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 back can, ceramic connection terminals, thermal fuse and Internal FR wiring. It integrates a very careful and efficient selection of components (6.5" 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 tappings 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
- Back can included
- 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

System	
Effective frequency range[1]	75 Hz-20 kHz
Coverage angle[2]	70°x80° (HxV)
Power handling	30 W RMS / 120 W Peak
Sensitivity[3]	84 dB (1W/1m)
Maximum SLP	99 dB
Power options	100V: 30W / 20W / 15W / 7,5W / 3W / 12 Ω
	70V: 15W / 10W / 7,5W / 3,7W / 1,5W / 12 Ω
Recommended amplifier power	60 W RMS
Transducers	
Ways	2
Low frequency driver	6.5" Kevlar woofer
High frequency driver	1" Silk dome (ACCW) tweeter
Nominal impedance	12Ω
Physical	
Connection type	Ceramic terminals
Power type selector	Built-in transformer
Installation options	In-ceiling, in-wall
Certifications	EN54-24
Grille material	Aluminium
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”
Finished color	White (RAL 9003)
Ceiling thickness	No limit min
	40mm / 1.57" max
Included accessories	Back can included
Weight	3.1 kg / 6.83 lb

[1]10dB below the sound pressure level at specified sensitivity

[2]6dB below the sound pressure level than that at the direction of maximum level, Average from 1 kHz to 4 kHz.

[3]Measured on-axis, far field and referenced to 1 meter by inverse square law. Average from 100 Hz to 10 kHz.

[4]Calculated from sensitivity and power handling specifications, exclusive of power compression

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.

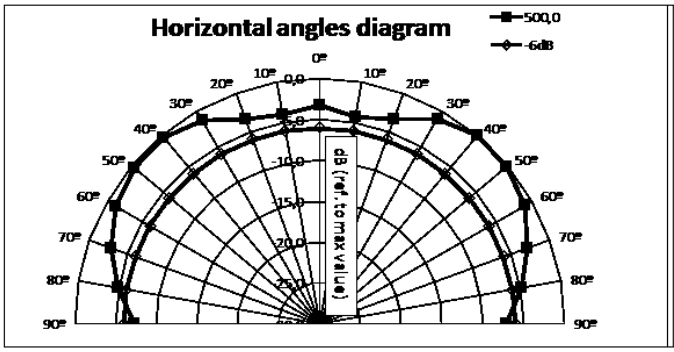
COVERAGE ANGLES

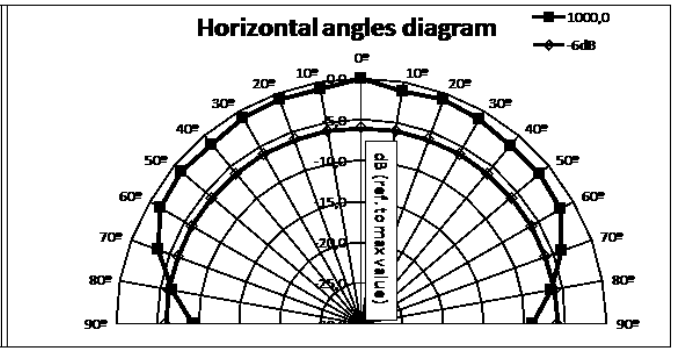
Coverage angles (max. angle that shows less than 6dB loss from maximum radiation direction):

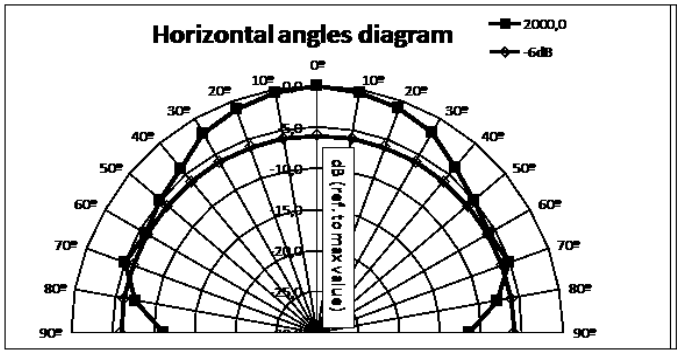
Freq (Hz)	Up	Down
500	80º	80º
1000	80º	80º
2000	80º	80º
4000	40º	50º

