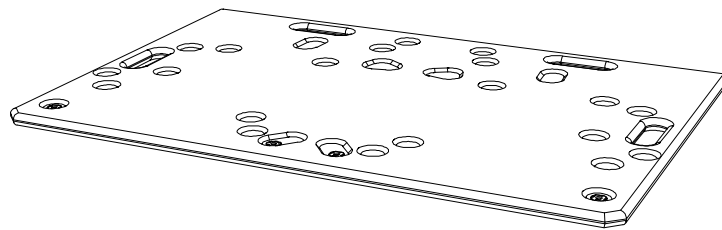


ARBT24

Assembly Instructions



Introduction

Thank you for choosing a high-quality product “MADE IN GERMANY” from the brand TWAUDIÖ.

The ARBT24 arrayboard is an accessory for the T24(N) and B30 loudspeaker.

It is characterized by a subtle look, a remarkable size to weight ratio and ease of use.

If you lend your product to another party, inform that party of the safety-related operating procedures and hand over this assembly guide. If you require additional copies of this manual, you can obtain them free of charge from TWAUDIÖ or download them from www.twaudio.de

Instructions in this setup manual

Strictly adhere to the instructions contained in this operating manual that are marked as follows:



This symbol in combination with the signal word “Warning” identifies a potentially hazardous situation. Failure to comply with this safety instruction can lead to serious injury or even death.



This symbol in combination with the signal word “Warning” identifies a potentially hazardous situation. Failure to comply with this safety instruction can lead to serious injury or even death.



This symbol in combination with the signal word “Caution” identifies a potentially hazardous situation. Failure to comply with this safety instruction can lead to light or moderate injury.



This symbol in combination with the signal word “Note” identifies a potentially hazardous situation. Failure to comply with this safety instruction can lead to product damage.



This symbol in combination with the signal word “Tip” identifies additional information or notes that will simplify working with TWAUDIÖ products on the basis of practical experience.

Notes on the products

**Read manual
before use!**

Before using the arrayboard, carefully read the assembly instructions and keep the instructions in a safe place together with the ARBT24 arrayboard.

General Information

Assembly Guide: OM-ARBT24
Version 2.0 d, 02/2023
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All information contained in this operating manual was correct to the best of our knowledge at the time of printing.

Quality warranties or assurance of suitability for a certain type of use based on the technical specifications, dimensions and weights are not granted by TWAMBO.

TWAMBO also shall not assume liability for any secondary damage (property damage and/or personal injury) nor for the failure to comply with this operating manual!

TWAMBO reserves the right to update this document based on recent developments.

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1. Safety | Intended use

Please adhere to the following safety instructions to avoid risks when using accessories.

The ARBT24 arrayboard was developed for use in professional sound systems. The arrayboard may only be used by trained and qualified personnel.

Note the operating modes described in this assembly instructions. Other uses are not permissible.

Damage caused by improper use is not covered by TWAMBO.



Before every operation, check the scope of delivery of the ARBT24 arrayboard for its completeness and ensure that all parts are in perfect condition.



The ARBT24 arrayboard may only used with the T24(N) and B30 loudspeaker.

This assembly instructions describes how to use the ARBT24 arrayboard correctly. Any other use shall be deemed improper and may result in damage or even injury.

Modifications or alterations to individual parts of the ARBT24 arrayboard are not permitted!
Danger to life!



The ARBT24 arrayboard is an accessory designed both for indoor and outdoor use.



The ARBT24 arrayboard may only be used by trained and qualified personnel. Personnel must check the ARBT24 for its full suitability before each use.



When visible damage to any part of the ARBT24 arrayboard is detected, it must be decommissioned immediately.



When moving (assembling, dismantling, maintaining) the ARBT24 arrayboard, ensure sufficient space to prevent collisions with other objects.

