

Architectural Series

Key Features:

- ▶ VGC™ (Vented Gap Cooling) low frequency transducer with 100 mm (4 in) diameter edgewound voice coil and SFG™ magnet structure.
- ▶ Compact trapezoidal enclosure for accurate cluster design.
- ▶ Rugged black textured finish.
- ▶ Multiple attachments points for efficient mounting.
- ▶ Options include: finish, input connections, and grilles.

The JBL Architectural Series is a family of modular loudspeaker systems designed for fixed installation in applications ranging from speech reinforcement to large scale music reinforcement. All models in the series can be customized to meet specific designer needs in details of finish, mounting, and input wiring, resulting in economy and time saving in the field.

The model AS4718 is designed to increase low frequency bandwidth with smooth, low distortion response down to 30 Hz. It can be used with any Architectural Series full range system.

Components

The AS4718 has been designed around one of JBL's most rugged transducers. The 2241G 460 mm (18 in) diameter transducer incorporates JBL's exclusive VGC™ (Vented Gap Cooling) for efficient removal of heat from the voice coil resulting in a continuous power rating of 600 watts with minimum power compression. Another JBL innovation, SFG™ (Symmetrical Field Geometry), reduces second and third harmonic distortion to extremely low levels, resulting in clean reproduction at the highest drive levels. JBL's continuing research in cone, surround, and suspension materials has made the 2241G an extremely reliable and predictable performer.



Enclosure

The AS4718 is a trapezoidal enclosure which facilitates arraying for a wide variety of coverage requirements. The enclosure is made of rugged, high-grade birch plywood, and each joint is either dado or rabbet type. The enclosure is finished in textured black and has twelve internal corner mounted steel plate attachment points which accept only 3/8 inch forged shoulder steel eye bolts for maximum safety. The trapezoidal enclosure is tapered front-to-back at 15°, allowing adjacent enclosure splaying at 30°. The enclosure grille is made of black fire retardant and vermin and fade resistant material. The grille cloth is removable from its hardwood frame for replacement to match decor.

Options

The AS4718 system may be tailored to specific applications in terms of finish, grille, and input options. These options include a fiberglass covering for increased structural and surface durability, neutral paint which more easily facilitates repainting, and bare wood (premium Finnish birch) which can be stained to meet architectural requirements. Loudspeakers can also be ordered without attachment points.

For continued field support and future recognition of the loudspeaker's configuration, once an option (alternate finish, input connector, etc.) is incorporated into an Architectural Series product, the system is no longer a standard ("STD" suffix) model, but becomes a special ("SP" suffix) model. The list of available options is continually growing. Contact JBL Professional for current Option Code offerings, availability, and pricing.

► AS4718-STD Single 18 in Subwoofer/Bass System

Architects and Engineers Specifications:

The loudspeaker shall be configured as a subwoofer and designed to cover the frequency range from 30 Hz to 3.3kHz. The frame of the single low frequency transducer shall be made of cast aluminum to avoid warping, and the magnetic assembly shall use a ferrite magnet and an aluminum flux stabilizing ring to reduce distortion. The nominal cone diameter shall be 460 mm (18 in), and the voice coil shall be 100 mm (4 in) in diameter and made of edgewound aluminum ribbon. The transducer shall be capable of handling 600 watts input power and have an axial sensitivity of 98 dB (1 W, 1 m). Power compression in the low frequency transducer shall not exceed 4.3 dB for an input of 600 watts continuous power. The enclosure shall be of trapezoidal shape with front-to-back tapering of 15° per side. The enclosure shall be constructed of high grade birch plywood, finished with water-resistant paint, and provided with no less than twelve attachment points. Overall dimensions shall not exceed 1060 mm H x 603 mm W x 438 mm D (41-3/4 in x 23-3/4 in x 17-1/4 in).

The system shall be the JBL model AS4718 with pertinent system options. Other loudspeaker systems will be considered as equivalent provided that submitted data from a recognized independent test laboratory verify that the above performance specifications are met.

Specifications:

SYSTEM:	
Frequency Range (-10 dB):	30 Hz to 3.3 kHz
Sensitivity ¹ :	98 dB SPL, 1 W, 1 m (3.3 ft)
Power Rating ¹ :	600 watts continuous pink noise
LOW FREQUENCY SECTION: 2241G	
Nominal Diameter:	460 mm (18 in)
Rated Impedance:	4 ohms
Minimum Impedance:	3.6 ohms
ENCLOSURE:	
Shape:	Trapezoidal, 15° taper per side
Material:	High grade birch plywood
Attachment:	12 points; accepts 3/8 in - 24 x 1-1/2 in forged shoulder steel eye bolts
Finish:	Black textured paint
Grille Material:	Black, fire retardant on hardwood frame
Connector:	Barrier strip
Dimensions (H x W x D):	1060 mm x 603 mm x 438 mm (41-3/4 in x 23-3/4 in x 17-1/4 in)
Net Weight:	36.3 kg (80 lb)
Shipping Weight:	45.4 kg (100 lb)
CAUTION:	Suspending this system should only be done by qualified persons following safe rigging standards.

¹ See individual driver specification sheets for rating methodology
NOTE: For additional component data, refer to component specification sheet

JBL continually engages in research related to product improvement. New materials, production methods, and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.



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