

CDD User Guide



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Introduction

The Martin Audio CDD Series delivers exceptional high-performance sound across a variety of venues, including pubs, bars, restaurants, retail premises, nightclubs, conference facilities, theatres, educational institutions, places of worship, museums, exhibition centres and cruise ships.

CDD speakers provide superior audio quality across a wide area, ensuring [consistent coverage throughout the entire venue \(page 9\)](#).

The cabinets are designed to be architecturally unobtrusive. The CDD 5 has a rigid ABS moulded enclosure. The CDD 6, 8 and 10 have rigid, moulded wood fibre polymer composite enclosures. This sustainable material, certified by FSC and ISCC, combines stiffness with excellent damping properties. The larger models, CDD 12 and 15, feature rugged marine-grade birch plywood enclosures. Additionally, CDD 8, 10, 12 and 15 include plywood baffles. All models have flush, acoustically transparent steel grilles. The enclosures are available in white or black as standard, with the option to order in any RAL colour.

The CDD range uses two-way, full-range co-axial drivers, incorporating Martin Audio's exclusive Differential Dispersion horn technology. The speakers have passive crossovers optimised for the drivers, eliminating the need for bi-amping. The crossover frequency is between 1.6 kHz and 2.5 kHz, depending on the model.

The [CDD range \(page 6\)](#) consists of six full-range units named after the driver size, from 5 inch up to 15 inch. For applications that require low frequency extension you can supplement the speakers with Martin Audio [SX subwoofers \(page 48\)](#). You can use the speakers individually or in multiples to suit a wide variety of applications. All CDD speakers (except the marine versions) have link connectors to allow daisy-chain wiring.

Special versions of the CDD 5, 6, 8 and 10, known as TX models, are available for [70/100 V line operation \(page 13\)](#). These models include a high-quality tapped transformer and offer a choice of power settings, enabling use with 70 or 100 V line distribution systems. Such systems are commonly used for announcements and background music in office complexes, hotels and similar large buildings. Note that the TX versions of the CDD 5 and 6 allow you to switch off the transformer for low impedance operation, whereas the TX versions of the CDD 8 and 10 do not. For further details, see [70/100 V line versions \(page 13\)](#).

All CDD speaker sizes are also available as [weather resistant versions \(page 49\)](#) and [marine grade versions \(page 50\)](#). Both these versions have an IP rating of IP54 for resistance to dust and water ingress.

The weather resistant versions are designed for outdoor locations where there is shelter from direct exposure to the elements. The marine grade versions are designed for saltwater environments such as cruise ships and beach-side locations.

We have a wide range of CDD installation accessories, allowing you to [mount the speakers on walls, ceilings, truss, scaffold bars or poles \(page 19\)](#). The mounting hardware is suitable for [first and second fix \(page 19\)](#) construction-industry conventions. For the three largest models, the CDD 10, 12 and 15, you can fly individual speakers using [eye bolts \(page 39\)](#).

This user guide provides details of the CDD features and options. It also includes installation instructions for the various mounting options.

CDD models

The CDD range consists of six full-range systems:

Model	LF driver	HF driver	LF –3dB point	Power rating
CDD 5	5" (125 mm)	0.7" (19 mm)	100 Hz	100 W
CDD 6	6.5" (165 mm)	1" (25 mm)	80 Hz	150 W
CDD 8	8" (200 mm)	1" (25 mm)	70 Hz	200 W
CDD 10	10" (250 mm)	1" (25 mm)	65 Hz	250 W
CDD 12	12" (300 mm)	1" (25 mm)	62 Hz	300 W
CDD 15	15" (380 mm)	1.4" (35 mm)	55 Hz	400 W

Models available

	CDD 5 and 6	CDD 8 and 10	CDD 12 and 15
Black	Yes	Yes	Yes
White	Yes	Yes	Yes
RAL (to order)	Yes	Yes	Yes
Weatherised black		Yes	Yes
Weatherised white		Yes	Yes
Marine black		Yes	Yes
Marine white		Yes	Yes
70/100 V line black		Yes ¹	
70/100 V line white		Yes ¹	
70/100 V line RAL (to order)	Yes ²		
Weatherised 70/100 V line black	Yes ²	Yes ¹	
Weatherised 70/100 V line white	Yes ²	Yes ¹	
Marine 70/100 V line black	Yes ²	Yes ¹	
Marine 70/100 V line white	Yes ²	Yes ¹	

¹With 70/100 V line CDD 8 and 10, you cannot switch off the transformer.

²With 70/100 V line CDD 5 and 6, you can switch off the transformer.

Accessories

	CDD 5	CDD 6 and 8	CDD 10 and 12	CDD 15
Wall bracket in black	Yes	Yes	Yes	Yes
Wall bracket in white	Yes	Yes	Yes	Yes
Wall bracket in RAL		Yes	Yes	
Marine wall bracket in black		Yes	Yes	
Marine wall bracket in white		Yes	Yes	
Ceiling bracket in black	Yes	Yes		
Ceiling bracket in white	Yes	Yes		
Yoke assembly in black			Yes	Yes
Yoke assembly in white			Yes	Yes
Eye bolts for flying			Yes	Yes

All these accessories are weatherised for outdoors use.



To attach CDD loudspeakers to truss or scaffold bars, use a ceiling bracket (for CDD 5, 6 and 8) or yoke (for CDD 10, 12 and 15), in combination with a third-party truss clamp or other suitable mounting hardware. For details, see [How to mount CDDs \(page 19\)](#).

Model descriptions

CDD 5

The CDD 5 is a compact two-way passive micro speaker designed for discreet positioning in architectural installations such as bars, museums, foyers, concourses, exhibition centres and houses of worship. It features a unique, patent-protected 5" (125 mm) LF and 0.7" (19 mm) HF Coaxial Differential Dispersion driver in a durable ABS moulded enclosure. The CDD 5 comes with a dedicated omni-directional mounting bracket.

For further information, see [CDD 5 details \(page 54\)](#).

CDD 6

The ultra-compact CDD 6 is a two-way passive loudspeaker system designed to meet the requirement for full-frequency dynamic performance from a very small enclosure. Featuring a 6.5" (165 mm) LF and 1" (25 mm) HF Coaxial Differential Dispersion driver, the compact size and sleek lines make it ideal for visibly unobtrusive applications. You can also use the CDD 6 as a fill system in conjunction with larger CDD Series models. With the addition of an SX subwoofer, it can produce surprisingly high levels of music program.

For further information, see [CDD 6 details \(page 55\)](#).

CDD 8

The CDD 8 is an ultra-compact two-way passive loudspeaker system with an integrated 8" (200 mm) LF and 1" (25 mm) exit HF Coaxial Differential Dispersion driver. Despite its small size, it boasts impressive output capability. As a stand-alone loudspeaker, it serves a multitude of applications and can also be used as an infill loudspeaker in distributed systems alongside larger CDD models, such as the CDD 12 and CDD 15.

For further information, see [CDD 8 details \(page 56\)](#).

CDD 10

The CDD 10 is a highly compact two-way passive loudspeaker system featuring a 10" (250 mm) LF and 1" (25 mm) exit HF Coaxial Differential Dispersion driver. It is uniquely placed to meet the foreground requirements of music bars and clubs, as well as varied architectural applications that require prominent sound levels from a compact enclosure. When combined with an

SX subwoofer, the CDD 10 provides a small dancefloor system that is remarkably powerful for its size.

For further information, see [CDD 10 details \(page 57\)](#).

CDD 12

The CDD 12 is a versatile compact, passive two-way system designed for installations that require high output levels. The high-specification 12" (300 mm) LF and 1" exit HF Coaxial Differential Dispersion driver ensures perfect sound across the audience at medium-throw distances.

For further information, see [CDD 12 details \(page 58\)](#).

CDD 15

Ideal for medium-to-large rooms, the CDD 15 is a high-power, passive two-way system designed for installations that demand exceptional sonic performance from a single enclosure. It combines high output capability with exceptional fidelity and coverage consistency. Its coaxial drive unit comprises a powerful 15" (380 mm) with 3" (75 mm) voice coil LF driver and a 1.4" (35 mm) exit HF compression driver with a 3" (75 mm) pure titanium diaphragm.

For further information, see [CDD 15 details \(page 59\)](#).

CDD coverage

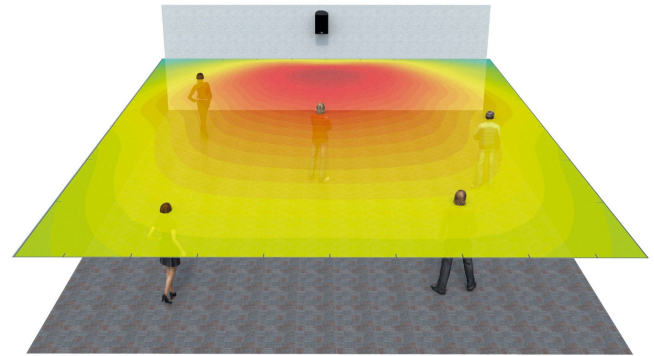
CDD loudspeakers feature Martin Audio's unique, patent-pending Coaxial Differential Dispersion™ technology. CDD systems augment the 'point-source' benefits of coaxial drivers with the consistency of coverage of Differential Dispersion technology.

Non-coaxial systems can suffer from uneven frequency response in the crossover region because of interference between the LF and HF sections; depending on the listening position, this causes off-axis variations, particularly close to the loudspeaker. In contrast, coaxial systems aim to sum LF and HF contributions at all positions off-axis, even close-up.

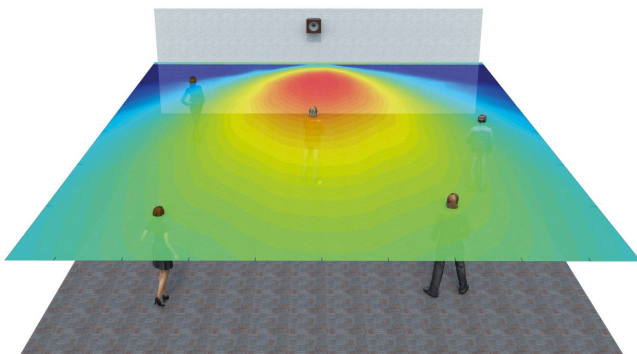
A disadvantage of conventional coaxial devices can be HF beaming, where the HF dispersion reduces at higher frequencies. This is primarily because the HF energy emerges through a narrow tube in the pole-piece of the magnet system. CDD Series coaxial devices overcome this using a static waveguide that merges seamlessly with the unique cone shape. This maintains the dispersion pattern even at very high frequencies.

A Differential Dispersion horn has a trapezoidal dispersion pattern in both vertical and horizontal planes which covers the target area more evenly than a system with a conventional, fixed dispersion type horn. With a conventional horn, the speaker is usually placed above head height and aimed towards the centre of the audience. This produces an imperfect coverage pattern that misses out some areas, particularly side areas close to the loudspeaker.

all corners of the audience area, while achieving wide horizontal coverage close to the loudspeaker.



CDD coverage

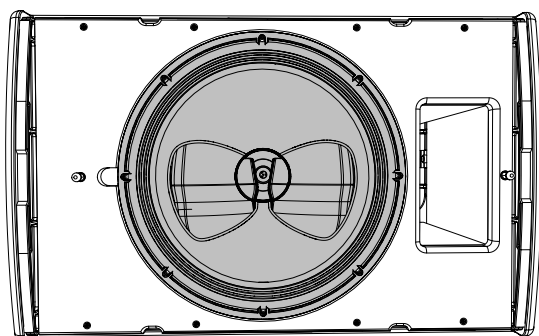
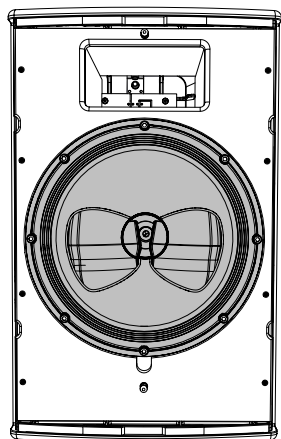


Conventional coverage

In contrast, the Coaxial Differential Dispersion system produces a rectangular coverage pattern extending to

Landscape or portrait

You can install CDDs in landscape or portrait. However, you must orient the CDD coaxial driver as shown below, with the “butterfly wings” biased towards the bottom of the enclosure.



We supply CDD speakers ready for installation in portrait.

- To install in landscape, rotate the coaxial driver through 90°.
- To install in upside-down portrait, rotate the coaxial driver through 180°.

If you mount a speaker with the wrong driver orientation, the speaker won't give adequate coverage and won't perform properly.



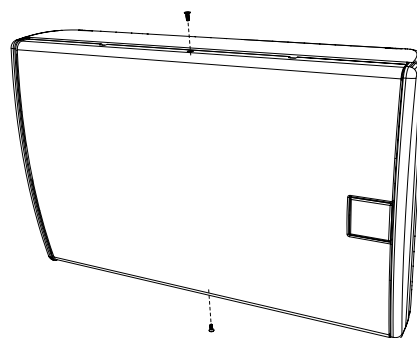
As a reminder of the correct driver orientation, there is a diagram on the rear of the cabinet.

Grille removal

The CDD loudspeakers have a sprung grille that clips into slots on the sides of the cabinet, making it quick and easy to remove.

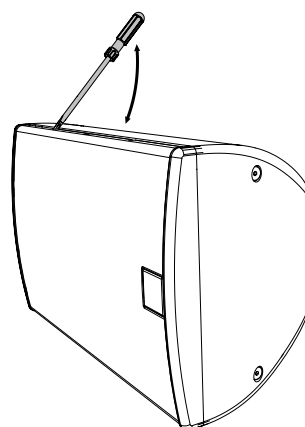
To remove the grille

1. Place the speaker on a suitable surface.
2. For CDD 10, 12 or 15, remove the two screws that hold the grille in place.



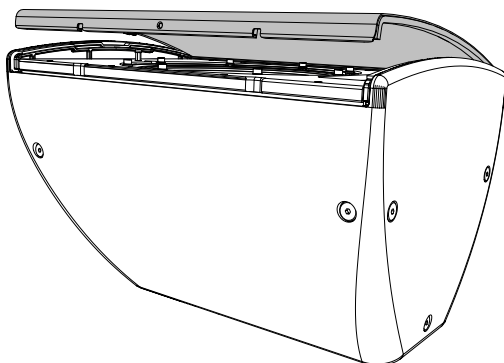
For CDD 5, 6 or 8, there are no screws to undo.

3. Insert an appropriately sized flat-bladed screwdriver into one of the two gaps at the side of the grille.



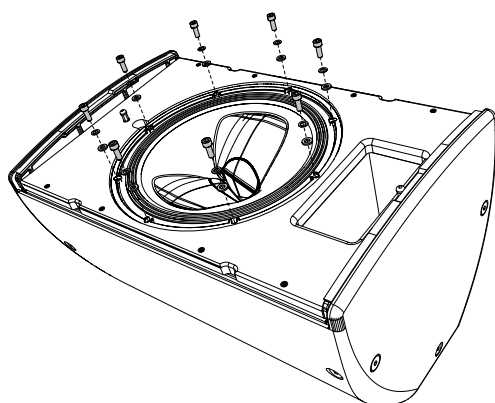
4. Gently push the handle down slightly to ease the grille out of the slot.
5. Lift the handle slightly to ease the grille forward so that it doesn't clip straight back into the slot.

- Repeat this process with the second gap and ease the grille out of the slot all the way up one side of the cabinet. The grille should now pop out of the slot.

