

THE PROFESSIONAL SERIES SOVEREIGN PRO 10-300SC

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
CCAW VOICE COIL

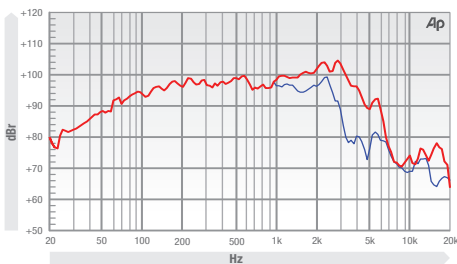
Designed for use in 25-50 litre ported enclosures

The Sovereign Pro 10-300SC 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. The specially formulated cone pulp allows this driver to give a warm and smooth response throughout the bass frequency range and delivers well balanced tonal characteristics when properly matched to appropriate high-frequency drivers. The Sovereign Pro 10-300SC is designed for use in 25 to 50 litre ported enclosures and features a 2.5 inch voice coil, 300 Watt power handling and 98 dB sensitivity.

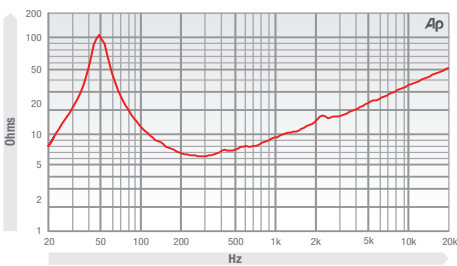
- Highly versatile in 2-way ported enclosures.
- Warm and smooth response throughout the bass frequency range.
- Optimised cone pulp offering increased strength, durability and performance.
- Specially formulated damping coating.
- Perfect for full range KTV systems.

THE PROFESSIONAL SERIES

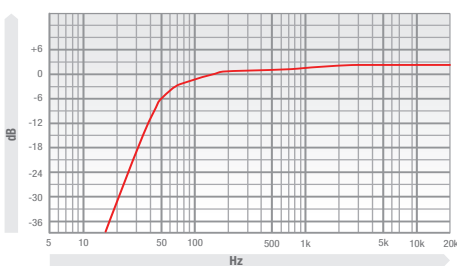
FREQUENCY RESPONSE DATA*



IMPEDANCE



PREDICTED BASS RESPONSE



ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	10" / 254 mm
Impedance	8 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	46.8 grams
Minimum Impedance Zmin	6.24 Ω
Effective Piston Diameter	8.19" / 208.02 mm
Peak Displacement Volume of Cone Vd	0.17 litres
Magnet Weight	56 oz
Magnetic Gap Depth	0.31" / 7.87 mm
Flux Density	1.1 Tesla
Coil Winding Height	0.53" / 13.46 mm
Voice Coil Diameter	2.5" / 63.5 mm

MOUNTING / SHIPPING INFORMATION

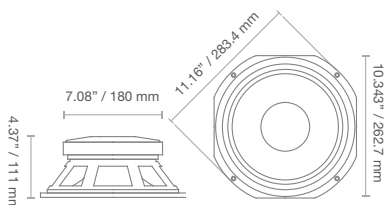
Overall Diameter	11.16" / 283.4 mm
Width Across Flats	10.343" / 262.7 mm
Flange Height	0.305" / 7.8 mm
Baffle Hole Diameter F/M	8.97" / 227.83 mm
Baffle Hole Diameter R/M	N/A
Gasket Supplied	Rear
Fixing Holes	4x 0.218" diam on 10.625 PCD 4x 5.5 mm diam on 270 PCD
Depth	4.37" / 111 mm
Weight	10.14 lb / 4.6 kg
Recommended Enclosure Volume	0.88 - 1.76 cu ft / 25 - 50 litres
Shipping Weight	11.35 lb / 5.15 kg
Packing Carton Dimensions	288 x 288 x 195 mm

THIELE SMALL PARAMETERS

FS Hz	47 Hz
RE Ohms	5.5 Ω
Qms	10.13
Qes	0.34
Qts	0.33
Vas Ltr	45.43 litres
Vd litres	0.172 litres
CMS (mm/N)	0.245 mm/N
BL T/m	14.8 T/m
Mms (grams)	46.8 grams
Xmax (mm)	4.75 mm
Sd (cm²)	361 cm²
Efficiency %	1.70%
Le (1k Hz)	1.27 mH

MATERIALS OF CONSTRUCTION

Former Material	Kapton
Voice Coil	CCAW
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.

SOVEREIGN PRO 10-300SC