

THE SOVEREIGN SERIES

SOVEREIGN 12-300/2

BASS / MID-RANGE DRIVER

FANE

12" / 304.8 mm

CHASSIS DIAMETER

600 W

PROGRAM POWER

45 Hz - 4.5 kHz

FREQUENCY RESPONSE

2.5" / 63.5 mm

VOICE COIL DIAMETER

97.5 dB

SENSITIVITY (1W/1m)

5 mm Xmax

MAX. LINEAR EXCURSION



VERIFIED WITH
KLIPPEL

The Fane Sovereign 12-300/2 is a versatile, medium-power 12 inch loudspeaker for pro-sound mid/bass in medium sized vented enclosures. Working well also for mid-range in small sealed box designs. Exhibiting a smooth frequency response, from 45 Hz to 4.5 kHz, the Sovereign 12-300/2 gives a balanced tonal character when properly matched to appropriate high-frequency drivers. Coupled to a 2.5-inch copper voice coil, the optimised cone pulp formulation offers increased strength, durability and performance.

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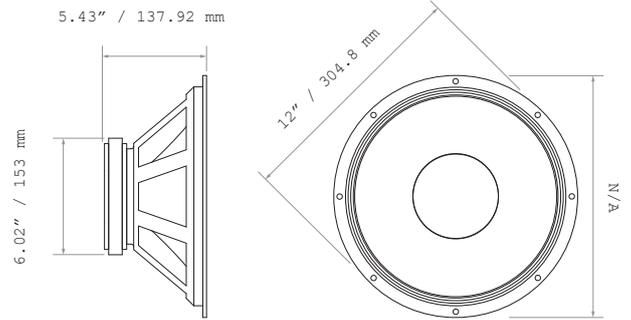
97.5 dB

SENSITIVITY (1W/1m)

5 mm Xmax

MAX. LINEAR EXCURSION

- + Versatile unit intended for use as a bass/ mid woofer in medium sized vented enclosures.
- + Can also be used as a mid-range driver in small sealed designs.
- + Optimised cone pulp offers increased strength, durability and performance.
- + 2.5-Inch Copper voice coil.



GENERAL SPECIFICATIONS

Nominal Chassis Diameter	12" / 304.8 mm
Nominal Impedance ⁽¹⁾	8 Ohm
Minimum Impedance Zmin	6.84 Ω
AES Power Handling ⁽²⁾	300 W (A.E.S.)
Program Power	600 W
Peak Power (6dB Crest Factor)	1200 W
Frequency Range ⁽³⁾	45 Hz - 4.5 kHz
Sensitivity (1W/1m)	97.5 dB
Magnet Material	Ferrite
Magnet Weight	56 oz
Magnetic Gap Depth	0.39" / 10 mm
Flux Density	1.1 Tesla
Former Material	Glass Fibre
Voice Coil Material	Copper
Coil Winding Height	0.70" / 18 mm
Voice Coil Diameter	2.5" / 63.5 mm
Cone/ Dust Dome Material	Curvilinear Paper / Paper
Surround / Edge Termination	Polyvinyl Damped Multi Roll. Poly Cotton

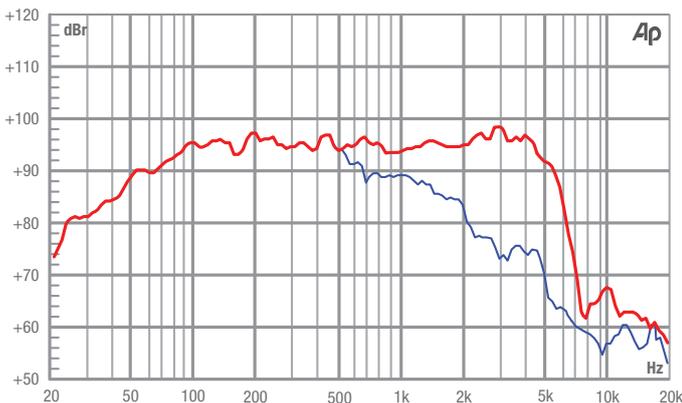
TECHNICAL & THIELE SMALL PARAMETERS

Fs	47 Hz
Re	5.75 Ω
Qms	6.78
Qes	0.425
Qts	0.4
Vas	80 Litres
Vd	0.27 Litres
Cms	0.188 mm/N
Bl	15.6 T/m
Mms	60 g
Xmax	5 mm
Sd	547 cm ²
Efficiency	2 %
Le (1k Hz)	0.9 mH
EBP	110.59 Hz
Effective Piston Diameter	10.31" / 261.87 mm
Rec. Enclosure Volume	1.05 - 2.64 ft ³ / 30 -75 Litres

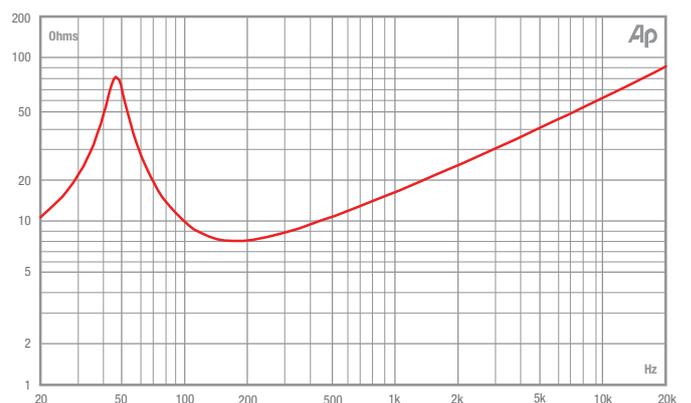
MOUNTING / SHIPPING INFORMATION

Overall Diameter	12" / 304.8 mm
Width Across Flats	N/A
Depth	5.43" / 137.92 mm
Flange Height	0.27" / 6.9 mm
Baffle Hole Diameter F/M	11.25" / 285.75 mm
Baffle Hole Diameter R/M	11.25" / 285.75 mm
Chassis Material	Pressed Steel
Gasket Supplied	Front & Rear
Outer Fixing Holes	8x ø 7.0 mm on 11.75" / 298 mm PCD
Inner Fixing Holes	N/A
Connectors ⁽⁴⁾	Solder Tag
Weight	11.02 lb / 5.0 kg
Shipping Weight	12.89 lb / 5.85 kg
Packing Carton Dimensions (mm)	(W) 330 (D) 330 (H) 170

FREQUENCY RESPONSE DATA⁽³⁾



IMPEDANCE



(1) Please enquire about alternative impedances.

(2) 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.

(3) Half space response measured in a 975 Litre sealed box. Blue line = fundamental 45° off-axis. 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.

(4) Positive voltage at red terminal causes forward motion of cone.