SPRS-A-06W-30-EN54 & SPRS-A-06W-30-EN54-DC

- Wall Loudspeaker
- 6W 100V
- Size 3.0” (77mm)
- Surface or recess mount
- Ingress protected to IP54
- Full range sound quality
- Option with DC capacitor fitted
- Certified to EN 54-24

OVERVIEW

The SPRS-A-06W-30-EN54 is a 6W 100V wall mounted loudspeaker which has a 3.0” (77mm) full-range chassis providing rull range sound quality with speech and background music, and which is certified to EN 54-24. The speaker is supplied with a 100V transformer which has three power adjustment tappings of 6W, 3W and 1.5W.

The SPRS-A-06W-30-EN54 has a UL94-V0 rated and shock-resistant high density ABS housing which provides low-distortion sound. The speaker enclosure is ingress protection rated to IP54, with a rubber gasket in the rear plate. For additional reliability, the speaker chassis features vibration-damping construction.

Mounting of the speaker can be either recessed or surface mounted on a wall or ceiling using the screw holes provided at the rear. The enclosure front attaches to the rear mounting panel by screws, which are protected by four sealing plugs once installed.

Cable entry is provided by removing the knock-outs located at the rear or at the side (or top) of the loudspeaker, as required by the preferred mounting orientation. To preserve the IP rating, PG11 cable glands or suitable 20mm diameter grommets (not supplied) must be used for side (or top) cable entry. The 100V loudspeaker line cabling is connected via a four-pin ceramic block.

As standard, the loudspeaker is supplied in RAL 9016 (Traffic White). However, other colours are available to any four-digit RAL or NCS reference as a special order.

The loudspeaker is optionally available with a DC blocking capacitor fitted, in order to provide compatibility with DC loudspeaker line monitoring systems. The part number for this DC monitoring compatible version is SPRS-A-06W-30-EN54-DC.

Enhanced Acoustic Simulator for Engineers (EASE) data for this loudspeaker is available on request.

TECHNICAL DATA

Power Tappings	6W / 3W / 1.5W
Impedance (100V)	1667 / 3333 / 6667 Ohms
DC Capacitor (SPRS-A-06W-30-EN54-DC Version only)	4,7 µF 250 VDC
Frequency Range	125 - 21,000 Hz
Frequency Response	112 - 24,000 Hz
SPL 1W / 1m, peak	90,8 dB
SPL IEC 60268-5, 1W/1m	84,9 dB
SPL IEC 60268-5, Pmax/1m	92,5 dB
SPL EN 54-24, Pmax/4m	80,5 dB
Sensitivity EN 54-24, 1W / 4m	72,9 dB
Dispersion (-6dB, 500Hz) Horizontal / Vertical Plane*	360° (horizontal) / 360° (vertical)
Dispersion (-6dB, 1KHz) Horizontal / Vertical Plane*	210° (horizontal) / 210° (vertical)
Dispersion (-6dB, 2KHz) Horizontal / Vertical Plane*	130° (horizontal) / 130° (vertical)
Dispersion (-6dB, 4KHz) Horizontal / Vertical Plane*	110° (horizontal) / 110° (vertical)
Temperature range	-25 / +70 °C
Dimensions	133 x 133 x 72 mm
IP Rating	IP54
Weight (net)	0.70 kg
Colour	RAL9016
Connector	4-pin ceramic block
Mounting	Screws
Maximum Cable Passage	8mm²
Compliance	EN 54-24

*** EN 54-24 Definitions for Speaker Reference Axis, Point, Plane + Horizontal & Vertical Planes:**

- Reference Axis: Axis is through the centre of the speaker grille surface and is perpendicular to the grille surface.
- Reference Plane: Plane is across the front of the speaker grille surface and is perpendicular to the reference axis.
- Horizontal Plane: Plane contains the reference axis and is perpendicular to the reference plane.
- Vertical Plane: Plane contains the reference axis and is perpendicular to the reference plane.
- Reference Point: Point is at the centre of the front of the speaker grille surface where all the above intersect.

