

ASPECT SERIES ENGINEERING INFORMATION

The Aspect series is a range of high performance modular loudspeaker enclosures designed for use across a wide spectrum of sound reinforcement activities, easily scaleable to specific acoustical and venue requirements ranging from large scale indoor or outdoor concerts to corporate events, theatre shows and nightclub applications.

The Aspect TA-890 system achieves its aim of distributing sound evenly, with consistent frequency response and in a predictable way, across all seats of an auditorium or listening area through the application of patented Polyhorn™ technology to create a segment of a spherical wavefront. It comprises a pair of identically sized loudspeaker enclosures—mid-high and low frequency—designed for flown and ground stacked touring applications.

The TA-880L is a ground stacked touring and install low frequency enclosure housing two high efficiency 15" drivers loaded with TurboBass™ devices in a compact rectangular

cabinet covering the frequency range from 45Hz to 100Hz. It is designed to partner the TA-880H trapezoidal mid-high enclosure, sharing the same footprint.

Neodymium magnet structures give the 15" drivers considerable power capability and greatly improved thermal performance. As a result power compression is reduced to negligible levels and maximum SPL of 138dB (peak) is easily achievable.

The cabinet is constructed from 15mm (5/8") birch plywood and the dimensions have been carefully chosen to allow the boxes to be optimally truck packed in the most common US and European vehicles without wasted space.

A rear panel carries two Speakon NL4MP connectors and the cabinet is fitted with ergonomically placed flush handles for easy lifting and carrying. Wheel dollies are also available to aid handling and trucking.



FEATURES

- Very high SPL**
- 15" LF drivers**
- Neodymium magnets**
- Very compact enclosure**

APPLICATIONS

- Stadia and arenas**
- Touring and festivals**
- Regional concert touring**
- Theatre and Corporate**
- Dance clubs**

DIMENSIONS (HxWxD)	795mm x 477mm x 574mm (31.3" x 18.8" x 22.6")								
NET WEIGHT	50kg (110 lbs)								
COMPONENTS	2 x 15" (381mm) LF drivers								
FREQUENCY RESPONSE¹	45Hz - 250Hz ±4dB								
POWER HANDLING	1100 watts r.m.s., 2200 watts program								
SENSITIVITY³	101dB, 1 watt @ 1metre								
MAXIMUM SPL	132dB continuous ⁴ , 138dB peak ⁵								
CROSSOVER BANDS	30Hz - 101Hz								
NOMINAL IMPEDANCE	8 ohms								
CONSTRUCTION	15mm (5/8") birch plywood throughout; rebated, screwed and glued. Finished in black semi-matt textured paint. Four recessed carrying handles								
GRILLE	Cloth/expanded metal								
CONNECTORS	2 x Neutrik Speakon NL4 wired: pin1+ positive; pin1- negative								
SPARES AND ACCESSORIES	<table border="0"> <tr> <td>MG-880</td> <td>Replacement cloth/expanded metal grille</td> </tr> <tr> <td>LS-1524</td> <td>15" (381mm) LF loudspeaker</td> </tr> <tr> <td>RC-1524</td> <td>Recone kit for LS-1524</td> </tr> <tr> <td>W-3</td> <td>Heavy duty wheel</td> </tr> </table>	MG-880	Replacement cloth/expanded metal grille	LS-1524	15" (381mm) LF loudspeaker	RC-1524	Recone kit for LS-1524	W-3	Heavy duty wheel
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Notes

