

EN54 ECONOMY CEILING SPEAKER

- 6W 100V LOUDSPEAKER
- SIZE 5" (130MM)
- QUICK MOUNT
- SHOCK-RESISTANT HOUSING
- HIGH EFFICIENCY
- EXCELLENT SOUND QUALITY
- FULLY CERTIFIED TO EN 54-24



OVERVIEW

The SPCF-E-06W-50-EN54 is a 6W 100V flush mount ceiling loudspeaker, which has a 5" (130mm) full-range chassis providing excellent sound quality with speech and background music, and which is certified to EN5 4-24. The speaker is fitted with a 100V transformer which has three power adjustment tapings of 6W, 3W, and 1.5W.

The SPCF-E-06W-50-EN54 has a powder coated metal chassis and grille, with the high quality powder coated finish giving good long-term protection and resistance to corrosion. A protective plastic dome covers the rear of the loudspeaker, and prevents dirt, dust and other debris or foreign objects from contacting the cone or any other part of the loudspeaker rear. The speaker's enclosure is ingress protection rated to IP21C.

As standard the speaker is coloured to match RAL9016 'Traffic White', however the speakers can be supplied in any four-digit RAL or NCS colour, as a special order.

Quick and easy ceiling mounting is provided through the use of spring clamps, with a possible ceiling thickness of between 3mm and 45mm. The flat construction method allows a low mounting depth of only 70mm.

Please note that although very thin ceilings can be used as a mounting surface, it should be ensured that the ceiling thickness and strength are appropriate to the weight of the speaker, and to the thickness and weight of the 100V line cables.

There is a metal Firedome available for this loudspeaker as an optional accessory, part number SPAC-FD-E-50, which can be used in place of the speaker's rear plastic dome cover to provide additional resilience to fire.

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

PRODUCT ATTRIBUTES

Power Tappings	6W / 3W / 1.5W
Impedance (100V)	1667 / 3333 / 6667 Ohms
Loudspeaker Impedance	8 Ohms
Frequency Range	104 – 17,200 Hz
Frequency Response	57 – 24,000 Hz
SPL 1W / 1m, peak	98.3 dB
SPL 1W / 4m, peak	86.3 dB
SPL Pmax / 4m, peak	94.0 dB
SPL, EN 54-24 rated noise power / 4m	85.0 dB
Sensitivity EN 54-24, 1W / 4m	74.8 dB (plastic enclosure) / 74.2 dB (metal Firedome)
Sensitivity IEC 60268-5, 1W / 1m	86.8 dB
Dispersion (-6dB, 500Hz) Horizontal / Vertical Plane*	180° / 180° (plastic enclosure or metal Firedome)
Dispersion (-6dB, 1KHz) Horizontal / Vertical Plane*	180° / 180° (plastic enclosure or metal Firedome)
Dispersion (-6dB, 2KHz) Horizontal / Vertical Plane*	140° / 140° (plastic enclosure or metal Firedome)
Dispersion (-6dB, 4KHz) Horizontal / Vertical Plane*	85° / 85° (plastic enclosure) / 84° / 84° (metal Firedome)
Temperature Range	-10 / +55 °C
Dimensions	181.5 x 65 mm (plastic enclosure)
	181.5 x 91.5 mm (metal Firedome)
Weight (net)	0.50 kg (Metal Firedome adds 0.19 kg max.)
Colour	RAL 9016 'Traffic White'
Mounting	Spring clamp
Connector	4-pin screw terminal
Ceiling Cut-out	156 mm
Maximum cable cross section	4.9 mm ²
Maximum cable cross section loop	2 x 1.2 mm ²
EN 54-24 Speaker Type & Minimum IP Rating	Type A (Indoors), minimum IP rating IP21
Packing Unit	12