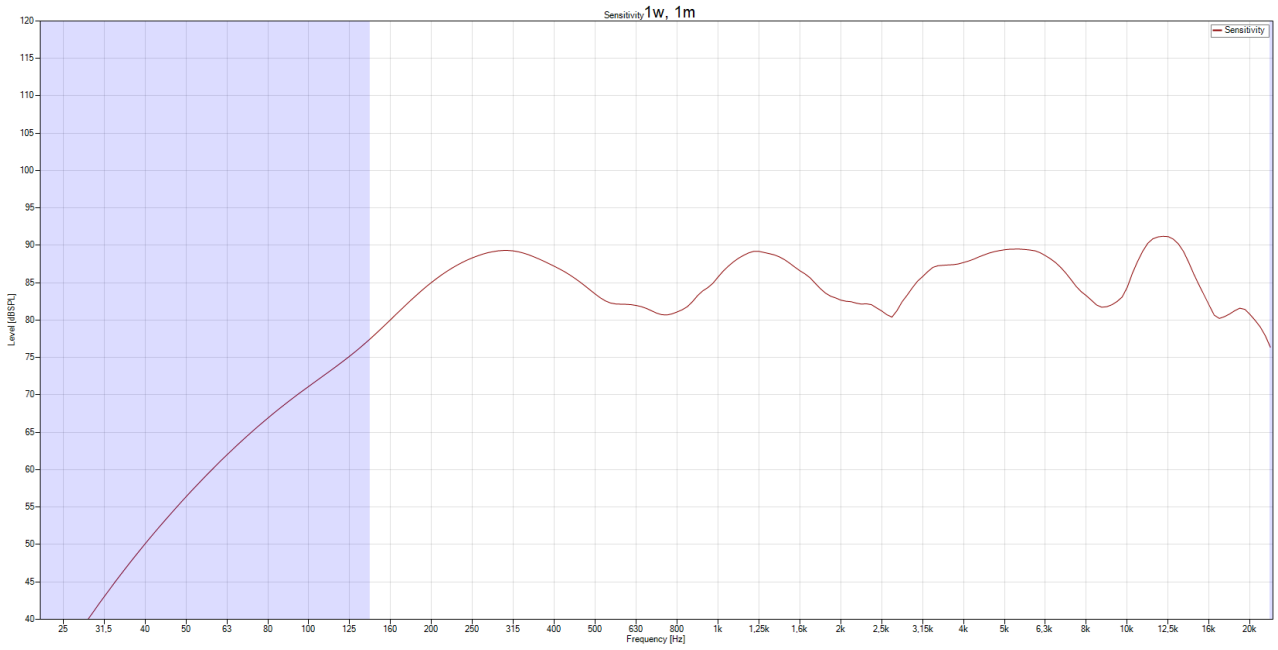
All measurements in the table above relate to the Reference Axis unless otherwise stated

EN 54-24 Annex A, Measurement Environments:

