AMINA

DATASHEET Revision 1.0

SAPPHIRE 250iB S200

HIGH PERFORMANCE SLIMLINE INVISIBLE LOUDSPEAKER

MADE TO FIT, TUNED TO IMPRESS

Combining the warm, natural sound of Amina's latest technology with the practicality of an integrated Backbox, the Sapphire250iB S200 is designed for projects where stud/joist spacing is limited, without compromising on invisible audio performance. Delivering refined, room-filling sound from a compact form factor, it offers the perfect balance of installation flexibility, reliable acoustic performance and the flawless finish expected from the Sapphire Series.

COMPOSED FOR BALANCE

The Sapphire250iB S200 features Amina's latest Symphony Cell™ soundboard technology, delivering impressive clarity, natural tonal balance and enhanced low-frequency performance from an exceptionally compact loudspeaker. The integrated Backbox provides a carefully optimised acoustic enclosure, helping to achieve consistent, predictable performance across a wide variety of wall and ceiling constructions.

EFFORTLESS BY DESIGN

Factory-fitted and acoustically optimised, the integrated Backbox removes the need for a separate rear enclosure, simplifying specification and reducing installation time. Compact and easy to install, the Sapphire250iB S200 is ideally suited to modern construction methods, making high-performance invisible audio accessible in a wider range of applications.

PERFECT IN PLASTER FINISHES

Compatible with all plaster finishes—including Venetian, lime, clay, microcement and spray-applied systems—the Sapphire250iB S200 is designed for complete flexibility. The Symphony Cell soundboard handles high-moisture applications with ease, even when drying times are extended.

FEATURES AT-A-GLANCE

50W RMS/100W PEAK

Providing a maximum sound pressure of 97dBSPL from 50W at four ohms

180° DISPERSION

Hemispheric dispersion throughout the speakers frequency range

SONIC CLARITY

Room-filling sound with full-range Hi-Fi voicing and impeccable intelligibility

INSTALL SIMPLICITY

Front referencing install process automatically sets the speaker at the correct depth

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Sapphire250IB S200 SPECIFICATION

MEASURED AT 20°C WITH A 2MM PLASTER SKIM

NOMINAL IMPEDANCE	4 Ohms
SENSITIVITY	83dB (2.83V / 1m)
EQUIVALENT SENSITIVITY (without plaster)	89dB SPL
RATED MAXIMUM SPL	97dB SPL
FREQUENCY RANGE (-10dB)	60Hz - 19kHz
FREQUENCY RESPONSE (-6dB)	72Hz - 18kHz
COVERAGE (H/V)	180°/180°
POWER HANDLING (RMS/PEAK)	50w/100w
RECOMMENDED HIGH PASS FILTER	50Hz, (24dB per Oct.)
ELECTRICAL CONNECTION	Wago Lever-Splice 16–10 AWG (1.5–6 mm^2)
PRODUCT DIMENSIONS	450mm X 200mm X 77mm (17" $^3/_4$ x 7" $^7/_8$ x 3" $^1/_{16}$)
PRODUCT WEIGHT	1.9kg (4lb 3oz)

DRIVERS	2 x Precision Tuned DML Drivers
VOICE COIL DIAMETER	1x 19mm, 1x 32mm
VOICE COIL CONDUCTOR	Dual Layer Wound Copper
SUSPENSION DESIGN	Engineered Spiderless Coupler
DIAPHRAGM DESIGN	Bending Wave Principle
DIAPHRAGM MATERIAL	Phenolic Honeycomb
RADIATOR SURFACE AREA	450mm X 200mm (17" $^3/_4$ x 7" $^7/_8$)

AVAILABLE ACCESSORIES

LOW-Z PROTECTION	Guardian 2/8/16
HIGH-Z TRANSFORMER	Multitap Or Fixed Value Available
MANUFACTURER WARRANTY	10 Years
MOUNTING HARDWARE	All fixings provided
FIRE BARRIER	Firehood 200

APPLICATION SPOTLIGHT

The Sapphire250IB S200 excels in applications requiring precise acoustic performance and installation simplicity where space is limited:

HERITAGE PROPERTIES: Ideal for historic buildings with limited wall space or structural restrictions.

BOUTIQUE HOSPITALITY: Perfect for hotel suites and guest areas needing discreet, high-quality audio.

CONFERENCE FACILITIES: Clear, balanced sound ensures strong speech intelligibility.

MULTI-ROOM AUDIO: Delivers consistent, natural sound across secondary zones.

SPACE-CONSTRAINED INSTALLATIONS: Enables high-performance audio in narrow walls, columns and tight spaces.

INSTALLATION SUPPORT

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

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.

RoHS Compliant

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IMMERSIVE INVISIBLE SOUND

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