

## IC6CLASS-54

IN CEILING/IN-WALL LOUDSPEAKERS

EN54-24 Certified In-ceiling / In-wall Loudspeaker



### PRODUCT OVERVIEW

IC6CLASS-54 is a low and high impedance 2-way loudspeaker which features a design in accordance with EN54-24 standard (Fire detection and fire alarm systems, Voice alarms - Loudspeakers), including a fire rated back can, ceramic connection terminals, thermal fuse and Internal FR wiring. It integrates a very careful and efficient selection of components (6" woofer + 1" tweeter), together with a mechanical design that provide a high quality audio ("Hi-Fidelity" profile sound) and a very fast installation process, just using a basic set of tools.

### KEY FEATURES

- EN54-24 certified
- 2-ways in-ceiling/in-wall loudspeaker
- High impedance built-in transformer, allowing for 70V / 100V line applications (5 different power tapings available)
- Low/high impedance power selection accessible from the front panel, once the loudspeaker is already installed in the ceiling
- 6,5" Kevlar® woofer
- 1" Silk dome (ACCW) tweeter
- Aluminium front grill
- Fire rated back can
- Ceramic connection terminals
- Thermal fuse
- Internal fireproof wiring
- Fast installation procedure using a basic set of tools

### APPLICATIONS

- EN54-24 standard compliance
- Corporate and residential buildings
- Commercial premises, retail shops
- Leisure centres
- Sound reinforcement in clubs, bars, etc.
- Health and sports centres
- Meeting and conference rooms
- 5.1 and 7.1 surround systems
- Auditoriums, museums

### CERTIFICATIONS

- EN54-24

TECHNICAL SPECIFICATIONS

IC6CLASS-54	
Nominal impedance	12Ω
RMS power	30W
Power options	100V: 30W / 20W / 15W / 7,5W / 3W / 12 Ω 70V: 15W / 10W / 7,5W / 3,7W / 1,5W / 12 Ω
Sensitivity 1W/1m	84dB
Max SPL	99dB
External diameter	270 mm / 10.63"
Internal diameter	224,5 mm / 8.84"
Recommended cut out diameter	227 mm / 8,93"
Required depth	175 mm / 6,89"
Weight	3,1 kg. / 6,83 lb.

NOTE: impedance and power values indicated in this document are exposed according the EN54 standard. However, IC6CLASS-54 can be considered as a **16 Ω and 75WRMS** loudspeaker in use when connected to low impedance lines.