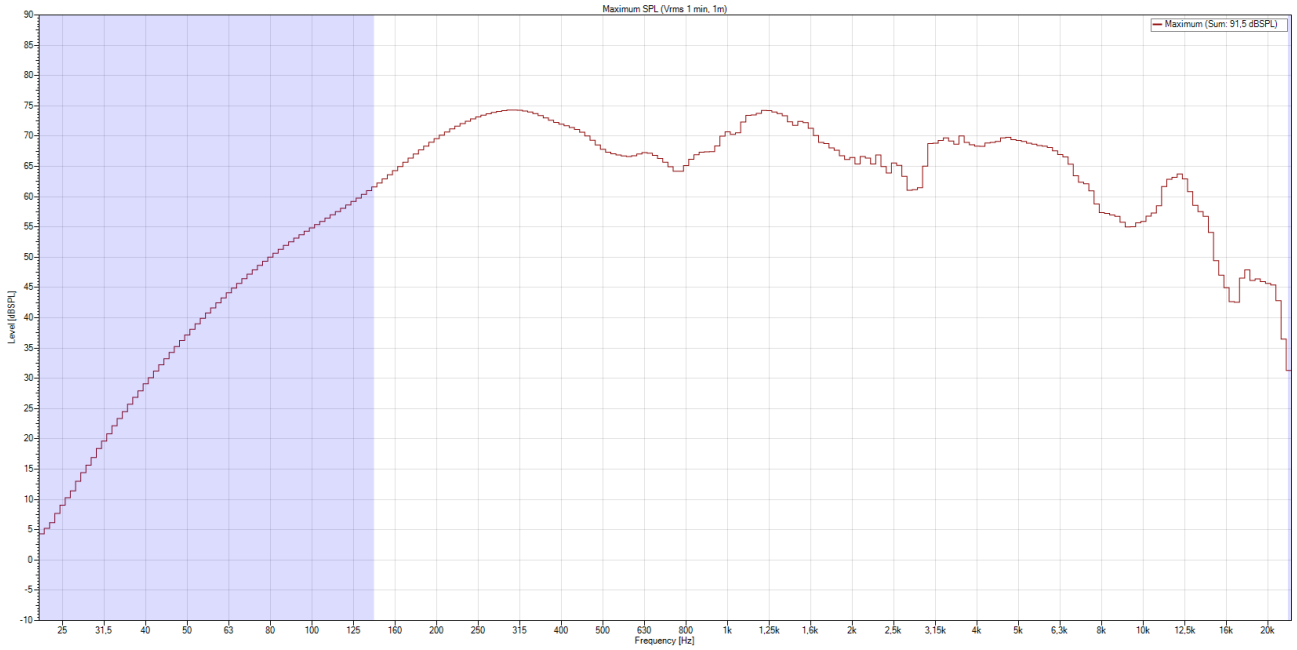
Flush-mounted loudspeakers e.g. ceiling loudspeakers, shall be measured under half-space free field conditions.

All other speakers shall be measured under free-field conditions or in a ground plane arrangement that simulates a free-field condition.

FREQUENCY RESPONSE DIAGRAM—SENSITIVITY 1W / 1m

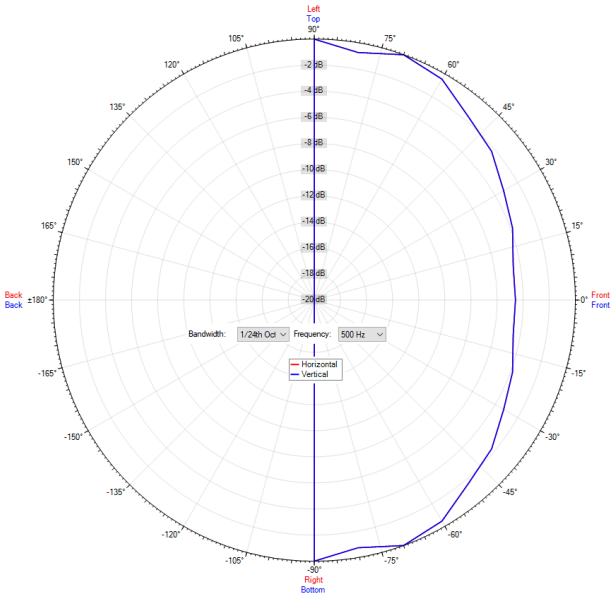


FREQUENCY RESPONSE DIAGRAM—MAXIMUM SPL (Vrms 1 min, 1m)

