

ASI 18

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



architectural

The ASI 18 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 ASI 18 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 ASI 18 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 ASI 18 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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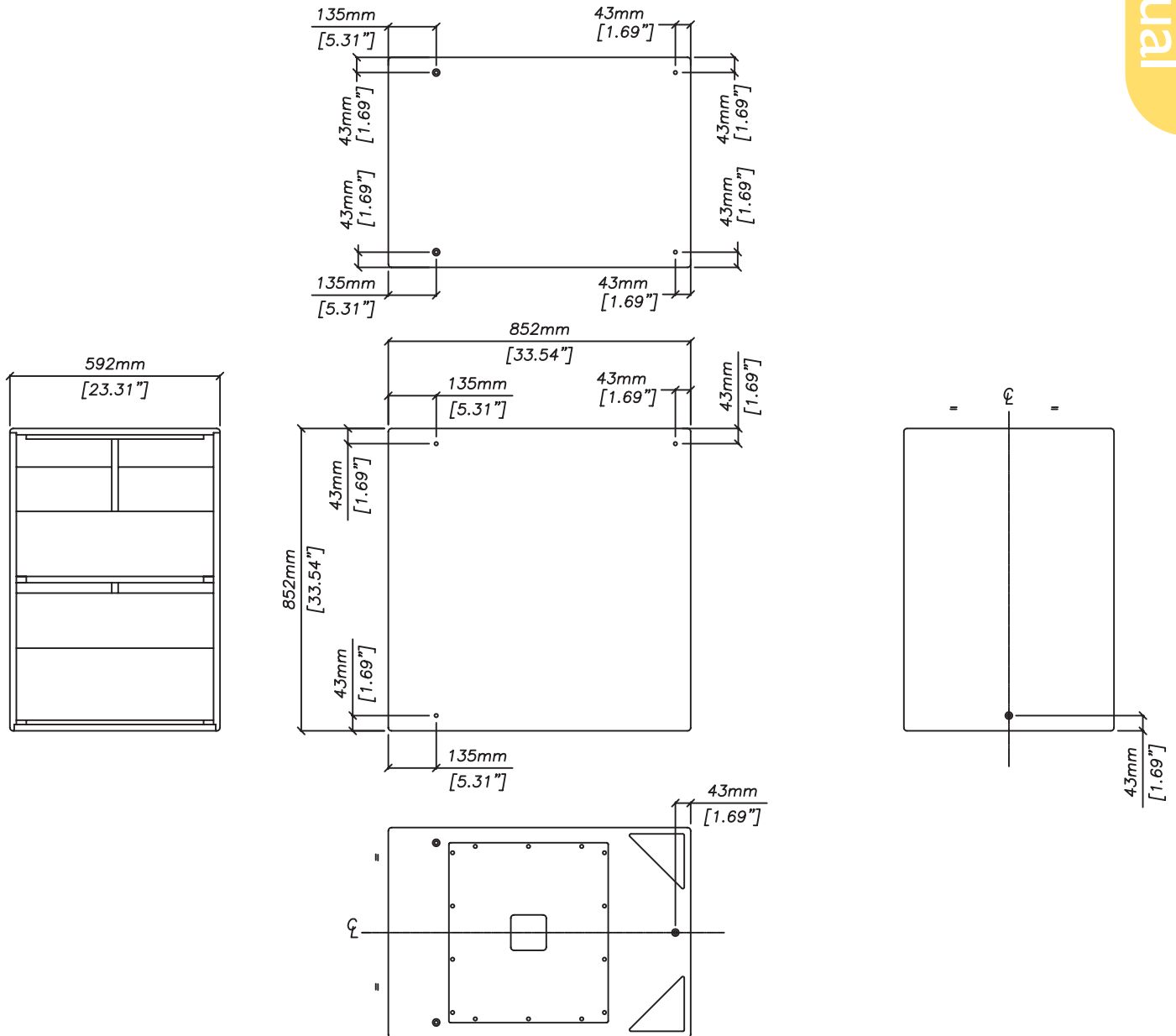


AS118

Hybrid® folded horn/reflex loaded bass system

overall dimensions

architectural



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technical specifications

TYPE	Hybrid® horn and reflex loaded bass enclosure
FREQUENCY RESPONSE (1)	50Hz-300Hz ± 3dB 30Hz @ -10dB
DRIVERS	18" (460mm) / 4" (100mm) coil long excursion bass driver
RATED POWER (2)	1000W AES, 4000W peak
SENSITIVITY (3)	108dB
MAXIMUM SPL (calculated)	138dB continuous, 144dB peak
NOMINAL IMPEDANCE	8 ohms
CROSSOVER	150Hz active (via DX1 controller)
CONSTRUCTION	Multi-laminate birch ply
FINISH	Textured high-density polyurethane coating applied externally and internally
PROTECTIVE GRILLE	18 gauge punched steel, heavy galvanised and powder-coated, with integral water barrier
CONNECTORS	3m flying lead
MOUNTING	14 x M10 inserts
DIMENSIONS	(W) 592mm x (H) 852mm x (D) 852mm (W) 23.3ins x (H) 33.6ins x (D) 33.6ins
WEIGHT	76kg (168lbs)
OPTIONS	

architectural and engineering specifications

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 (23.3ins x 33.6ins x 33.6ins).

Weight 76kg (168lbs).

The loudspeaker system shall be the Martin Audio ASI 18.

Notes

- (1) Measured on-axis in half space at 2 metres, then referred to 1 metre.
- (2) AES Standard ANSI S4.26-1984.
- (3) Measured in half space conditions at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (4) Measured in half space conditions at 2 metres using band limited pink noise, then referred to 1 metre.

Trade Descriptions Act

Due to Martin Audio's policy of continuing improvement, we reserve the right to alter these specifications without prior notice. Martin Audio is committed to refining state of the art sound reinforcement, combining in-depth product and field applications research with advanced manufacturing techniques. Every Martin Audio product is built to the highest manufacturing standards and rigorously tested to ensure that it meets the performance criteria specified in the design.

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