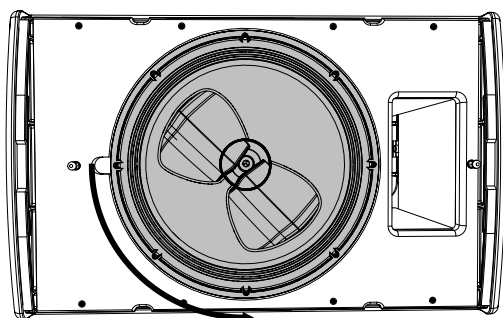


To rotate the driver

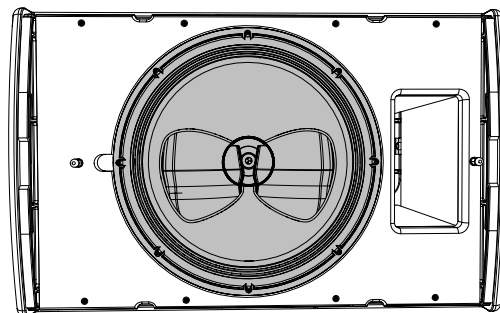
- Remove the grille (page 10).
- Remove the screws securing the driver to the baffle board using a No. 2 Pozidriv screwdriver.



- Carefully lift out the driver assembly and rotate it.



For landscape, rotate the driver by 90°. Note that you can put the flat side of the speaker (the top) to the left or right and which you choose changes the maximum pan angles to the left and right. For details, see [CDD tilt and pan angles \(page 51\)](#).



For upside-down portrait, rotate the driver by 180°.

- Refit the screws removed in step 2.
- For landscape, rotate the badge. For details, see [Badge rotation \(page 11\)](#).

For upside-down portrait, rotate the grille. You don't need to rotate the badge.

- Replace the grille. For details, see [Grille refitting \(page 12\)](#).

Badge rotation

We supply CDD speakers with the Martin Audio badge in portrait mode. To install in landscape, you need to rotate the badge by 90°. To install in upside-down portrait, you just rotate the grille; there is no need to rotate the badge.

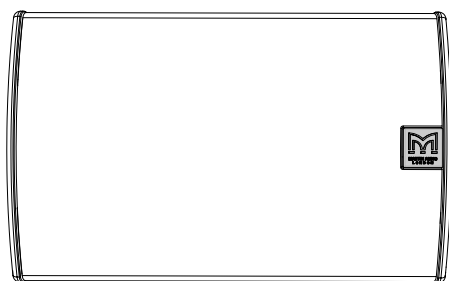
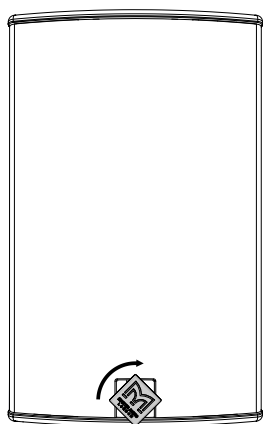
- For CDD 5, 6 and 8, you need to remove the badge to rotate it.
- For CDD 10, 12 and 15, you can rotate the badge while it is held in place.

To rotate the badge for CDD 5, 6 or 8

- Remove the grille. For details, see [Grille removal \(page 10\)](#).
- Push down on the mounting spigot on the back of the grille until the badge pops out. You may need to press with a screwdriver handle or something similar.
- Rotate the badge and push it back firmly so that it won't fall out later.

To rotate the badge CDD 10, 12 and 15

1. Remove the grille. For details, see [Grille removal \(page 10\)](#).
2. Push the spigot on the back of the badge so that the badge lifts.
3. Rotate the badge and release the spigot so that the badge settles back in place.
4. Once you've installed the speaker, remove the plastic scratch-protection film from the badge.
3. Make sure that the grille is engaged in the slot by pushing the edge of the grille back starting at the top or bottom. You may need to do this a little at a time, working down the length of the grille until it pops into place.
4. For CDD 10, 12 or 15, replace the two screws that hold the grille in place.



Grille refitting

This is the reverse of the grille removal process.

To refit the grille

1. Insert one side of the grille into the slot on one side of the cabinet. Make sure the grille is completely engaged in the slot.
2. Push the front of the grille with the flat of your hand so that the other edge of the grille clips into place.

Connecting CDDs

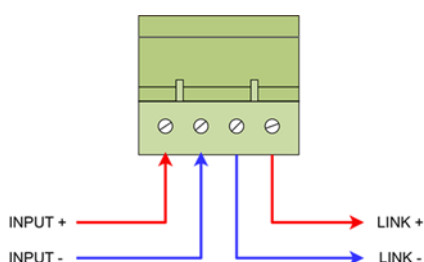
All CDDs (except the CDD8-TX, CDD10-TX and marine models) have a pluggable low-profile four-pin Phoenix-style connector. This is mounted on a recessed rear panel, ensuring a neat wiring job with no protruding connectors.

- For CDD 5, 6 and 8, this is a 12 A connector (replacement part PCX00006).
- For CDD 10, 12 and 15, this is a 20 A connector (replacement part PCX00008).

If you are using [first and second fix \(page 19\)](#) stages, at first fix you can wire the cables to the connectors and at second fix you can plug the connectors into the speakers.

To connect the Phoenix-style connectors

1. Take hold of the lower section of the connector (the part that sticks out) and ease it downwards until it unplugs from the upper section.



2. Wire the speaker cable to the connector using the two screw fittings on the left:
 - Connect positive from the amplifier to the leftmost pin (labelled **INPUT +**).
 - Connect negative from the amplifier to the second pin (labelled **INPUT -**).
3. To daisy-chain the amplifier output to further speakers on the same circuit, use the two screw fittings on the right:
 - Connect negative for the next speaker to the third pin (labelled **LINK -**).
 - Connect positive for the next speaker to the rightmost pin (labelled **LINK +**).
4. Plug the connector back into the speaker.

Cable specification

Use high-quality, fine-stranded two-core speaker cable. The cable jacket specification depends on the installation

type, the application and local regulations. For example, there could be a requirement to use low smoke hazard cables.

The cable gauge depends on the length of the cable:

- For cables up to 30 m, use 2.5 mm² or greater.
- For cables over 30 m, use 4.0 mm² or greater.

Impedance

All CDDs, except the [70/100 V line \(TX\) models \(page 13\)](#), have a nominal impedance of 8 ohms.

- With CDD5-TX and CDD6-TX, you can switch off the transformer so that the nominal impedance is 8 ohms.
- With CDD8-TX and CDD10-TX, you can't switch off the transformer.

70/100 V line versions

For constant voltage systems, we have 70/100 V line versions of CDD 5, 6, 8 and 10, but not CDD 12 and 15. These versions contain a transformer, and we call them TX versions:

- CDD5-TX
- CDD6-TX
- CDD8-TX
- CDD10-TX

With the 70/100 V line versions of CDD, you need to choose the required power rating at each speaker:

- For the CDD5-TX and CDD6-TX (standard, weatherised and marine), use the [rotary switch behind the grille \(page 14\)](#).
- For the standard and weatherised versions of CDD8-TX and CDD10-TX, use the [connections at the back \(page 14\)](#).
- For the marine versions of CDD8-TX and CDD10-TX, use the [colours of the cable wires at the back \(page 15\)](#).

For details of amplifiers for 70/100 V systems, see [Amplifiers for 70/100 V systems \(page 45\)](#).

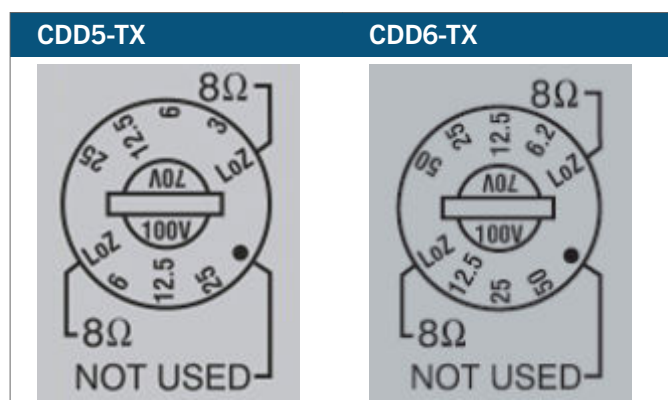
Note that high levels of low-frequency signals can cause transformer core saturation, and this can cause distortion and sound unpleasant. If you are driving 70/100 V line

loudspeakers with bass-heavy programme material at high levels, we strongly recommend that you include a high-pass filter in the signal path. Many industrial power amplifiers designed for 70/100 V line operation have selectable fixed filters for this purpose. If your amplifiers don't have these, you can add them using a system controller such as the Martin Audio DX4.0, DX0.4 or DX0.6.

For details of system controllers, see [System controllers \(page 47\)](#).

To choose the power rating for CDD5-TX and CDD6-TX

1. [Remove the grille \(page 10\)](#).
2. Rotate the power rating switch, shown below.
The available power ratings are different for the CDD5-TX and CDD6-TX as shown in the tables below.
3. Replace the grille.



CDD5-TX

Position	70 V line	100 V line	Notes
1	LoZ	LoZ	Low impedance (8 ohm)
2	3 W	6 W	
3	6 W	12.5 W	
4	12.5 W	25 W	
5	25 W	Not used	

CDD6-TX

Position	70 V line	100 V line	Notes
1	LoZ	LoZ	Low impedance (8 ohm)
2	6.2 W	12.5 W	
3	12.5 W	25 W	
4	25 W	50 W	
5	50 W	Not used	

Power rating for standard and weatherised CDD8-TX and CDD10-TX

The 70/100 V line versions CDD 8 and 10 (standard and weatherised) have a five-pin Phoenix Contact PCB terminal block at the back. This terminal block has five push-in spring connections, and you use these to select the power rating.



To choose the power rating for standard and weatherised CDD8-TX and CDD10-TX

1. Connect negative from the amplifier to the leftmost connection position (labelled COM). Use the top row of connections (labelled IN).
2. Connect positive from the amplifier to the connector position that corresponds to the power required, as shown in the following table:

Connector	70 V line	100 V line
1	Negative	Negative
2	15 W	30 W
3	30 W	60 W
4	60 W	120 W
5	120 W	Not used



You can't select low impedance (8 ohm) with CDD8-TX and CDD10-TX (standard, weatherised or marine).

To daisy-chain other speakers, use the lower row of connectors (labelled LINK).

Power rating for marine CDD8-TX and CDD10-TX

The marine 70/100 V line versions of CDD 8 and 10 have a factory fitted five-core cable at the back. This cable contains five coloured wires that allow you to select the power rating.

To choose the power rating for marine CDD8-TX and CDD10-TX

1. Connect negative from the amplifier to the black wire (COM).
2. Connect positive from the amplifier to the wire that corresponds to the power required, as shown in the following table:

Colour	70 V line	100 V line
Black	Negative	Negative
White	15 W	30 W
Blue	30 W	60 W
Brown	60 W	120 W
Grey	120 W	Not used



You can't select low impedance (8 ohm) with CDD8-TX and CDD10-TX (standard, weatherised or marine).

Weatherised connections

Weatherised CDD speakers have a weatherproof connector cover and cable gland to protect the connector block. If you are daisy-chaining these cabinets, you can use the knockout hole to the right to install a second gland (not supplied).



To maintain the enclosure's IP rating, the second gland must be the same type and size as the pre-fitted gland.

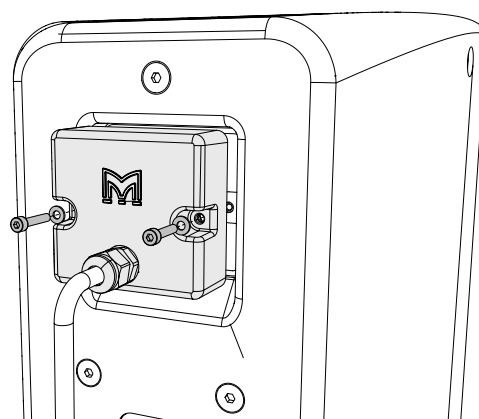
Note that you can't turn a standard CDD speaker into a weatherised CDD by adding a connector cover. This is because the weatherised CDDs have various other factory-fitted weather proofing components. For details, see [Weatherised CDDs \(page 49\)](#).

To connect weatherised CDD speakers

1. Remove the hex-head screws that hold the cover in place.

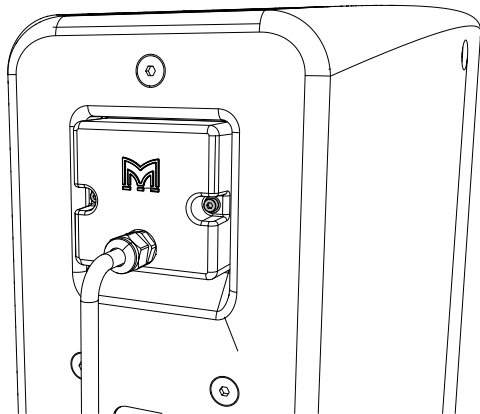
For weatherised CDD 5 and 6, the cover has three screws, and the cable gland is positioned for vertical cable entry (replacement part AIPKIT).

For weatherised CDD 8, 10, 12 and 15, the cover has two screws, and the cable gland is positioned for rearwards cable entry (replacement part for CDD 8 is ASF09006, replacement part for CDD 10, 12 and 15 is ASF09007).



2. Remove the cover. Take care not to damage the gasket that seals the cover against the rear panel.
3. Loosen the cable clamp nut and pass the cable through the cable gland.
4. Connect the cable to the input terminals. For details, see [Connecting CDDs \(page 13\)](#).
5. To daisy-chain to another speaker, remove the knockout, fit a second gland and connect the second cable to the link terminals. For details, see [Connecting CDDs \(page 13\)](#).

6. Refit the cover.



Marine connections

The marine versions of CDD have a factory-fitted two-core 2.5 mm² cable at the back. This has brown and blue wires:

1. Connect **positive** from the amplifier to **brown**.
2. Connect **negative** from the amplifier to **blue**.

To daisy chain the marine versions of CDD use external connectors.



The marine versions of the 70/100 V line CDD 8 and 10 have a factory-fitted five-core 1.5 mm² cable at the back. For details, see [To choose the power rating for marine CDD8-TX and CDD10-TX \(page 15\)](#).

Where to mount CDDs

We advise you to mount CDD loudspeakers:

- Above head height.
- High enough to give clear coverage.
- Low enough to avoid over-exciting room resonances.
- Away from corners whenever possible.
- Away from each other.
- With [tilt angles \(page 51\)](#) set to aim the loudspeakers at the furthest listener across the room.

Remember that the horizontal dispersion of CDD Series speakers produces an approximately [square coverage pattern \(page 9\)](#).



Don't place CDD speakers next to one another, as there's likely to be overlap in the coverage leading to unwanted comb filtering.

System design

To design your system and decide on the best positions for speakers and subs, we recommend Martin Audio **Display 3** software, which we provide as a free download from our website.

Display 3 allows you to model your space and experiment with various system configurations and speaker positions. Display 3 predicts the performance of your experimental configurations, allowing you to optimise the performance of your system at the design stage.

To download Display 3

1. Visit our website martin-audio.com.
2. Select **Support > Software/Firmware**.
3. Scroll to **Display 3** and click **Download**.

EASE and EASE Focus files

For acoustic modelling of CDD, we recommend **Display 3**. However, if you wish to use EASE, EASE Focus or other modelling software, we provide a zip file of high-resolution GLL and CLF files as a free download.

The GLL files are compatible with EASE and EASE Focus.

To download GLL and CLF files

1. Visit our website martin-audio.com.
2. Select **Support > Measurement Data**.
3. Scroll to **CDD Series** and click **Download**.

