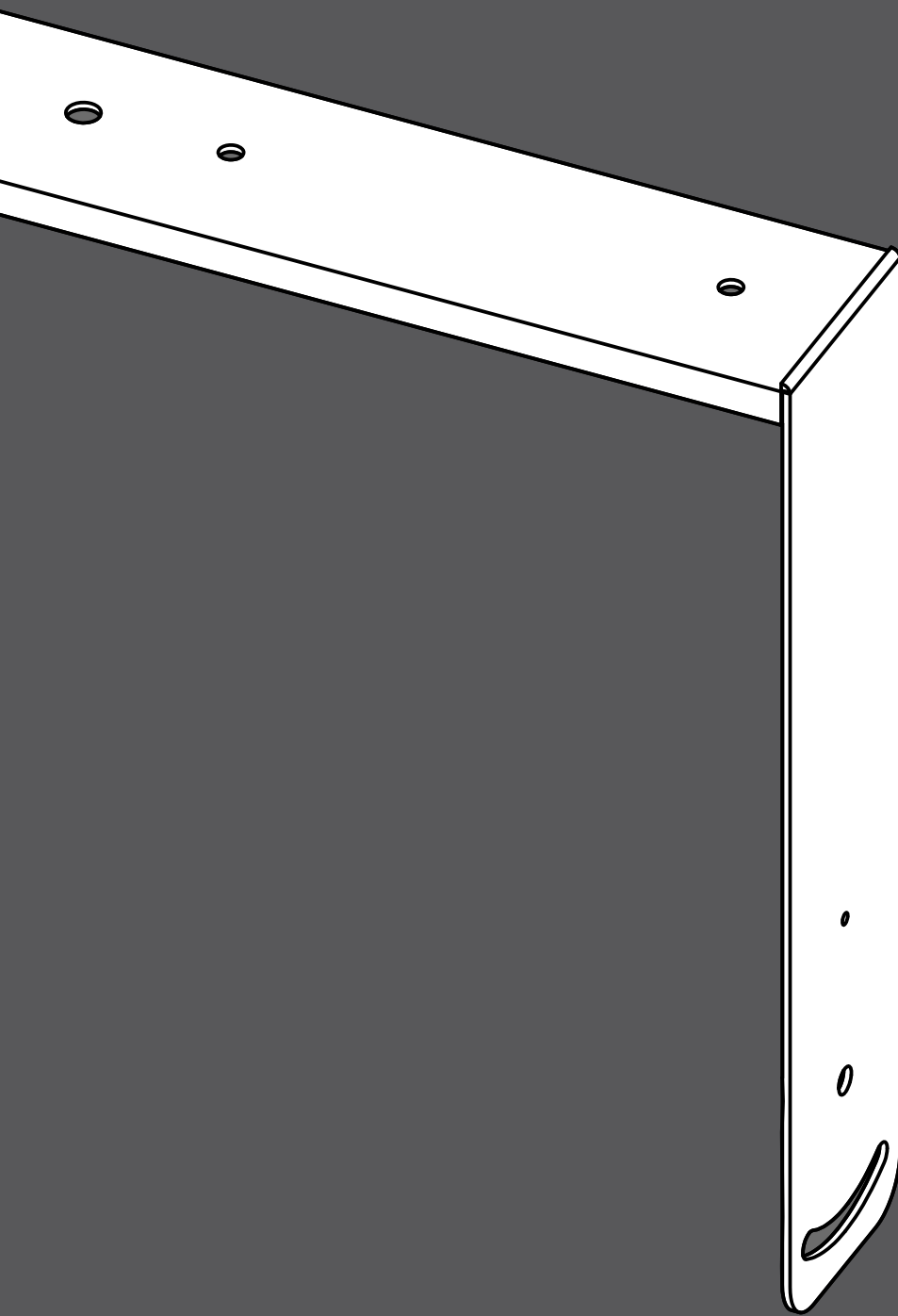


Z

Z5410/12 **Mounting instructions 1.2 en**



General information

Z5410/12 Mounting instructions

Version: 1.2 en, 03/2020, D2961.EN .01

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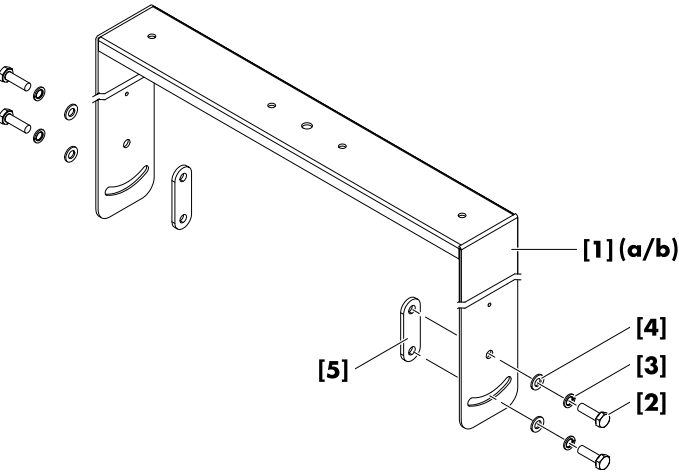
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1 Z5410/12 Horizontal bracket 18S/27S/12S-SUB



Scope of supply

1.1 Scope of supply

Please verify the shipment for completeness and proper condition of the items.

Qty.	d&b Code	Description
1	Z5410	d&b Horizontal bracket 18S/27S-SUB [1a]
1	Z5412	d&b Horizontal bracket 12S-SUB [1b]
Each including:		
4		Hex head bolt M10 x 25 [2]
4		Spring washer [3]
4		U washer [4]
2		Rubber pad [5]
1	D2961.EN .01	Mounting instructions

Weight Z54103.8 kg / 8.4 lb
Weight Z54123.1 kg / 6.8 lb

1.2 Safety precautions

General safety

Installation and setup should only be carried out by qualified and authorized personnel observing the valid national Rules for the Prevention of Accidents (RPA).

