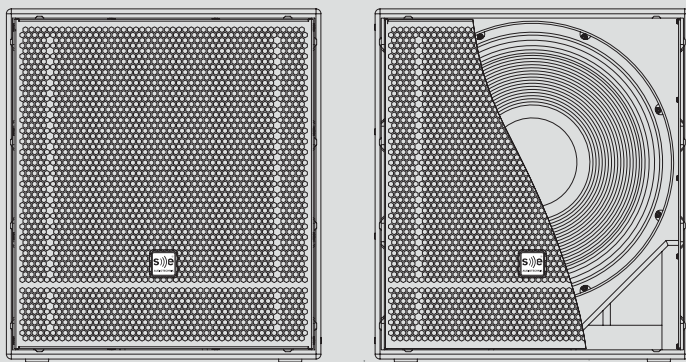


B-LINE WP

PASSIVE WEATHERPROOF SUBWOOFERS

B 18 WP



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THANK YOU FOR CHOOSING **s)))e AUDIOTECHNIK.**

We are happy to be the solution for your sound reinforcement needs with our professional loudspeaker systems. The system you have purchased is based on many years of experience as a speaker manufacturer and speaker developer. **SE AUDIOTECHNIK** products are compact, easy to use, modular and reliable.

Please, take the time to carefully read this manual and follow its instructions. It will allow you to get the most out of your product under safe operating conditions and suggest some care instructions leading to long-term endurance. Keep this manual in a safe place for further reference!

If you find any mistakes or have further questions or suggestions, please contact us at info@se-audiotechnik.de.

For more information about **SE AUDIOTECHNIK** products, visit our website <https://se-audiotechnik.de>. There you can also find the latest updates to manuals, firmware, software and technical documents for additional support.

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IMPORTANT SAFETY INSTRUCTIONS



The products described in this manual have been engineered and manufactured to ensure your personal safety. However, **IMPROPER USE CAN RESULT IN SERIOUS INJURIES TO THE USER AND THIRD PARTIES AND OTHER POTENTIAL HEALTH RISKS.** Always follow the basic precautions in this manual to avoid the possibility of serious injury or even death from mechanical parts, mechanical malfunction, falling parts, damages or interaction with devices used in combination and may lead to electrical shock, short-circuiting, fire or other hazards. These precautions include, but are not limited to, the following points:

General safety instructions

1. Keep these instructions.
2. Read and follow thoroughly all instructions.
3. Heed all warnings.
4. Always ensure that the product is used for its intended purpose and in the appropriate environments (e.g. indoors, outdoors, etc.). For products intended for outdoor use, the IP rating and all relevant specifications and regulations must be observed. For products designed for indoor use, please note the following: Do not expose this device directly to rain, moisture or any kind of liquid. Keep it away from water and do not place objects filled with fluids on top of it.
5. Clean the device just with a dry cloth and only after disconnecting it from the power amplifier. Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths.
6. Keep away from objects which may be impaired by an external magnetic field. To avoid the damage of equipment such as computers, video monitors and magnetic data carriers, they should be located at least 1 meter away.
7. Only use safety pins, attachments, accessories and adapters specified and/or provided by the manufacturer.
8. Do not block any ventilation openings and keep away from any heat sources such as radiators, heat registers, or other equipment (including amplifiers) that produce heat.
9. Do not insert your fingers, hands or any other foreign objects into any gaps or openings of the device.
10. Do not attempt to open any part of the unit. There are no user-serviceable parts inside.
11. Before transportation, remove all the rigging elements and accessories from the loudspeakers.
12. Refer all servicing to qualified service personnel. This is required when the product has been damaged in any way, such as power-supply plug is impaired, liquid has been spilled or objects have fallen into the device, the device has been exposed to rain or moisture, does not operate normally, or has been severely dropped.
13. When the product reaches the end of its life, take it to the correct collection point designated by local authorities. Proper collection and recycling conserves natural resources, protects human health and preserves our environment.

Rigging safety instructions

14. Adhere to and respect any local regulation regarding manipulation, suspension and hoisting of heavy loads.
15. Arrange an appropriate working environment, clear and free from unnecessary or dangerous objects.
16. Ensure that the ground, surfaces and holding structures are safe, stable and can hold the weight of the loudspeakers.
17. Inspect the conditions of all the equipment, accessories and tools. Make sure no part has any defects, faults or damage that may endanger or compromise safety.
18. Make sure that all personnel handling the product, parts of the product and accessories have received appropriate training and certification.
19. Make sure that the installation and handling of the product and its accessories is always performed by personnel with suitable physical conditions and who are familiar with the procedures for safety installations and the products and systems from SE AUDIOTECHNIK.
20. Use appropriate personal protective equipment (safety shoes, helmet, gloves and fall protection) and follow the applicable regulation for working in heights and above head.
21. When installing products above head height, always use proper equipment (ladder, industrial lift, lifting platform) to work safely in the intended height.
22. Observe and conform to the maximum load-bearing capacity of the elements and the maximum load-bearing capacity of the structures to which the speakers are attached.
23. When rigging or flying loudspeakers:
 - Remain attentive to any risk of bruising and/or crushing.
 - Verify that every component is correctly fastened and secured.
 - Always double secure flown elements.
 - Avoid unattached elements.
 - Do not stand below hanging loads.
 - Never climb on the loudspeakers.
 - Set up a safety zone in the area of influence of the loudspeakers for all persons who are present during set-up, dismantling and operation.



