

# THE PROFESSIONAL SERIES SOVEREIGN PRO 8BM

BASS / MID DRIVER



**8" / 203.2 mm**  
CHASSIS DIAMETER

**250 w (A.E.S.)**  
POWER HANDLING

**93.5 dB**  
SENSITIVITY (1w / 1m)

**50Hz - 4.5 kHz**  
FREQUENCY RESPONSE

**2.0" / 50.8 mm**  
COPPER VOICE COIL

**Suitable for home cinema applications**

### Product Features:

- For use in small compact sound systems, or in-fill applications with compact cabinet dimensions.
- Rubber roll surround .
- Excellent low frequency response and balance of bass and midrange.
- Suitable for home cinema applications

THE PROFESSIONAL SERIES

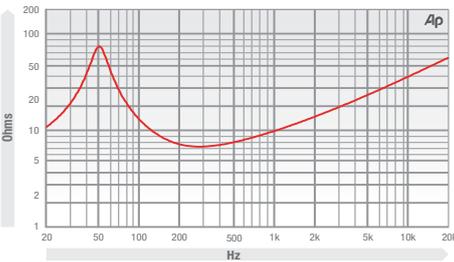
SOVEREIGN PRO 8BM

### FREQUENCY RESPONSE DATA\*

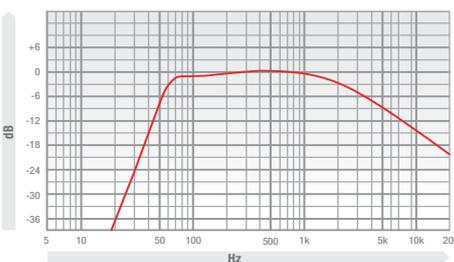


\* Half space response measured in a 965 litre sealed box

### IMPEDANCE



### PREDICTED BASS RESPONSE



\*\* Normalised bass reponse in 18 litre tuned to 60 Hz

### ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	8" / 203.2 mm
Impedance	8 Ω
Power Handling	250 w (A.E.S.)
Peak Power (6dB Crest Factor)	1000 w (A.E.S.)
Usable Frequency Range -6dB	50Hz - 4.5 kHz
Sensitivity (1 w - 1 m)	93.5 dB
Moving Mass inc. Air Load	28 grams
Minimum Impedance Zmin	7.44 Ω
Effective Piston Diameter	6.70" / 170.18 mm
Peak Displacement Volume of Cone Vd	0.102 litres
Magnet Weight	37 oz
Magnetic Gap Depth	0.24" / 6.00 mm
Flux Density	1 Tesla
Coil Winding Height	0.51" / 13.00 mm
Voice Coil Diameter	2.0" / 50.8 mm

### MOUNTING / SHIPPING INFORMATION

Overall Diameter	8.9" / 226 mm
Width Across Flats	8.25" / 210 mm
Flange Height	0.28" / 7 mm
Baffle Hole Diameter F/M	7.33" / 186 mm
Baffle Hole Diameter R/M	N/A
Gasket Supplied	Front & Rear
Fixing Holes	4x 5.5 mm ∅ on 214 mm PCD Not Applicable
Depth	3.56" / 90.30 mm
Weight	6.50 lb / 2.95 kg
Recommended Enclosure Volume	8 - 23 litres
Shipping Weight	7.00 lb / 3.18 kg
Packing Carton Dimensions	235 x 235 x 165 mm

### THIELE SMALL PARAMETERS

FS Hz	52 Hz
RE Ohms	6.2 Ω
Qms	49.98
Qes	0.314
Qts	0.312
Vas Ltr	23.5 litres
Vd litres	0.102 litres
CMS (mm/N)	0.335 mm/N
BL T/m	13.44 T/m
Mms (grms)	28.6 grams
Xmax (mm)	4.5 mm
Sd (cm²)	227 cm²
Efficiency %	1.05%
Le (1k Hz)	0.597 mH

### 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

- 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.