3D SketchUp files

For modelling CDD in **Sketchup**, we provide 3D SketchUp files as free downloads.

To download 3D Sketchup files

1. Visit our website martin-audio.com.
2. Select **Products > Product List** and click on the appropriate speaker.
3. Select the **Technical drawings & 3D models** section and click **SKP-BLACK** or **SKP-WHITE**.
4. For accessories, select the **Accessories** section and click **SKP-B** or **SKP-W**.

Revit family

For modelling CDD in Revit, we provide a CDD Revit family as a free download.

To download the Revit family

1. Visit our website martin-audio.com.
2. Select **Products > Product List** and select any of the CDD speakers.
3. Select the **Technical drawings & 3D models** section and click **REVIT FILE**.

DWG files

For viewing the CDD technical drawings in CAD software such as AutoCAD, we provide DWG files as free downloads.

To download DWG files

1. Visit our website martin-audio.com.
2. Select **Products > Product List** and click on the appropriate speaker.

3. Select the **Technical drawings & 3D models** section and click **DWG**.
4. For DWG files for accessories, select the **Accessories** section and click **DWG**.

How to mount CDDs

You can mount CDD loudspeakers on walls, ceilings, truss or scaffold bars. You can also mount the CDD 10, 12 or 15 on a pole, or fly them using eye bolts.

Wall mounting

- To mount CDD 5, 6 or 8 on a wall, use a [wall bracket \(page 20\)](#).
- To mount CDD 10, 12 or 15 on a wall, use either a [wall bracket \(page 20\)](#) or [yoke \(page 34\)](#). A wall bracket is usually the better choice, as explained in the section [yoke mounting \(page 34\)](#).

Ceiling mounting

- To mount CDD 5, 6 or 8 on a ceiling, use a [ceiling bracket \(page 29\)](#).
- To mount CDD 10, 12 or 15 on a ceiling, use a [yoke \(page 34\)](#).

Truss or scaffold bar mounting

- To mount CDD 5, 6 or 8 on truss or scaffold bars, use a [ceiling bracket with appropriate third-party hardware \(page 37\)](#).
- To mount CDD 10, 12 or 15 on truss or scaffold bars, use a [yoke with appropriate third-party hardware \(page 37\)](#).

Pole mounting

- To mount CDD 10, 12 or 15 on a pole, use a [yoke with a pole mount adaptor \(page 38\)](#).

Flying

- To fly CDD 10, 12 or 15, use [eye bolts \(page 39\)](#).

Summary of accessories

	CDD 5, 6 and 8	CDD 10, 12 and 15
Wall bracket	Yes	Yes
Ceiling bracket	Yes	
Yoke assembly		Yes
Eye bolts		Yes

All these accessories are optional, except for CDD 5 wall brackets, which are supplied with the speakers.

First and second fix

Construction industry practice often uses first and second fixing stages. The advantage of this is that installers can pull cables and attach fixings while building and decoration work is on-going, avoiding the potential problems of leaving expensive and delicate audio equipment on site at this stage.

- Standard CDD models have pluggable cable connectors. You can connect cables to plugs at first fix and then plug the connectors into the speakers at second fix.
- All CDD brackets and yokes disassemble into two parts. You can attach one part to the wall or ceiling at first fix and then attach the other part to the cabinet and connect the two parts at second fix.

Wall mounting CDD

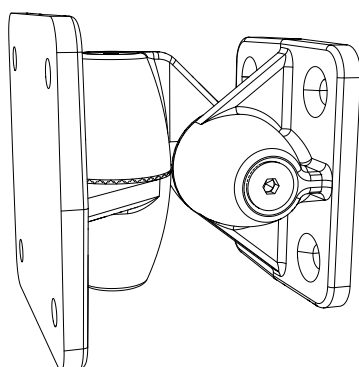
You can mount any CDD speaker on a wall using a wall bracket. We have two types of wall bracket: the type for CDD 5 and the type for the rest of the range (CDD 6, 8, 10, 12 and 15).

- To mount CDD 5 on a wall, see [Wall mounting CDD 5 \(page 20\)](#). Note that we ship CDD 5 in pairs, complete with wall brackets in either black or white to match the speakers. If you are mounting CDD 5 on a wall, you don't need any additional mounting hardware.
- To mount CDD 6, 8, 10, 12 or 15 on a wall, see [Wall mounting CDD 6, 8, 10, 12 and 15 \(page 24\)](#).

For details of other mounting options, see [How to mount CDDs \(page 19\)](#).

Wall mounting CDD 5

The wall bracket for the CDD 5 has three parts: a part that attaches to the wall, a part that attaches to the cabinet and a link section that joins the two. This link section allows you to adjust the speaker both horizontally and vertically.



If you only need to adjust the speaker in one plane (horizontally or vertically), you can leave out the link section. In this case, the speaker will fit a little closer to the wall.



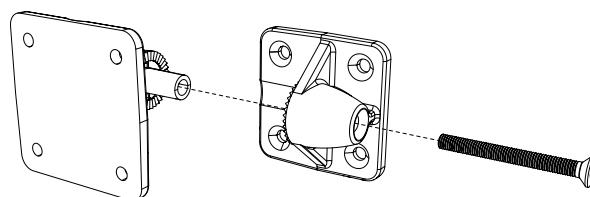
For details of tilt and pan angles, see [CDD tilt and pan angles \(page 51\)](#).

To wall mount CDD 5 – first fix

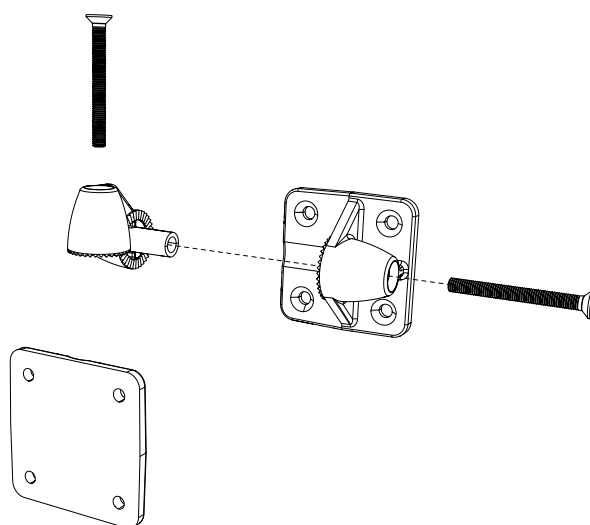
1. Decide whether you need to adjust the installed speaker horizontally or vertically or in both planes.

2. Separate the wall section from the rest of the bracket using a 4 mm hex key (H4).

- The wall section is larger and has fixing holes spaced 45 mm (1.77 in) apart.
- The cabinet section is smaller and has countersunk holes spaced 35 mm (1.38 in) apart.



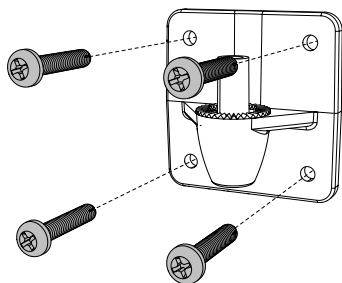
3. If you only need to adjust the speaker in one plane (horizontally or vertically), remove the link section from the cabinet section using a 4 mm hex key (H4).



4. Attach the wall section to the wall. The wall section has four holes with diameter 5.2 mm (0.2 in).

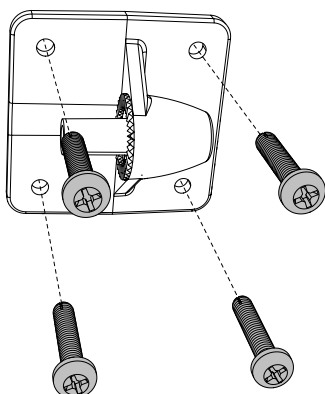
So that the installation is safe and secure, you must use fixings that are appropriate for the wall surface and the [weight of the cabinet \(page 54\)](#).

If you need to adjust the speaker in both planes (or horizontally only), fit the bracket with the peg upwards, as shown below.



If you only need to adjust the speaker horizontally, use the same vertical orientation.

If you only need to adjust the speaker vertically, fit the bracket with the peg sideways, as shown below.



5. If second fix is to follow later, it is a good idea to screw the pivot bolt into the wall bracket, so that it does not get lost.
6. At this stage, we recommend that you terminate the speaker cables with the [Phoenix-style connectors \(page 13\)](#) supplied with the speakers.

To wall mount CDD 5 – second fix

1. Decide whether to install the speakers in landscape or portrait. The speakers will sound equally good in either orientation, so you can base this decision purely on the visual impact.
2. If you are installing in landscape or upside-down portrait, [rotate the driver \(page 11\)](#).

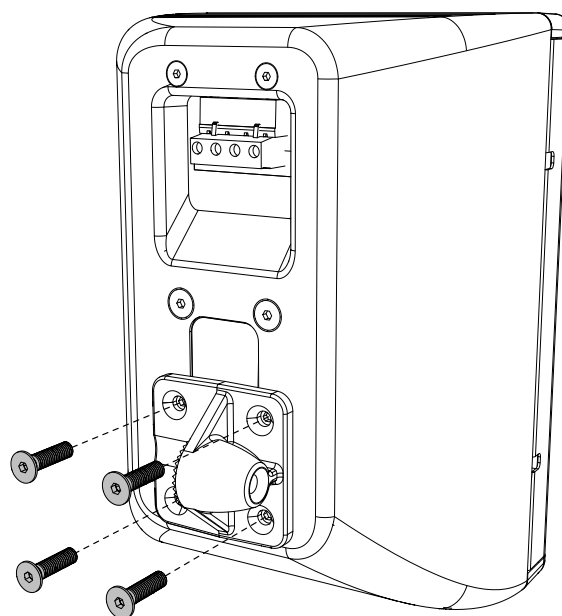


Make sure the [driver is correctly orientated \(page 10\)](#) otherwise the speaker won't perform properly.

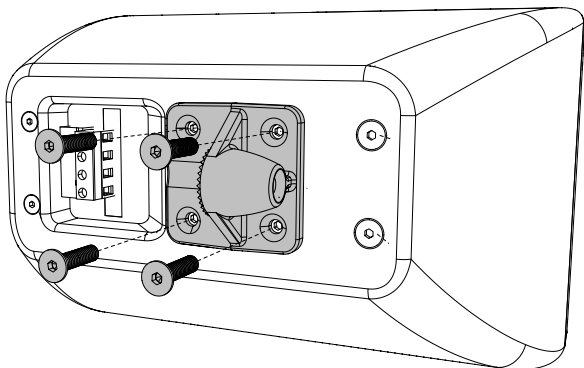
Note that for portrait, it is usually best to install the speaker the right way up. This is because with upside-down portrait on a wall bracket, you will have little ability to tilt the speaker down before it touches the wall.

3. Remove four screws (M5) from the back of the cabinet using a 3 mm hex key (H3) and attach the cabinet bracket section using these screws.
 - For portrait installation, use the lower four fixing points (this will allow you to tilt the speaker further than if you use the upper four fixing points).
 - For landscape installation, use the four fixing points in the middle of the speaker.

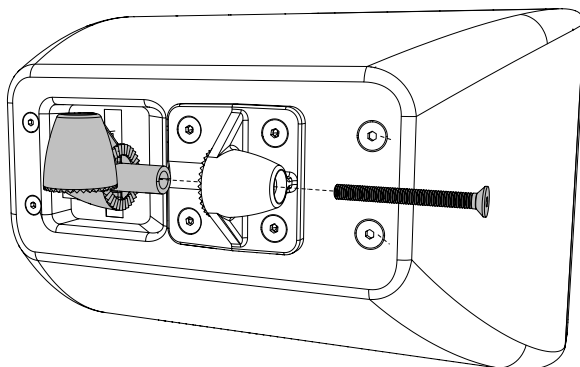
If you need to adjust the speaker in both planes (or vertically only), fit the bracket with the opening sideways, as shown below for portrait:



For landscape, use the same arrangement, as shown below:

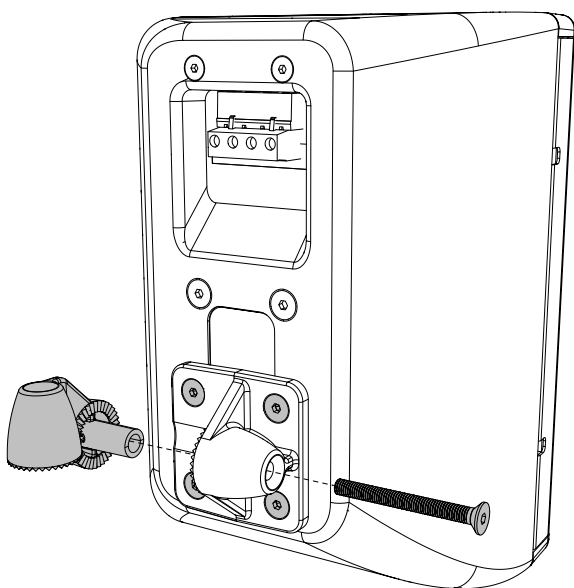


For landscape, use the same arrangement, as shown below:

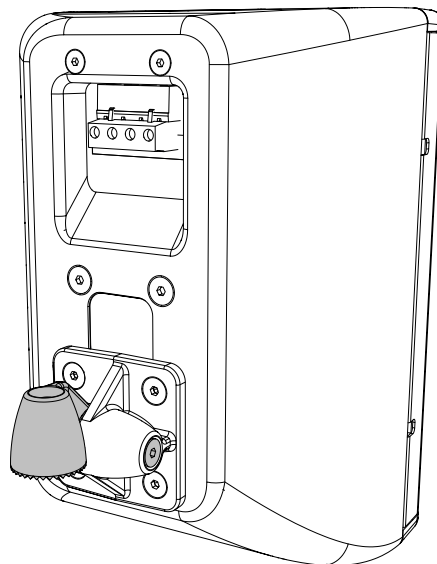


If you only need to adjust the speaker horizontally, fit the bracket with the opening downwards.