THE USE OF LOUDSPEAKER ACCESSORIES AS WELL AS THE ASSEMBLY AND INSTALLATION OF LOUDSPEAKER RIGS AND STACKS AND THE SUSPENSION OF LOUDSPEAKER ARRAYS MAY ONLY BE PERFORMED BY AUTHORIZED, TRAINED AND CERTIFIED PERSONELL.



ALWAYS FOLLOW RULES AND REGULATION FOR RIGGING, HOISTING AND WORK WITH STACKED OR SUSPENDED EQUIPMENT SET BY THE AUTHORITIES, PROFESSIONAL ASSOCIATIONS AND EFFECTIVE STANDARDS.

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IMPORTANT SAFETY INSTRUCTIONS

GRAPHICAL SYMBOLS THAT MAY BE FOUND ON THE PRODUCT



The CE mark indicates the conformity with the relevant EU directives for safety, health and environmental protection. See the Manufacturer 's Declaration section.



Symbol for conformity with Directive 2002/96/EC and Directive 2003/108/EC of the European Parliament, on waste electrical and electronic equipment (WEEE).



GRAPHICAL SYMBOLS IN THIS MANUAL



Symbol to alert the user about important operating or maintenance instructions.



Symbol for important concepts and information for a better understanding of the functioning of the product.



Symbol for practical tips and ideas useful to ensure the correct use of the product and improve its operation.

NOISE EXPOSURE PRECAUTIONS



THIS PRODUCT CAN RADIATE HIGH SOUND PRESSURE LEVELS (SPL), WHICH CAN LEAD TO IRREVERSIBLE HEARING DAMAGE. SE AUDIOTECHNIK RECOMMENDS TO RESPECT THE TIMES OF EXPOSURE TO HIGH SOUND PRESSURE LEVELS.

Noise level (dBA)	85	94	97	112	127
Max. recommended exposure time per 24 hours	8 hrs.	1 hr.	30 min.	56 sec.	1 sec.

Noise exposure recommendations according to US National Institute for Occupational Safety and Health (NIOSH).

PACKAGE CONTENTS

The packaging of **B 18 WP** includes:

- 1 B 18 WP Subwoofer
- 1 B 18 WP Safety Instruction/Manual Link
- 1 QC PASS card
- 1 Warranty card

Please inspect your product packaging before unboxing it. If it has been damaged during shipping, unbox the product and check for any visual damage before using it. Notify the shipping company immediately and contact your SE AUDIOTECHNIK dealer or support center for help and assistance.

Finally, save the shipping carton as evidence for the possible claim, which can be requested only by you. We also recommend you to keep all the packing materials and contents for any further transportation.

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INTRODUCTION

B 18 WP is a passive subwoofer engineered for permanent outdoor installations where reliable low-frequency quality and long-term protection are essential. Pairing marine-grade construction with an IP-rated design (IP55) and installer-friendly mechanics, it delivers deep, controlled bass and integrates seamlessly with SE outdoor systems such as M3 MAX WP.

Purpose-built for open-air venues, B 18 WP brings SE low-frequency performance to environments where the weather is part of the brief. Its outdoor-grade enclosure, protective grille architecture, and water-smart porting work together to resist dust, rain, and spray while maintaining clean airflow and consistent acoustic behaviour. A robust driver and carefully tuned vented system deliver deep, musical low end with reduced artefacts around tuning, ensuring impact without muddiness.

Integration is straightforward. Dedicated amplifier presets simplify protection and voicing, while the cabinet's clean industrial design and compact footprint help it blend into architectural surroundings. Connectivity is routed through a weather-resistant rear panel with sealed cable entry for dependable operation season after season.

For system designers, the B 18 WP supports both stacked and flown configurations via accessories, with provisions that keep ground stacks secure and stable. It partners naturally with M3 MAX WP and other weatherised SE loudspeakers, enabling both straightforward reinforcement and directional low-frequency arrays. From theme parks and cultural-tourism theatres to plazas, resort spaces, and open-air stages, B 18 WP provides even, confident bass coverage with the resilience outdoor installs demand.

Outdoor-grade durability:

Marine-grade materials, robust coatings, and a multi-layer grille system safeguard performance in challenging weather conditions.