2. Overview

2.1 Components

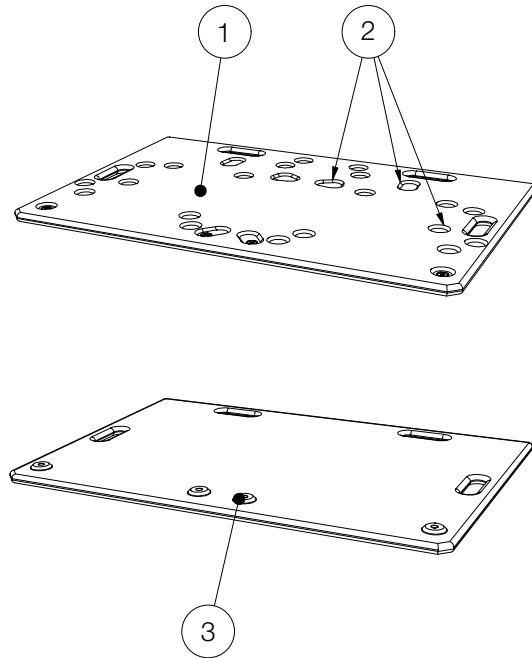


Figure 2.1 - Overview

- | | | |
|----|------------------------------|-----------|
| 1. | Arrayboard | 1 piece |
| 2. | Milling for rubber feet..... | 28 pieces |
| 3. | Rubber feet | 4 pieces |

3. Technical Data

3.1 Data sheet

maximum load capacity	2x T24(N)
Dimensions (h x w x d)	18 x 882 x 600mm [0,7 x 34,7 x 23,6 in]
Weight	6,6kg [14,55lbs]
Surface	Warnex textured paint

4. Commissioning

4.1 Setup

The ARBT24 arrayboard is designed for horizontal operation.



Make sure that all system structures are located on a firm, level surface and that the surface can bear the total weight!



Please note that setting up the system setups always requires two persons!



TWAUDIÖ recommends using only the accessories specified by TWAUDIÖ for securing and mounting loudspeakers.

4.2 Wind load



Before setting up the system outdoors, consider unexpected wind conditions at the operation site!

Disassemble your system immediately when wind speeds exceed 8 bft (34 to 40 kn / 62 to 74 kph / 38.5 to 46 mph) and secure the system components!

Make sure that there are no persons in the immediate vicinity of the system structure!



Make sure that the system structures are not operated over the audience at wind speeds in excess of 6 bft (22 to 27 kn / 39 to 49 kph / 24.2 to 30.45 mph) and that there are no persons in the immediate vicinity of the system structure!

4.3 Minimization of interferences between the T24(N) loudspeakers

To minimize interferences between the two T24(N) loudspeakers, observe the following notes:



NOTE

Note that with a distance of 30° between the T24(N) loudspeakers, you can only use horns with a horizontal coverage angle of 40° and a vertical coverage angle of 60°.



NOTE

Also note that if the distance between the T24(N) loudspeakers is 45°, you can use horns with a horizontal coverage angle of 50° and a vertical coverage angle of 90°. Alternatively, note that you can also use horns with a horizontal coverage angle of 60° and a vertical coverage angle of 40°.

4.4 General safety instructions for setting up the following groundstack variants



WARNING

Attach the ARBT24 arrayboard to the B30 loudspeakers using tension strap(s) with ratchet. Tension straps with ratchets are available in various lengths from TWAUDIÖ.



WARNING

Make sure that no unauthorized persons can access the system structures!

Cordon off the area professionally!



WARNING

Any influences on your system setup, such as leaning against objects (or people) and flying objects around, be refrained from!

4.5 Placing the ARBT24 arrayboard on the B30 loudspeakers



Note that you can place the ARBT24 arrayboard on the B30 loudspeakers in two different ways. To do this, use all four of the ARBT24 arrayboard's rubber feet and insert them into the corresponding millings for rubber feet on the two B30 loudspeakers.



Note that the four black dots represent the rubber feet on the ARBT24 arrayboard and the millings for rubber feet on the B30 loudspeakers.