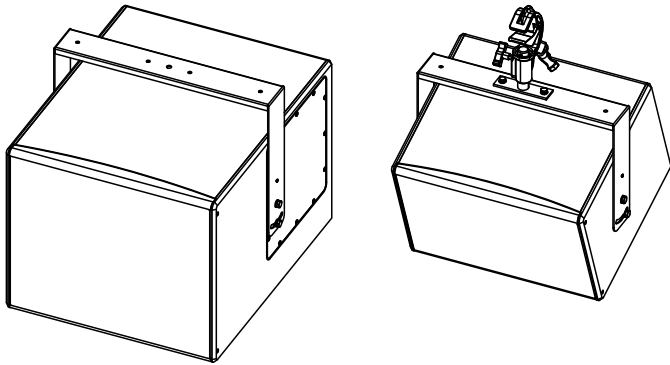
It is the responsibility of the person installing the assembly to ensure that the suspension/fixing points are suitable for the intended use.

Always carry out a visual and functional inspection of the items before use. In case you have any doubt as to the proper functioning and safety of the items, these must be withdrawn from use immediately.

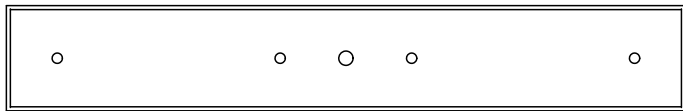
Load safety information

The maximum permitted working load of the Z5410 Horizontal bracket 18S/27S-SUB is 41 kg (90 lb) (according to BGV C1) which implies the weight of one 18S-SUB or 27S-SUB loudspeaker, respectively.

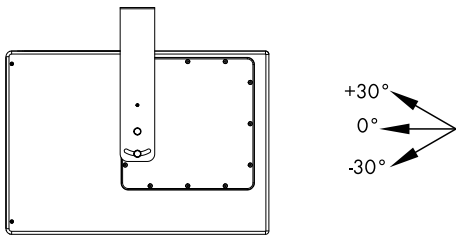
The maximum permitted working load of the Z5412 Horizontal bracket 12S-SUB is 16 kg (35 lb) (according to BGV C1) which corresponds to the weight of one 12S-SUB loudspeaker.