Deep bass with control:

A tuned vented design and hydrophobic driver treatment focus energy in the audience area while reducing unwanted artefacts.

Installer-friendly by design:

Weather-resistant connectivity, neat cable management, and flexible mounting options streamline permanent installs.

B 18 WP CONNECTION PANEL

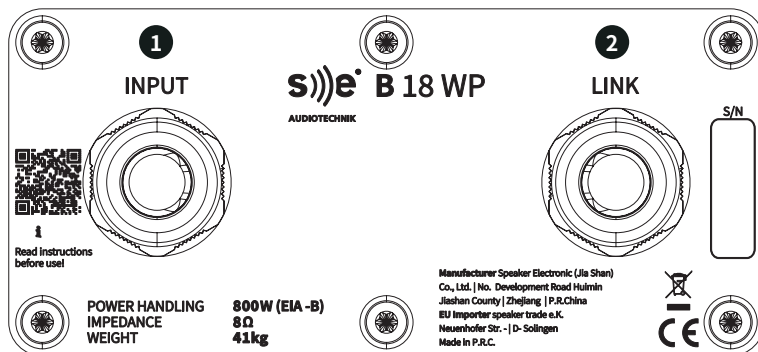


Figure 1. B 18 WP - Connection terminal.

- 1 Input: Terminal blocks with PG11 cable glands/cable entries
- 2 Link: Terminal blocks with PG11 cable glands/cable entries



Only use suitable plugs and cables. Always observe the regulations and requirements of the location where you are using this loudspeaker system. The cabling may only be carried out by trained specialists.

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WIRING AND POWERING

Audio signals are provided and passed through the PG11 cable glands to ensure ingress protection of IP 55. The speaker wires are connected behind the sealed plate to a terminal block.

The cables should be connected as shown below:

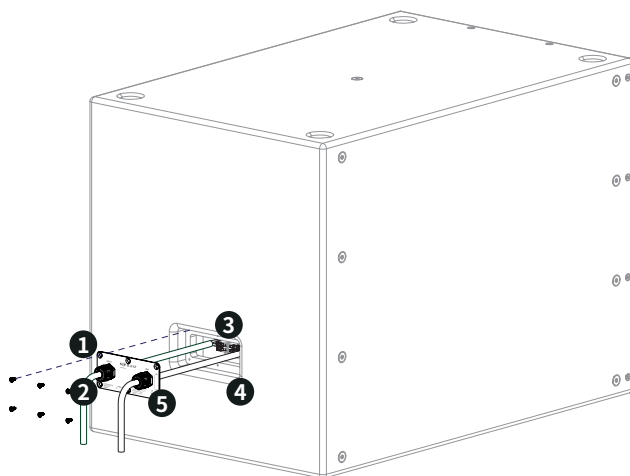


Figure 2. Input and link cable connection.

- 1** Remove the screws securing the sealing plate and remove the plate.
- 2** Route the loudspeaker cable(s) through the PG11 cable glands.
- 3** Connect the loudspeaker cable(s) to the screw terminal, observing the correct polarity.
- 4** Reinstall the sealing plate and secure it using the screws removed previously.
- 5** Tighten the PG11 cable glands to ensure proper strain relief and sealing.



Verify that all cable gland inserts are properly tightened and that the sealing gasket is correctly positioned to maintain the enclosure 's specified IP rating.

Selecting the correct cable diameter is crucial for loss-free and reliable signal transmission especially under high load between amplifiers and speakers or subwoofers. The appropriate cable cross-section mainly depends on the length of the cable run, the impedance of the connected speakers, the power to be transmitted, and the safety requirements. The longer the cable and the higher the power, as well as the lower the impedance, the larger the cable cross-section should be to avoid voltage drops and power losses.



Safety requirements and standards (e.g. fire protection, load capacity) must always be observed and guaranteed. Wires must be assembled and connected by a qualified technician.

To ensure the correct and safe behavior of the equipment, use a sufficiently powerful amplifier. As a general rule, its rated power should be at least twice the rated power of the loudspeaker. Daisy chain connections reduce the total impedance, so please keep in mind the amplifier's capabilities.

In addition, when using passive loudspeakers as the **B 18 WP**, both mechanical and thermal protection techniques should be implemented. SE AUDIOTECHNIK'S drivers are designed to reach lower stress in the suspension parts at greater excursion. However, these protections will assure the proper behavior of the equipment, its care and safety, and can maximize the performance of the whole system.



It is recommended that you use wire ferrules or cable lugs to ensure a secure connection and to minimise problems caused by thermal and mechanical changes in the material. Ensure you comply with the relevant regulations and standards.