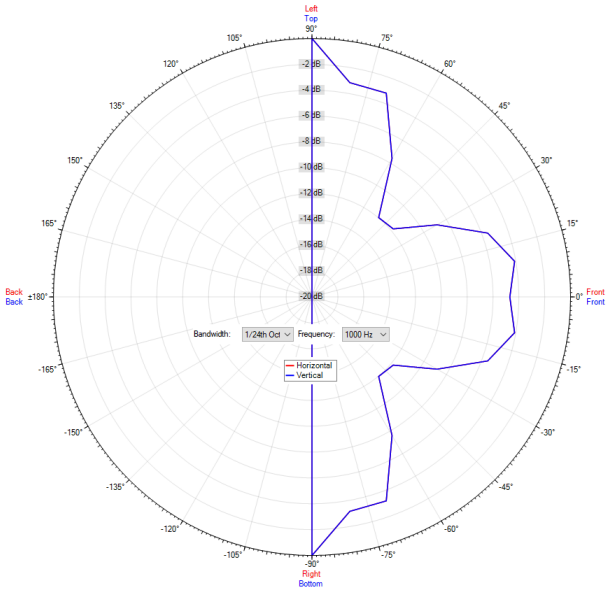


POLAR DIAGRAMS

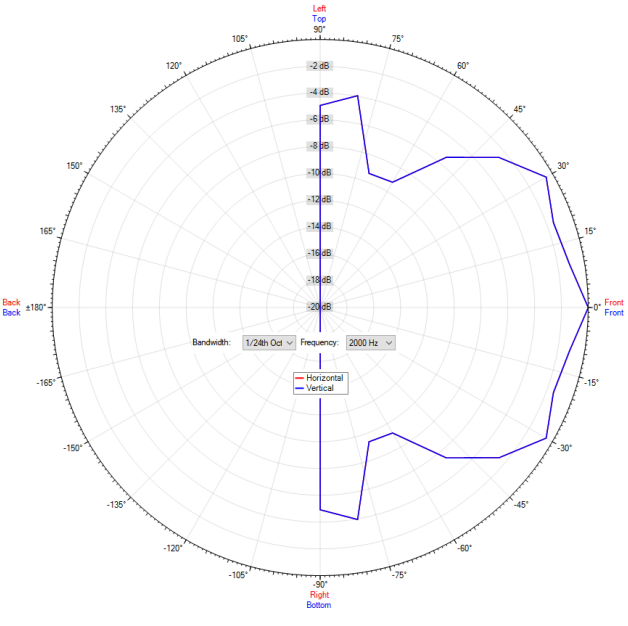
500 Hz



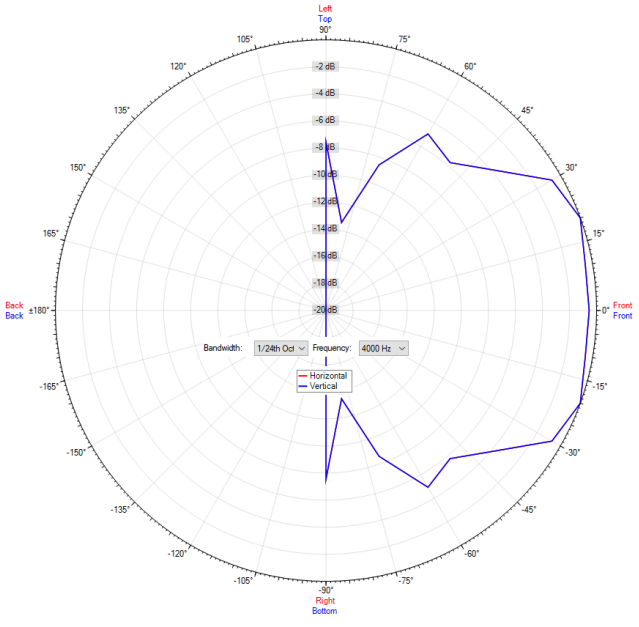
1,000 Hz



2,000 Hz

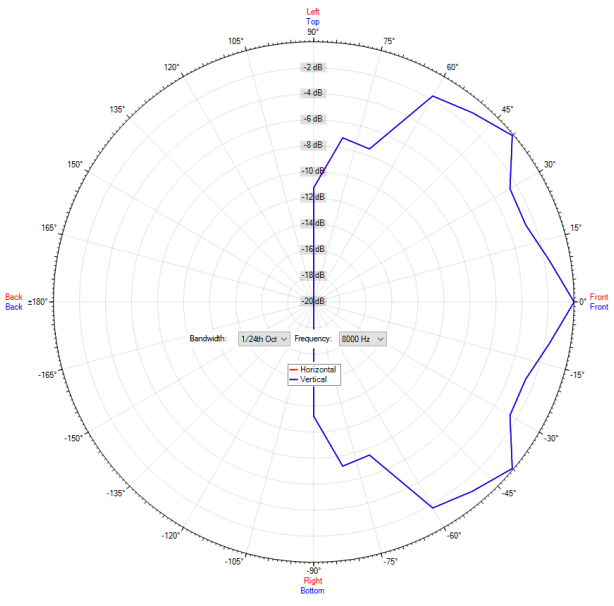


4,000 Hz

