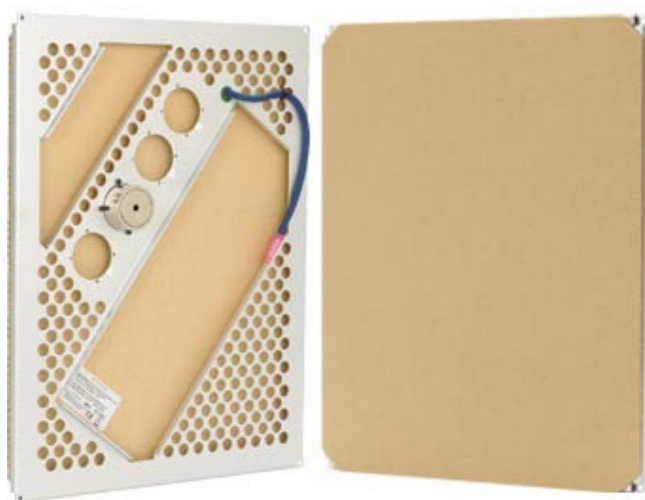


# amina loudspeakers

## AIW1X plaster-in-wall loudspeaker

### AIW1X In-Wall Pro-Panel Loudspeaker



The Amina® AIW Plaster In-Wall Loudspeaker Series is the world's first high performance loudspeaker that is designed to be skimmed over with 2mm of normal finishing plaster, providing a completely concealed audio solution whilst allowing designers and builders a very high quality wall finish ready to accept a decoration of choice (paint, paper, textured plaster etc).

The product can also be used within special rooms such as curved spaces, and once plastered in become completely 'invisible' to humidity and other solvents. It is therefore ideal for wet areas such as pools and bathrooms, and for clean rooms where walls and ceilings need to be regularly washed or wiped down.

The Amina® AIW1 Plaster In-Wall loudspeaker comprises a specialist lightweight yet very rugged composite panel material, the surface of which, after receiving a 2mm skim of plaster, vibrates to generate acoustic energy. However this type of product has also been very specifically engineered to have a rigid perimeter panel section to ensure no possibility of cracks forming in the surface plasterwork between the product and the surrounding wall structure.

At the heart of the Amina® AIW1 is its acoustic 'engine' using a single rare earth magnet, high power vibrational excitation

driver, allowing it to handle 20W of continuous power. Generating 93dB of sound (measured 1m away), even after plaster is applied, the AIW1 has the ability to cope with the dynamic sounds, from individual notes of the classical guitar to the explosions in a modern action movie. The excitation drivers set up tiny but powerful vibrations, (you can feel them, but you cannot see them) in the panel. These are then transferred through the plaster, paint or wallpaper that is placed on top of it, which then excite air molecules at the surface of the wall, which in turn excite other air molecules until the sound reaches our ears. The rigidly held perimeter of the panel means that the vibrations cannot cause cracking around the edge of the product.

Operating in the same way as natural musical instruments such as the acoustic guitar, violin or piano, these vibrations recreate sounds far more evenly and less directional than a conventional cone based speaker. This creates a very wide area in which the surround sound or stereo sound field is heard properly, even when seated right against the active wall.

The width of the product (345mm) allows it to fit well within 400mm centred wood or metal stud-work commonly used today in walls and ceilings. However, for special cases (for example for setting in the plaster work between old wooden ceiling beams in heritage properties), narrower units can be made to order. Please contact Unique Automation for details.

The product is supplied with fixings for easy installation into plasterboard stud walls and ceilings and for dot and dab plasterboard faced walls. The product is fixed to the plasterboard and not to any rear wall structure or studwork. These fixings are fixed with two dry wall screws to the surrounding plasterboard (see installation review), and set all the levels required to ensure the panel sits flush with the front of the plasterboard. In solid block, brick or concrete walls, a metal back box is available to ease the installation process.

A powered sub woofer is recommended for applications requiring low bass frequencies. For the very best results, your system electronics should comprise in-line equalisation to enable 'voicing' of the completed room.

#### Applications:

The Amina® AIW1 is an affordable concealed audio source for use in all parts of the home where more modest sound levels are called for. From bedrooms and bathrooms to kitchens and hallways, it produces high quality audio without compromising style or design.

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## Specifications: AIW1X

Nominal Impedance*:	8 ohms
Power Handling (Continuous):	20W (when brick wall filtered at 150Hz)
Sensitivity (with 1.5mm plaster skim):	82dB 1m / 1W
Maximum SPL (with 1.5mm plaster skim):	95dB 1m / 20W
Frequency Range:	100Hz ~ 20KHz
Dispersion Angle:	180°
Electrical Connection:	Professional butt splice crimp for permanent connection
Dimensions:	450 x 345 x 40 mm
Product Weight:	910g
Minimum Aperture Depth:	60mm from front of panel
Fixings Provided:	Suitable for 12.5mm thick plasterboard. Please state if other sizes required
Box Quantity:	Pairs
High Pass Filter Requirement:	100Hz at 24dB / Octave (Minimum external required e.g. Amina AF2 active filter)

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\* External tapped 100V line transformer available for commercial installations

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