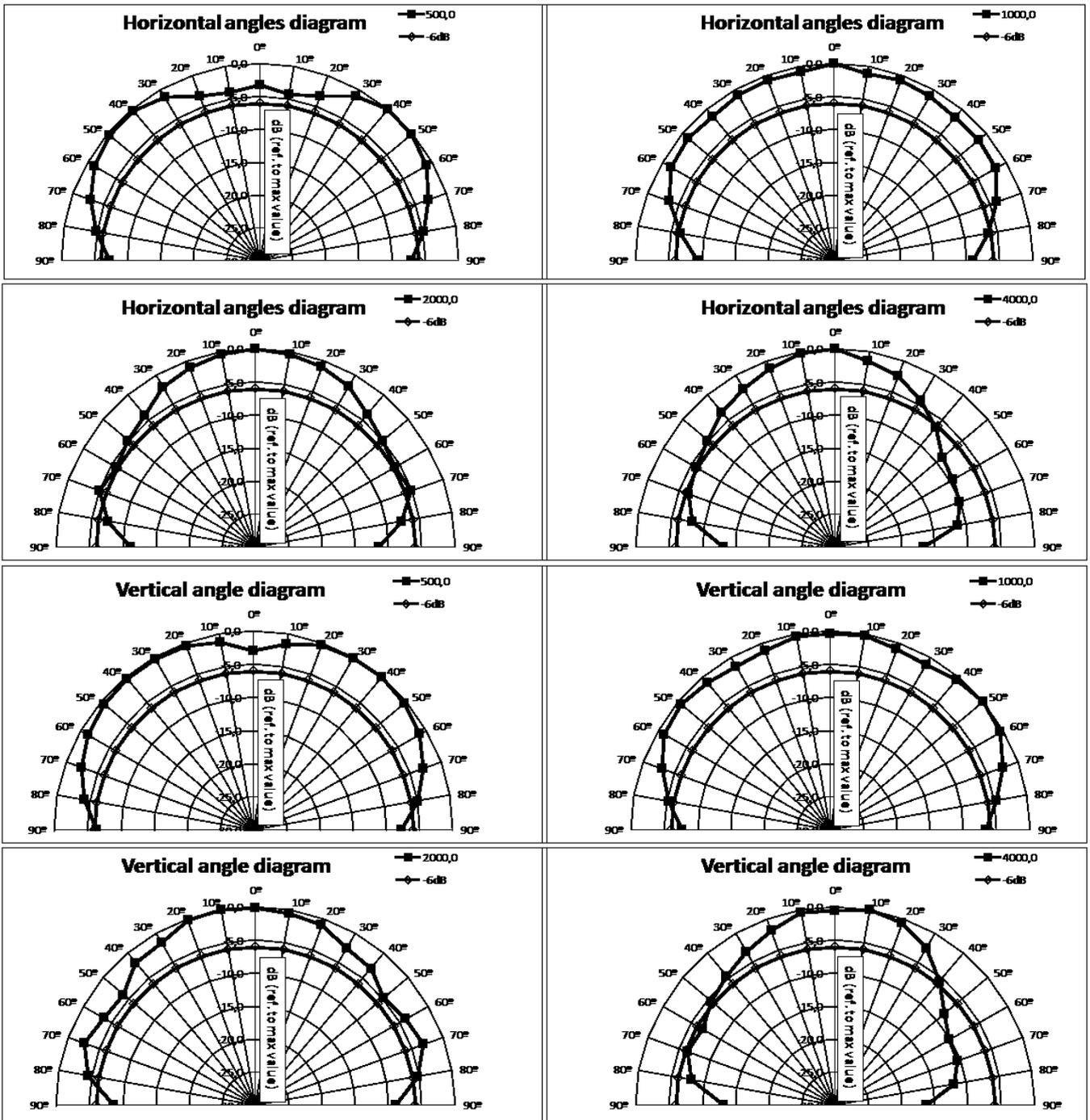
COVERAGE ANGLES

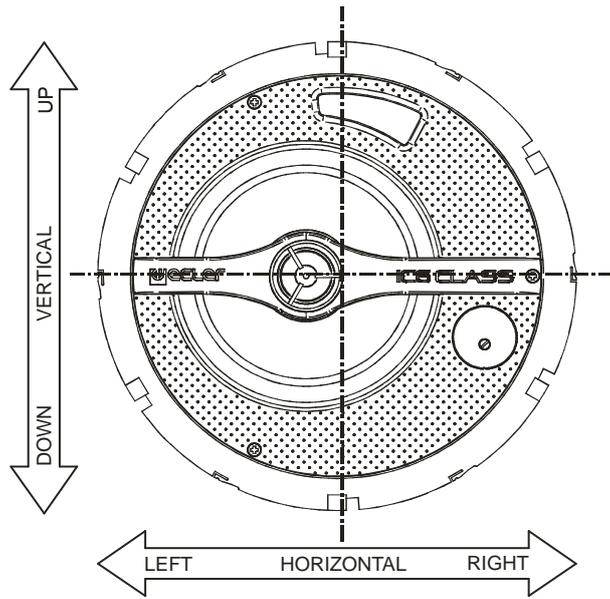
Coverage angles (max. angle that shows less than 6dB loss from maximum radiation direction):

