

SOVEREIGN PRO 12BM

SUB BASS DRIVER

12" / 304.8 mm	500 W (A.E.S.)	40 Hz - 3.5 kHz	3.0" / 76.2 mm	95 dB	7.7 mm Xmax
CHASSIS DIAMETER	AES POWER HANDLING	FREQUENCY RESPONSE	COPPER VOICE COIL	SENSITIVITY (1W/ 1m)	MAXIMUM LINEAR EXCURSION

- Suitable for horn loaded / bandpass applications producing warm, punchy bass.
- Ideal for two way ported enclosures when combined with Fane high frequency devices.
- Strong rigid cone allowing undistorted bass at high SPL .
- Single roll rubber surround.

The Sovereign Pro 12BM is intended for use in two-way ported enclosures. The driver combined with Fane compression driver and horn offers excellent tonal character throughout its active bandwidth. 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. The Sovereign Pro 12BM is designed for use in 35 to 60 Litre ported enclosures and features a 3 inch voice coil, 400 Watt power handling and 94 dB sensitivity.

ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	12" / 304.8 mm
Impedance	8 Ohm
Power Handling	500 W (A.E.S.)
Peak Power (6dB Crest Factor)	2000 W (A.E.S.)
Usable Frequency Range -6dB	40 Hz - 3.5 kHz
Sensitivity (1 w - 1 m)	95 dB
Moving Mass inc. Air Load	86 grams
Minimum Impedance Zmin	7.3 Ω
Effective Piston Diameter	10.00" / 254.00 mm
Magnet Weight	88 oz
Magnetic Gap Depth	0.39" / 9.91 mm
Flux Density	1.15 Tesla
Coil Winding Height	0.73" / 18.54 mm
Voice Coil Diameter	3.0" / 76.2 mm

MOUNTING / SHIPPING INFORMATION

Overall Diameter	13" / 330.2 mm
Width Across Flats	12.19" / 309.62 mm
Flange Height	0.305" / 7.8 mm
Baffle Hole Diameter F/M	11.03" / 280.16 mm
Baffle Hole Diameter R/M	10.13" / 257.30 mm
Gasket Supplied	Front
Outer Fixing Holes	4x Ø 5.5 mm on 317.5 mm PCD
Inner Fixing Holes	N/A
Depth	5.79" / 147.07 mm
Weight	19.18 lb / 8.70 kg
Recommended Enclosure Volume	30 - 60 Litres
Shipping Weight	20.90 lb / 9.48 kg
Packing Carton Dimensions	(W) 330 (D) 330 (H) 170 mm

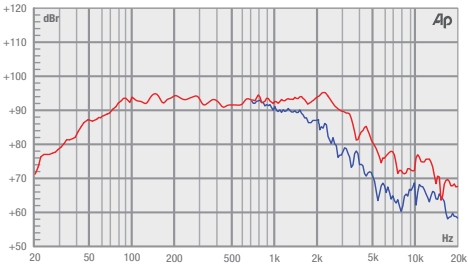
THIELE SMALL PARAMETERS

FS Hz	41 Hz
RE Ohms	3.4 Ω
Qms	1.902
Qes	0.231
Qts	0.206
Vas Ltr	65.33 Litres
Vd Litres	0.393 Litres
CMS (mm/N)	0.176 mm/N
BL T/m	18 T/m
Mms (grms)	85 grams
Xmax (mm)	7.7 mm
Sd (cm²)	510.6 cm²
Efficiency %	1.870%
Le (1k Hz)	1.89 mH
EBP	177.49 Hz

MATERIALS OF CONSTRUCTION

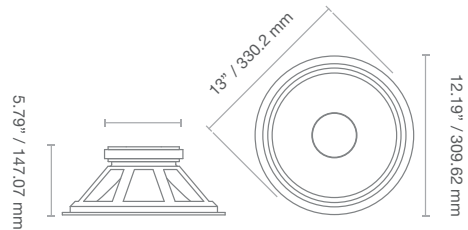
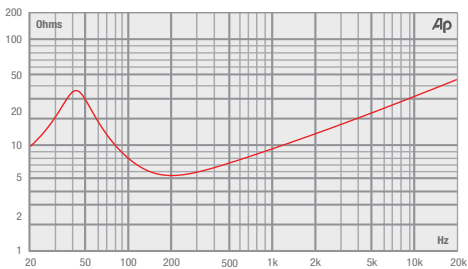
Former Material	Glass Fibre
Voice Coil	Copper
Magnet Material	Ferrite
Chassis	Die-cast Aluminium
Cone	Paper
Surround / Edge Termination	Rubber Roll
Dust Dome	Paper
Connectors	Push-button Spring Terminals
Polarity	Positive voltage at red terminal causes forward motion of cone

FREQUENCY RESPONSE DATA†



† Half space response measured in a 975 Litre sealed box.

IMPEDANCE



* Please enquire about alternative impedances.

* A.E.S. power handling test. Pink noise bandpass filtered at 12 dB per octave with cutoff frequencies of 45 Hz and 450 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.