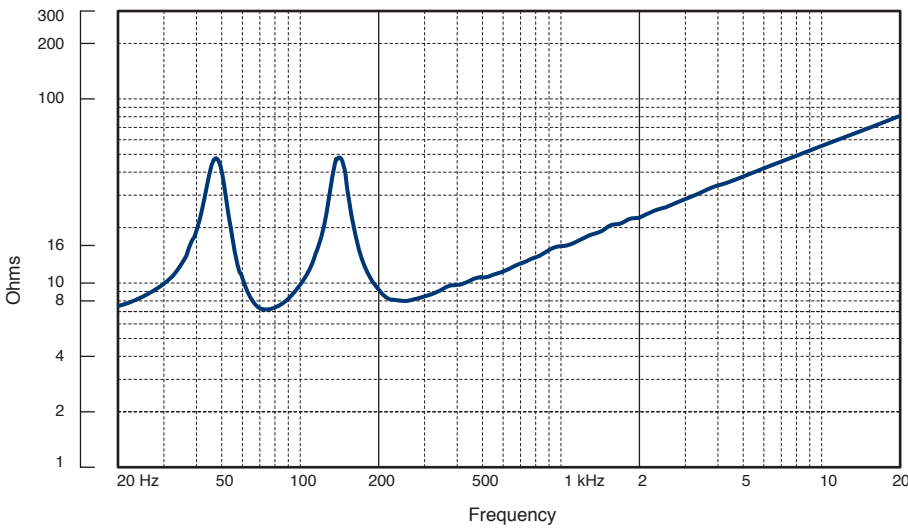
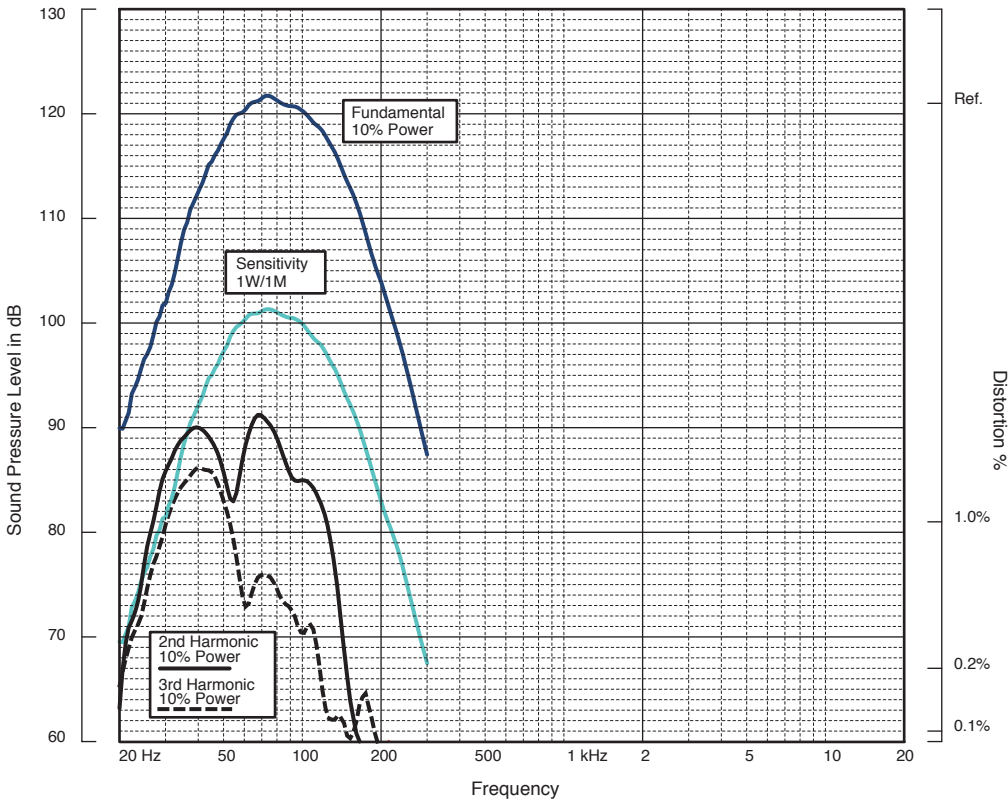
¹Measured on axis

³Average over stated bandwidth

⁴Unweighted diode-clipped pink noise. Measured in a half space environment.

⁵Verified by subjective listening tests of familiar program material, before the onset of perceived signal degradation.

LOW FREQUENCY RESPONSE



Impedance A constant current circuit was used to measure the impedance. **Frequency response** The frequency response shown was obtained by feeding a swept sine wave through the system in a half space environment. The position of the microphone was vertically on-axis at a distance of 2 metres, then scaled to represent 1 metre. **2nd & 3rd Harmonic Distortion** Distortion measurements were obtained using an Audio Precision harmonic distortion analysis system and comply with AES recommendations for enclosure measurement (AES paper ANSI S4-26-1984). **Data Conversion** All graphs were digitally generated using the APEX custom software system, designed to translate data derived from Audio Precision 'System One' test equipment into AutoCAD™. This program enables graphical information to be plotted to a high degree of accuracy.

NOTES ON MEASUREMENT CONDITIONS

**ARCHITECTURAL
& ENGINEER'S
SPECIFICATIONS**

The loudspeaker system shall be of the low frequency type, consisting of two 15" low frequency loudspeaker loaded with TurboBass™ devices. Performance specifications of a typical production unit shall meet or exceed the following: Frequency response, measured with swept sine wave input, shall be flat within ± 4 dB from 45Hz - 250Hz. Nominal impedance shall be 8 ohms. Power handling shall be 1100 watts r.m.s., 2200 watts program. Sensitivity, measured with 1 watt input at 1 metre distance on axis, mean averaged over stated bandwidth, shall be 101dB. Maximum SPL (peak), measured with music program input at stated amplifier power shall be 138dB. Dimensions: 795mmH x 477mmW x 574D (31.3" x 18.8" x 22.6"). Weight: 50kg (110 lbs). The loudspeaker system shall be the Turbosound TA-880L. No other loudspeaker system shall be acceptable unless submitted data from an independent test laboratory verify that the above combined performance/size specifications are equalled or exceeded.

DIMENSIONS