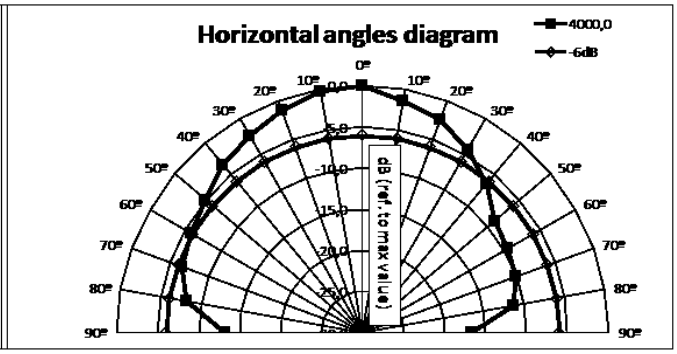
Freq (Hz)	Left	Right
500	80º	80º
1000	70º	70º
2000	70º	70º
4000	60º	60º

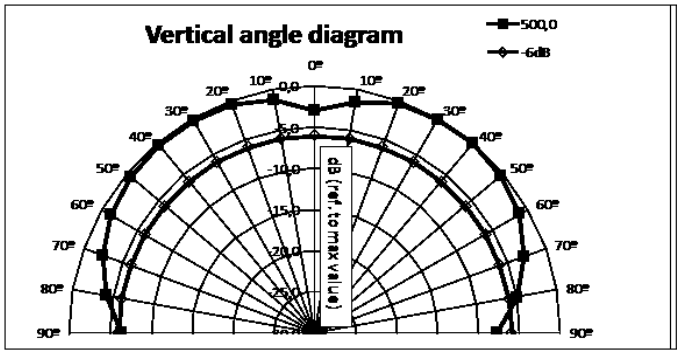
COVERAGE DIAGRAMS

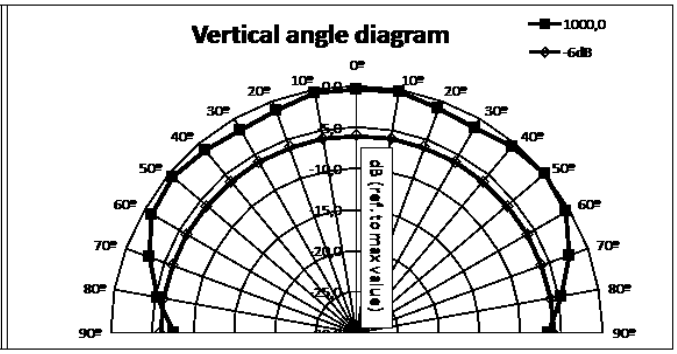


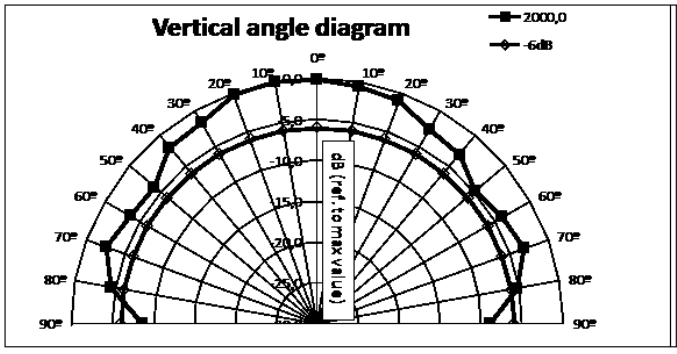


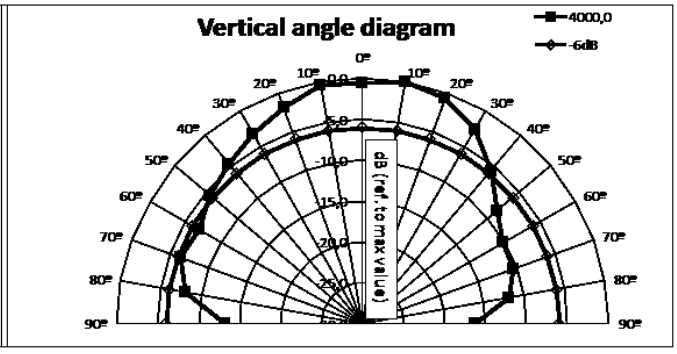


