

W8CS

Compact horn loaded and ported sub-woofer

features

- ▶ Unique port assisted, folded horn design
- ▶ Ultra-low frequency and high efficiency
- ▶ Load certified MAN flying points
- ▶ Identical dimensions to W8C

applications

- ▶ Large scale theatre and live sound touring
- ▶ Suitable for flown or ground stacked use



touring and professional

Important technical advances at Martin have enabled the team to decrease size and improve performance for venues which require bass to be flown. Outperforming previous generations of speakers, the Wavefront W8CS is a stunning powerhouse of high efficiency horn-loaded bass in a compact flying enclosure to match the W8C. Its unique port assisted, folded-horn design combines high efficiency and characteristic bass impact with the LF extension of a reflex enclosure.

The W8CS can either be used as the sole source of low frequencies in a W8C system or may be used in conjunction with WSX ground stacked subwoofers in arena systems and flown as part of the main W8C array.

It features a very high power 800 watt 15" (380mm) driver with magnet structure and suspensions optimised for large linear excursion. The folded-horn loading results in an efficiency typically 5dB greater than direct radiator bass systems. In addition, output below the horn cut-off frequency is achieved by venting the drive unit chamber via a unique Linear Flow[®] port, which provides low frequency extension with reduced distortion and air-noise.

The dimensions of the W8CS are identical to the W8C allowing it to be flown with the same rigging arrangements. The enclosure is constructed from multi-laminate birch plywood and is fully equipped for touring with rear castors, top and bottom flip handles and pocket handles on the cabinet sides. It is fitted with two load certified MAN flying points which link between cabinets to provide a fast and secure means of assembling an array.

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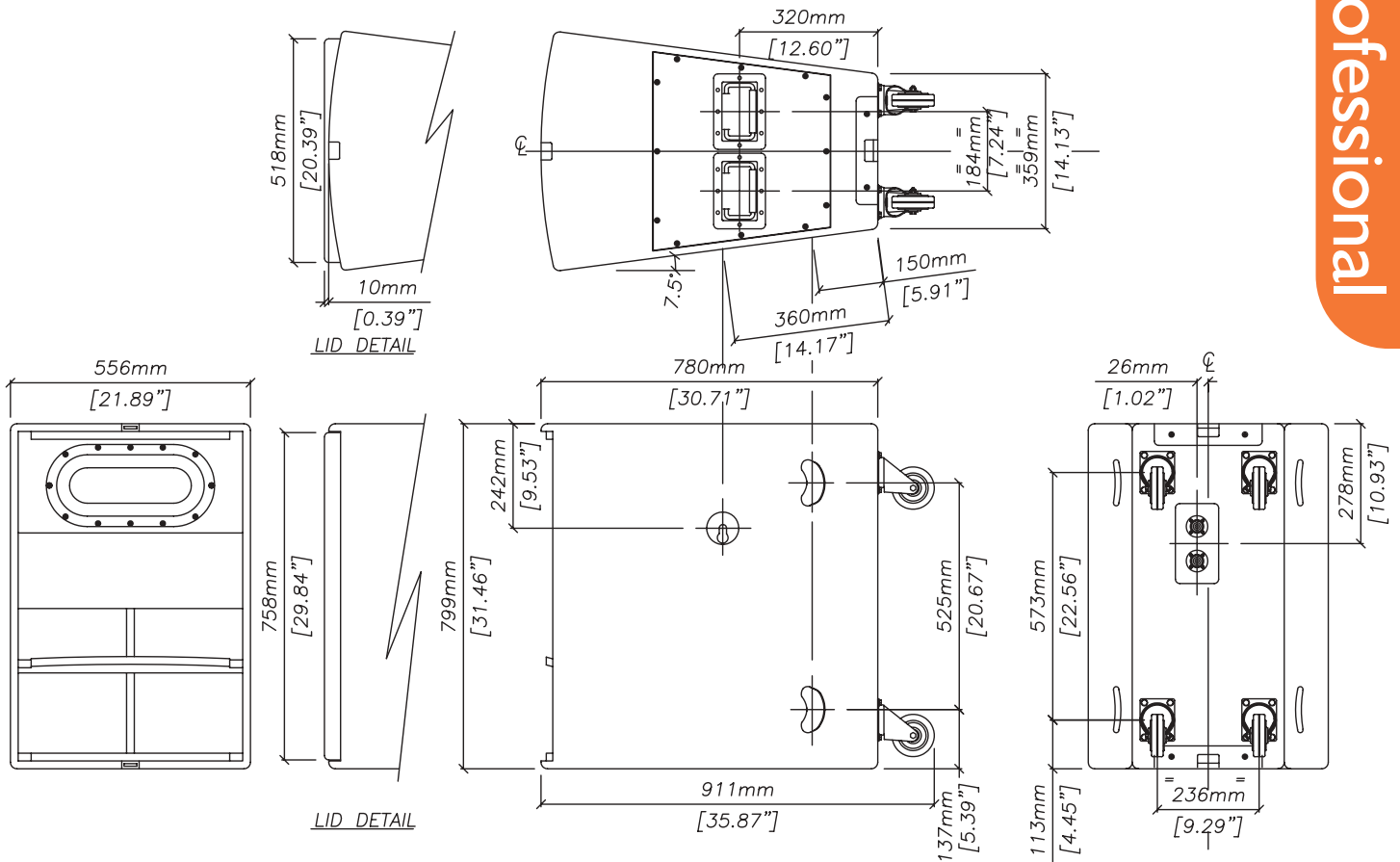


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overall dimensions

touring and professional



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touring and professional

technical specifications

TYPE	Compact folded bass horn, port assisted
FREQUENCY RESPONSE (1)	45Hz-200Hz \pm 3dB 35Hz @ -10dB
DRIVERS	15" (380mm) long excursion
RATED POWER (2)	800W AES, 3200 peak
RECOMMENDED AMPLIFIER	700-1200W into 4 ohms
SENSITIVITY (3)	105dB
MAXIMUM SPL (4)	132dB continuous, 138dB peak
NOMINAL IMPEDANCE	8 ohms
FINISH	Textured grey paint
PROTECTIVE GRILLE	Grey perforated steel
CONNECTORS	2 x Neutrik NL8
FITTINGS	2 x MAN Flying points
DIMENSIONS (inc. wheels)	(W) 556mm x (H) 799mm x (D) 780mm (911mm) (W) 21.9ins x (H) 31.5ins x (D) 30.7ins (35.9ins)
WEIGHT	61kg (134lbs)

accessories

W8FKIT	Flying chain assembly
HTKQF8	Quick release flying stud / D-ring
HTKHIS	Heavyweight install stud
HTKW8HingeKit	Complete hinge kit

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.

architectural and engineering specifications

The loudspeaker system shall be of the compact folded bass horn type consisting of one 15" (380mm) cone transducer horn loaded and port assisted in a trapezoidal plywood enclosure. The loudspeaker shall be operated with a separate electronic controller for dedicated sub-bass use.

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 45Hz-200Hz \pm 3dB.

Power handling shall be 800W AES, 3200W peak.

Rated impedance shall be 8 ohms.

Maximum SPL measured at 1 metre on axis shall be 132dB continuous, 138dB peak.

Dimensions (W) 556mm x (H) 799mm x (D) 911mm (21.9ins x 31.5ins x 35.9ins).

Weight 61kg (134lbs).

The loudspeaker system shall be the Martin Audio W8CS.

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