4.5.1 B30 loudspeaker upright

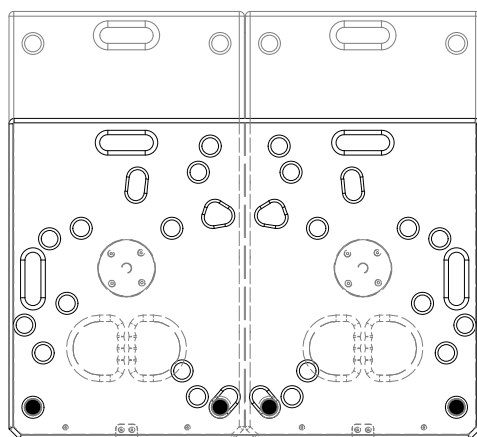


Figure 4.5.1 - ARBT24 arrayboard on B30 loudspeaker
(B30 loudspeaker under the ARBT24 arrayboard shown dashed)

4.5.2 B30 loudspeaker cross

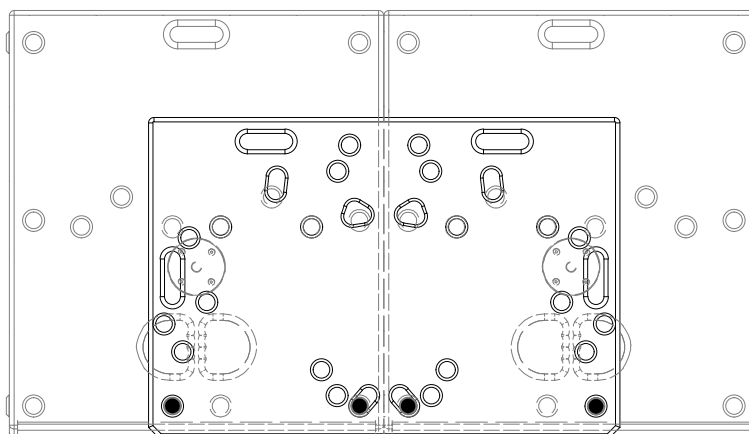


Figure 4.5.2 - ARBT24 arrayboard on B30 loudspeaker
(B30 loudspeaker under the ARBT24 arrayboard shown dashed)

4.6 System setups with two T24(N) loudspeakers on the ARBT24 arrayboard



Note that you can place two T24(N) loudspeakers side by side on the ARBT24 arrayboard in the appropriate millings for rubber feet.



Note that the four black dots represent the rubber feet on the T24(N) loudspeakers and the millings for rubber feet on the ARBT24 arrayboard.

