

Edge Series

High Performance Invisible Loudspeaker

amina

5th January 2017, Huntingdon,
Cambridgeshire, UK

PRESS RELEASE

Amina Announces New Edge “Plaster up to” Products at ISE 2017

Amina Sound, the premium British invisible loudspeaker specialist, has introduced a completely new generation of fully concealed loudspeakers.

This breakthrough technology delivers ‘best in class’ audio performance with a staggering efficiency of 93dB, 1W/1m (Edge7).

Featuring a unique tapered perimeter, the ‘Amina Edge’ products use a dry-wall / dry-lining installation approach for new build or retrofit applications to create a truly powerful and dynamic invisible sound source for installation within walls or ceilings.



Advanced Material Technology

It will be no surprise that the key element in developing any diffuse source, wide frequency range, flat panel loudspeaker, is dominated by the choice of material used in the active flat panel surface of the loudspeaker. This forms the musical sound board at the heart of Amina’s invisible speaker products and is critical in determining its efficiency and quality of audio output. Put simply, the panel has to be stiff enough, and light enough to be acoustically efficient, yet has to have enough damping to allow it to reproduce extended low frequency energy. At the same time the material must have a hardness to it, otherwise high frequency reproduction will suffer.

The Amina Edge series see the introduction of an all new front panel material developed over the last 4 years in collaboration with a European composite specialist. The panel uses a high performance glass filled core making it stiff, light and damped which is perfect for high fidelity sound production.

Newlove added **“the material also has excellent fire retardant and low smoke and fume properties which is becoming an increasingly important requirement within the built environment”**.



“The appeal of an invisibly reproduced sound-stage is increasingly attracting the attention of designers, architects and clients” commented Amina Managing Director, Richard Newlove **“allowing the total preservation of the interior aesthetic whilst accessing the benefits of audiophile reproduction for music or cinema in the home or the commercial setting.”**

Amina Technologies Limited

Cirrus House, Glebe Road, Huntingdon, Cambridgeshire, PE29 7DL, England
T: +44 (0) 1480 354390 | E: inspired@amina.co.uk | W: www.amina.co.uk

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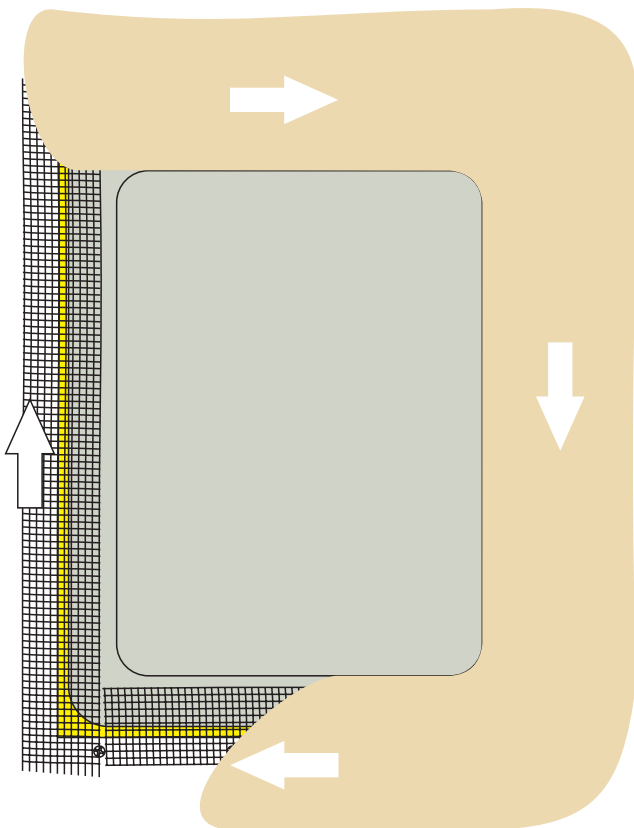
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Installation

To be compatible with dry wall techniques, it is, of course, imperative that the perimeter edge of the panel has to be shaped and tapered to allow joint tape and filler to be used in the same way as drywall gypsum has a tapered edge.

This gracious form factor of the Amina Edge provides plenty of depth to place joint tape around the boundary without any danger of 'sanding' joint filler away to expose the scrim. Its rounded corners allow smooth application of drywall compound avoiding a sharp change in direction of the dry wall blade.