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

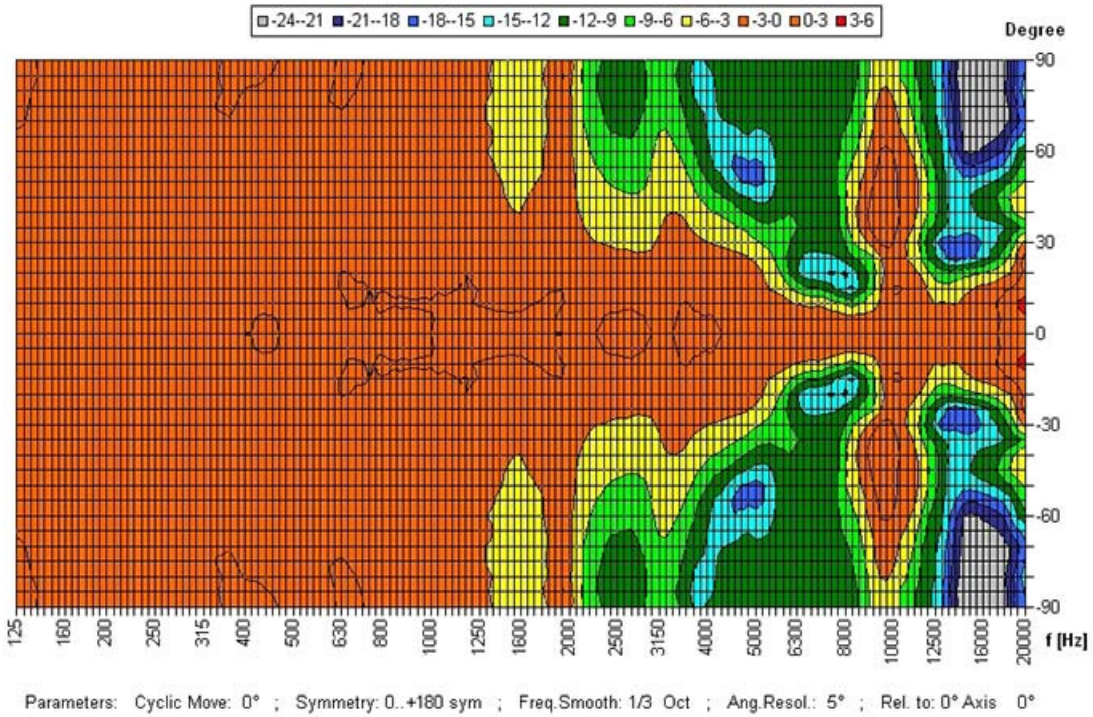
- Reference Axis: Axis is through the centre of the speaker grille surface and is perpendicular to the grille surface.
- Reference Plane: Plane is across the front of the speaker grille surface and is perpendicular to the reference axis.
- Horizontal Plane: Plane contains the reference axis and is perpendicular 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

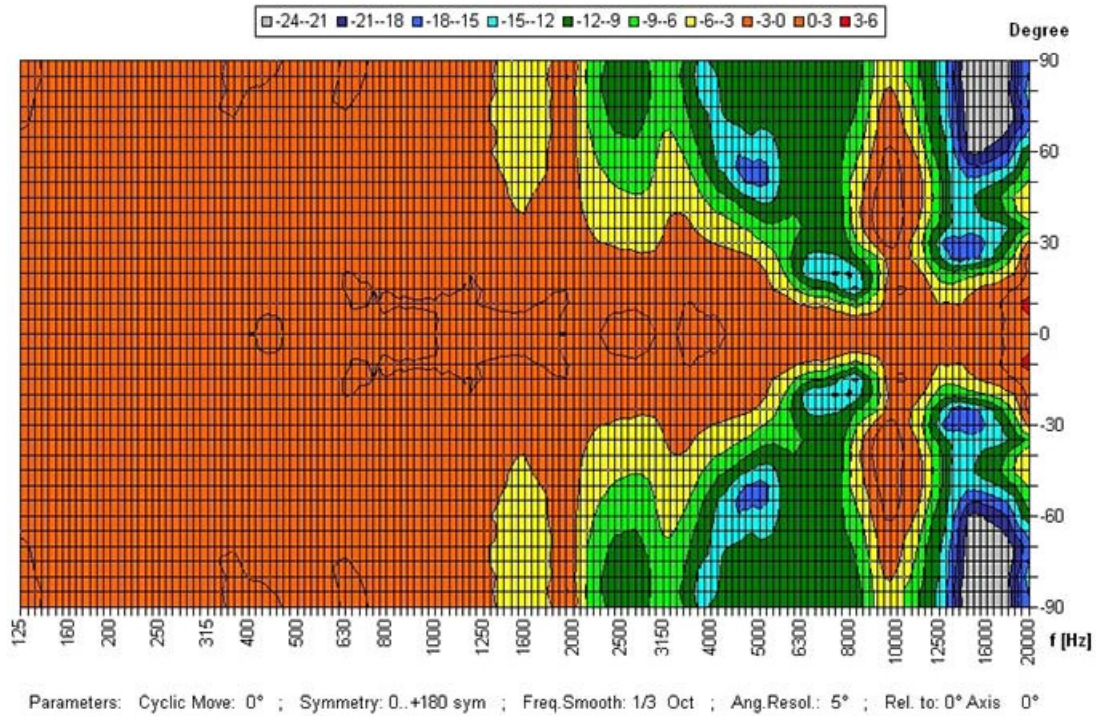
EN 54-24 Annex A, Measurement Environments:

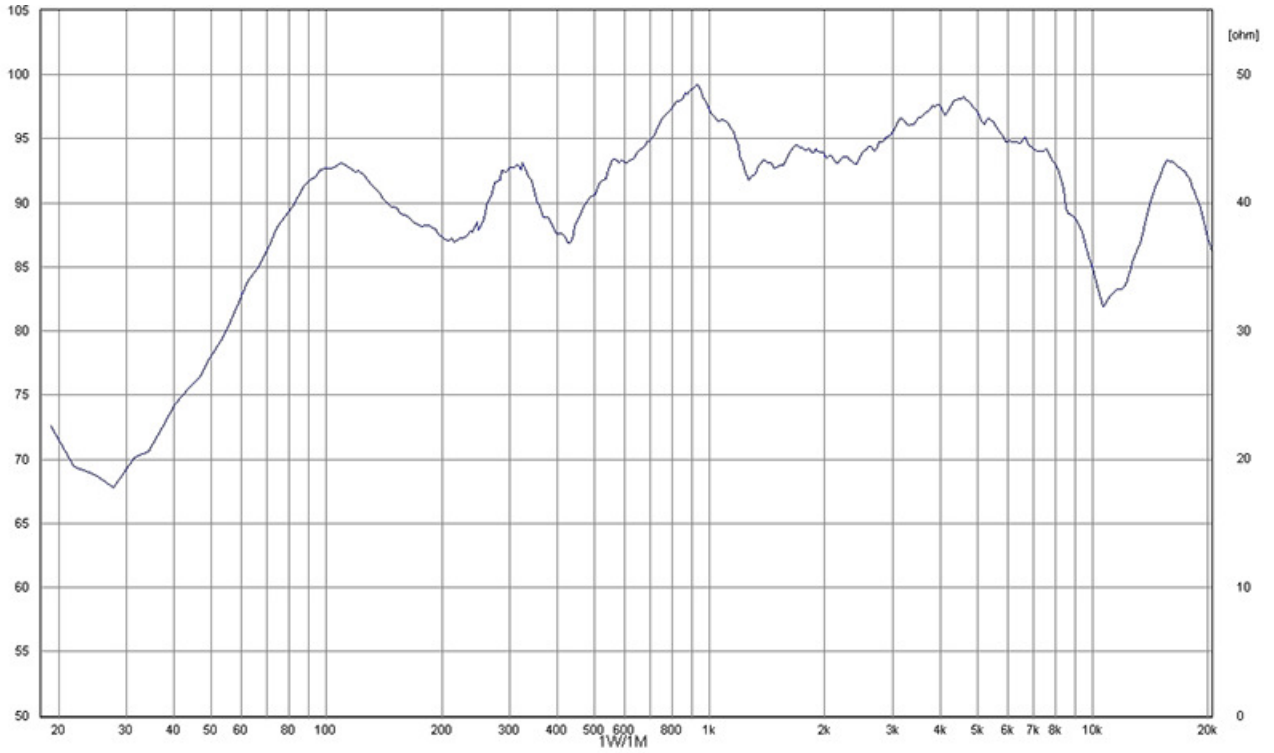
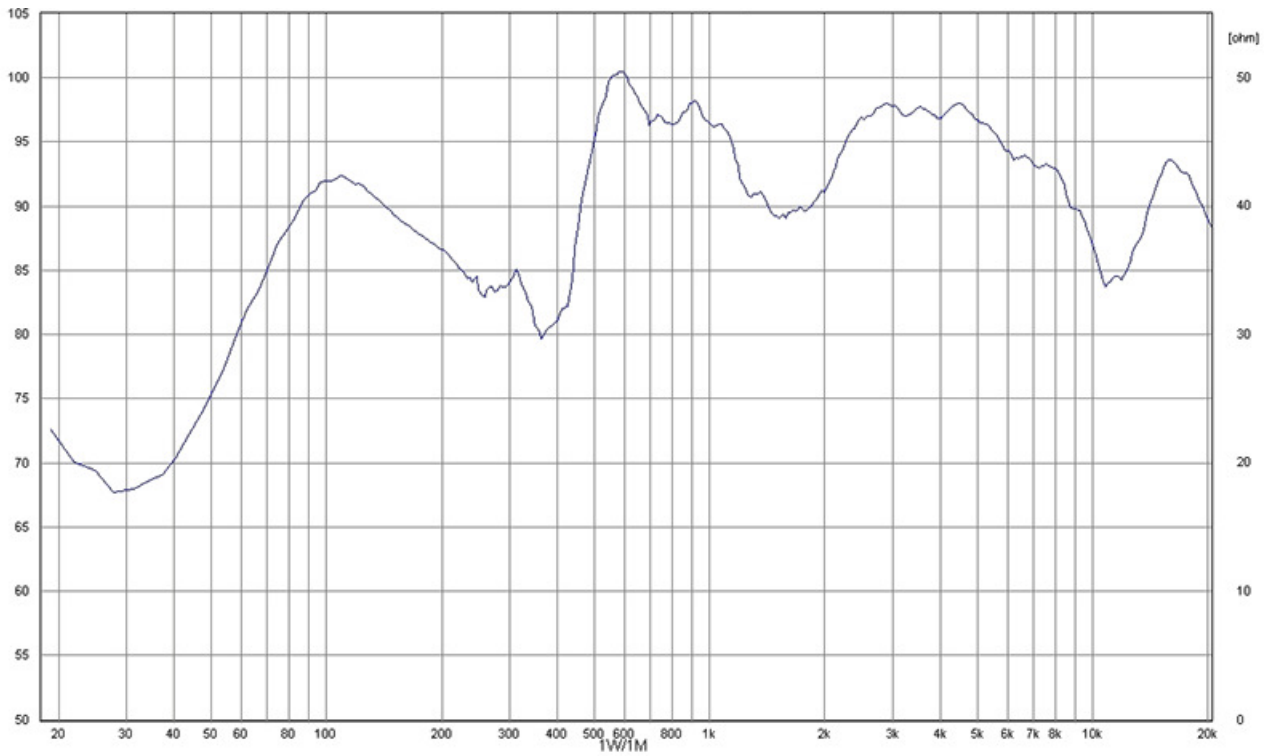
Flush-mounted loudspeakers e.g. ceiling loudspeakers, shall be measured under half-space free field conditions.
All other speakers shall be measured under free-field conditions or in a ground plane arrangement that simulates a free-field condition.