4.6.1 0° alignment of the two T24(N) loudspeakers

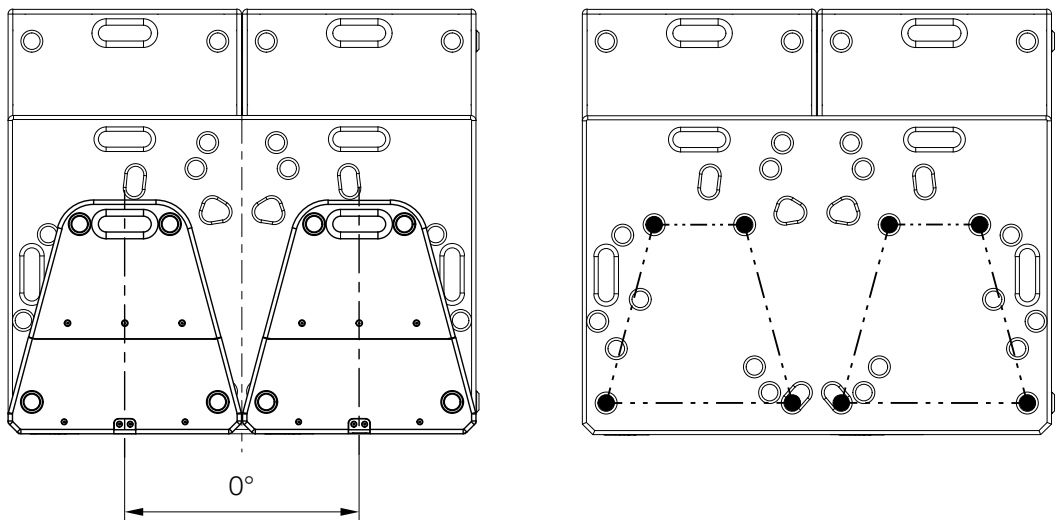


Figure 4.6.1 - 0° alignment of the two T24(N) loudspeakers

4.6.2 30° alignment of the two T24(N) loudspeakers

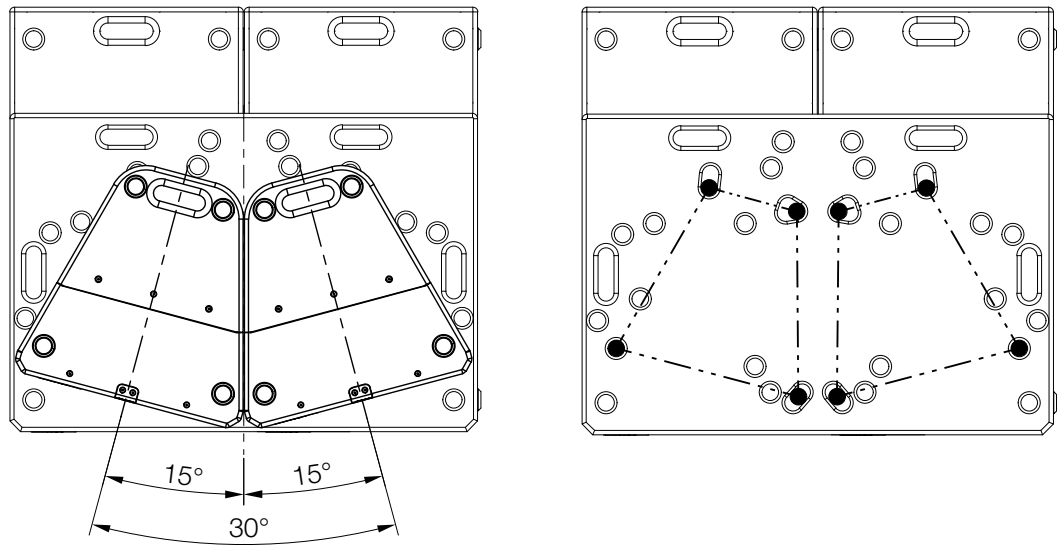


Figure 4.6.2 - 30° alignment of the two T24(N) loudspeakers

4.6.3 45° alignment of the two T24(N) loudspeakers

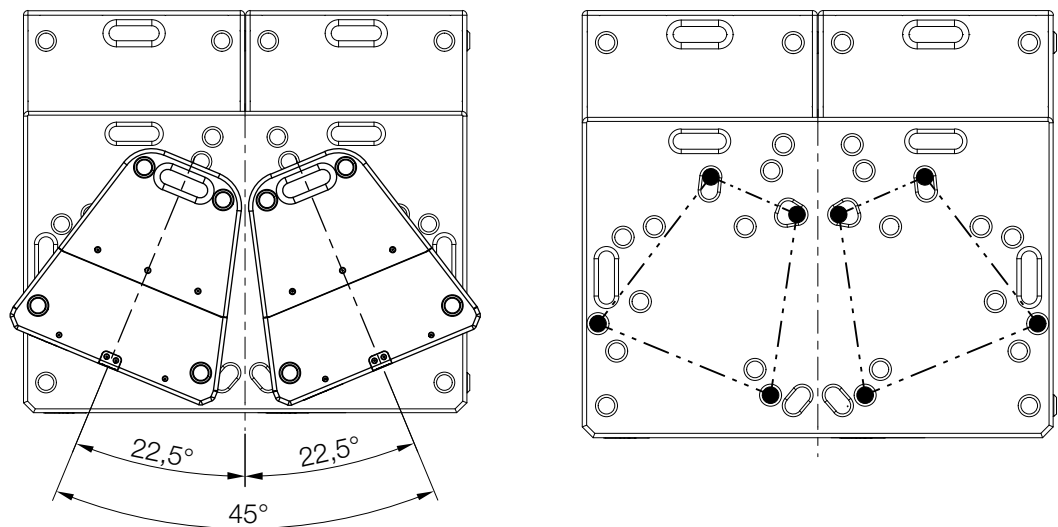


Figure 4.6.3 - 45° alignment of the two T24(N) loudspeakers

4.7 System setups with one T24(N) loudspeaker on ARBT24 arrayboard



Note that you can only place one T24(N) loudspeaker on the ARBT24 arrayboard in the corresponding millings for rubber feets for the following system setups.



Note that the four black dots represent the rubber feets on the T24(N) loudspeaker and the millings for rubber feets on the ARBT24 arrayboard.