The mechanical protection of a loudspeaker controls the excursion of the cone, so its physical limits are not exceeded. This can be done by filtering the signal below the safe range of the loudspeaker. Thermal protection controls the energy of the loudspeaker in the long term, keeping its temperature under safe levels. This is achieved by limiting the RMS voltage applied, where the maximum allowable value is its average power handling. This protection depends also on the time constants selected to trigger and release the limiter.



If equalization is needed, it is recommended to reduce levels in the undesired frequency ranges, instead of boosting the desired ones. This guarantees maximum dynamic range.



If you are using an SE AUDIOTECHNIK amplifier, you can use the built-in presets for simple and safe setup of the loudspeaker systems.

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The **B 18 WP** cabinet's design offers great versatility for different needs and applications. This subwoofer can be used on the floor, in a ground stack configuration or flown.

B 18 WP	
INSTALLATION	
Floor standing , as a stand-alone subwoofer or part of single layer subwoofer array	✓
Ground stacked , as part of a subwoofer ground stack or multi layer subwoofer array (mounting kit(s) required)	✓
Ground stacked , As part of a subwoofer stack in combination with top-mounted speakers (mounting/stacking kit(s) required)	✓
Flown , as a stand-alone flown subwoofer or part of a flown subwoofer array (bumper frame and mounting kit(s) required)	✓

MAX. LOAD CAPACITY/LIMITS

Max. load limit B 18 WP BF (Bumper Frame)	33.75 KN
Max. no. of B 18 WP subwoofers in a flown array	6
Safety design factor	12
Max. no of M3 MAX (WP) stacked on B 18 WP	4
Max. no of B 18 WP in combination with stacked M3 MAX (WP)	1
Max. no of B 18 WP in subwoofer only ground stack	3

INSTALLATION SUBWOOFER STACK

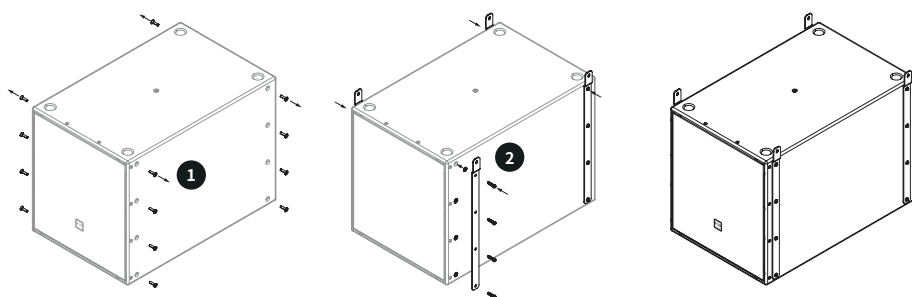


Figure 3a. B 18 WP - Using the mounting kit.

- 1 Place the subwoofer on a stable and level surface at the desired location. Remove the mounting screws from both sides of the enclosure.
- 2 Position the mounting kit profiles as shown. Ensure that the washers are placed between the profile and the enclosure. Secure each profile using the screws removed in Step 1.
- 3 Repeat the same procedure for the second subwoofer. Do not install the lowest screw on either profile at this stage, as these mounting points will be used to connect the two enclosures. If already installed, remove the lowest screws before proceeding.
- 4 Carefully place the second subwoofer on top of the first one. Ensure that the feet of the upper enclosure are correctly seated in the recesses on the top panel of the lower enclosure. Align the mounting kit profiles and secure the connection by inserting and tightening the remaining screws on both sides.

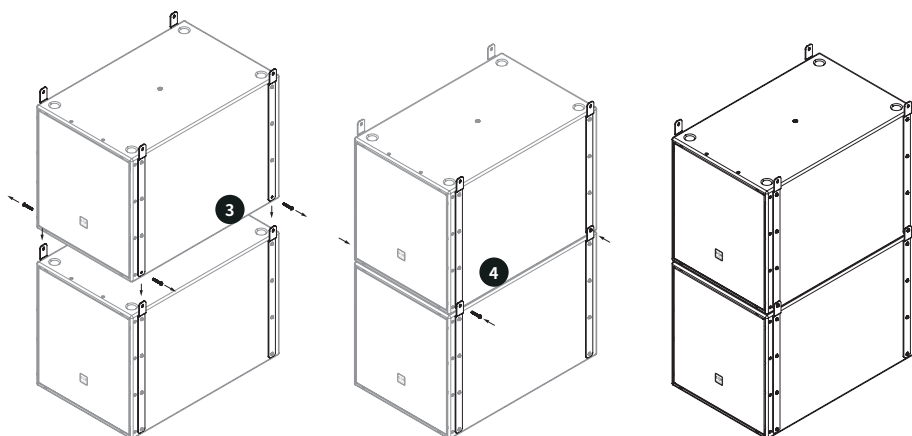


Figure 3b. B 18 WP - Using the mounting kit.