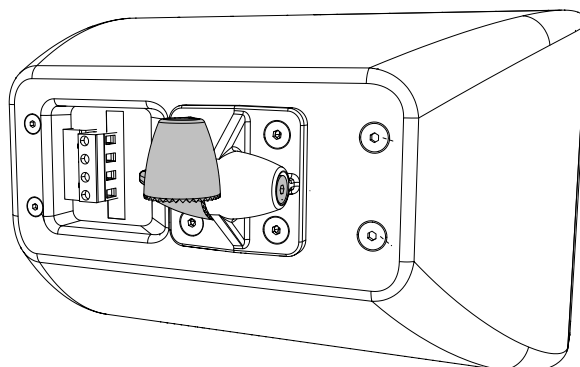
4. If you need to adjust in both planes, fit the link section to the cabinet section, as shown below for portrait:



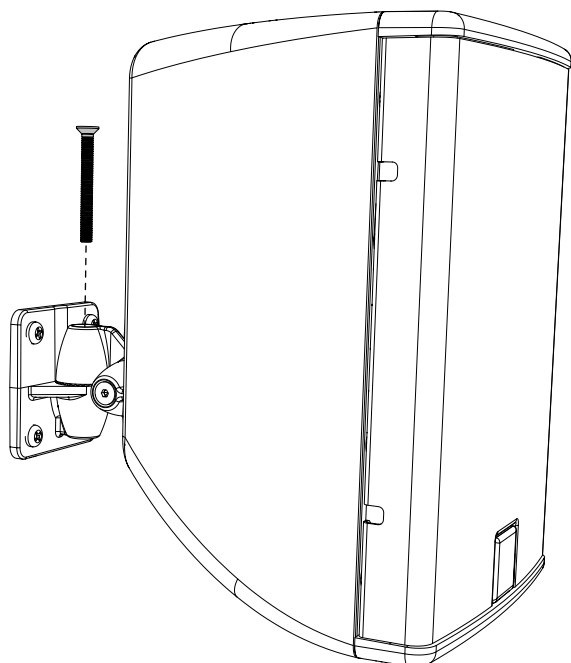
5. Bolt this link section in place, as shown below for portrait:



For landscape, use the same arrangement, as shown below:



6. Remove the bolt from the wall bracket section.
7. Lift the speaker up to the wall bracket section.

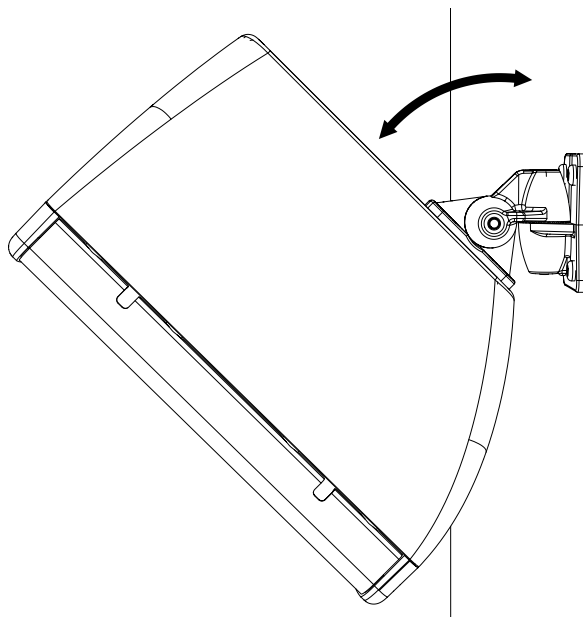


If the wall bracket peg is upwards, the other section will hook securely in place freeing up your hands. You can then fit the pivot bolt.

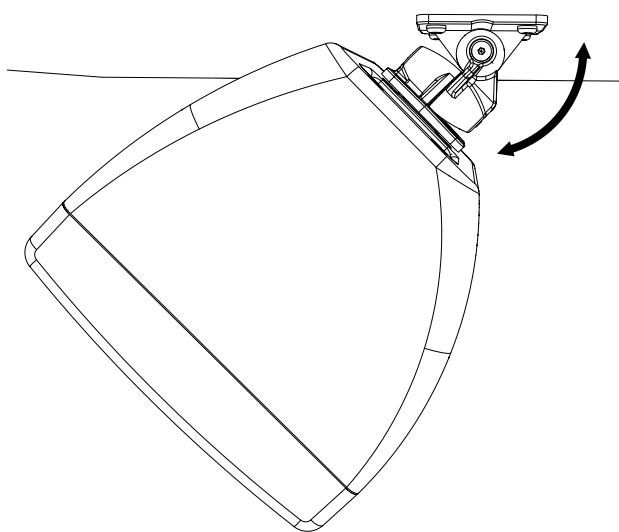
If the wall bracket peg is sideways (allowing only vertical adjustment), slide the two sections of the bracket together and support the speaker with one hand while you insert the pivot bolt with your other hand.

8. Tighten the bolt but leave it a little loose to allow for final adjustment. The radial teeth of the bracket allow you to adjust the speaker in increments of approximately 10° . If the fitting includes the link section, loosen the other fitting slightly, so that you can adjust in the other plane.

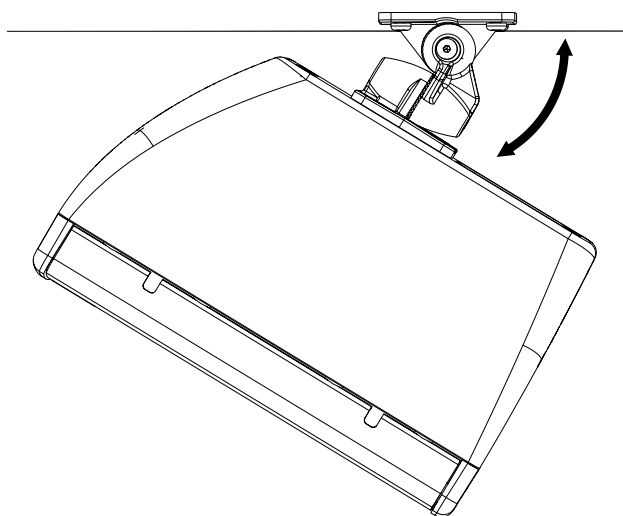
For a speaker in portrait, the maximum tilt angle is 70° as shown below (viewed from the side):



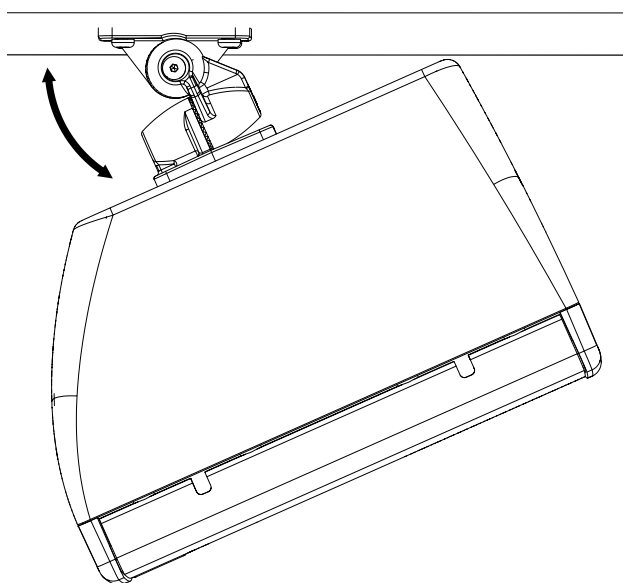
For a speaker in portrait, the maximum pan angle is 45° as shown below (viewed from the ceiling):



For a speaker in landscape, the maximum pan angle is 45° in one direction, as shown below (viewed from the ceiling):



For a speaker in landscape, the maximum pan angle is 30° in the other direction, as shown below (viewed from the ceiling):



For details of tilt and pan angles, see [CDD tilt and pan angles \(page 51\)](#).

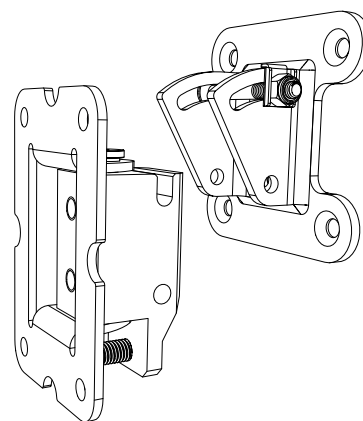
9. Connect the speaker cables using the pluggable [Phoenix-style connectors \(page 13\)](#).

10. Check the coverage using an audio source and make final adjustments to the vertical and horizontal positions.

11. When you have found the best position, tighten the vertical and horizontal bolts.

Wall mounting CDD 6, 8, 10, 12 and 15

All CDD speakers except the CDD 5 use the same style of wall bracket. This has two parts, a wall section and a cabinet section. When you install the speaker, a horizontal bolt in the cabinet section locates into a notch in the wall section. This takes the weight of the cabinet while you fix the bracket in place.



There are three sizes of wall bracket for the CDD 6, 8, 10, 12 and 15:

- WB6/8 is the wall bracket for the CDD 6 and 8.
- WB10/12 is the wall bracket for the CDD 10 and 12.
- WB15 is the wall bracket for the CDD 15.

The main difference between these is that the brackets for the CDD 10, 12 and 15 are larger and stronger to cope with the heavier weights. The fitting procedures for these three brackets is much the same.



For details of tilt and pan angles, see [CDD tilt and pan angles \(page 51\)](#).

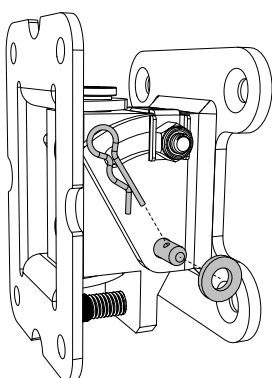
For details of wall mounting CDD 5, see [Wall mounting CDD 5 \(page 20\)](#).

Landscape or portrait

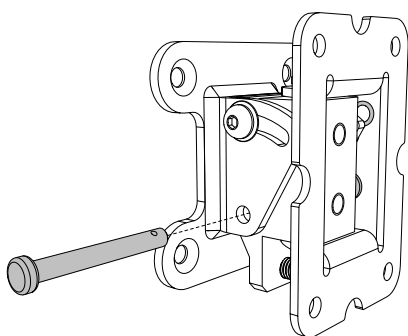
You can use wall brackets to wall mount CDD 6, 8, 10, 12 or 15 in landscape or portrait. For landscape, you must [rotate the driver \(page 11\)](#).

To wall mount CDD 6, 8, 10, 12 or 15 – first fix

1. Depending on your bracket, either remove the R-clip and washer (as shown below) or the nut on the lower bolt. Don't remove the upper nut and bolt in the curved slot.

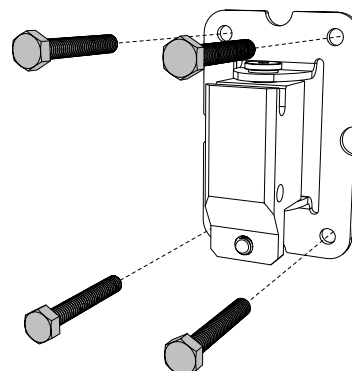


2. Remove the lower fitting (as shown below) or the lower bolt:



3. Separate the two parts of the bracket.
4. Attach the wall section to the wall. Note that the wall section is rectangular while the cabinet section

is square. The grub screw needs to be at the bottom and the sideways notch at the top.



Use wall fixings that are appropriate for the composition of the wall and the [weight of the speaker \(page 53\)](#).

- For CDD 6 and 8, the wall section has four holes with diameter 7 mm (0.28 in).
 - For CDD 10 and 12, the wall section has four holes with diameter 9 mm (0.35 in).
 - For CDD 15, the wall section has six holes with diameter 11 mm (0.43 in).
5. At this stage, we recommend that you terminate the speaker cables with the [Phoenix-style connectors \(page 13\)](#) supplied with the speakers.

To wall mount CDD 6, 8, 10, 12 or 15 – second fix

1. If you are installing in landscape or upside-down portrait, [rotate the driver \(page 11\)](#).

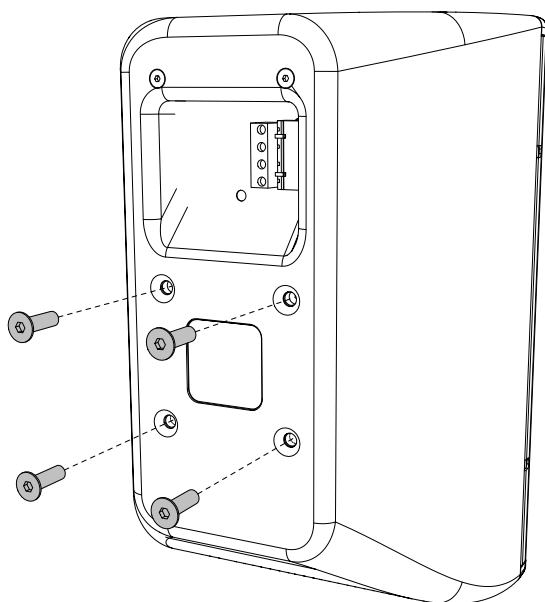


Make sure the [driver is correctly orientated \(page 10\)](#) otherwise the speaker won't perform properly.

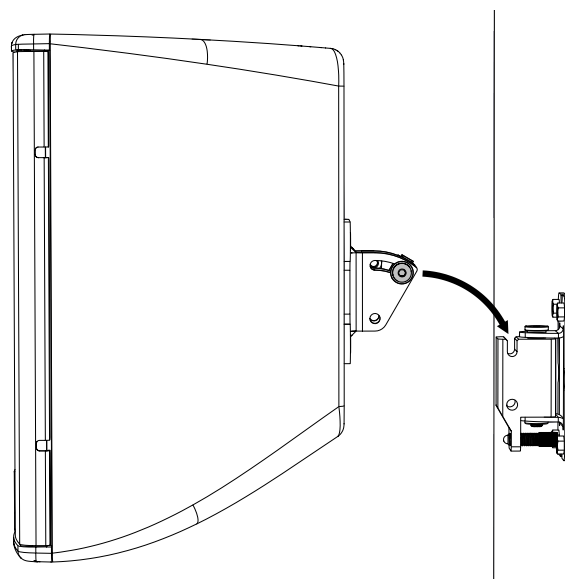
Note that for portrait, it is usually best to install the speaker the right way up. This is because with upside-down portrait on a wall bracket, you will have little ability to tilt the speaker down before it touches the wall.

2. Remove (and keep) four screws from the back of the cabinet.
 - For CDD 6 and 8, use a 4 mm hex key.
 - For CDD 10, 12 and 15, use a 5 mm hex key.

For CDD 6 there are only four screws, so there is no choice of which screws to remove.



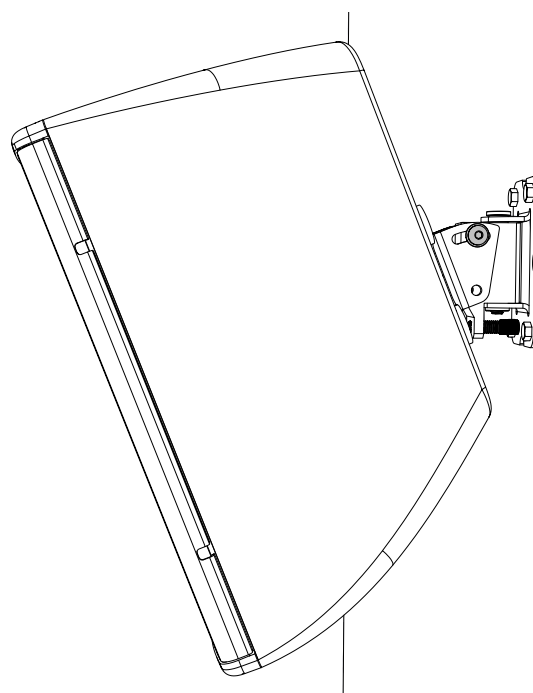
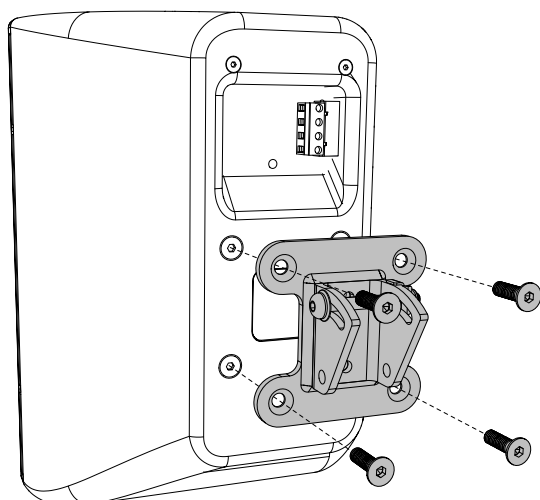
4. Lift the speaker up to the bracket and hook the horizontal bolt into the notch of the wall section.



The bracket will now hold the speaker in place.