4.7.1 30° alignment of the T24(N) loudspeaker

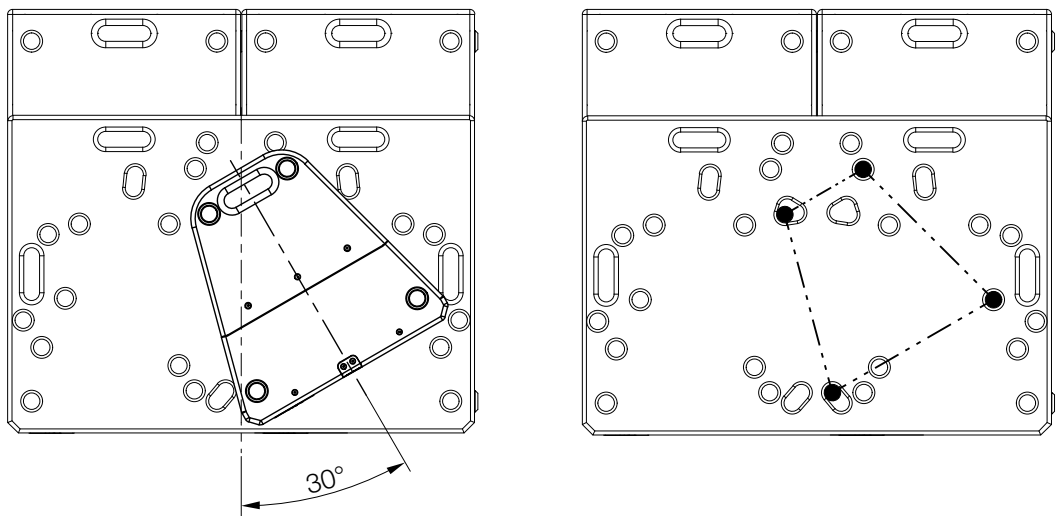


Figure 4.6.1 - 30° alignment of the T24(N) loudspeaker

4.7.2 45° alignment of the T24(N) loudspeaker

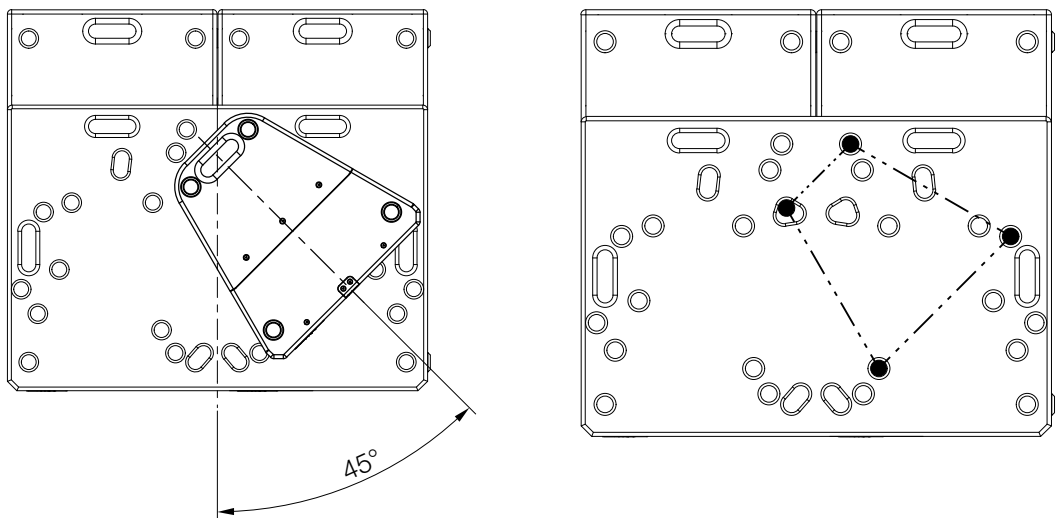


Figure 4.6.2 - 45° alignment of the T24(N) loudspeaker

4.8 Standard system setup



Note that the number of the B30 loudspeaker in this variant is two pieces side by side, as well as two pieces on top of each other.



1. Place all four B30 loudspeakers close together so that the ARBT24 arrayboard with the rubber feet fit exactly into the millings of rubber feet of the top two B30 loudspeakers.



2. Then place the two T24(N) loudspeakers on the ARBT24 arrayboard according to your application and secure the system setup against falling over!



Figure 4.8 - Standard system setup

4.9 System setup with 4x B30 loudspeakers cross



Note that the number of the B30 loudspeaker in this variant is two pieces side by side, as well as two pieces on top of each other.



1. Place all four B30 loudspeakers close together so that the ARBT24 arrayboard with the rubber feet fit exactly into the millings of rubber feet of the top two B30 loudspeakers.



2. Then place the two T24(N) loudspeakers on the ARBT24 arrayboard according to your application and secure the system setup against falling over!