Z5410/Z5412 Rigging examples



Z5410/Z5412 Mounting holes



1.3 Intended use

The d&b Z5410 Horizontal bracket 18S/27S-SUB and the Z5412 Horizontal bracket 12S-SUB must only be used in conjunction with the d&b xS-Series subwoofers 18S/27S-SUB and 12S-SUB as described in these mounting instructions.

The brackets can be:

- directly mounted to ceilings.
- horizontally flown and mounted to bars and truss with a tube diameter of up to 70 mm (2.75") using the Z5010 TV spigot with fixing plate and the Z5012 Pipe clamp.

Note: Refer to the specific mounting instructions for assembly and operation of these accessories.

1.4 Mounting options and angle settings

Mounting holes are provided on the tie bar of the bracket.

One 9 mm (0.35") hole is provided at each end of the tie bar for fixing the bracket directly to the ceiling.

Two 9 mm (0.35") holes at the d&b standard spacing of 115 mm (4.5") are provided to allow the attachment of the Z5010 TV spigot.

Each end of the bracket is equipped with a semi-circular slot to allow the subwoofer to be vertically aligned within a range of 60° ($\pm 30^\circ$ as standard). However, when mounting 18S or 27S subwoofers directly to the ceiling, the possible vertical angles of the two subwoofers differ due to the different positions of the threaded inserts (center of gravity). The following angles can be set:

- **18S-SUB:** $+30^\circ / -18^\circ$.
- **27S-SUB:** $\pm 23^\circ$.

1.5 Assembly

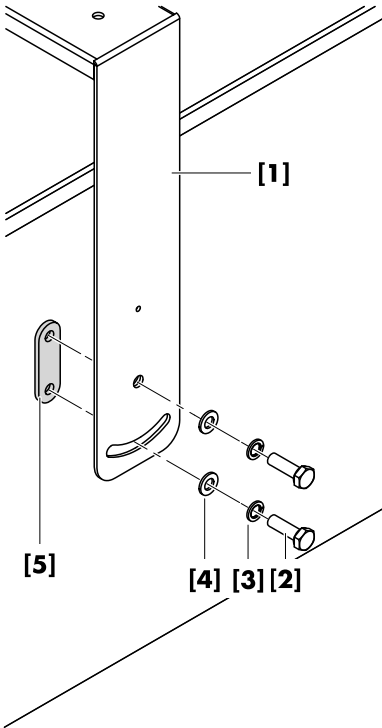
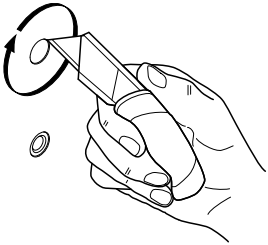
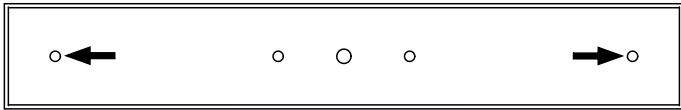
Attaching the bracket to the ceiling

NOTICE!

Only use mounting parts (fixing anchors and screws) that are suitable for the intended application.

Observe the occurring extraction forces acting on the fixing anchors and screws. The rated extraction forces for the respective cabinet are listed in the following table.

Application	Rated extraction forces		
	12S-SUB	18S-SUB	27S-SUB
Ceiling mounting	200 N	400 N	500 N



To attach the bracket to the ceiling, use the holes shown in the graphic opposite to provide adequate support.

A corresponding fixing template is supplied with these mounting instructions. Refer to ⇒ Chapter 2 "Fixing templates" on page 7.

Preparing the cabinet

The top and bottom panels of the loudspeaker cabinet are each equipped with a pair of M10 threads. The threads are covered by dummy caps in cabinet color.

To remove the cap, proceed as follows:

1. Cut out the cap along the recessed spline using an appropriate cutting knife.
2. Carefully take off the cap and ensure the cabinet coating is not peeled off.

Attaching the cabinet to the bracket

NOTICE!

Only use the supplied and specified screws [2], otherwise there is a risk of damaging the threaded inserts.

Always use the spring washers [3] and U washers [4] to prevent the bolts from slackening.