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INSTALLATION FULL-RANGE STACK

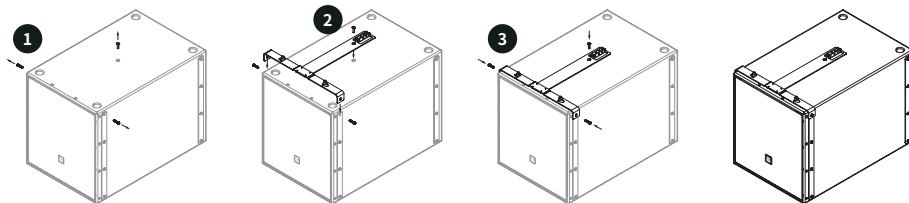


Figure 4a. B 18 WP - Using the mounting kit and stacking frame.

- 1 Remove the upper screw from both front mounting profiles and the centre screw from the top panel of the subwoofer.
- 2 Position the stacking frame as shown and align its mounting holes with the centre threaded insert and the profile mounting points from which the screws were previously removed.
- 3 Reinstall the screws removed in Step 1 and tighten them securely.
- 4 Remove the two side locking pins from the loudspeaker enclosure to be stacked (e.g. M3 MAX WP). Carefully place the enclosure onto the installed stacking frame. Ensure that the mounting tabs of the stacking frame are aligned with the locking-pin holes in the enclosure and that the enclosure is seated level.
- 5 Reinsert the locking pins through the mounting tabs of the stacking frame and into the corresponding locking-pin receptacles on the enclosure.
- 6 Verify that the locking pins are fully inserted and move freely without obstruction
- 7 Rotate the locking pins until they engage with an audible click. When properly locked, the pin heads will sit flush with the side of the enclosure and cannot be released by pulling on them.

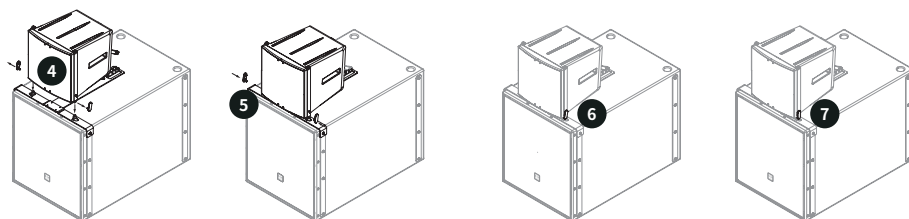


Figure 4b. B 18 WP - Using the mounting kit and stacking frame.

Before operation, verify that:

- The stacking frame is securely fastened to the subwoofer.
- All mounting screws are fully tightened.
- Both locking pins are correctly engaged.
- The loudspeaker enclosure is level and securely seated on the stacking frame.
- No excessive movement exists between the enclosure and the subwoofer.



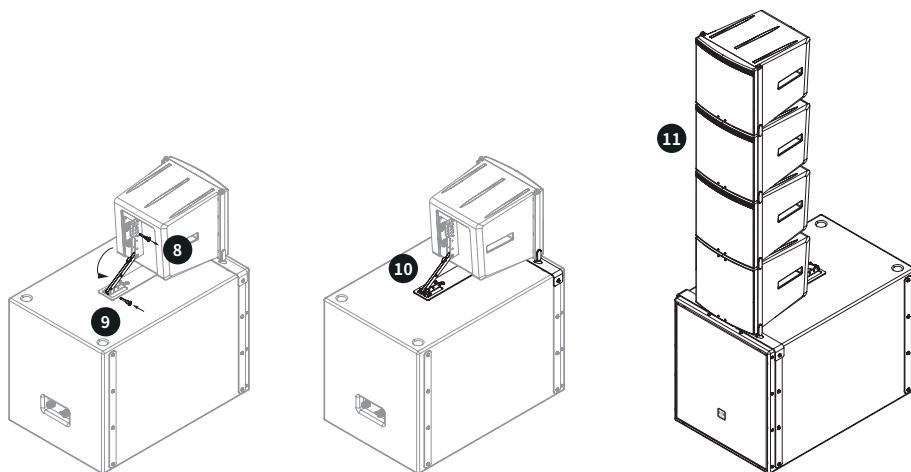


Figure 4c. B 18 WP - Using the mounting kit and stacking frame.

- 8 Remove the locking pin and rotate the rear linking strut from its transport position until it is fully extended. Ensure that the strut moves freely and reaches its designated stacking position without obstruction.
- 9 Align the linking strut with the mounting slot on the ground stack plate. Insert and fully lock the designated locking pin to secure the strut to the plate. Verify that the connection is correctly seated.
- 10 Check that the linking strut is correctly attached to the ground stack plate and that all fastening hardware is fully engaged and tightened. The enclosure must be mechanically secured and stable before additional array elements are installed.
- 11 Install additional array modules in accordance with the system rigging procedure. Ensure that all front and rear rigging points are correctly aligned, engaged and secured before adding the next cabinet. Continue assembly until the required array configuration has been achieved.