For CDD 8, 10, 12 and 15, there are six screws:

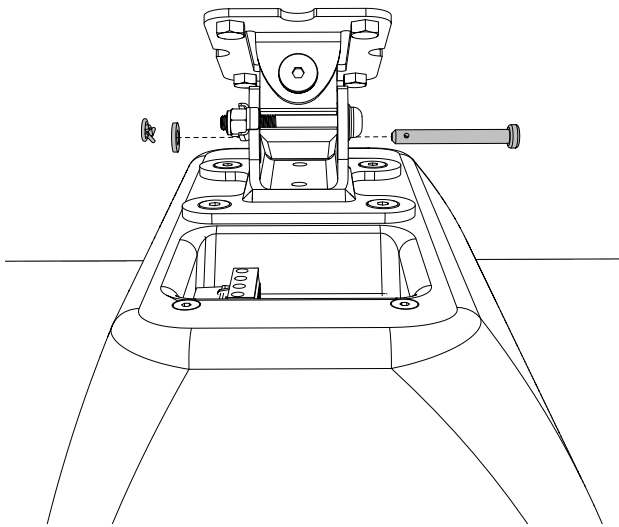
- For portrait, remove the lower four screws, as this will allow you more downwards tilt of the speaker.
 - For landscape, remove the four screws in the middle of the cabinet.
3. Attach the cabinet section of the bracket (the square section) using the same screws. Make sure that the bolt is horizontal.



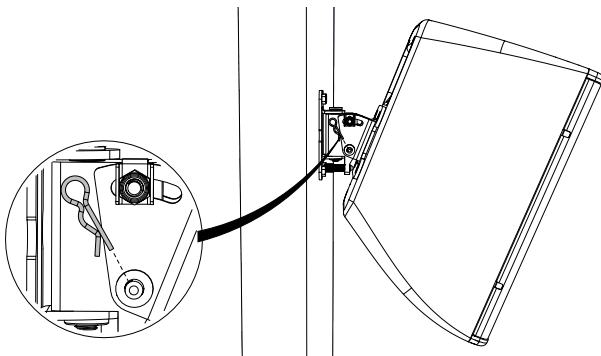
When working at height, you must use appropriate safety measures.

A scaffold tower or lifting platform will allow you to use both hands safely.

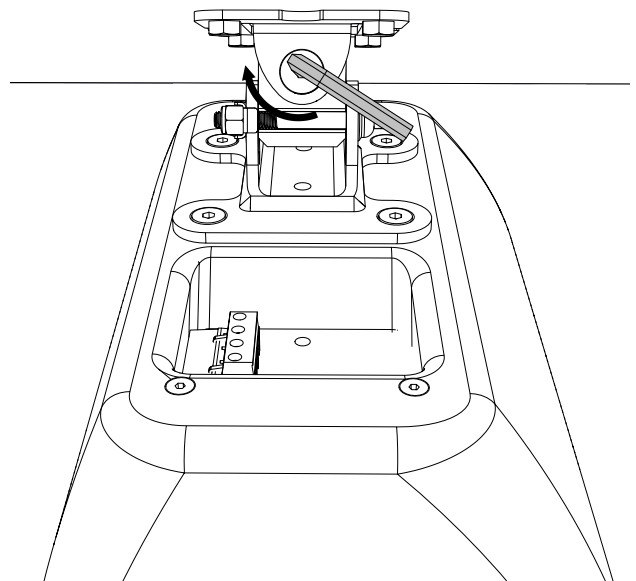
5. Replace the lower fastening. Depending on your bracket, this is either a pin (as shown below) or a bolt.



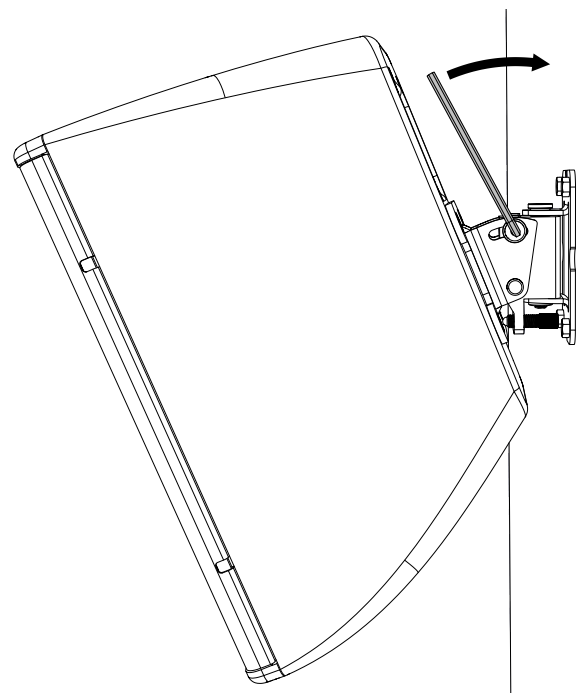
6. Fix the pin or bolt in place, with either the washer and R-clip (as shown below) or the nut.



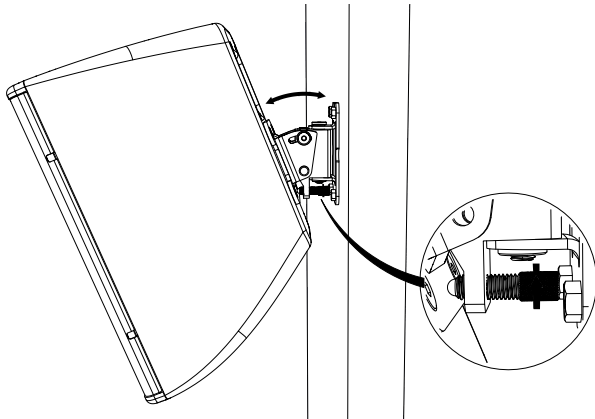
7. Loosen the vertical bolt (using an M5 hex key) and adjust the speaker horizontally on this bolt.



8. Loosen the upper horizontal bolt.



9. Adjust the vertical position using the grub screw.



For details of tilt and pan angles, see [CDD tilt and pan angles \(page 51\)](#).

10. Connect the speaker cables using the pluggable [Phoenix-style connectors \(page 13\)](#).
11. Check the coverage using an audio source and make final adjustments to the vertical and horizontal positions.
12. When you have found the best position, tighten the vertical and horizontal bolts.

Ceiling bracket mounting CDD

You can mount CDD 5, 6 or 8 on the ceiling using a ceiling bracket. There are two types of ceiling bracket, one for CDD 5 and one shared by CDD 6 and 8.

- To mount CDD 5 on the ceiling, see [Ceiling mounting CDD 5 \(page 29\)](#).
- To mount CDD 6 or 8 on the ceiling, see [Ceiling mounting CDD 6 or 8 \(page 31\)](#).

For details of how to mount CDD 10, 12 or 15 on the ceiling, see [Yoke mounting CDD \(page 34\)](#).

Ceiling mounting CDD 5

For CDD 5, the optional ceiling bracket (CDDCB5) attaches to the wall bracket supplied with the speaker. The fitting procedure is the same as mounting the CDD 5 on a wall, except that you mount the wall bracket onto the ceiling bracket.



For details of tilt and pan angles, see [CDD tilt and pan angles \(page 51\)](#).

First and second fix

- At first fix, you attach the wall section of the wall bracket to the ceiling bracket. You then attach the ceiling bracket to the ceiling.
- At second fix, you attach the speaker section of the wall bracket to the speaker. You then mount the speaker by connecting the two sections of the wall bracket.

Landscape or portrait

It's best to ceiling mount CDD 5 in landscape, and in this case, you must [rotate the driver \(page 11\)](#).

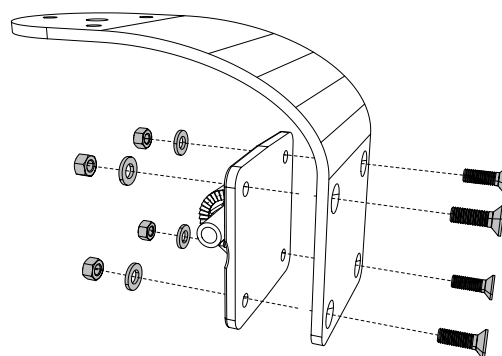
To ceiling mount the CDD 5 in portrait, you must mount the speaker upside down. You must also rotate the grille and driver by 180°. For details see [To rotate the driver \(page 11\)](#).

To ceiling mount the CDD 5 — first fix

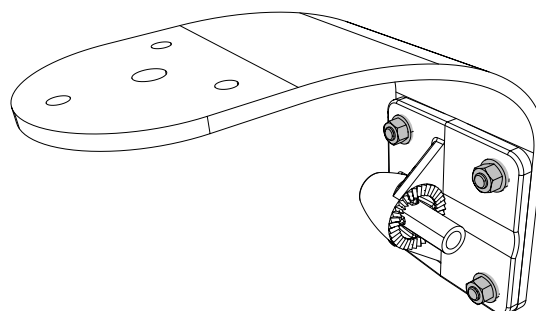
1. Disassemble the wall bracket (supplied with the speaker). This is because ceiling bracket CDDCB5 connects to the wall bracket rather than the speaker.

For details of the wall bracket, see [Wall mounting CDD 5 \(page 20\)](#).

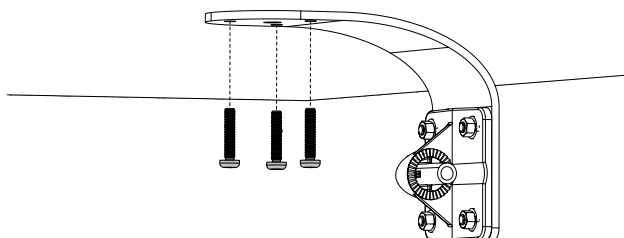
2. Bolt the wall section of the wall bracket to the ceiling bracket using the four M5 screws, plain washers and Nyloc nuts supplied with the ceiling bracket.



Make sure that the peg is sideways as shown below:



3. Fix the ceiling bracket to the ceiling. The bracket has three 5.5 mm (0.22 in) holes and a central 8.5 mm (0.33 in) hole.



If the three smaller holes will give a safe and secure fixing (for example, by using wood screws into a batten above plasterboard), you could use the central hole for cable routing.

Alternatively, you could start by using a single fixing through the central hole, allowing you to find the correct horizontal coverage by pivoting the speaker on this fixing. When you have found the best position, tighten the central fixing and add fixings to the three smaller holes.

The fixings to use depends on the ceiling construction and the [weight of the speaker \(page 53\)](#).



Make sure that the attachment to the ceiling is safe and secure, particularly as the speakers may be over people's heads.

4. At this stage, we recommend that you terminate the speaker cables with the [Phoenix-style connectors \(page 13\)](#) supplied with the speakers.

To ceiling mount CDD 5 – second fix

1. If you are installing in landscape, you must [rotate the driver \(page 11\)](#).

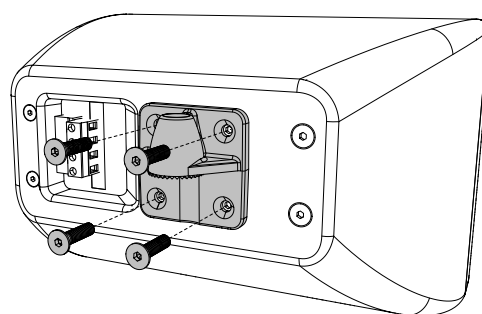
If you are installing in portrait, you need to fit the speaker in upside-down portrait and so you must [rotate the driver and grille by 180° \(page 11\)](#).



Make sure the [driver is correctly orientated \(page 10\)](#) otherwise the speaker won't perform properly.

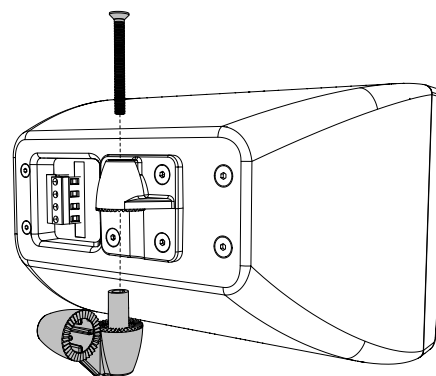
2. Remove four M5 screws from the back of the cabinet using a 3 mm hex key (H3) and attach the cabinet section of the bracket using the same screws.

For landscape, use the four screws in the middle of the cabinet and fit the bracket vertically with the opening downward, as shown below:

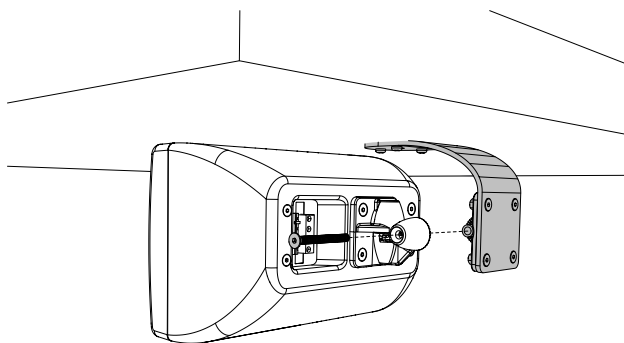


For portrait, put the speaker into upside down portrait and then use the top four screws and fit the bracket vertically with the opening downward.

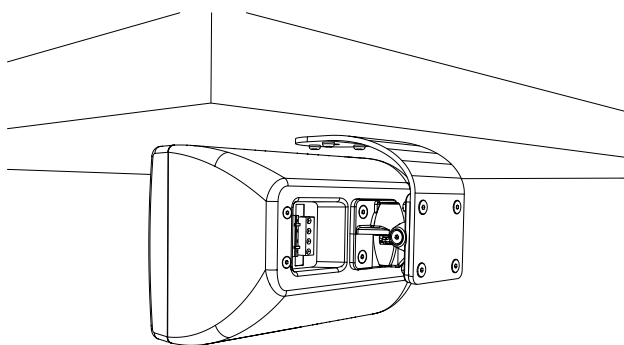
3. Connect the link section to the cabinet section of the wall bracket.



4. Lift the cabinet up to the ceiling bracket.

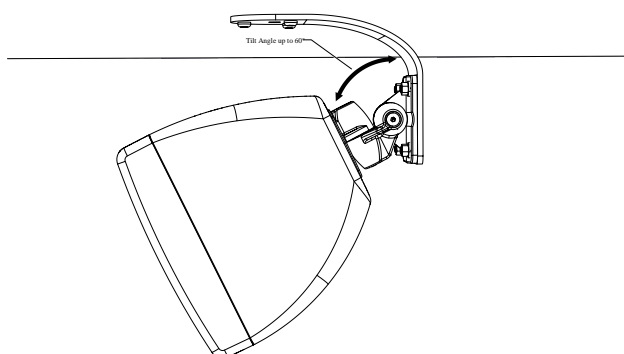


Attach the two parts of the bracket using the 5 mm securing bolt. So that you can adjust the speaker, leave the bolt slightly loose.

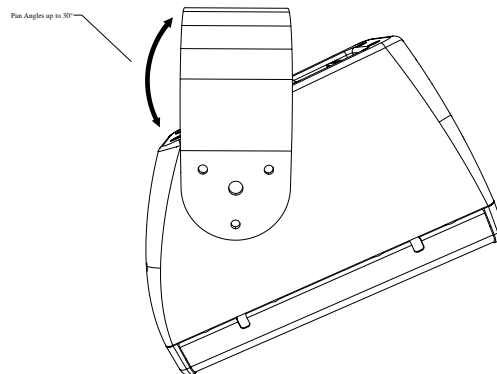


Fit the bolt slightly loosely so that you can adjust the speaker.