Freq (Hz)	Up	Down
500	80°	80°
1000	80°	80°
2000	80°	80°
4000	40°	50°

Freq (Hz)	Left	Right
500	80°	80°
1000	70°	70°
2000	70°	70°
4000	60°	60°

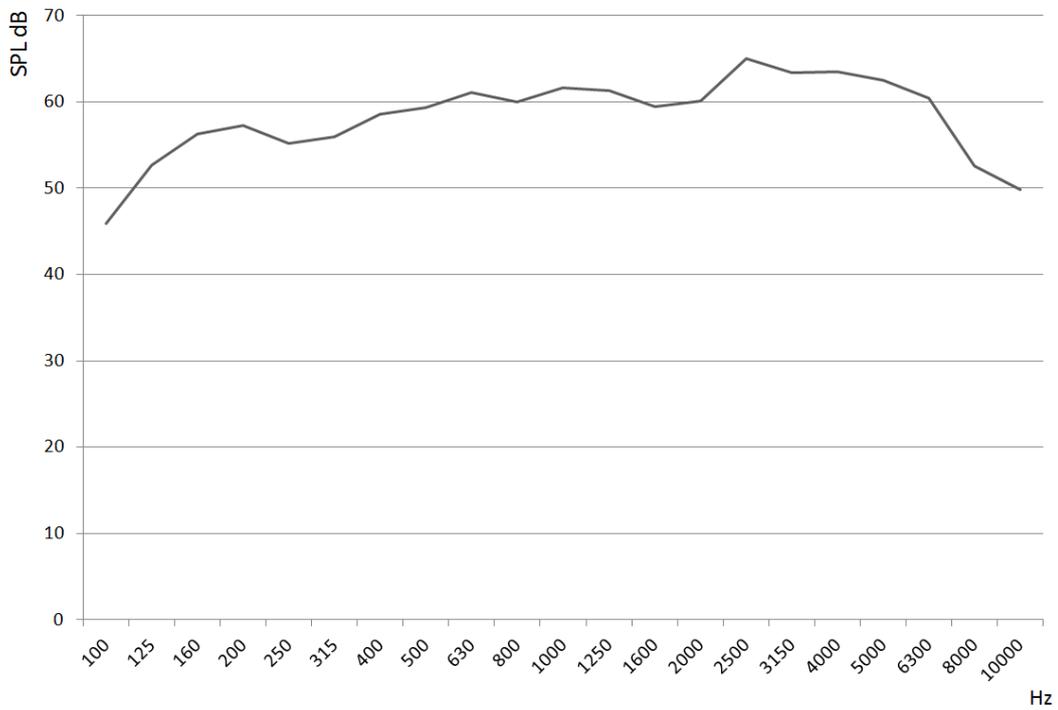
COVERAGE DIAGRAMS

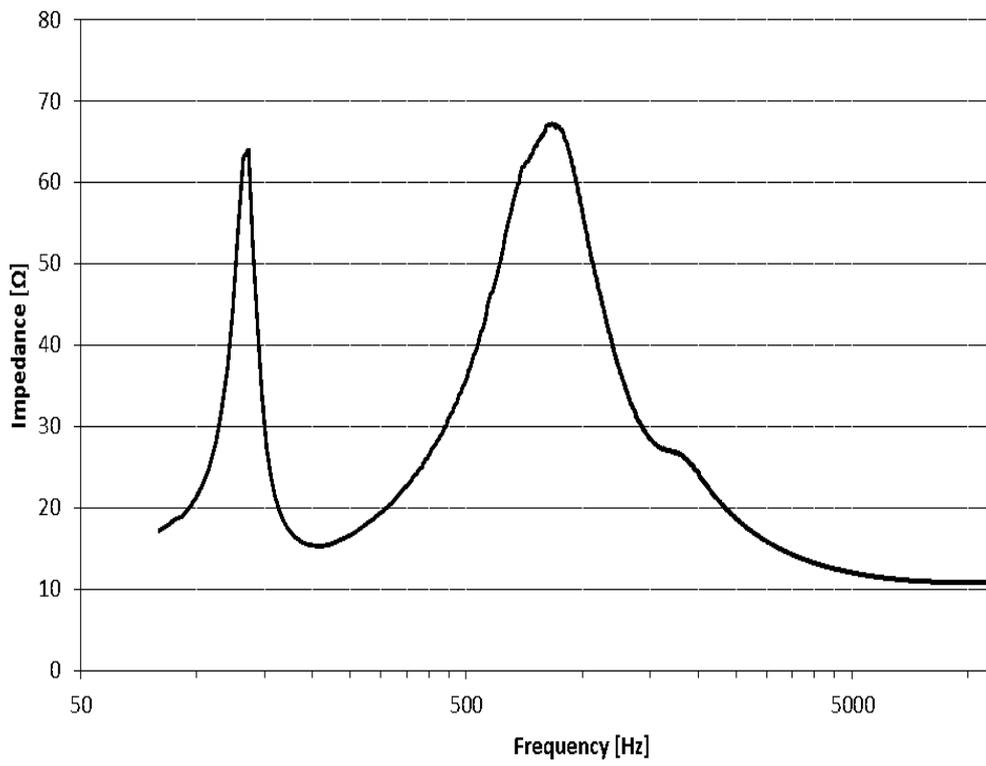




Note: Audio specs in free field conditions, with sample mounted on a standard baffle made of acoustically reflective surface

