

# THE PROFESSIONAL SERIES SOVEREIGN PRO 15-600LF

BASS DRIVER



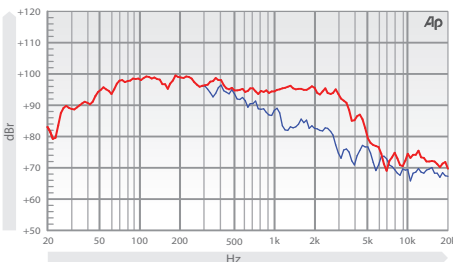
<b>15" / 381 mm</b> CHASSIS DIAMETER	<b>600 w (A.E.S.)</b> POWER HANDLING	<b>98 dB</b> SENSITIVITY (1w / 1m)
<b>35 Hz - 3.5 kHz</b> FREQUENCY RESPONSE	<b>3.0" / 76.2 mm</b> COPPER VOICE COIL	

The Sovereign Pro 15-600LF 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 a die cast chassis with long throw motor system and long throw surround allowing solid bass reproduction at high-power levels. The driver exhibits a smooth frequency response to give a balanced tonal characteristic when properly matched to appropriate high-frequency drivers. The Sovereign Pro 15-600LF can also be used in ported bass enclosures to deliver tight accurate bass down to 40 Hz. The unit features a 3-inch voice coil with a power handling of 600 Watts and an average sensitivity of 98 dB.

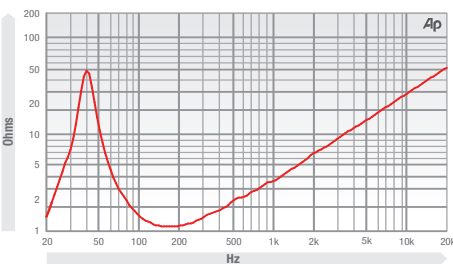
- Highly versatile in 2-way ported enclosures.
- Smooth frequency response.
- Delivers tight accurate bass down to 40 Hz.
- UK manufactured cone with optimised pulp offering increased strength, durability and performance.

THE PROFESSIONAL SERIES

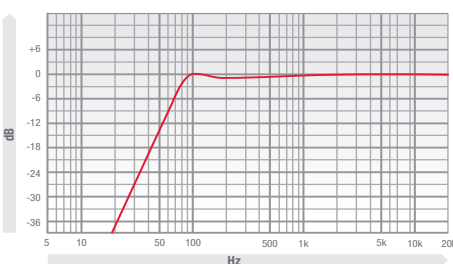
## FREQUENCY RESPONSE DATA\*



## IMPEDANCE



## PREDICTED BASS RESPONSE



## ELECTRO ACOUSTIC SPECIFICATIONS

Nominal Chassis Diameter	15" / 381 mm
Impedance	8 Ω
Power Handling	600 w (A.E.S.)
Peak Power (6dB Crest Factor)	2400 w (A.E.S.)
Usable Frequency Range -6dB	35 Hz - 3.5 kHz
Sensitivity (1 w - 1 m)	98 dB
Moving Mass inc. Air Load	89 grams
Minimum Impedance Zmin	6.5 Ω
Effective Piston Diameter	13.03" / 330.96 mm
Peak Displacement Volume of Cone Vd	0.59 litres
Magnet Weight	100 oz
Magnetic Gap Depth	0.39" / 10 mm
Flux Density	1.1 Tesla
Coil Winding Height	0.75" / 19 mm
Voice Coil Diameter	3.0" / 76.2 mm

## MOUNTING / SHIPPING INFORMATION

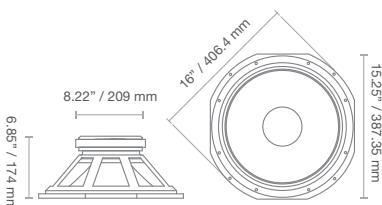
Overall Diameter	16" / 406.4 mm
Width Across Flats	15.25" / 387.35 mm
Flange Height	0.30" / 7.62 mm
Baffle Hole Diameter F/M	13.85" / 351.79 mm
Baffle Hole Diameter R/M	14" / 355.6 mm
Gasket Supplied	Front & Rear
Fixing Holes	4x 0.281" diam on 15.5 PCD / 8 x 0.281 diam on 14.56 PCD 4x 7.1 mm diam on 393.7 PCD / 8x 7.1 diam on 370 PCD
Depth	6.85" / 174 mm
Weight	20.49 lb / 9.3 kg
Recommended Enclosure Volume	2.64 - 5.29 cu ft / 75 - 150 litres
Shipping Weight	23.03 lb / 10.45 kg
Packing Carton Dimensions	220 x 420 x 420 mm

## THIELE SMALL PARAMETERS

FS Hz	40 Hz
RE Ohms	6.5 Ω
Qms	8.8
Qes	0.38
Qts	0.37
Vas Ltr	188 litres
Vd litres	0.59 litres
CMS (mm/N)	0.18 mm/N
BL T/m	19.7 T/m
Mms (grams)	89 grams
Xmax (mm)	6.9 mm
Sd (cm²)	856 cm²
Efficiency %	3.05%
Le (1k Hz)	1.85 mH

## MATERIALS OF CONSTRUCTION

Former Material	Glass Fibre
Voice Coil	Copper
Magnet Material	Ferrite
Chassis	Die-cast Aluminium
Cone	Curvilinear Paper
Surround / Edge Termination	Polyvinyl Damped Multi Roll. Poly Cotton
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 40 Hz and 400 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 15-600LF

FANE