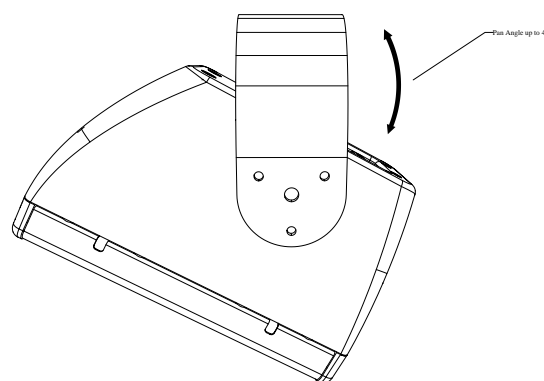
With the speaker in landscape, the maximum downward tilt angle is 60° as shown below (viewed from the side):



With the speaker in landscape, the maximum pan angle is 30° in one direction and 45° in the other. The 30° angle is shown below (viewed from the ceiling):



The 45° angle is shown below (viewed from the ceiling):



For details of tilt and pan angles, see [CDD tilt and pan angles \(page 51\)](#).

5. Connect the speaker cables using the pluggable [Phoenix-style connectors \(page 13\)](#).
6. Check the coverage using an audio source and make final adjustments to the vertical and horizontal positions.
7. When you have found the best position, tighten the vertical and horizontal bolts.

Ceiling mounting CDD 6 or 8

To mount a CDD 6 or 8 speaker on the ceiling, you need an optional ceiling bracket. The CDD 6 and 8 use the

same bracket (part number CDDCB6/8). This bracket has two sections:

- A 90° arm that attaches to the ceiling.
- A four-point square section that fixes to the rear of the cabinet.

The two sections are held together with a bolt.

To mount CDD 5 on the ceiling, you need a different bracket. For details, see [Ceiling mounting CDD 5 \(page 29\)](#).

To mount CDD 10, 12 or 15 speakers on the ceiling, you need a [yoke mounting \(page 34\)](#). Alternatively, you can [fly these speakers \(page 39\)](#) using optional eye bolts.



For details of tilt and pan angles, see [CDD tilt and pan angles \(page 51\)](#).

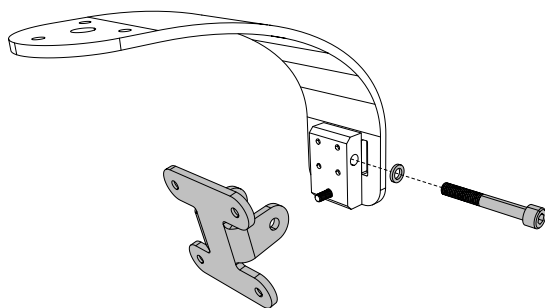
Landscape or portrait

For ceiling mounting, it's best to install the CDD 6 or 8 in landscape. In this case, you must [rotate the driver \(page 11\)](#).

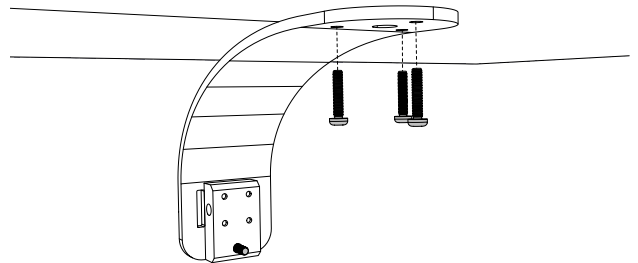
To ceiling-mount the CDD 6 or 8 in portrait, you need to install the speaker upside down. In this case, you must [rotate the grille and driver by 180° \(page 11\)](#).

To ceiling mount CDD 6 or 8 – first fix

1. Unscrew the cabinet section of the bracket from the ceiling arm using an M6 hex key.



2. Fix the ceiling arm to the ceiling. The ceiling arm has three 6.5 mm (0.26 in) holes and a central 13 mm (0.51 in) hole.



If the three smaller holes will give a safe and secure fixing (for example, by using wood screws into a batten above plasterboard), you could use the central hole for cable routing.

Alternatively, you could start by using a single fixing through the central hole, allowing you to find the correct horizontal coverage by pivoting the speaker on this fixing. When you have found the best position, tighten the central fixing and add fixings to the three smaller holes.

The fixings to use depends on the ceiling construction and the [weight of the speaker \(page 53\)](#).



Make sure that the attachment to the ceiling is safe and secure, particularly as the speakers may be over people's heads.

3. At this stage, we recommend that you terminate the speaker cables with the [Phoenix-style connectors \(page 13\)](#) supplied with the speakers.

To ceiling mount CDD 6 or 8 – second fix

1. If you are installing in landscape, [rotate the driver by 90° \(page 11\)](#).

If you are installing in portrait, you will need to install the speaker upside down, so [rotate the driver and grill by 180° \(page 11\)](#).

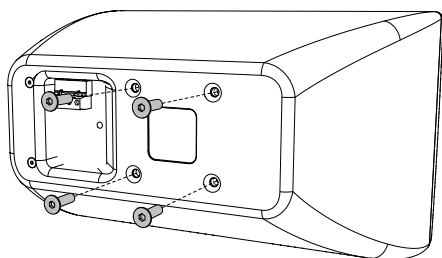


Make sure the [driver is correctly orientated \(page 10\)](#) otherwise the speaker won't perform properly.

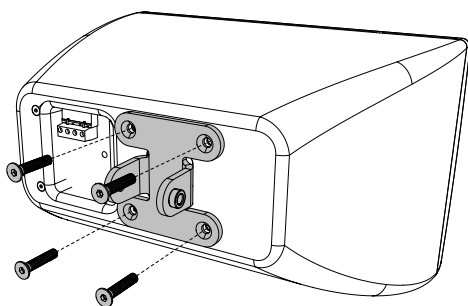
2. Remove four M6 screws from the cabinet using a 4 mm hex key (H4) and attach the cabinet bracket section using the same screws.

For CDD 8, there are six screws on the back. For CDD 8 in landscape use the middle four screws, so the bracket is in the middle of the cabinet. For CDD 8 in portrait, use the lower four screws, so that when you install the speaker in upside-down portrait, the bracket is at the top of the speaker.

For CDD 6 (shown below), there are only four screws on the back, so there's no choice of position.

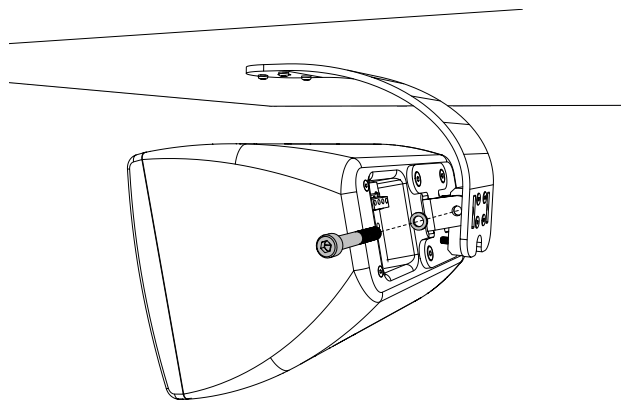


For CDD 6 or 8 in landscape, fit the bracket so that the bolt holes are horizontal as shown below.



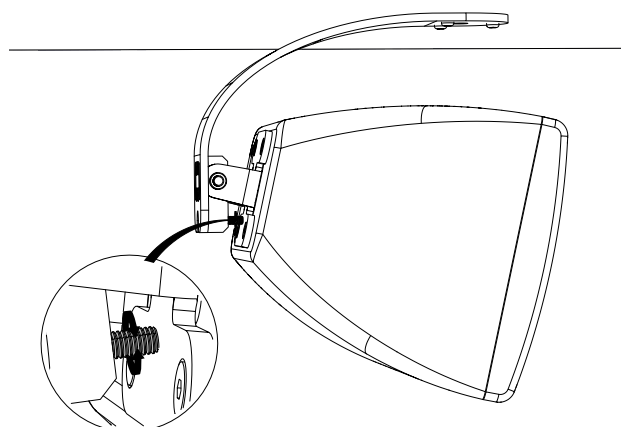
For CDD 6 or 8 in portrait, fit the bracket so that the bolt holes are horizontal in portrait.

3. Lift the cabinet up to the ceiling bracket and attach the two parts of the bracket using the 5 mm securing bolt. Leave the bolt a little loose, so you can adjust the vertical speaker position.



If you are installing in portrait, remember to install the speaker upside-down.

4. Adjust the vertical position using the grub screw accessed from the rear of the bracket.



For details of tilt and pan angles, see [CDD tilt and pan angles \(page 51\)](#).

5. Connect the speaker cables using the pluggable [Phoenix-style connectors \(page 13\)](#).
6. Check the coverage using an audio source and make final adjustments to the vertical and horizontal positions.
7. When you have found the best position, tighten the vertical and horizontal bolts.

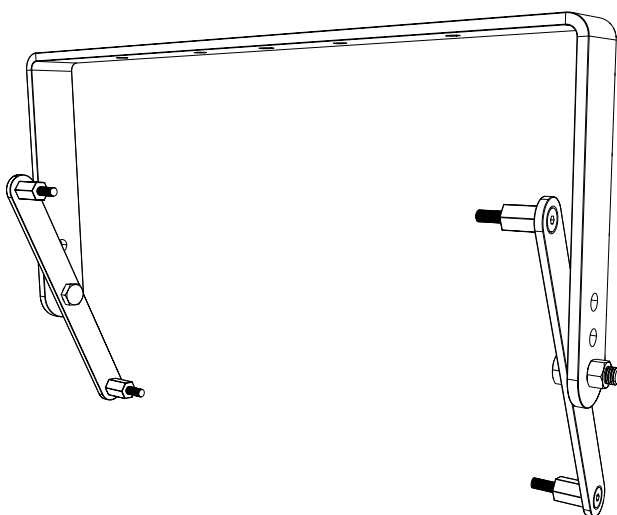
Yoke mounting CDD

Yokes allow you to mount the three largest CDD speakers (CDD 10, 12 and 15) in landscape on ceilings, walls, [truss, scaffold bars \(page 37\)](#) or [poles \(page 38\)](#). Note that:

- For wall mounting, [wall brackets \(page 24\)](#) are usually better as you can tilt and pan the speakers (with a yoke you can only tilt) and you can mount in landscape or portrait (with a yoke you can only mount in landscape).
- For ceiling installations, you can alternatively fly individual speakers using [eye bolts \(page 39\)](#). You can fly speakers in landscape or portrait.

The CDD yoke consists of:

- Two side bars that bolt to the sides of the loudspeaker.
- A U-shaped frame that you fix to the ceiling, wall, truss, scaffold bar or pole.



We have three CDD yokes, one for each size of speaker:

- CDDY10 for CDD 10.
- CDDY12 for CDD 12.
- CDDY15 for CDD 15.

The only difference between these yokes is size and weight.

For permanent installations, you can use first and second fix procedures:

- **First fix** – fix the yoke to the ceiling, wall or pole.
- **Second fix** – fix the cabinet to the yoke.

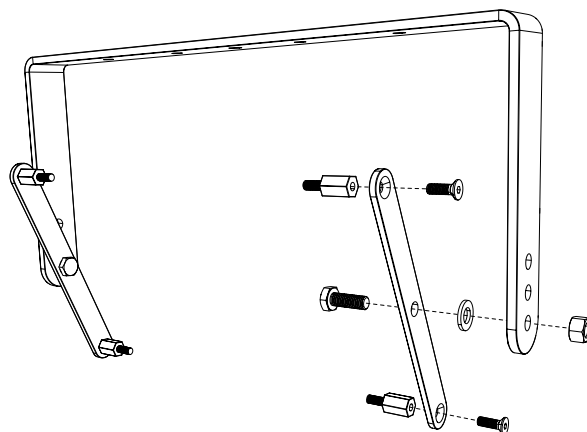


For details of tilt and pan angles, see [CDD tilt and pan angles \(page 51\)](#).

To mount a yoke on a ceiling or wall – first fix

1. Fit the side bars to the yoke frame using the M12 nyloc nuts and bolts supplied. Put a washer between the side bar and the yoke frame.

There are three possible fixing holes to use for each side bar. The hole to use will depend on the angle of down-tilt you need. You could loosely fit the assembly together at ground level to determine the best hole to use.



2. Tighten the side bars sufficiently to allow a little movement for final positioning at second fix.
3. Fit the yoke to the wall or ceiling.

The frame has four 10.5 mm (0.41 in) holes and a central 12.5 mm (0.49 in) hole. You can attach the frame using the four smaller holes or the larger central hole.

When the speaker is attached to the yoke, you can normally only adjust the speaker vertically. But if you fit the yoke to a ceiling using the central hole, you can also adjust horizontally, by rotating the yoke on the single attachment point before tightening the fixing.

If you fit using the central hole, you must use a sufficiently robust fixing method for this single point

of attachment, and we strongly recommend that you use a [secondary safety fitting \(page 37\)](#).

If you fix using the smaller holes, you could use the central hole for cable access.

The fixings to use depends on the ceiling construction and the [weight of the speaker \(page 53\)](#).



Make sure that the attachment to the ceiling is safe and secure, particularly as the speakers may be over people's heads.

4. At this stage, we recommend that you terminate the speaker cables with the [Phoenix-style connectors \(page 13\)](#) supplied with the speakers.

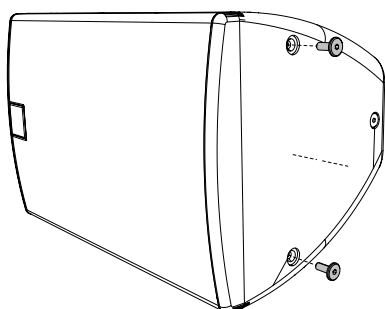
To mount a yoke on a ceiling or wall – second fix

1. Rotate the driver for landscape use. For details, see [To rotate the driver \(page 11\)](#).

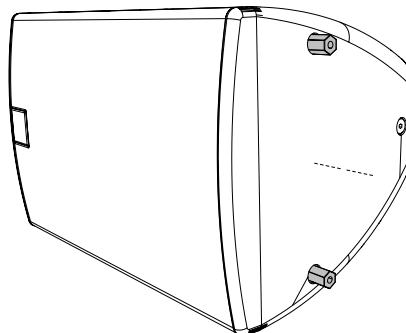


Make sure the [driver is correctly orientated \(page 10\)](#) otherwise the speaker won't perform properly.

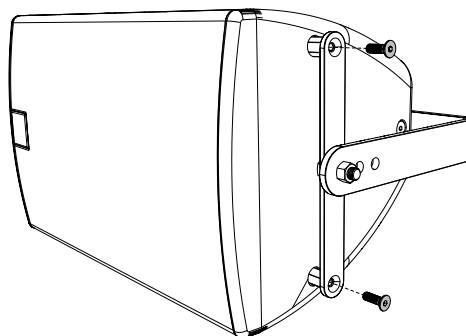
2. Remove two M8 screws on each side of the cabinet, as shown below. Keep these screws.



3. Replace the screws with the hex spacers supplied. Make sure these spacers are secure.



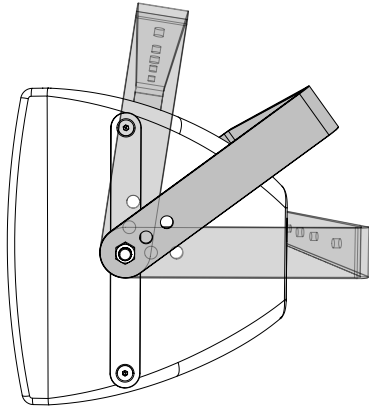
4. Attach the cabinet to the yoke assembly using the screws you removed earlier. For safety, this step needs two people, one to hold the cabinet in position and the other to fit the securing bolts at each end.