POLAR DIAGRAM — STANDARD



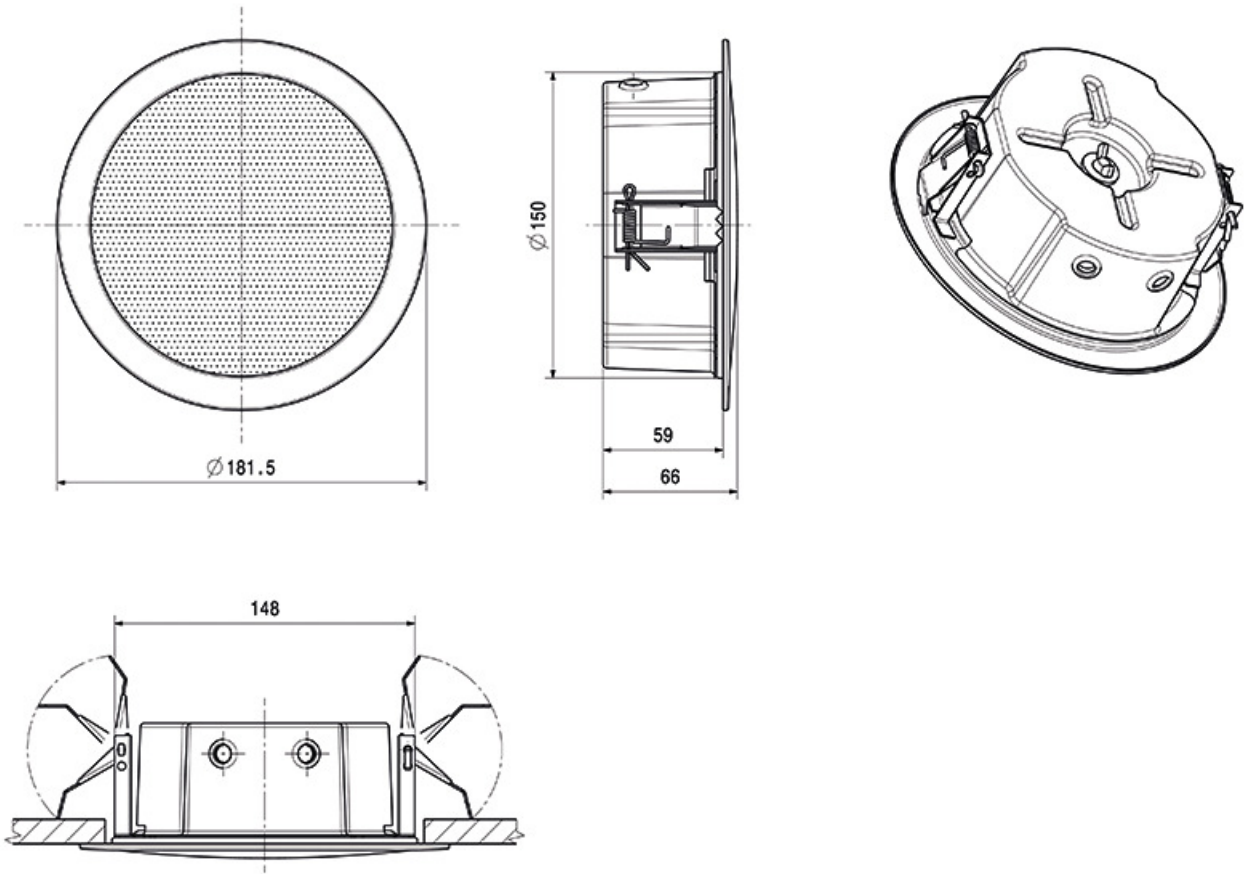
POLAR DIAGRAM — WITH SPAC-FD-E-50 FIRE DOME



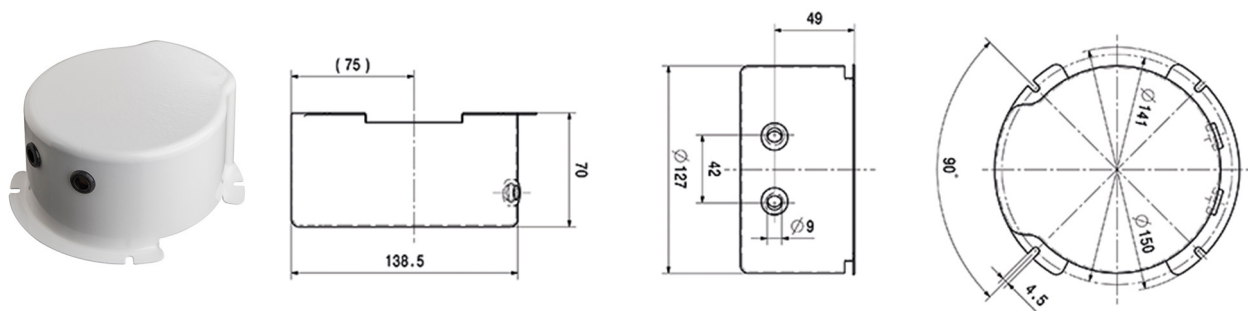
FREQUENCY RESPONSE DIAGRAM — STANDARD

FREQUENCY RESPONSE DIAGRAM — WITH SPAC-FD-E-50 FIRE DOME


DIMENSIONAL DIAGRAMS

SPCF-E-06W-50-EN54 Speaker



Optional Accessory: SPAC-FD-E-50 Metal Fire dome



This equipment is designed and manufactured to conform to the following EU Directives:
 Electromagnetic Compatibility (EMC): 2014/30/EU
 Low Voltage: 2014/35/EU
 Restriction of Hazardous Substances (RoHS): 2011/65/EU & 2015/863/EU

Made for:

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Assessed to ISO 9001
LPCB Cert No: C1043