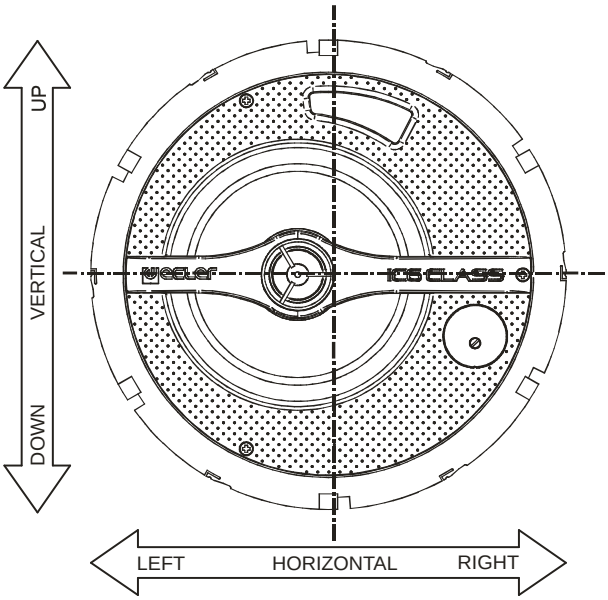






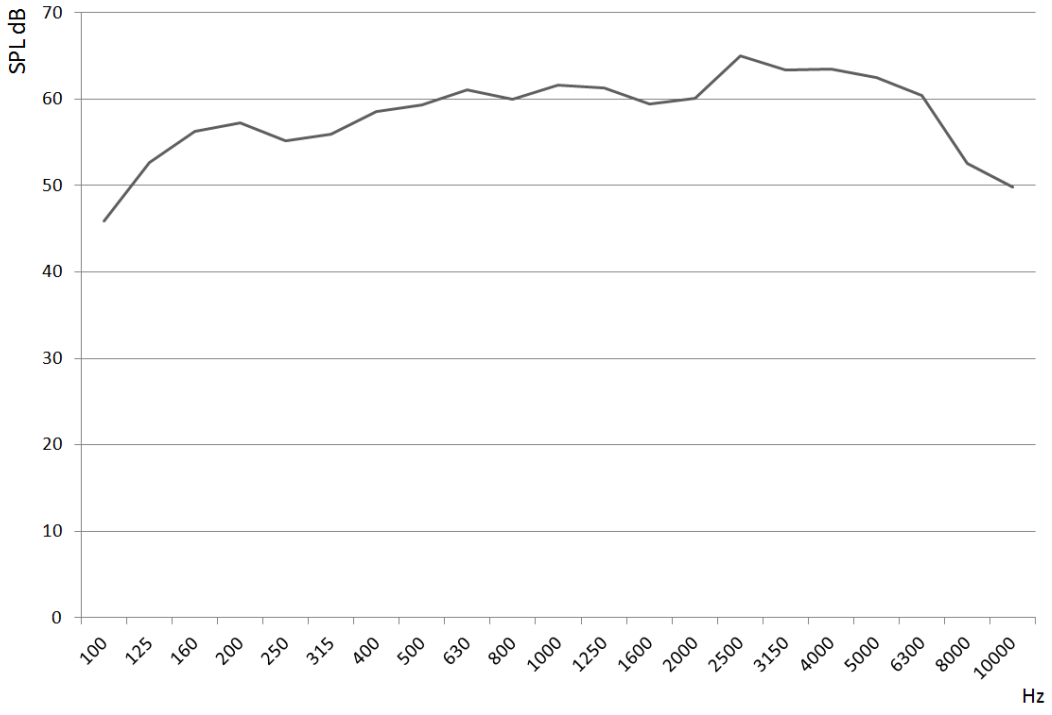


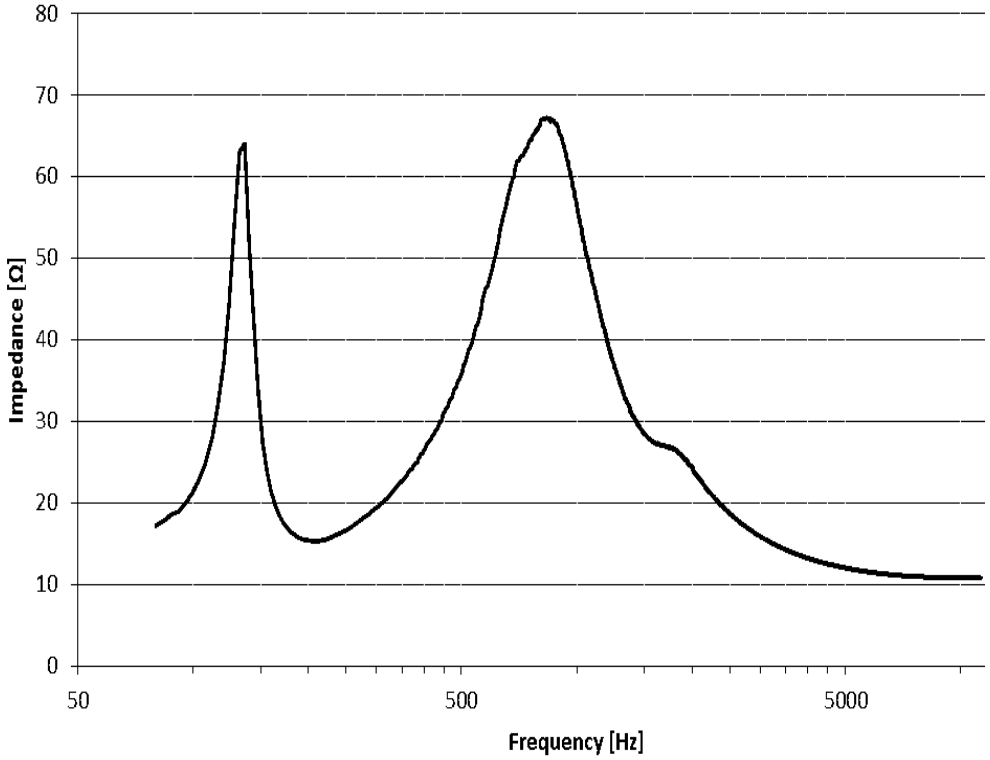




Note: Audio specs in free field conditions, with sample mounted on a standard baffle made of acoustically reflective surface