When working at height, you must observe all standard safety protocols.

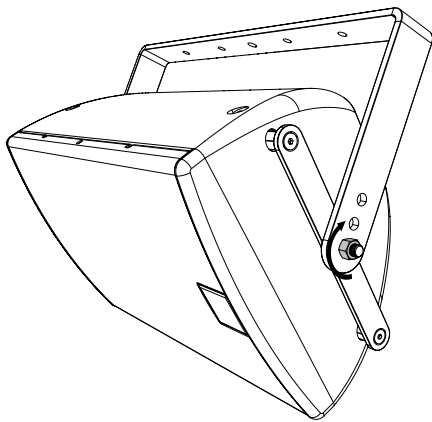
5. Connect the speaker cables using the pluggable [Phoenix-style connectors \(page 13\)](#).

6. Check the coverage using an audio source and make final adjustments to the vertical and horizontal positions.



For details of tilt and pan angles, see [CDD tilt and pan angles \(page 51\)](#).

7. When you have found the best position, tighten the vertical and horizontal bolts.



Truss mounting CDD

To mount CDD speakers on truss or scaffold bars, use a ceiling bracket (for CDD 5, 6 or 8) or a yoke assembly (for CDD 10, 12 or 15) in combination with a third-party truss clamp or other suitable hardware.



Make sure this third-party hardware is rated for the [weight of the speaker and bracket or yoke \(page 53\)](#).

fitting an M8 eyebolt into one of the inserts provided for [flying purposes \(page 39\)](#). Attach the other end to a suitably rated anchoring point that is a permanent part of the building structure.

If the yoke is attached to a truss or scaffold bar, you could attach the chain or steel rope to the same truss or bar, provided this is a permanent fixture and not part of temporary rigging. If in doubt, check your local safety regulations.

To mount CDD 5 on truss

1. Follow the instructions in the section [Ceiling mounting CDD 5 \(page 29\)](#).
2. Attach the ceiling bracket to the third-party hardware (see above).

Use the central 8.5 mm (0.33 in) hole in the bracket and an M8 bolt, or 5/16 inch bolt with washer.

To mount CDD 6 or 8 on truss

1. Follow the instructions in the section [Ceiling mounting CDD 6 or 8 \(page 31\)](#).
2. Attach the ceiling bracket to the third-party hardware (see above).

Use the central 13 mm (0.51 in) hole in the bracket and an M12 or 1/2 inch bolt.

To mount CDD 10, 12 or 15 on truss

1. Follow the instructions in the section [Yoke mounting CDD \(page 34\)](#).
2. Attach the yoke frame to the third-party hardware (see above).

Use the central 12.5 mm (0.49 in) hole in the yoke frame and an M12 bolt, or 7/16 inch bolt with washer. Alternatively, use the four 10.5 mm (0.41 in) holes and M10 bolts, or 3/8 inch bolts with washers.

3. Fit a [secondary safety device \(page 37\)](#).

This is essential for safe operation.

Secondary safety retaining device

Use a chain or steel rope attached directly to the cabinet, **not** to the yoke. You can attach this to the cabinet by

Pole mounting CDD

To mount CDD 10, 12 or 15 on a pole, use a yoke attached to a Martin Audio pole mount adaptor (part ASF20045). The pole could be a Martin Audio wind-up telescopic pole (part ASF20071), or a compatible third-party pole or pole stand. Make sure the pole and any floor stand are rated for the [weight of the cabinet and yoke \(page 53\)](#).

To mount a CDD on a pole

1. Fit the side bars to the yoke frame as described in the section [To mount a yoke on a ceiling or wall – first fix \(page 34\)](#).
2. Attach the yoke frame to the pole mount adaptor using the central hole in the yoke and the M12 bolt supplied with the adaptor.
3. Fit the cabinet to the yoke. See [To mount a yoke on a ceiling or wall – second fix \(page 35\)](#).
4. Install the adaptor (and yoke and cabinet) on the pole.

Eye bolt mounting CDD

You can fly individual CDD 10, 12 and 15 speakers using Martin Audio M8 shouldered eye bolts (part number HTKCT05) and steel rope or chains. This allows you to suspend individual speakers from suitable fixings in the ceiling or from trusses or scaffolding bars. Note that the CDD 5, 6 and 8 don't have eye bolt fittings, so you can't fly these speakers.



Don't use eye bolts from other manufacturers, as this could be dangerous.

Forged-steel eye bolts available from DIY suppliers are **not** strong enough. Even cast or machined eye bolts rated for purpose can be unsuitable, as they can have wide shoulders that cause the bolt to tighten against the cabinet rather than the thread.

You can fly CDD 10, 12 and 15 in portrait or landscape. For landscape, you must [rotate the driver \(page 11\)](#).

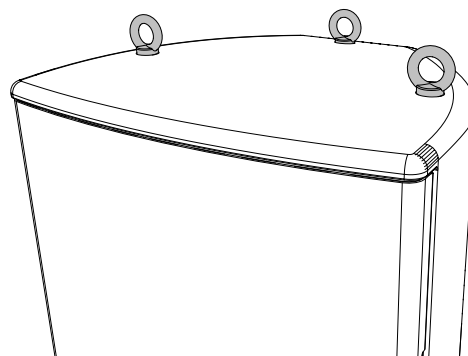
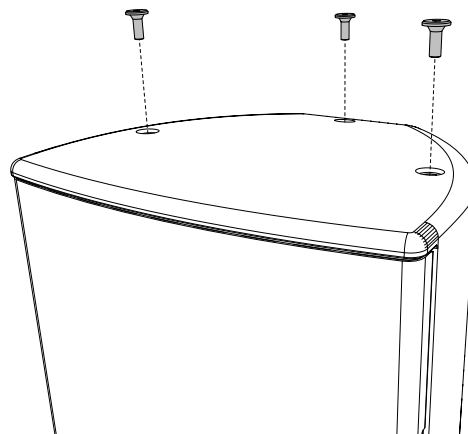


Make sure the [driver is correctly orientated \(page 10\)](#) otherwise the speaker won't perform properly.

Each cabinet has ten M8 inserts. With the cabinet in portrait, three of the inserts are on the top, two on the bottom, two on each side and one on the back.

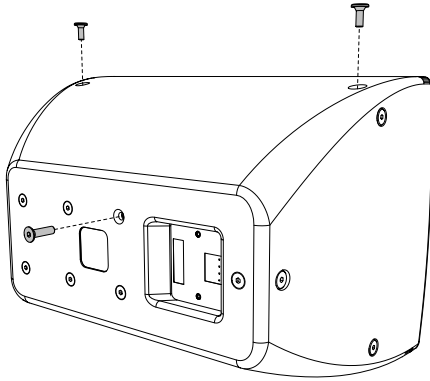
To suspend cabinets in portrait, the most common method is to use the three insert positions on the top,

the front two as the primary suspension points and the third providing downward tilt.

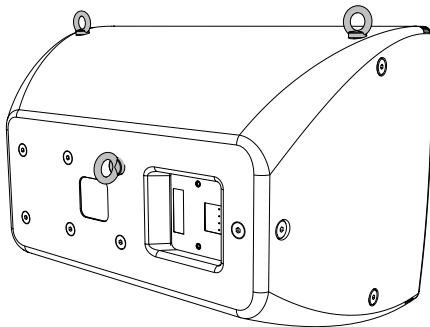


If you need a steeper tilt, you can use the insert on the back of the cabinet as the third position.

To suspend cabinets horizontally, the third flying point (to adjust tilt) can be one of the six M8 bracket screws on the back of the cabinet.



Remove one of these screws and fit the third eye bolt in this position.



The rigging method and components must be suitable for both the [weight of the speaker \(page 53\)](#) and the suspension points.

Recommended amplifiers

For low impedance systems, we recommend Martin Audio VIA and iKON amplifiers, as shown below.

Model	VIA2004	VIA2502, VIA5004	VIA5002, iK41, iK42, iK81
CDD5	Yes	Yes	Yes
CDD6		Yes	Yes
CDD8		Yes	Yes
CDD10			Yes
CDD12			Yes
CDD15			Yes

For 70/100 V line systems, see [Amplifiers for 70/100 V systems \(page 45\)](#).

VIA amplifiers

We have four VIA amplifiers, two with two channels and two with four channels.

If you use VIA amplifiers, you also need a [system controller \(page 47\)](#).

Amplifier	Power output
VIA2004	4 x 500 W into 4 ohms
	4 x 250 W into 8 ohms
VIA2502	2 x 1,250 W into 2 ohms
	2 x 800 W into 4 ohms
	2 x 450 W into 8 ohms
	1 x 2,500 W bridged into 4 ohms
VIA5002	1 x 1,600 W bridged into 8 ohms
	2 x 2,500 W into 4 ohms
	2 x 1,600 W into 8 ohms
VIA5004	4 x 1,250 W into 2 ohms
	4 x 800 W into 4 ohms
	4 x 450 W into 8 ohms
	2 x 2,500 W bridged into 4 ohms
	2 x 1,600 W bridged into 8 ohms

For further details, see our website martin-audio.com.

iKON amplifiers

We have three iKON amplifiers, two with four channels and one with eight channels.

The iKON amplifiers have on-board system processing, so you don't need a separate [system controller \(page 47\)](#).

Amplifier	Power output
iK41	4 x 1,500 W into 2 ohms
	4 x 1,500 W into 4 ohms
	4 x 750 W into 8 ohms
	4 x 325 W into 16 ohms
	2 x 3,000 W bridged into 4 ohms
	2 x 3,000 W bridged into 8 ohms
iK42	4 x 5,000 W into 2 ohms
	4 x 3,000 W into 4 ohms
	4 x 1,500 W into 8 ohms
	4 x 750 W into 16 ohms
	2 x 10,000 W bridged into 4 ohms
iK81	2 x 6,000 W bridged into 8 ohms
	8 x 1,250 W into 2 ohms
	8 x 1,250 W into 4 ohms
	8 x 1,250 W into 8 ohms
	8 x 625 W into 16 ohms
	4 x 2,500 W bridged into 4 ohms
	4 x 2,500 W bridged into 8 ohms

For further details, see our website martin-audio.com.

Amplifier compatibility

CDD 5 amplifier compatibility

Amplifier	Channels	Channels used	One speaker per channel (8 ohm)	Two speakers per channel (4 ohm)	Three speakers per channel (2.67 ohm)	Four speakers per channel (2 ohm)
iK41	One channel	1 of 4	Yes	Yes	Yes	Yes
	Two channels bridged	2 of 4	NA	NA	NA	NA
iK42	One channel	1 of 4	Yes	Yes	Yes	Yes
	Two channels bridged	2 of 4	NA	NA	NA	NA
iK81	One channel	1 of 8	Yes	Yes	Yes	Yes
	Two channels bridged	2 of 8	NA	NA	NA	NA
VIA5004	One channel	1 of 4	Yes	Yes	Yes	Yes
	Two channels bridged	2 of 4	NA	NA	NA	NA
VIA2502	One channel	1 of 2	Yes	Yes	Yes	Yes
	Two channels bridged	2 of 2	NA	NA	NA	NA
VIA5002	One channel	1 of 2	Yes	Yes	No	No
	Bridging not available	NA	NA	NA	NA	NA
VIA2004	One channel	1 of 4	Yes	Yes	No	No
	Bridging not available	NA	NA	NA	NA	NA

CDD 6 amplifier compatibility

Amplifier	Channels	Channels used	One speaker per channel (8 ohm)	Two speakers per channel (4 ohm)	Three speakers per channel (2.67 ohm)	Four speakers per channel (2 ohm)
iK41	One channel	1 of 4	Yes	Yes	Yes	Yes
	Two channels bridged	2 of 4	NA	NA	NA	NA
iK42	One channel	1 of 4	Yes	Yes	Yes	Yes
	Two channels bridged	2 of 4	NA	NA	NA	NA
iK81	One channel	1 of 8	Yes	Yes	Yes	Yes
	Two channels bridged	2 of 8	NA	NA	NA	NA
VIA5004	One channel	1 of 4	Yes	Yes	Yes	Yes
	Two channels bridged	2 of 4	NA	NA	NA	NA
VIA2502	One channel	1 of 2	Yes	Yes	Yes	Yes
	Two channels bridged	2 of 2	NA	NA	NA	NA
VIA5002	One channel	1 of 2	Yes	Yes	No	No
	Bridging not available	NA	NA	NA	NA	NA
VIA2004	One channel	1 of 4	–0.8	–0.8	No	No
	Bridging not available	NA	NA	NA	NA	NA

CDD 8 amplifier compatibility

Amplifier	Channels	Channels used	One speaker per channel (8 ohm)	Two speakers per channel (4 ohm)	Three speakers per channel (2.67 ohm)	Four speakers per channel (2 ohm)
iK41	One channel	1 of 4	Yes	Yes	Yes	–0.3
	Two channels bridged	2 of 4	NA	NA	NA	NA
iK42	One channel	1 of 4	Yes	Yes	Yes	Yes
	Two channels bridged	2 of 4	NA	NA	NA	NA
iK81	One channel	1 of 8	Yes	Yes	Yes	–1.1
	Two channels bridged	2 of 8	NA	NA	NA	NA
VIA5004	One channel	1 of 4	Yes	Yes	–1.1	–1.1
	Two channels bridged	2 of 4	NA	NA	NA	NA
VIA2502	One channel	1 of 2	Yes	Yes	–1.1	–1.1
	Two channels bridged	2 of 2	NA	NA	NA	NA
VIA5002	One channel	1 of 2	Yes	Yes	No	No
	Bridging not available	NA	NA	NA	NA	NA
VIA2004	One channel	1 of 4	–2.0	–2.0	No	No
	Bridging not available	NA	NA	NA	NA	NA

CDD 10 amplifier compatibility

Amplifier	Channels	Channels used	One speaker per channel (8 ohm)	Two speakers per channel (4 ohm)	Three speakers per channel (2.67 ohm)	Four speakers per channel (2 ohm)
iK41	One channel	1 of 4	Yes	Yes	Yes	–1.2
	Two channels bridged	2 of 4	NA	NA	NA	NA
iK42	One channel	1 of 4	Yes	Yes	Yes	Yes
	Two channels bridged	2 of 4	NA	NA	NA	NA
iK81	One channel	1 of 8	Yes	Yes	–0.8	–2.0
	Two channels bridged	2 of 8	NA	NA	NA	NA
VIA5004	One channel	1 of 4	–0.5	–1.0	–2.0	–2.0
	Two channels bridged	2 of 4	Yes	Yes	NA	NA
VIA2502	One channel	1 of 2	–0.5	–1.0	–2.0	–2.0
	Two channels bridged	2 of 2	Yes	Yes	NA	NA
VIA5002	One channel	1 of 2	Yes	Yes	No	No
	Bridging not available	NA	NA	NA	NA	NA
VIA2004	One channel	1 of 4	No	No	No	No
	Bridging not available	NA	NA	NA	NA	NA

CDD 12 amplifier compatibility

Amplifier	Channels	Channels used	One speaker per channel (8 ohm)	Two speakers per channel (4 ohm)	Three speakers per channel (2.67 ohm)	Four speakers per channel (2 ohm)
iK41	One channel	1 of 4	Yes	Yes	–0.8	–2.0
	Two channels bridged	2 of 4	NA	NA	NA	NA
iK42	One channel	1 of 4	Yes	Yes	Yes	Yes
	Two channels bridged	2 of 4	NA	NA	NA	NA
iK81	One channel	1 of 8	Yes	Yes	–1.6	No
	Two channels bridged	2 of 8	NA	NA	NA	NA
VIA5004	One channel	1 of 4	–1.2	–1.8	No	No
	Two channels bridged	2 of 4	Yes	Yes	NA	NA
VIA2502	One channel	1 of 2	–1.2	–1.8	No	No
	Two channels bridged	2 of 2	Yes	Yes	NA	NA
VIA5002	One channel	1 of 2	Yes	Yes	No	No
	Bridging not available	NA	NA	NA	NA	NA
VIA2004	One channel	1 of 4	No	No	No	No
	Bridging not available	NA	NA	NA	NA	NA

CDD 15 amplifier compatibility

Amplifier	Channels	Channels used	One speaker per channel (8 ohm)	Two speakers per channel (4 ohm)	Three speakers per channel (2.67 ohm)	Four speakers per channel (2 ohm)
iK41	One channel	1 of 4	–0.3	–0.3	–2.0	No
	Two channels bridged	2 of 4	Yes	Yes	NA	NA
iK42	One channel	1 of 4	Yes	Yes	Yes	Yes
	Two channels bridged	2 of 4	NA	NA	NA	NA
iK81	One channel	1 of 8	Yes	–1.1	No	No
	Two channels bridged	2 of 8	NA	Yes	NA	NA
VIA5004	One channel	1 of 4	No	No	No	No
	Two channels bridged	2 of 4	Yes	Yes	NA	NA
VIA2502	One channel	1 of 2	No	No	No	No
	Two channels bridged	2 of 2	Yes	Yes	NA	NA
VIA5002	One channel	1 of 2	Yes	Yes	No	No
	Bridging not available	NA	NA	NA	NA	NA
VIA2004	One channel	1 of 4	No	No	No	No
	Bridging not available	NA	NA	NA	NA	NA

Amplifiers for 70/100 V systems

For a 70/100 V line system, use one of the following amplifiers:

- Martin Audio VIA5002. This is the only VIA amplifier that supports 70/100 V line systems.
- Martin Audio iKON amplifiers (iK41, iK42 and iK81). Note that the iKON amplifiers have on-board system processing, so you don't need a separate system controller with these amplifiers.