Always place the rubber pads [5] between the bracket and the cabinet to prevent the cabinet coating from scratching during assembly and adjustment.

Tools required:

- Open-ended spanner/wrench (size #17)

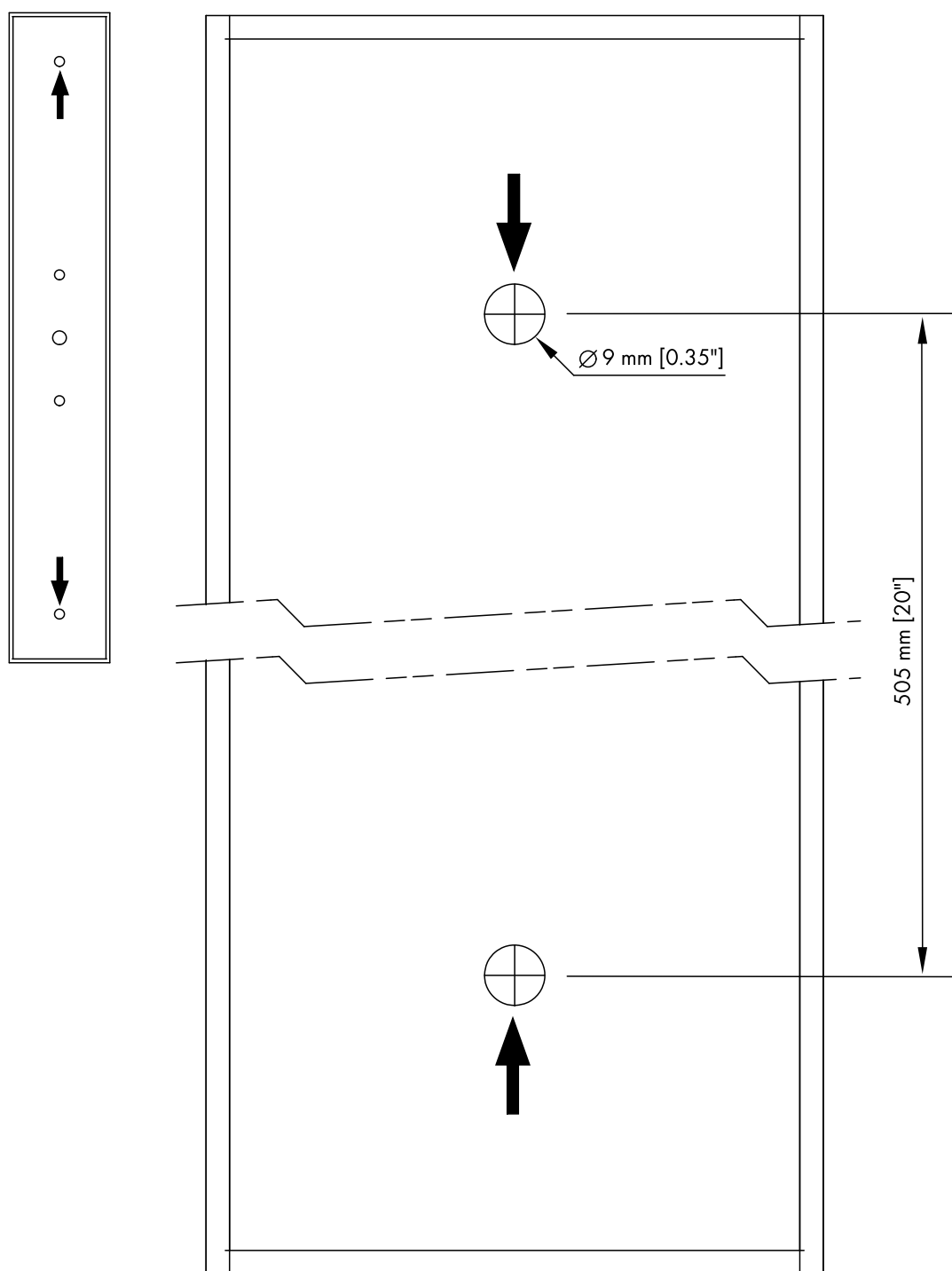
1. Starting on one side, first align one hole of the rubber pad with one threaded insert.
2. Insert one screw together with the spring and U washers.
3. Align the second hole of the rubber pad with the second threaded insert.
4. Insert the second screw together with the spring and U washers.
5. Tighten both screws.
 - ↳ This will simplify the attachment of the rubber pad on the opposite side.
6. On the opposite side, proceed in the same manner.