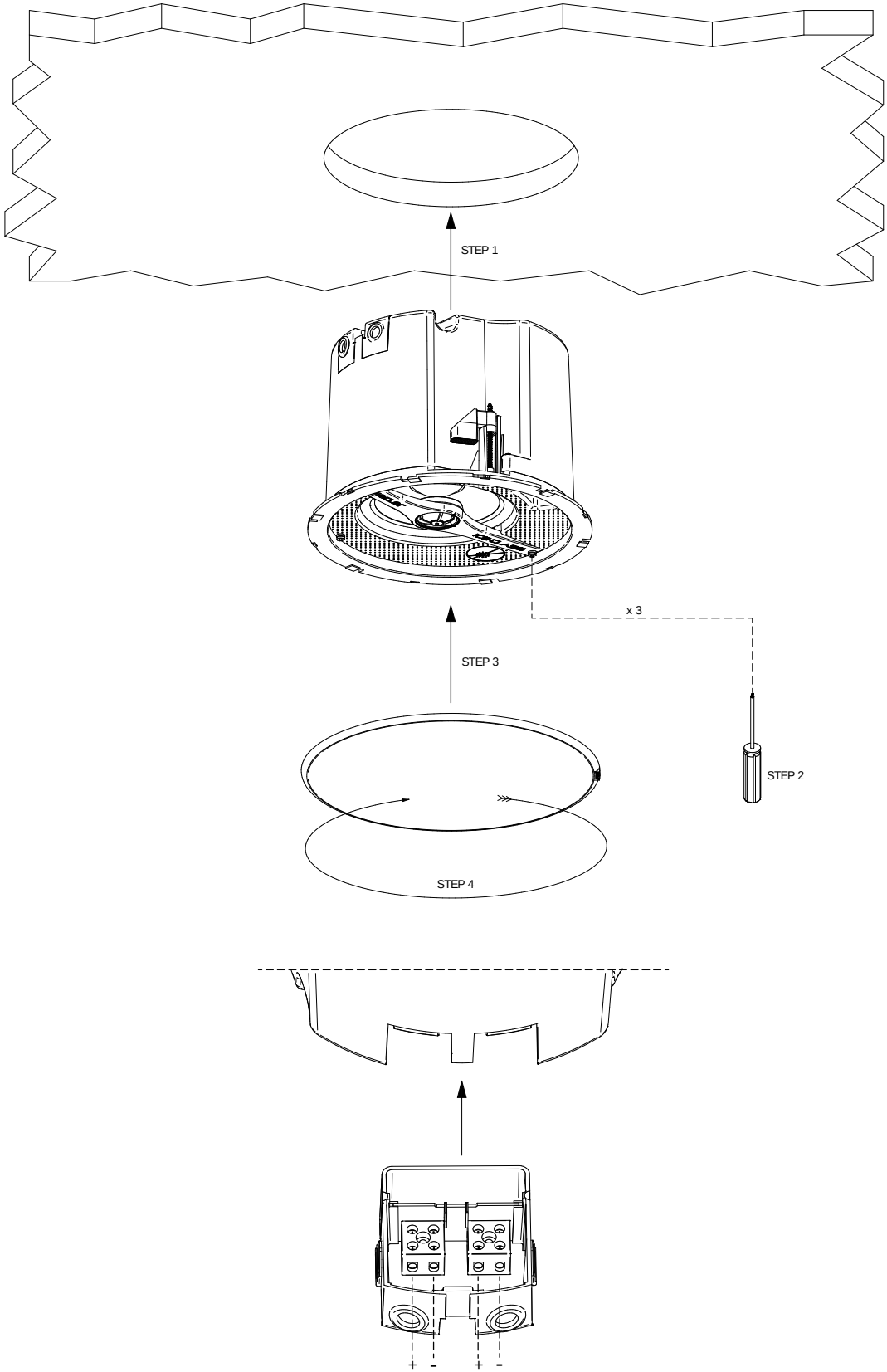
FREQUENCY RESPONSE AND IMPEDANCE VS. FREQUENCY





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

MOUNTING DIAGRAM



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