



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.

# 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

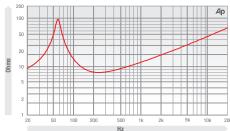
- Smooth and balanced response.
- High linearity suspension.
- Long throw motor structure 5.5 mm Xmax.

#### FREQUENCY RESPONSE DATA<sup>3</sup>

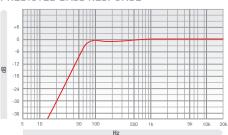


\* Half space response measured in a 975 litre sealed box

## **IMPEDANCE**



### PREDICTED BASS RESPONSE



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

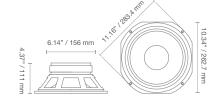
Nominal Chassis Diameter	10" / 254 mm
Impedance	4 /8 /16 Ω
Power Handling	300 w (A.E.S)
Peak Power (6dB Crest Factor)	1200 w (A.E.S.)
Usable Frequency Range -6dB	45 Hz - 4 kHz
Sensitivity (1 w - 1 m)	98 dB
Moving Mass inc. Air Load	37 grams
Minimum Impedance Zmin	6.8 Ω
Effective Piston Diameter	8.46"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

**ELECTRO ACOUSTIC SPECIFICATIONS** 

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	

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 cm <sup>2</sup>
Efficiency %	2.36%
Le (1k Hz)	1.68 mH

MATERIALS OF CONSTRUCTION	
Glass Fibre	
Copper - Inside / Outside Windings	
Ferrite	
Die-cast Aluminium	
Curvilinear Pape	
Polyvinyl Damped Dbl. Half Rol Liner	
Solid Pape	
Push-button Spring Terminals	
Positive voltage at red termina causes forward motion of cone	



Please enquire about alternative impedances

**Packing Carton Dimensions** 

- 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.

288 x 288 x 195 mm