Drywall installation example

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There are currently two products in the Amina Edge product range, the Edge7 and Edge5.

The Amina **Edge7** is capable of handling an astonishing 75W of continuous power. That's a massive peak power handling of 150W which combined with 93dB 1W/1m efficiency provides a truly exceptional listening experience with zero visual intrusion. Maximum achievable peak Sound Pressure Level (SPL) is just under 115dB at 1m. This is a very high performance product which works at its very best with sophisticated AV systems.

The Amina **Edge5** is a simpler product suitable for less complex systems and can handle 50W continuous power, 100W peak. This is ideal for high volume price sensitive applications such as MDU's, commercial and lower cost residential properties.

The new Amina Edge damped structure therefore provides a wide frequency range, without the need for a plaster skim coat - that's lot of LF as well as HF. In fact the Amina Edge7 can reproduce a very impressive 45Hz at the low end. Once installed the Amina Edge product can be finished with paint, fabric or lightweight wallpaper.

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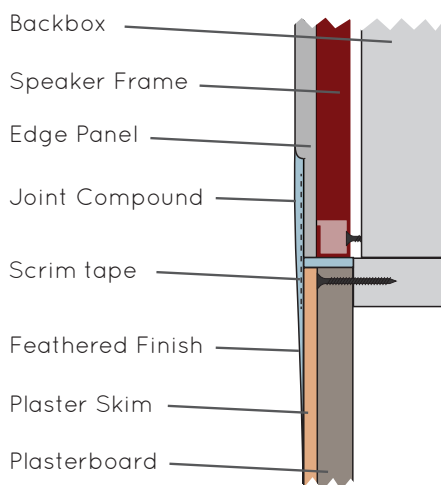
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Specification	Edge7	Edge5
Impedance	4 Ohms	8 Ohms
Power handling (continuous/peak)	75W / 150W	50W / 100W
Sensitivity	93dB 1m/2.83Vrms	90dB 1m/2.83Vrms
Max. SPL at 1m (continuous/peak)	112dB / 115dB	107dB / 110dB
Frequency response	45Hz - 20kHz (± 6 dB)	65Hz - 20KHz (± 6 dB)
Electrical connection	Blue butt-splice crimp terminals (14-16 AWG)	
Dimensions	450mm x 345mm x 40mm (17 ^{3/4} " x 13 ^{5/8} " x 1 ^{5/8} ")	
Product weight	1.78Kg (3.92lbs)	1.24Kg (2.73lbs)
Fixing requirements	BackboxCV345	
In-line protection unit	APUi70 / APU-RS8i / APU-RS16i	APUi50 / APU-RS8i / APU-RS16i
Manufacturer limited warranty	10 years residential / 5 years commercial	

Installed Section



Edge7



Edge5

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Corporate Background

Amina Technologies Ltd design and manufacture in the UK specialist invisible loudspeaker solutions for high end commercial and residential premises and have been making invisible loudspeakers since 2001.

Amina have developed a new loudspeaker technology that completely disappears in application. Quite literally the product is set into walls and ceilings, plastered over and decorated to become completely invisible. It needs no maintenance.

Invisibility and improved acoustic coverage are only made possible because Amina have gone back to first principles in how sound is made. The loudspeakers do not use the conventional piston operation of a cone shaped diaphragm; instead Amina returned to the traditional musical instrument approach characterized by the violin and acoustic guitar and created electrically driven vibrational sound boards. Using this UK developed technology, Amina therefore create powerful loudspeakers that are super thin, lightweight, fast to install, highly effective in creating a powerful musical experience and ultimately completely invisible once installed.

The product and the technology is continually developing and Amina choose to design and manufacture in the UK allowing new product developments to be brought swiftly to market. Quality and consistency of the finished product is absolutely key to the success of the invisible loudspeaker families and the product is designed to last for many years. Additionally Amina work with local suppliers, where possible, for piece parts, which creates a partnership approach to developing new and improving existing products in a timely manner.

Editorial Contact:

Babs Moore,
Amina Technologies Ltd,

Cirrus House, Glebe Road, Huntingdon, Cambridgeshire, PE29 7DL

Tel: 01480 354390.
Email: babs@amina.co.uk
Web: www.amina.co.uk

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