1.6 Adjustments

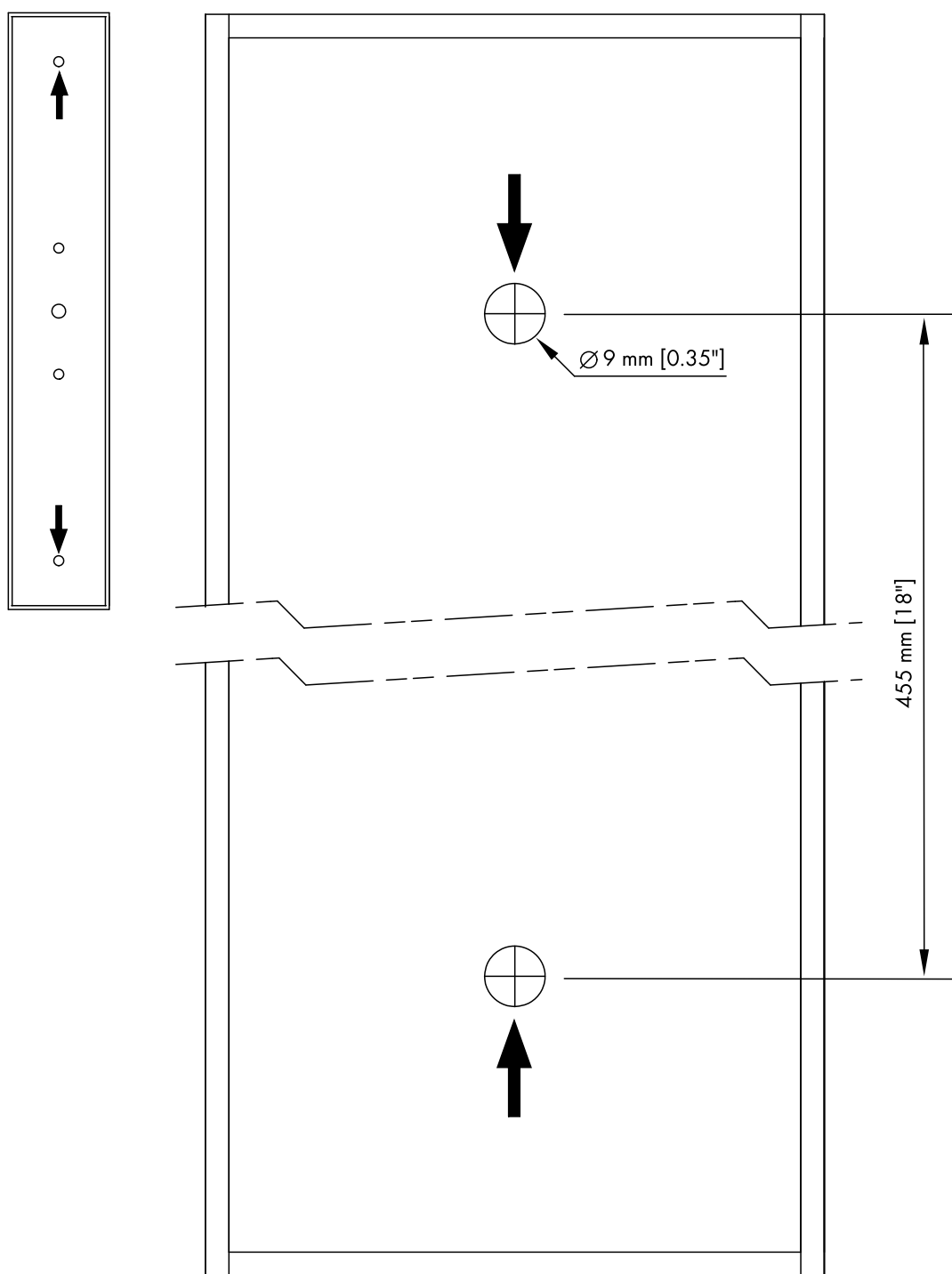
To align the cabinet to its desired angle, proceed as follows:

1. Slightly slacken all screws.
2. Align the cabinet to its desired angle.
3. Finally tighten all screws.

2 Fixing templates

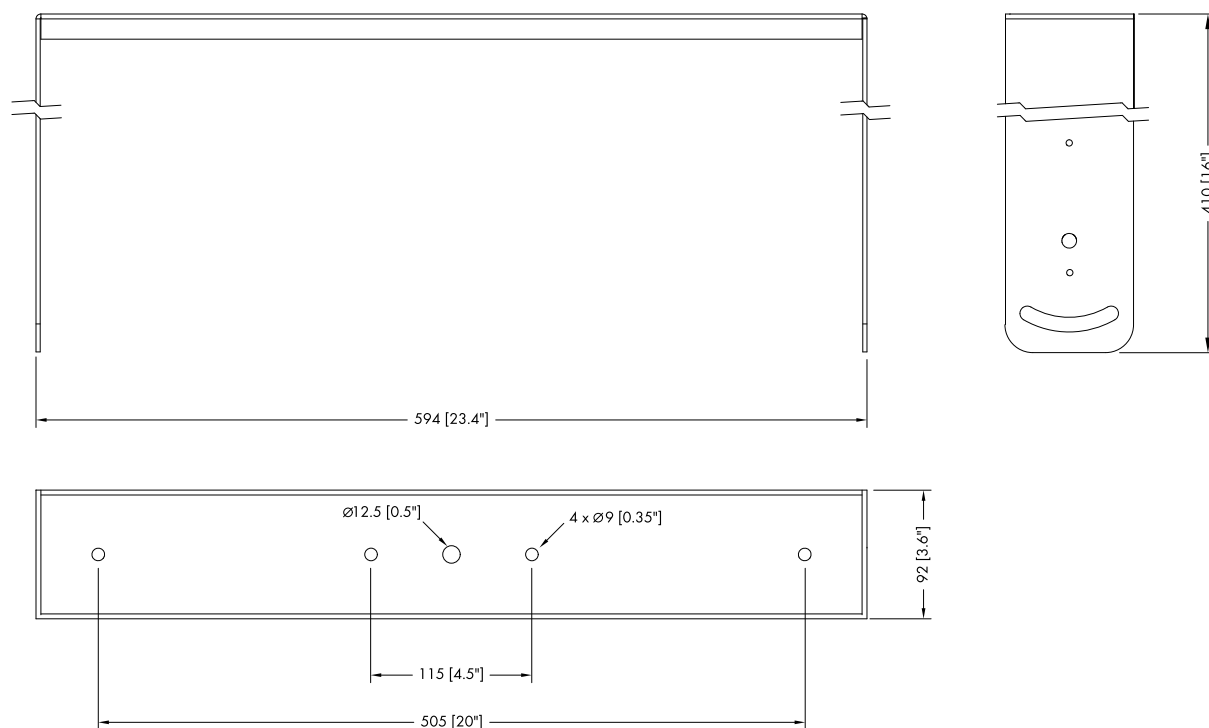


Z5410 Horizontal bracket 18S/27S-SUB, fixing template