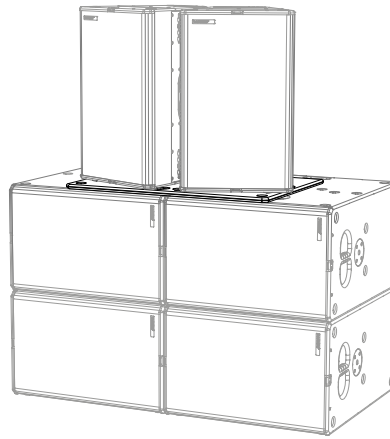


Figure 4.9.1 - System setup with B30 loudspeakers cross

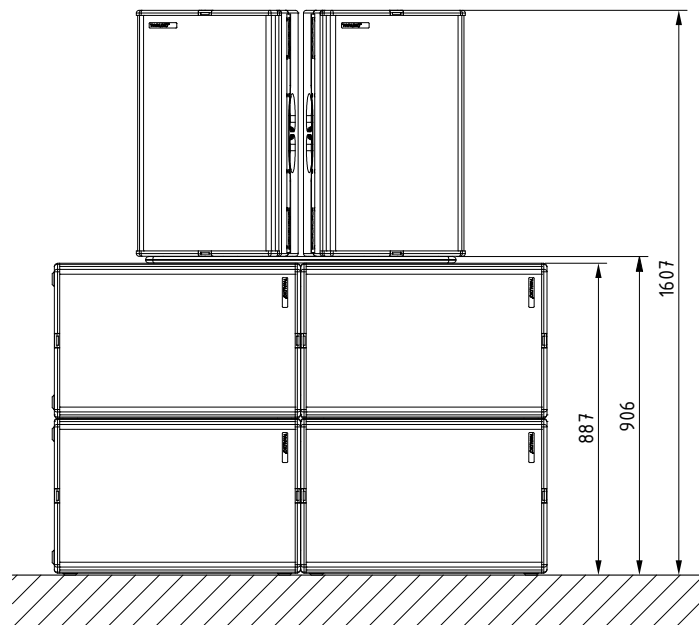


Figure 4.9.2 - Setup dimensions with B30 loudspeakers cross

4.10 System setup with BSX loudspeaker and 4x B30 loudspeakers cross



1. Place the BSX loudspeaker crosswise on the floor.
2. Then place two of the four B30 loudspeakers crosswise with the rubber feet in the millings for rubber feet of the BSX loudspeaker so that they fit exactly.
3. Then place the remaining two B30 loudspeakers on top of the first two B30 loudspeakers.
4. Then place the ARBT24 arrayboard with the rubber feet into the millings for rubber feet of the two upper B30 loudspeakers so that they fit exactly.



5. Then place the two T24(N) loudspeakers on the ARBT24 arrayboard according to your application and secure the system setup against falling over!



Figure 4.10.1 - System setup BSX loudspeaker with B30 loudspeakers cross

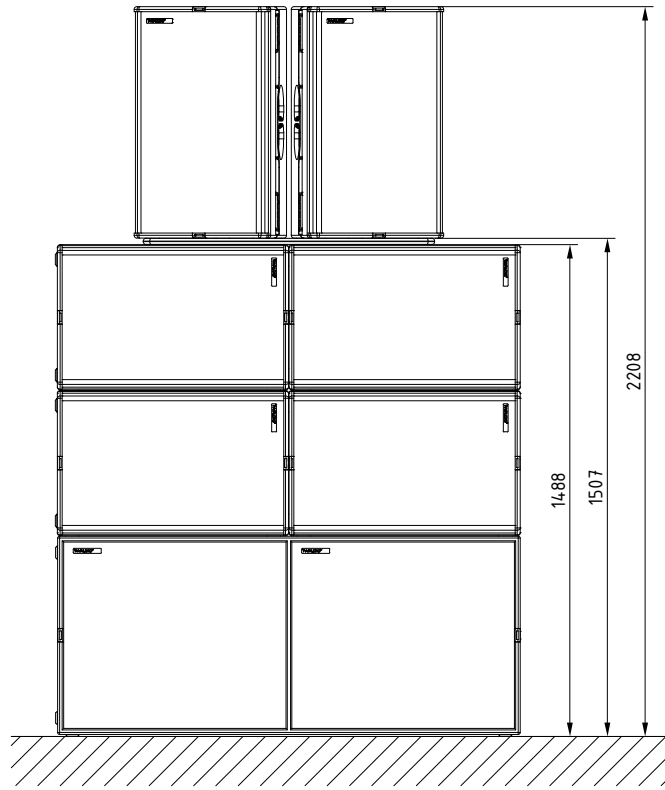


Figure 4.10.2 - Setup dimensions BSX loudspeaker with B30 loudspeakers cross

5. Transport and Storage



NOTE

Ensure that the surfaces of the arrayboard are not damaged during transport and storage. Moisture can penetrate through exposed wood surfaces and cause the wood to swell.

This is why the product should be transported and stored in a safe, careful, dry and largely dust-free manner.

The original packaging is unsuitable as permanent storage and transport packaging.

6. CE Declaration of Conformity

Copy and translation of the original CE Conformity Declaration:



We hereby declare that the below-referenced components by virtue of their design and construction, and in the configuration placed on the market by us, satisfy the safety and health requirements of the applicable EC directives. This declaration becomes invalid in case of modifications that have not been approved by us.

This declaration applies to the following components

- ARBT24

as well as all model variants based on these, provided that they correspond to the original factory models and have not been technically modified in any way.

Applicable directives:

- 2001/95/EG

Applicable national standards and technical specifications:

- DIN EN 18800
- DIN EN ISO 12100
- DGUV Vorschrift 17 und 18

Berlin, Germany, January 1st, 2021


Bernhard Wüstner

7. Disposal

If you have any question regarding the disposal of used devices, please contact us under the following telephone number:

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In countries outside of the European Union, comply with local regulations.

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