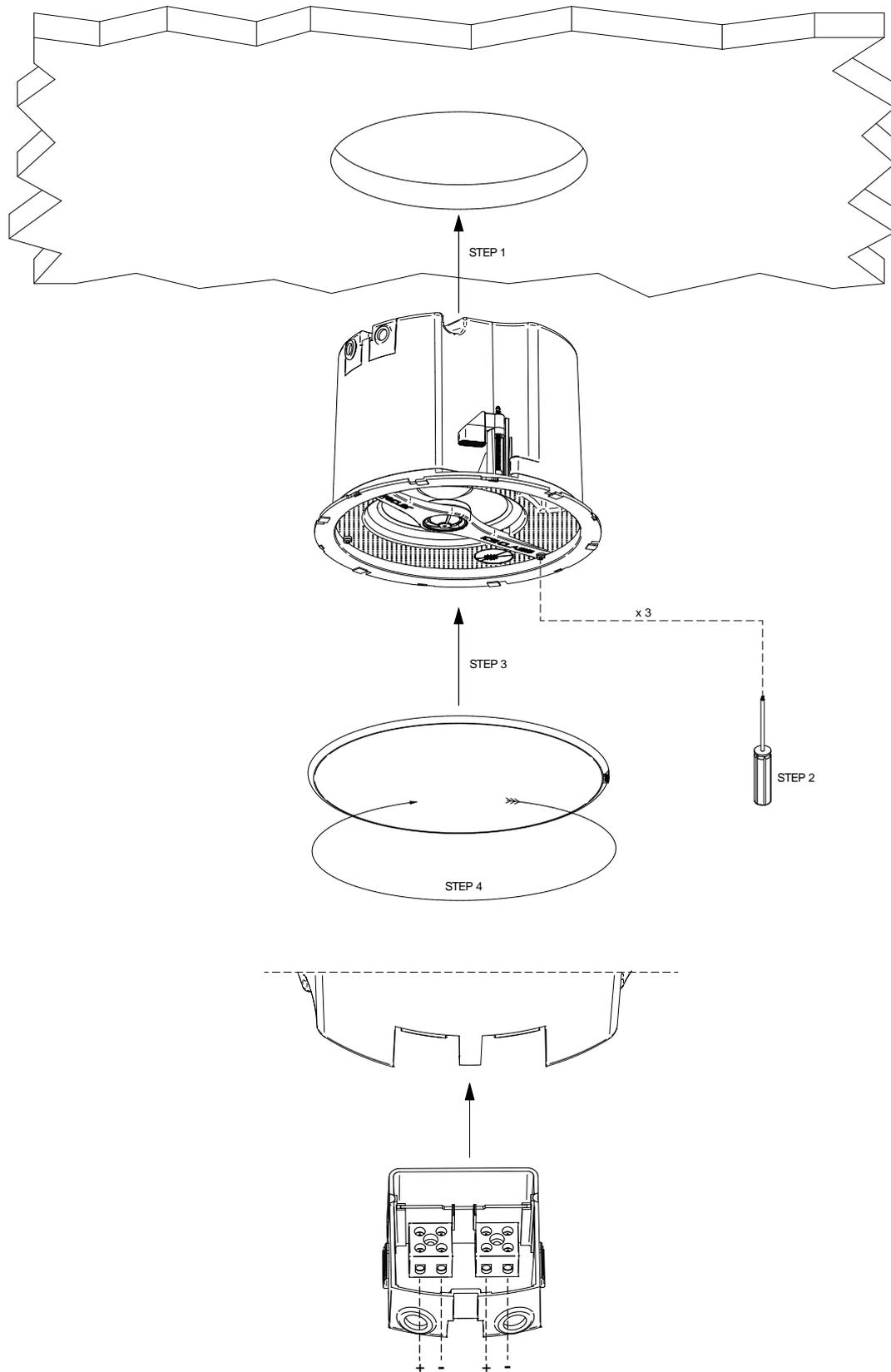
### FREQUENCY RESPONSE AND IMPEDANCE VS. FREQUENCY





NOTE: Frequency response measured on-axis with recommended active EQ in an anechoic environment

MOUNTING DIAGRAM





All product characteristics are subject to variation due to production tolerances. **NEEC AUDIO BARCELONA S.L.** reserves the right to make changes or improvements in the design or manufacturing that may affect these product specifications.

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