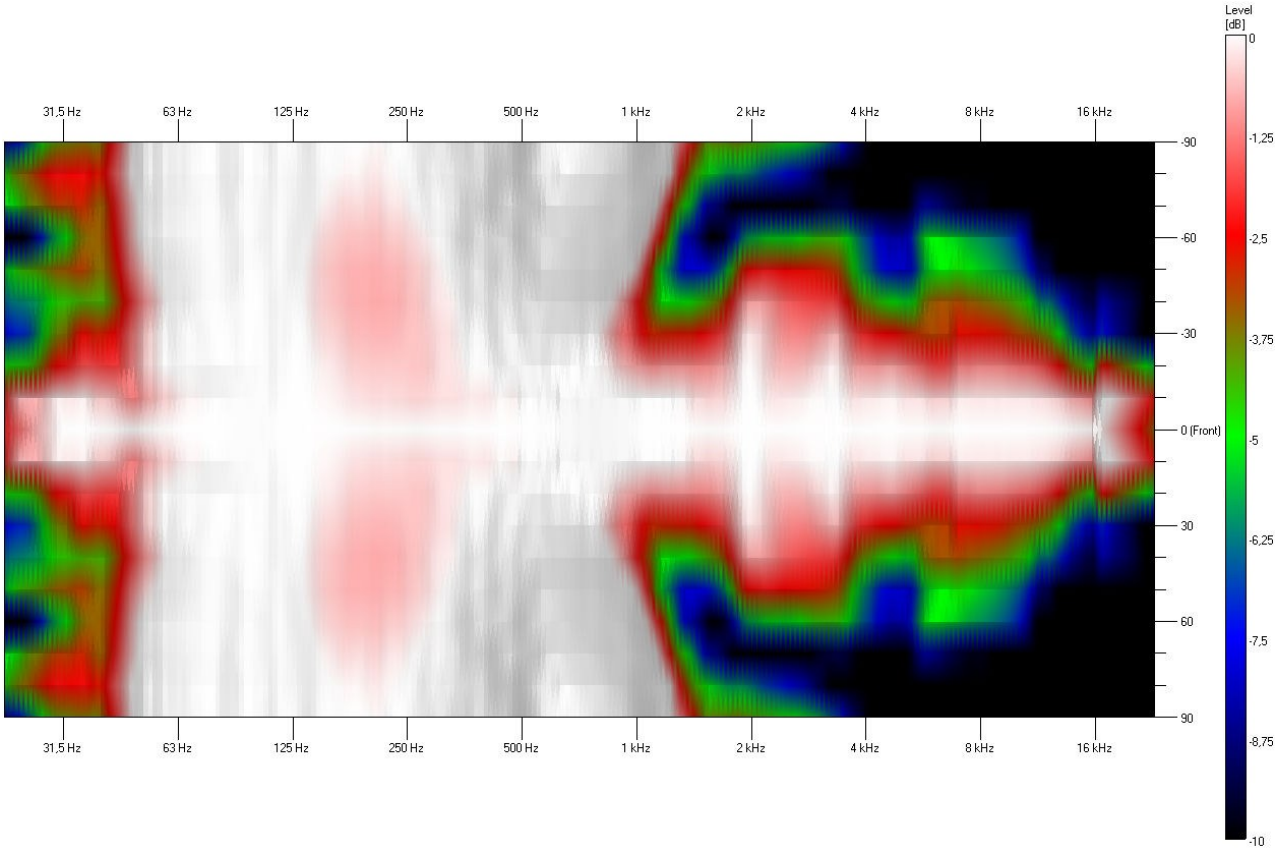


POLAR DIAGRAMS

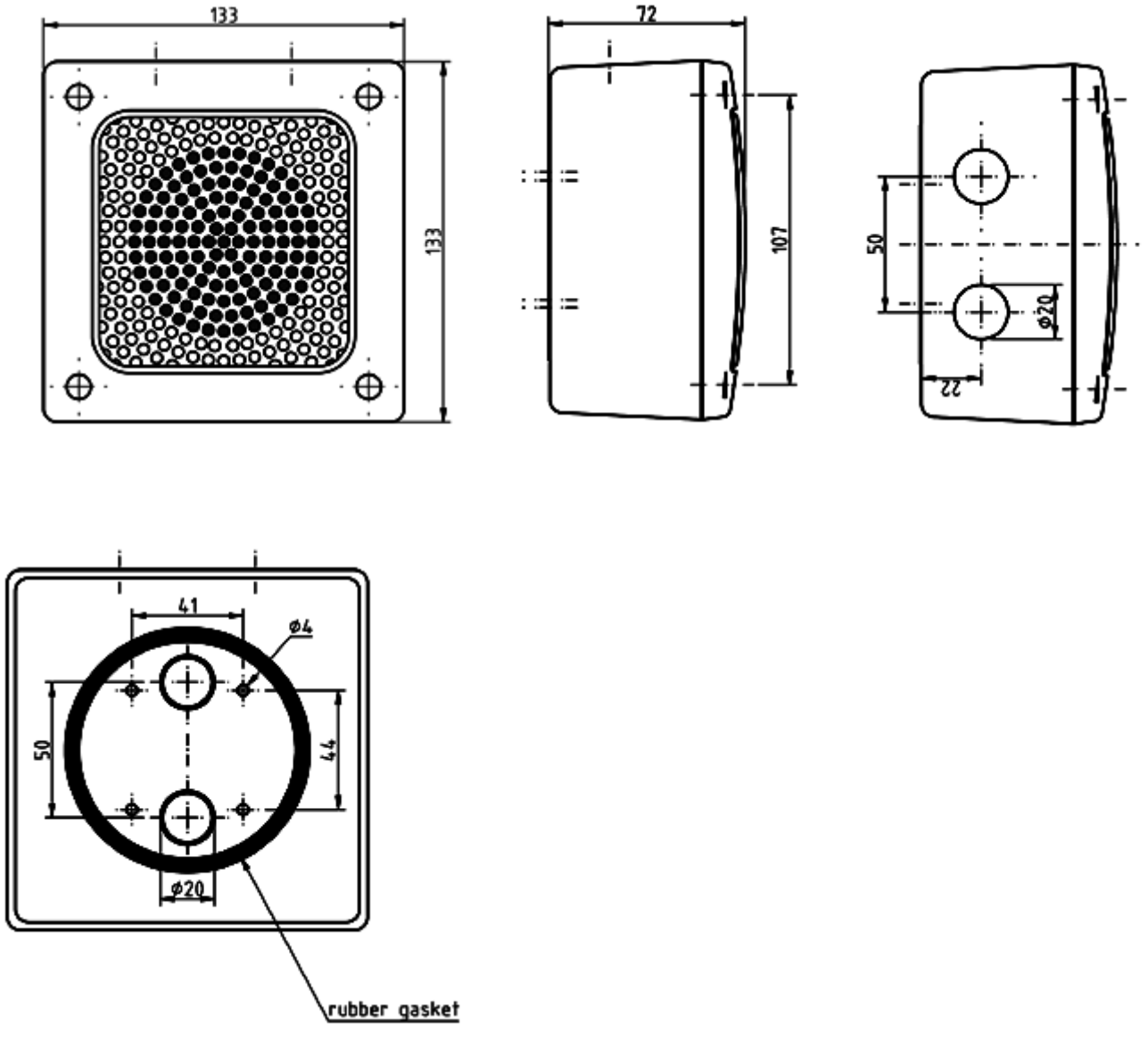
8,000 Hz



ISOBAR



DIMENSIONAL DIAGRAM



This equipment is designed and manufactured to conform to the following EU Directives:

CE

Low Voltage: 2014/35/EU
Restriction of Hazardous Substances (RoHS): 2011/65/EU & 2015/863/EU

Made for:

Zenitel GB Limited

Unit 17 - Cliffe Industrial Estate - Lewes - East Sussex - BN8 6JL - U.K.

www.zenitel.com

Version 3 ASL_Datasheet_SPRS-A-06W-30-EN54