Before operation, verify that:

- All fixing screws, locking pins and rigging components are correctly installed and secured.
- The ground stack assembly is stable and positioned on a suitable load-bearing surface.
- The maximum permissible number of array elements is not exceeded.
- All mechanical connections have been inspected and approved in accordance with the applicable safety requirements.



Failure to correctly secure rigging components may result in equipment damage, serious injury or death. Always follow the specified rigging procedures and observe the load limitations.

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INSTALLATION FLOWN ARRAY

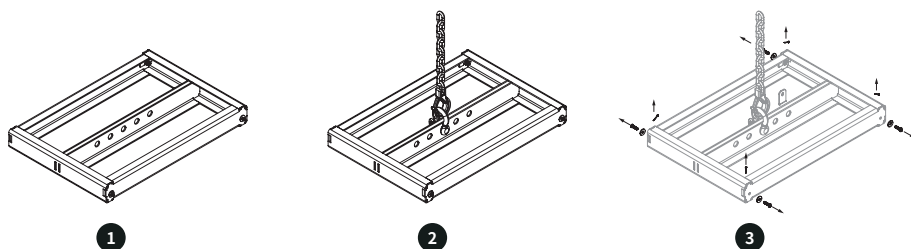


Figure 5a. B 18 WP - Installing the bumper frame.

- 1 Place the bumper frame on a stable, level surface and inspect all rigging components for damage or excessive wear. Ensure that all locking pins/screws and fastening points are present and operational.
- 2 Connect the hoist hook or motor chain to the designated suspension point on the bumper frame. Verify that the suspension hardware is correctly installed and rated for the intended load.
- 3 Remove the locking pins and screws from the bumper frame mounting points as shown. Retain all pins and screws for reinstallation during the assembly process.
- 4 Using the hoist, carefully lower the bumper frame onto the top of the B 18 WP subwoofer. Align the bumper frame mounting points with the corresponding rigging points on the enclosure.
- 5 Insert the locking screws through the front mounting points and insert the locking pins. Ensure that each pin/screw is fully engaged and secured.
- 6 Insert the remaining locking screws through the rear mounting points and insert the locking pins. Confirm that all pins are correctly seated and locked in position.
- 7 Inspect all attachment points and verify that:
 - All locking pins are fully inserted and secured.
 - The bumper frame is correctly aligned with the subwoofer.
 - No excessive movement exists between the bumper frame and enclosure.
 - All rigging hardware is free from visible damage.

The bumper frame is now securely attached to the B 18 WP subwoofer and ready for the installation of additional array elements in accordance with the system rigging instructions.

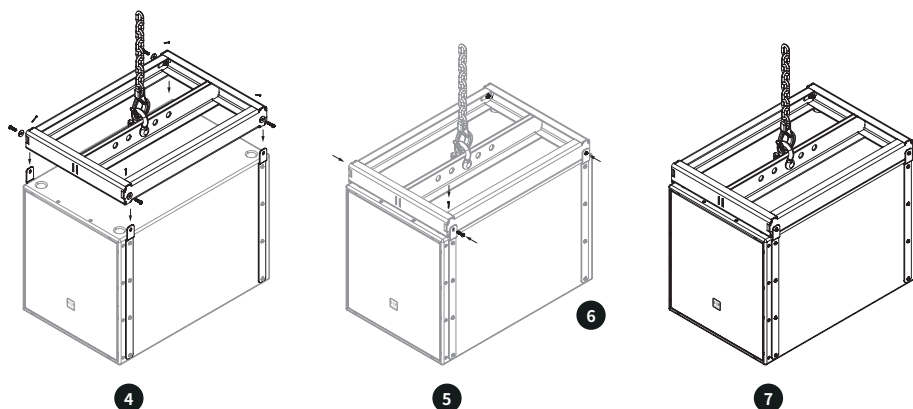


Figure 5b. B 18 WP - Installing the bumper frame.



Before lifting the assembly, ensure that all rigging components are correctly installed and that the total load does not exceed the Working Load Limit (WLL) specified for the bumper frame and associated rigging hardware. Failure to follow approved rigging procedures may result in equipment damage, serious injury, or death.

