AS118
Hybrid® folded horn/reflex loaded bass system

features
- High SPL capability
- Very high efficiency
- Hybrid® horn/reflex loaded bass system
- Powerful 18" (460mm) LF driver

applications
- Dedicated bass for Stadium Series horns
- Sports Stadia
- Arenas
- Exhibition halls

The AS118 has been specifically designed to be used with the AM404, AM604 and AM906 Stadium Series mid/high horn systems in applications where full-range music reproduction is required. Its port assisted, folded horn design combines the high efficiency and impact of a bass horn with the low frequency extension of a reflex enclosure.

It features a powerful 18" (460mm) / 4" (100mm) voice coil driver with a magnet structure and suspensions optimised for large linear excursion. The horn loading of the drive unit in the AS118 results in an efficiency of typically 6dB greater than a direct radiator bass enclosure. Additionally, output below the horn cut-off frequency is achieved by reflex loading the drive unit rear chamber.

This combination of horn and reflex techniques enables the AS118 to easily out-perform direct radiator enclosures of similar size and its exceptional efficiency of 108dB reduces the amplifier power required to produce a specified SPL.

The frontal dimensions of the AS118 are identical to the Stadium Series mid/high horns and it is provided with M10 threaded inserts to assist installation. The enclosure is constructed from 18mm multi-laminate birch ply and is fitted with a perforated steel grille.
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overall dimensions
The loudspeaker system shall be of the Hybrid® horn and reflex loaded bass type consisting of one 18” (460mm) 4” (100mm) voice coil long excursion low frequency transducer front loaded with a hyperbolic horn with low flare rate and rear reflex loaded. The enclosure shall be constructed of 18mm multi-laminate birch plywood finished both internally and externally with a textured, high-density polyurethane coating. A protective grille shall be fitted consisting of 18 gauge punched steel, heavy galvanised and powder coated, backed with an integral water barrier. The loudspeaker shall be operated with a separate electronic controller.

Performance of the loudspeaker system with its electronic controller shall meet or exceed the following criteria:

- **Frequency response measured 1 metre on axis shall be 50Hz-300Hz ± 3dB.**
- **Power handling shall be 1000W AES, 4000W peak.**
- **Rated impedance shall be 8 ohms.**
- **Maximum SPL calculated at 1 metre on axis shall be 138dB continuous, 144dB peak.**
- **Dimensions (W) 592mm x (H) 852mm x (D) 852mm (W) 23.3ins x (H) 33.6ins x (D) 33.6ins.**
- **Weight 76kg (168lbs).**

The loudspeaker system shall be the Martin Audio AS118.