / 262.7 mm
Flange Height	0.305" / 7.8 mm
Baffle Hole Diameter F/M	8.97" / 227.83 mm
Baffle Hole Diameter R/M	N/A
Gasket Supplied	Rear
Fixing Holes	4x 0.218" diam on 10.625 PCD 4x 5.5 mm diam on 270 PCD
Depth	4.37" / 111 mm
Weight	11.02 lb / 5 kg
Recommended Enclosure Volume	0.49 - 1.41 cu ft / 14 - 40 litres
Shipping Weight	12.56 lb / 5.7 kg
Packing Carton Dimensions	288 x 288 x 195 mm

THIELE SMALL PARAMETERS

FS Hz	58 Hz
RE Ohms	5.7 Ω
Qms	6.08
Qes	0.34
Qts	0.32
Vas Ltr	41 litres
Vd litres	0.208 litres
CMS (mm/N)	0.211 mm/N
BL T/m	15.3 T/m
Mms (grms)	37 grams
Xmax (mm)	5.5 mm
Sd (cm²)	378 cm²
Efficiency %	2.36%
Le (1k Hz)	1.68 mH

MATERIALS OF CONSTRUCTION

Former Material	Glass Fibre
Voice Coil	Copper - Inside / Outside Windings
Magnet Material	Ferrite
Chassis	Die-cast Aluminium
Cone	Curvilinear Paper
Surround / Edge Termination	Polyvinyl Damped Dbl. Half Roll Linen
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 50 Hz and 500 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.