

The world's leading supplier of Advanced technology flat panel loudspeakers combining high quality sound reproduction with a unique bespoke manufacturing service creating Sound Sources that 'disappear' into your design.

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## Product DATA Sheet: AIW Wood Cluster



**Description:** Amina In-Wall Cluster. Compact, high power module for bonding to the rear of wood panelled walls or ceilings where rear cavity space precludes the use of the standard AIW speaker range. The high power exciter units allow the Cluster to generate high quality audio when bonded to substrates up to 5mm in thickness (e.g. veneered MDF).

**Typical applications:** AV and voice re-enforcement in residential or commercial environments where speaker must be hidden within wood panelled walls.

**Product outside dimensions:** 396mm x 124mm x 40mm

**Active Panel Size:** 396mm x 124mm x 5mm

**Panel Material:** High gain, aluminium honeycomb, paper skin.

**Product Weight:** 2.5Kg

**Frame:** Aluminium, powder-coated

**Fixings:** Special, high strength adhesive film on panel surface. Allows product to be bonded to flat, smooth, wooden surfaces for optimal acoustic energy transfer.

**IMPORTANT:** the adhesive alone on this product is not designed to support its weight. Additional bracing is required (installation specific) to hold product in situ reliably.

**Electrical connection:** Butt splice crimp for 1.0 – 2.6mm<sup>2</sup> cables

**Impedance:** 8 ohms nominal

**Sensitivity:** 95dB/2.83V/1m before bonded to substrate. This figure will reduce depending on the density and weight of the substrate. Average sensitivity may be 85dB – 90dB/2.83V/1m

**Power Handling:** [Power ratings assume full bandwidth operation. To avoid excessive mechanical noise a 'brick wall' high pass filter is essential. This will increase the power handling and the subsequent peak sound pressure level]

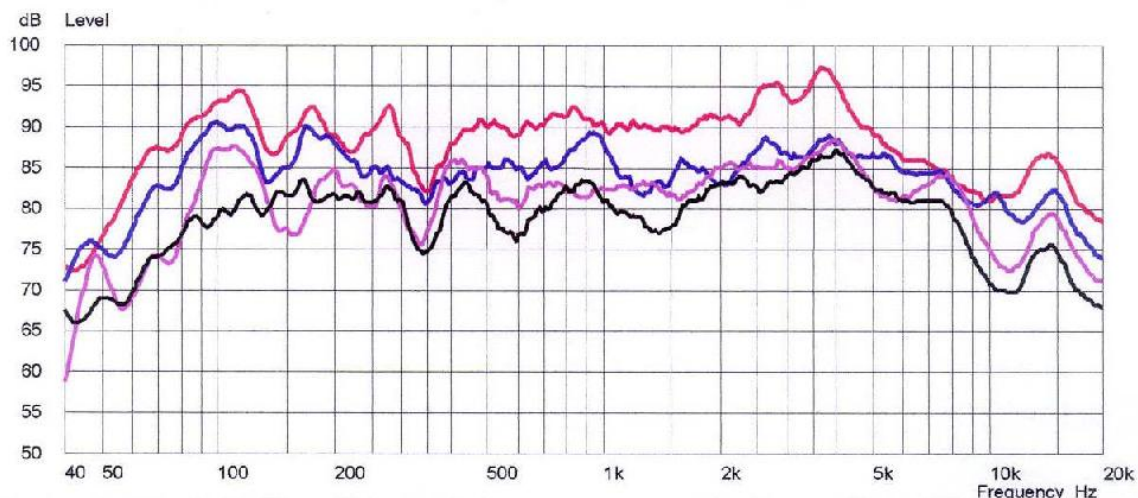
Max. Continuous power input = 80W (brick wall high pass filter @ 150Hz)

**Placement:** For best results, place centrally within the flat area of substrate available

**Frequency Response:** Depending on the vibrating area, weight and density of the substrate, the frequency response will be no better than 120Hz – 18kHz.

**Dispersion angle:** Greater than 150 degrees.

[Graph shows typical SPL vs. frequency measured at different dispersion angles for a TYPICAL Amina NXT panel. Response below 200Hz is inaccurate]



Note: The Company reserves the right to change specifications without prior notice.  
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