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SPECIFICATIONS B 18 WP | B 18 WP BF

TECHNICAL SPECIFICATIONS

B 18 WP	
ACOUSTICAL	
Frequency range (-3 dB) ¹	40 Hz - 130 Hz
Frequency range (-6 dB) ¹	33 Hz - 150 Hz
Frequency range (-10 dB) ¹	29 Hz - 160 Hz
Coverage angles (-6 dB) [H x V]	Omnidirectional
Nominal impedance	8 Ω
Sensitivity ²	99 dB
Peak power	3200 W
Continuous power ³	800 W
Maximum Peak SPL ⁴	140 dB
System type	1-way passive system
Crossover frequency	-
Transducers	1 × 18" driver (4" voice coil)
Enclosure	Vented box
Connectors	Input signal: PG11, wire Diameter Range: 5-10mm
Wiring	PIN1: Positive Terminal (+), PIN2: Negative Terminal (-)
MECHANICAL	
Product dimensions [H x W x D]	512 x 570 x 793 mm
Net weight	48 kg
Packaging dimensions [H x W x D]	890 x 615 x 701 mm
Total weight	55.3 kg
Cabinet	15 mm Birch board
Cabinet finishing	Black or white polyurea coating
Grille	Powder-coated perforated steel with acoustic waterproof and dust-proof fabric
Hardware	17 x M8 rigging points, 4 rubber feet on the bottom
Stacking	4 stacking grooves on the top
IP Rating	IP 55
ACCESSORIES	
B 18 WP BF	Bumper frame
B 18 WP Mounting/Stacking Kit(s)	Mounting/Stacking Kit(s)
B 18 WP BF	
MECHANICAL	
Product dimensions [H x W x D]	80 x 517 x 750
Net weight	19.3 kg
Max. load limit	33.75 kN

¹ Measured with a 6th-order Butterworth low-pass filter applied at 130 Hz

² Half space, 1W / 1m, on axis

³ According to EIA-426B Standard (based on RMS Voltage)

⁴ Max Peak SPL = Sensitivity + 10log10(Continuous Power) + 12 dB Crest Factor

All product specifications are subject to change without notice.

MECHANICAL DRAWINGS B 18 WP

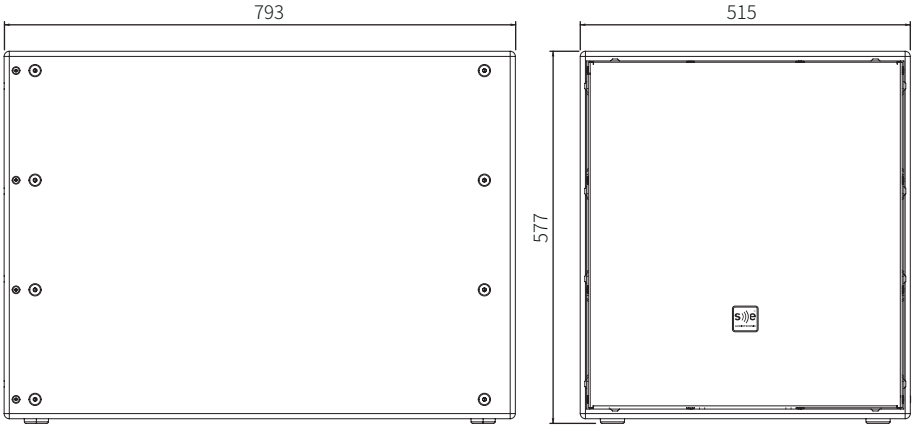


Figure 6a. B 18 WP views and dimensions. Annotations given in millimeters.

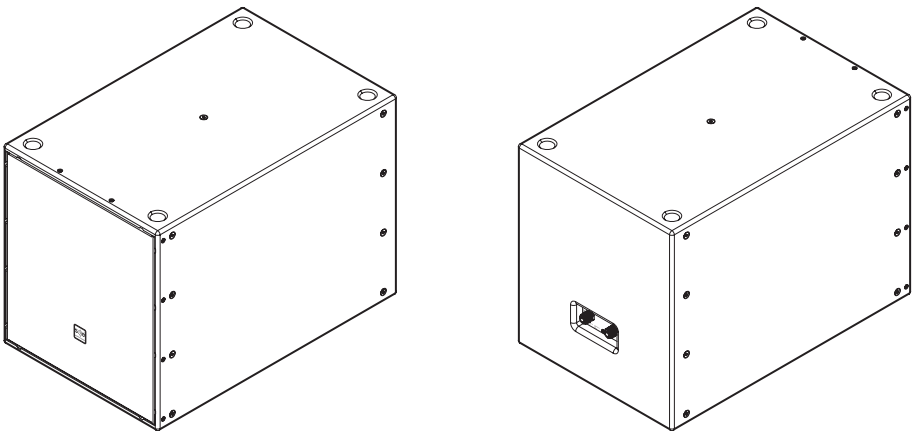


Figure 6b. B 18 WP isometric views and dimensions. Annotations given in millimeters.

MECHANICAL DRAWINGS B 18 WP BF

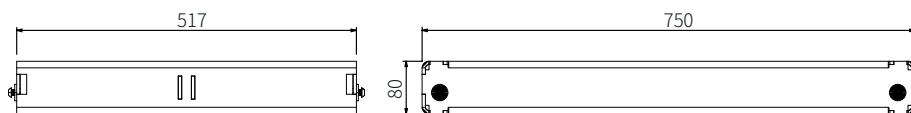


Figure 7a. B 18 WP BF views and dimensions. Annotations given in millimeters.