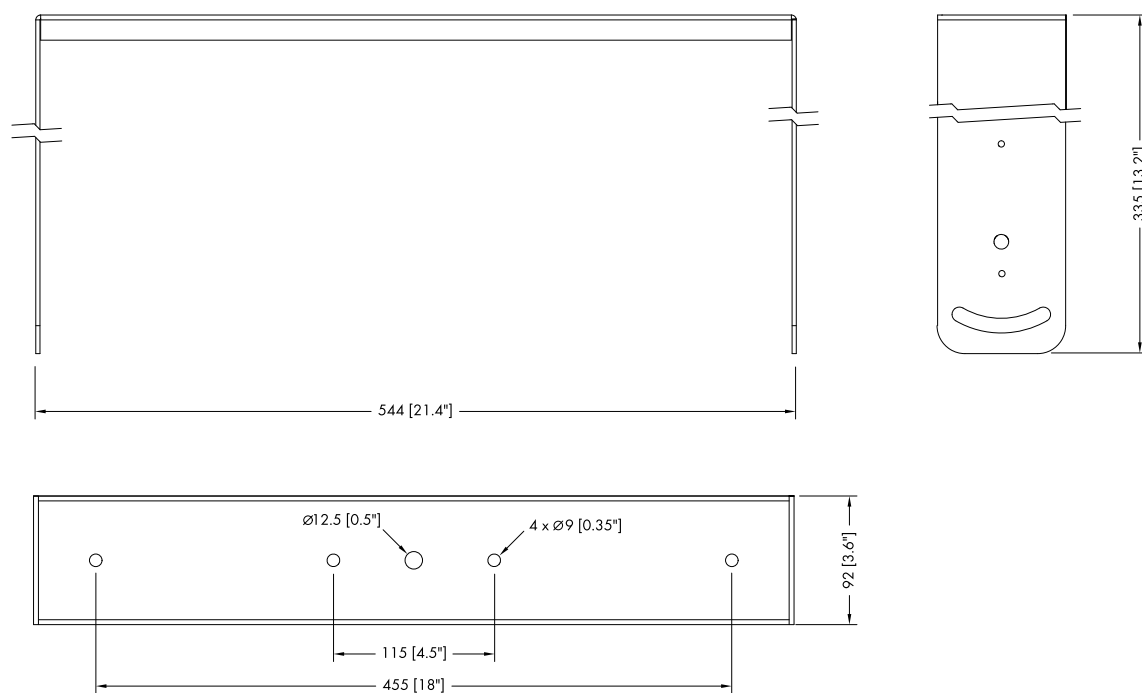


Z5412 Horizontal bracket 12S-SUB, fixing template

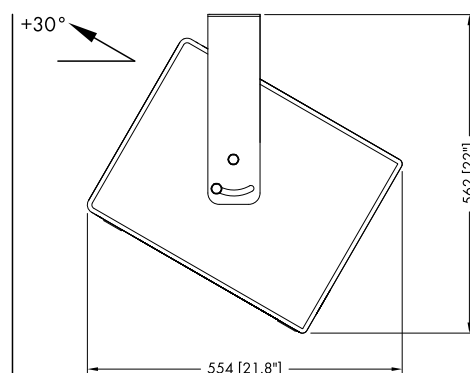
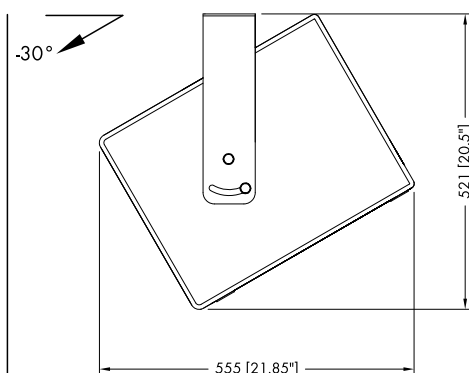
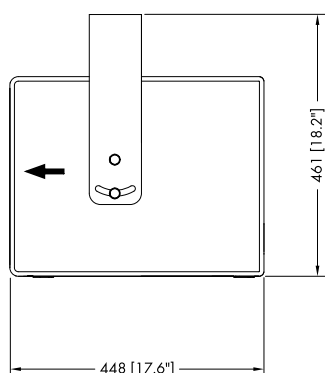
3 Built-in dimensions



