

LIFE FIDELITY SERIES

LFi4eT

Invisible Loudspeaker Product Data Sheet



- **Completely invisible, high fidelity loudspeaker**
- **Easy to install into cavity walls, solid walls or ceilings**
- **Simply skim over with a finishing coat of plaster**
- **Suitable for low/medium powered audio systems**
- **Features new technologies providing smooth frequency response and enhanced clarity.**

The Amina LFi4eT is a totally invisible full range loudspeaker system designed for use in commercial installations where high clarity sound and wide, even audio coverage is required whilst allowing the ability to create exceedingly high quality wall or ceiling finishes of all kinds.

Using Vibrational Panel Technology the LFi4eT creates sound in a similar way to a musical instrument. It shares the musical instrument's ability to generate high sound pressure levels over wide areas and with even distribution. The vibrating area of the speaker is flat and has been designed specifically to be embedded behind a 2mm Gypsum plaster skim or a thin veneer of wood or fibreboard.

Due to its wide dispersion of sound, positioning the LFi4eT in a room is much less critical compared to conventional loudspeakers. Also, the number of loudspeakers required in any one space is reduced resulting in reduced installation cost and complexity.

The vibrating panel surface of the LFi4eT is composed of an absorbent paper skin providing high bond adhesive to wet plaster similar to the surface of plasterboard/ dry wall/ Gypsum. Once plastered over with a standard 2mm high quality finish skim coat (accepts many plaster types including polished), the wall or ceiling surface can then accept paint, wallpaper, flock, leather or textured finishes.

Installation Backboxes are available for solid walls or for providing sound proofing in plasterboard cavity walls or ceilings. Alternatively, optional mounting blocks can be supplied for 12.5mm (1/2" and 5/8" for USA) plasterboard walls or ceilings. Blocks for alternative board thicknesses are available on request. A quick installation process is made possible because this lightweight loudspeaker is attached to the plasterboard and not to the stud work or any rear structural sections.

The Amina LFi4eT allows the ultimate in ambient entertainment and communication systems to be achieved with zero aesthetic impact on room design and decoration.

Application

Flush mounted into walls and ceilings (Gypsum board or solid construction types) and skimmed over for a truly invisible audio solution in multi-speaker commercial properties and public buildings.

Life Fidelity LFi2eT Part Numbers

- LFi4eT70/ 10 - (10W tapped for 70V line systems)
- LFi4eT70/ 20 - (20W tapped for 70V line systems)
- LFi4eT70/ 40 - (40W tapped for 70V line systems)
- LFi4eT100/ 10 - (10W tapped for 100V line systems)
- LFi4eT100/ 20 - (20W tapped for 100V line systems)
- LFi4eT100/ 40 - (40W tapped for 100V line systems)

Environment

Interiors, wet rooms (bathrooms, kitchens and pool areas)

Warranty

The product is maintenance free and is designed to operate reliably for many decades. Correctly installed and operated in accordance with this specification, Amina warranties the LFi4eT against defective materials and workmanship for a period of 5 years.

Optional Accessories

- **BackboxCV300** - aluminium Backbox for Gypsum board walls/ ceilings. Provides additional sound insulation.
- **BackboxSW300** - metal Backbox for easy installation in solid and block wall types.
- **FireHood300** - 60 minutes rated woven fire hood. Fits around Backbox-CV300 if required.

Specifications

LFi4eT

Dimension	400mm x 300mm x 40mm (15 ^{3/4} " x 11 ^{4/5} " x 1 ^{3/5})
Weight	1.26Kg (2.78lbs)
Available input tapings	100V Line: 10W, 20W,40W / 70V Line: 10W, 20W,40W
Frequency response	110Hz - 15.6kHz (-6dB)
Dispersion angle (H x V)	180° x 180° (6dB)
Sensitivity	84dB 1m/ 1W (measured with 2mm/ 0.08" multi-finish plaster skim applied)
Max SPL	100dB 1m/ 40W (measured with 2mm/ 0.08" multi-finish plaster skim applied)
Electrical Connection	Professional insulated butt splice, accepts <2.6mm (14AWG) conductor diameters. (requires professional crimping tool)
Construction	Powder-coated aluminium chassis. Aluminium honeycomb core, doped paper skin composite active panel
Installation kit (optional)	Mounting blocks suitable for 12.5mm thick Gypsum/ plasterboard (other thickness available on request). Blocks available for 1/2" and 5/8" board supplied
Backbox (optional)	BackboxCV300/ BackboxSW300
Required external filtering	24dB/ octave high pass filter at 80Hz or higher
Operating temperature range	5°C - 35°C (41°F - 95°F)

International

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