

# THE PERFECT BALANCE

The Sapphire250 represents the ideal harmony between performance, versatility and installation flexibility in invisible audio technology. Built upon 25 years of acoustic innovation, it features our precision-engineered 'Symphony Cell' composite soundboard and optimized dual-exciter configuration, delivering remarkably balanced audio across the entire frequency spectrum while maintaining complete invisibility.

## **IMPRESSIVE BASS RESPONSE**

The Sapphire250 breaks the invisible speaker paradigm with its remarkable low-frequency extension. Incorporating our proprietary LowFreq™ driver technology, this slender invisible speaker produces rich, articulate bass that defies its discreet form factor. The innovative dual-driver design works in harmony with our specially developed composite soundboard, Symphony Cell, to deliver bass you can feel with authority and precision, eliminating the need for visible subwoofers in all but the most demanding applications.

## THE VERSATILITY ADVANTAGE

The Sapphire250 excels in scenarios requiring exceptional flexibility and adaptability. Its narrow form factor allows installation between studs or joists on 400mm centers or greater, while its slim 31mm profile, without a backbox, enables placement in limited cavity spaces where traditional speakers could never fit. Ideal for boutique hospitality venues, high-end residential spaces, heritage properties, and multi-purpose environments requiring both aesthetic elegance and audio precision.

## SURFACE FREEDOM

The Sapphire250 disappears completely behind your choice of finish, opening unlimited design possibilities. Compatible with all plaster types including Venetian, lime, clay, and spray-on systems; luxury materials such as marble, wood veneer, leather, and natural stone; modern composites including synthetic stone, micro-cement, and Dibond mirror finish panels; and designer wallcoverings.

## FEATURES AT-A-GLANCE



50W RMS/100W PEAK

Providing a maximum sound pressure of 92dBSPL from 50W at four ohms



**180° DISPERSION** Perfect 180° Hemispheric dispersion throughout the speakers frequency range



SONIC CLARITY

Room-filling sound with fullrange Hi-Fi voicing and impeccable intelligibility



#### **INSTALL FLEXIBILITY**

Install in wall, ceiling or cabinetry and cover with almost any material



**POWERFUL BASS** LowFreq<sup>™</sup> driver technology delivers rich, deep bass without requiring a separate subwoofer



#### **SAPPHIRE 2<sup>50</sup> SPECIFICATION**

WITH 2MM PLASTER SKIM

NOMINAL IMPEDANCE	4 Ohms	DRIVERS	2 × Precision-Tuned DML Drivers
SENSITIVITY	82dB (2.83V / 1m)	VOICE COIL DIAMETER	1x 19mm, 1x 36mm
EQUIVALENT SENSITIVITY (without plaster)	88dB (2.83V / 1m)	VOICE COIL CONDUCTOR	Dual Layer Wound Copper
		- SUSPENSION DESIGN	Engineered Spiderless Coupler
RATED MAXIMUM SPL	99dB SPL	- DIAPHRAGM DESIGN	Bending Wave Principle
FREQUENCY RANGE (-10dB)	50Hz - 20kHz	DIAPHRAGM MATERIAL	Phenolic Honeycomb
FREQUENCY RESPONSE (-6dB)	52Hz - 20kHz	RADIATOR SURFACE AREA	,
COVERAGE (H/V)	180°/180°		
POWER HANDLING (RMS/PEAK)	50w/100w	AVAILABLE ACCESSORIES	
RECOMMENDED HIGH PASS FILTER	30Hz, (24dB per Oct.)		
ELECTRICAL CONNECTION	Wago Lever-Splice 16–10 AWG (1.5–6 mm²)	LOW-Z PROTECTION	Guardian 2/8/16
		- HIGH-Z TRANSFORMER	Multitap Or Fixed Value Available
PRODUCT DIMENSIONS	450mm X 345mm X 31mm (17″ ³/ <sub>4</sub> x 13″ <sup>9</sup> / <sub>16</sub> x 1″ ¹/ <sub>4</sub> )	MANUFACTURER WARRANTY	10 Years
PRODUCT WEIGHT	1.8kg (3lb 15oz)	MOUNTING HARDWARE	CV345 Backbox / SW345 Back- box / Tab Mounting Kit

FIRE BARRIER Firehood 345

### **APPLICATION SPOTLIGHT**

The Sapphire250 excels in applications requiring precise acoustic performance and installation flexibility:

HERITAGE PROPERTIES: Ideal for integrating into historic buildings with limited cavity space.

BOUTIQUE HOSPITALITY: Perfect for luxury hotel suites and fine dining establishments.

**CONFERENCE FACILITIES:** Exceptional speech intelligibility for meeting rooms and presentation spaces.

MULTI-ROOM AUDIO: Consistent, balanced sound throughout the home with invisible integration.

MUSIC-FOCUSED ENVIRONMENTS: Extended bass response delivers complete listening experience.

## SYSTEM PROTECTION & INSTALLATION

All Amina low-impedance loudspeakers require effective protection from being overdriven to qualify for our 10-year warranty. We recommend using Amina's Guardian protection devices in-line between your amplifier and loudspeaker for optimal performance and longevity.

Comprehensive installation instructions, training resources, CAD files, and application notes covering various finishing materials are available at aminasound.com. Our support team is always available to provide guidance for challenging installation scenarios.

#### WARRANTY INFORMATION

Amina loudspeakers are designed to operate reliably for many years. Correctly installed in accordance with instructions, Amina warranties the loudspeakers against defective materials and workmanship for a period of ten years. Full warranty statement available at aminasound.com/warranty.





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