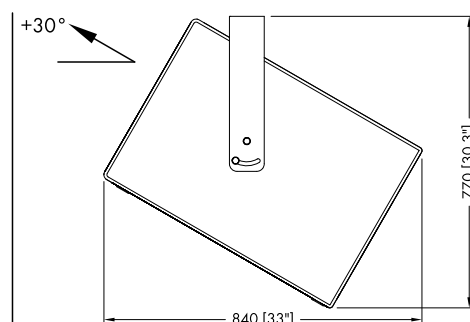
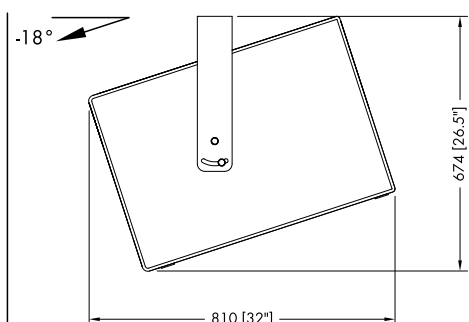
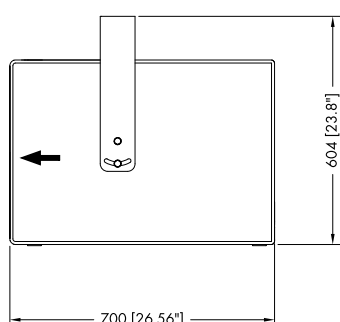
Z5410 Horizontal bracket 18S/27S-SUB, dimensions in mm [inch]



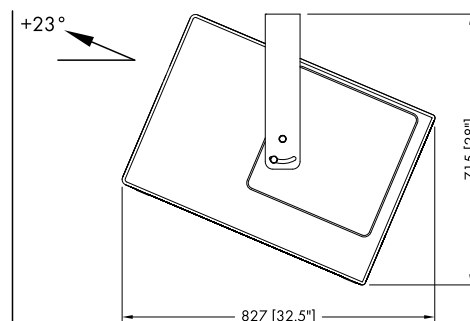
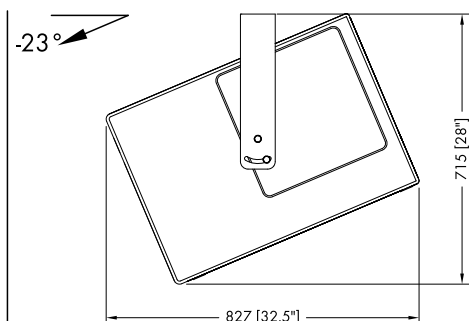
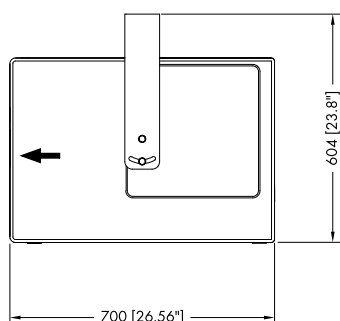
Z5412 Horizontal bracket 12S-SUB, dimensions in mm [inch]



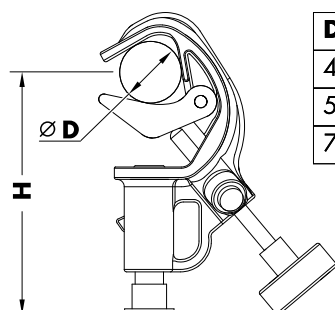
Z5412 Horizontal bracket 125-SUB, mounting options and built-in dimensions in mm [inch]



Z5410 Horizontal bracket 185-SUB, mounting options and built-in dimensions in mm [inch]



Z5410 Horizontal bracket 275-SUB, mounting options and built-in dimensions in mm [inch]



D	H
40 mm [1.6"]	205 mm [8"]
50 mm [2"]	197 mm [7.75"]
70 mm [2.75"]	181 mm [7"]

Built-in dimensions Z5010/Z5012 Assembly

4.1 Manufacturer's declaration

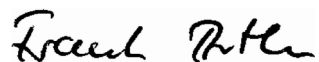
This declaration covers:

- d&b Z5410 Horizontal bracket 18S/27S-SUB.
- d&b Z5412 Horizontal bracket 12S-SUB.

National standards and technical specifications applied:

DIN 18 800, DIN 1055, DGUV Vorschrift 17, BGI 810-3.

Backnang, 2011-03-25



Frank Bothe,
Chief Technology Officer (CTO)
d&b audiotechnik GmbH & Co.
KG



4.2 Disposal

When out of use the rigging components must be disposed of in accordance with the national environmental regulations.

Ensure that damaged rigging components are disposed of in a way that they cannot be used again.