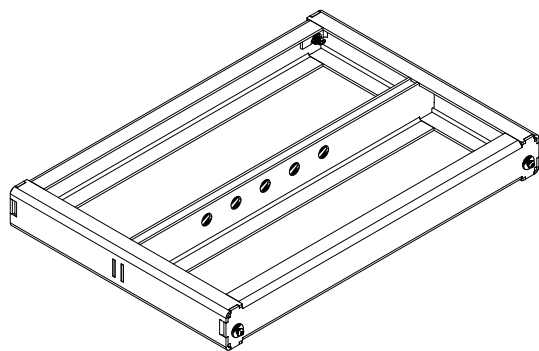
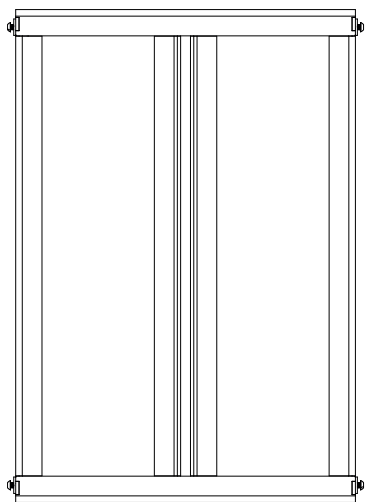


Figure 7b. B 18 WP BF isometric views and dimensions. Annotations given in milli

MANUFACTURER'S DECLARATIONS

WARRANTY

SE AUDIOTECHNIK gives a warranty of 2 to 4 years (depending on the country and region) on SE AUDIOTECHNIK products. Please refer to the warranty card or the official SE AUDIOTECHNIK website to find out which warranty period applies in your region. If you have any questions, SE AUDIOTECHNIK Support will be happy to help. The warranty period begins with the purchasing date. The warranty applies to material or production defects that occur. Defective components or products will be repaired or replaced free of charge by SE AUDIOTECHNIK at its own sole and exclusive discretion during the warranty period.

NOTE

SE AUDIOTECHNIK does not guarantee the uninterrupted and fault-free operation of the products.

The warranty does not apply:

- For wear parts and natural abrasion.
- For damage, defects or malfunctions caused by improper use or use for other than the intended purpose.
- For damage, defects and malfunctions caused by the use of force or environmental conditions.
- For unauthorized repair efforts.

REQUESTING WARRANTY SERVICES

The request for warranty service can be submitted to SE AUDIOTECHNIK or to the dealer from whom the SE AUDIOTECHNIK products were purchased.

In order to claim warranty service, you must provide proof of purchase and allow SE AUDIOTECHNIK to examine the warranty claim (e.g. sending in the products, examination at an authorized partner). Without proof of purchase, the provision of a warranty service can be rejected.

IMPORTANT NOTE

Your statutory warranty rights are not affected by this warranty. Furthermore, this warranty has no influence on any agreements you may have concluded with a dealer.

LIMITATION OF LIABILITIES

SE AUDIOTECHNIK is not liable for personal injury, material damage or claims resulting from inappropriate, dangerous or incorrect use of the products.

DECLARATION OF CONFORMITY

This device complies with the essential requirements and other relevant specifications of the directives of the countries in which the product is sold. The detailed declaration and the list of these directives and harmonized standards are provided on the website <https://se-audiotechnik.de> or <https://se-audiotechnik.com>. Included are all product variants, as long as they comply with the original technical design and have not been subsequently modified mechanically, electrically or in their original condition.

CORRECT DISPOSAL OF PRODUCTS (ELECTRICAL WASTE)

SE AUDIOTECHNIK products must not be disposed of with other waste at the end of their service life to avoid possible harm to the environment or human health.

Private users can contact either the dealer from whom they purchased the products or the local authority for information on environmentally friendly disposal. Commercial users can contact their supplier, if they have any questions about disposal.

DECLARATION ON WEEE POLICY

SE AUDIOTECHNIK products are designed and manufactured with high quality materials and components that are intended to be recyclable and/or reusable.

SE AUDIOTECHNIK is WEEE registered in accordance with WEEE policy.

LICENSES AND COPYRIGHT

SE AUDIOTECHNIK products may directly or indirectly contain software that is necessary or complementary for their use. These software components may be SE AUDIOTECHNIK own developments or licensed and open-source products and solutions or a combination of the mentioned. In the case of open-source licenses, SE AUDIOTECHNIK will provide a copy of the source code and the full text of the corresponding license upon request in accordance with the license terms. Excluded from this and protected by copyright are own and licensed software solutions and software components.

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Designed in Germany

Version 2026/06

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