Amplifier	Power output
VIA5002	2 x 2,500 W, 70 V line
	2 x 2,500 W, 100 V line
iK41	4 x 1,500 W, 70 V line
	4 x 1,163 W, 100 V line
iK42	4 x 3,500 W, 70 V line
	4 x 5,000 W, 100 V line
iK81	8 x 1,250 W, 70 V line
	8 x 1,250 W, 100 V line

For further details, see our website martin-audio.com.

Other amplifiers

If you use power amplifiers from other manufacturers, the amplifiers must be capable of delivering the necessary power into the combined impedance of the cabinets.

Note that many amplifiers suffer sonic degradation when driving low load impedances or, worse still, shut down.

You must check the specification of the power amplifiers and conduct listening tests before committing to a very low impedance system design.

With amplifiers from other manufacturers, you will also need a [system controller \(page 47\)](#).

The table below specifies the recommended minimum amplifier rating for each of the CDD speakers.

Model	Rating, AES	Impedance	Minimum amplifier
CDD5	100 W	8 ohms	400 W into 4 ohms
CDD6	150 W	8 ohms	600 W into 4 ohms
CDD8	200 W	8 ohms	800 W into 4 ohms
CDD10	250 W	8 ohms	1,000 W into 4 ohms
CDD12	300 W	8 ohms	1,200 W into 4 ohms
CDD15	400 W	8 ohms	1,600 W into 4 ohms

System controllers

If you use VIA amplifiers (or amplifiers from other manufacturers), you also need a system controller. We recommend the Martin Audio DX4.0, DX0.4 or DX0.6. For further details, see our website martin-audio.com.

If you use an iKON amplifier (iK41, iK42 or iK81), you don't need a system controller as these amplifiers have on-board digital processing. For further details, see our website martin-audio.com.

Each of these system controllers and iKONs have presets for CDD loudspeakers and SX subwoofers (and other Martin Audio loudspeakers) to give you the best possible performance from your system.

DX4.0 and iKON amplifier presets

To recall DX4.0 and iKON presets, use **Vu-Net** or the front panel.

- For details of **Vu-Net**, go to our website martin-audio.com, select **Support > Software/Firmware**, scroll to the **Vu-Net** section and click **USER GUIDE**.
- For details of the front panel, go to our website martin-audio.com, select **Support > User Guides**, scroll to the **Electronics** section and click on **DX4.0, iK41, iK42 or iK81**.

DX0.4 and DX0.6 presets

To recall DX0.4 and DX0.6 presets, use the **DX0.4 and DX0.6 Control Software** or the front panel.

- For details of the **DX0.4 and DX0.6 Control Software**, go to our website martin-audio.com, select **Support > Software/Firmware**, scroll to the **DX0.4 and DX0.6 Control Software** section and click **USER GUIDE**.
- For details of the front panel, go to our website martin-audio.com, select **Support > User Guides**, scroll to the **Electronics** section and click on **DX0.4 or DX0.6**.

Using other controllers

If you use a controller from another manufacturer, you need to configure settings such as crossovers, limiters and equalisation points. You can find these settings in our **Loudspeaker parameter spreadsheet**, which we provide as a free download. For details of how to use the spreadsheet, read the instructions in the spreadsheet or watch the video guide.

To download the loudspeaker parameter spreadsheet

1. Go to our website martin-audio.com.
2. Select **Support > Loudspeaker Settings**.
3. Scroll to **CURRENT-PRODUCT-PARAMETERS** and click **DOWNLOAD**.

To view the video guide to the parameter spreadsheet

1. Go to our website martin-audio.com.
2. Select **Support > Loudspeaker Settings**.
3. Scroll to **PARAMETER VIDEO** and click **VIDEO**.

Subwoofers

You can pair any CDD with any of our SX subwoofers, so you can pair a CDD 5 with an SX218 if you really want to. But some combinations make more sense than others, so we've shown those in the table below:

	CDD5	CDD6	CDD8	CDD10	CDD12	CDD15
SX110	Yes	Yes				
SX210	Yes	Yes	Yes			
SX112	Yes	Yes	Yes	Yes		
SX212	Yes	Yes	Yes	Yes	Yes	
SX115		Yes	Yes	Yes	Yes	
SXC115		Yes	Yes	Yes	Yes	
SX215			Yes	Yes	Yes	Yes
SX118				Yes	Yes	Yes
SXC118				Yes	Yes	Yes
SX218					Yes	Yes

For details of the SX subwoofers, see our website martin-audio.com.

Subwoofer location

SX subwoofers have omnidirectional dispersion characteristics, so the location of the sub can be dictated by convenience and practicality; this is usually somewhere on the floor. With a stereo system it is often only necessary to use a single subwoofer; the active crossover will generate the mono LF feed required.

Weatherised CDDs

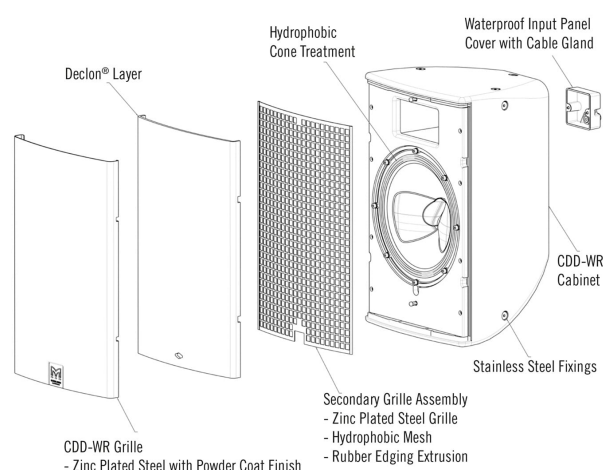
The weatherised versions of CDDs have factory-fitted weather proofing components and are available in black or white. These versions have two additional layers of protection behind the front grille:

1. A Declon® (synthetic fibre) layer.
2. A zinc-plated steel grille assembly with a hydrophobic (water-repellent) coating and a rubber edge extrusion.

In addition:

- The LF driver cone has a hydrophobic coating.
- The rear connection panel is protected by a gasketed cover with a cable gland.
- The fixing points are stainless steel.

The weatherised versions meet environmental testing to IP rating IP54 and have an operating temperature of – 20°C to +70°C.



Marine CDDs

The marine versions of CDD are engineered for saltwater environments such as cruise ships and beach-side locations. These versions meet the requirements of IEC 529 to an IP rating of IP54. They have been UV tested to BS EN ISO 4892–2:2013 method A – cycle B, accelerated 1600-hour UV test.

The operating temperature is -20°C to $+70^{\circ}\text{C}$.

For the marine 70/100 V line versions of the CDD 8 and 10 (CDD8TX-MAR and CDD10TX-MAR), the factory-fitted cable is five-core 1.5 mm^2 cable rather than two-core. For details, see [70/100 V line versions \(page 13\)](#).

Cabinets

- Cabinet construction consists of an injection moulded back shell. This is fabricated from a durable polypropylene cellulose reinforced composite material, finished with a UV stabilised Plastilack paint.
- Front baffle and cabinet bracing are fabricated from birch plywood, finished with a tough Polyurethane paint with a UV resistant topcoat.
- Baffles are fixed to the cabinet with a 2-part 3M adhesive and A4 stainless steel screws.
- Internal cabinet braces are fixed using a 2-part 3M adhesive.

Fixings

- External fixings are A4 marine-grade stainless steel.
- Internal brackets are 316L stainless steel with A4 stainless steel captive nuts.

Grille

- The grille assembly is a UV resistant, 1.5 mm 316L stainless steel sheet, backed with fine polyester cloth, finished with a nylon reinforced polyester powder coat.
- A layer of Declon and a secondary 316L stainless steel grille with a hydrophobic Saati mesh.

Speaker components

- Loudspeaker cone surfaces are coated with a water proofing treatment.

Speaker cabling

- Factory-fitted captive 3 m, two-core 2.5 mm^2 speaker cable sealed with a cable gland and fitted to a 316L stainless steel plate on the rear of the cabinet.

CDD tilt and pan angles

Notat that with the latest version of the CDD 6, 8, 10 or 12 wall brackets, you can increase the maximum pan angle using a [wall spacer accessory kit](#) (page 68).

			Portrait	Landscape, flat side on right, curved side on left	Landscape, flat side on left, curved side on right
CDD 5	Wall bracket	Down tilt	0 to 70°	0 to 60°	0 to 60°
		Up tilt	0 to 25°	0 to 45°	0 to 45°
		Left pan	0 to 45°	0 to 45°	0 to 30°
		Right pan	0 to 45°	0 to 30°	0 to 45°
	Ceiling bracket	Down tilt	NA	0 to 60°	0 to 60°
		Up tilt	NA	0°	0°
		Left pan	NA	0 to 45°	0 to 30°
		Right pan	NA	0 to 30°	0 to 45°
CDD 6	Wall bracket	Down tilt	0 to 25°	0 to 20°	0 to 20°
		Up tilt	0°	0°	0°
		Left pan	0 to 55°	0 to 45°	0 to 20°
		Right pan	0 to 50°	0 to 20°	0 to 45°
	Ceiling bracket	Down tilt	NA	0 to 35°	0 to 35°
		Up tilt	NA	0°	0°
		Left pan	NA	Set at install	Set at install
		Right pan	NA	Set at install	Set at install
CDD 8	Wall bracket	Down tilt	0 to 20°	0 to 25°	0 to 25°
		Up tilt	0°	0°	0°
		Left pan	0 to 45°	0 to 20°	0 to 15°
		Right pan	0 to 45°	0 to 15°	0 to 20°
	Ceiling bracket	Down tilt	NA	0 to 35°	0 to 35°
		Up tilt	NA	0°	0°
		Left pan	NA	Set at install	Set at install
		Right pan	NA	Set at install	Set at install
CDD 10	Wall bracket	Down tilt	0 to 30°	0 to 25°	0 to 25°
		Up tilt	0°	0°	0°
		Left pan	0 to 40°	0 to 20°	0 to 15°
		Right pan	0 to 45°	0 to 15°	0 to 20°
	Yoke	Down tilt	NA	0 to 90°	0 to 90°
		Up tilt	NA	0 to 90°	0 to 90°
		Left pan	NA	Set at install	Set at install
		Right pan	NA	Set at install	Set at install

			Portrait	Landscape, flat side on right, curved side on left	Landscape, flat side on left, curved side on right
CDD 12	Wall bracket	Down tilt	0 to 25°	0 to 25°	0 to 25°
		Up tilt	0°	0°	0°
		Left pan	0 to 45°	0 to 25°	0 to 15°
		Right pan	0 to 40°	0 to 15°	0 to 25°
	Yoke	Down tilt	NA	0 to 90°	0 to 90°
		Up tilt	NA	0 to 90°	0 to 90°
		Left pan	NA	Set at install	Set at install
		Right pan	NA	Set at install	Set at install
CDD 15	Wall bracket	Down tilt	0 to 30°	0 to 30°	0 to 30°
		Up tilt	0°	0°	0°
		Left pan	0 to 54°	0 to 34°	0 to 21°
		Right pan	0 to 53°	0 to 21°	0 to 34°
	Yoke	Down tilt	NA	0 to 90°	0 to 90°
		Up tilt	NA	0 to 90°	0 to 90°
		Left pan	NA	Set at install	Set at install
		Right pan	NA	Set at install	Set at install

CDD weights

CDD speaker weights

CDD5	3.0 kg (6.6 lbs)
CDD5TX-WR, CDD5TX-MAR	3.4 kg (7.5 lbs)
CDD6	5.7 kg (12.5 lbs)
CDD6TX-WR, CDD6TX-MAR	6.8 kg (14.9 lbs)
CDD8	9.5 kg (21.0 lbs)
CDD8-WR, CDD8-MAR	9.8 kg (21.6 lbs)
CDD8TX	11.1 kg (24.5 lbs)
CDD8TX-WR, CDD8TX-MAR	11.4 kg (25.1 lbs)
CDD10	15.3 kg (33.7 lbs)
CDD10-WR, CDD10-MAR	15.5 kg (34.2 lbs)
CDD10TX	16.9 kg (37.2 lbs)
CDD10TX-WR, CDD10TX-MAR	17.1 kg (37.7 lbs)
CDD12	19.0 kg (41.9 lbs)
CDD12-WR, CDD12-MAR	19.8 kg (43.7 lbs)
CDD15	26.0 kg (57.3 lbs)
CDD15-WR, CDD15-MAR	28.3 kg (62.4 lbs)

CDD accessory weights

CDD5	Wall bracket	ASM10001 or ASM10002	0.1 kg (0.3 lb)
	Ceiling bracket	CDDCB5	0.5 kg (1.2 lb)
CDD6	Wall bracket	WB6/8	0.6 kg (1.4 lb)
	Ceiling bracket	CDDCB6/8	1.5 kg (3.4 lb)
CDD8	Wall bracket	WB6/8	0.6 kg (1.4 lb)
	Ceiling bracket	CDDCB6/8	1.5 kg (3.4 lb)
CDD10	Wall bracket	WB10/12	1.3 kg (2.8 lb)
	Yoke	CDDY10	4.1 kg (8.9 lb)
CDD12	Wall bracket	WB10/12	1.3 kg (2.8 lb)
	Yoke	CDDY12	5.5 kg (12.0 lb)
CDD15	Wall bracket	WB15	3.2 kg (7.1 lb)
	Yoke	CDDY15	7.5 kg (16.6 lb)

CDD 5 details

CDD 5 models

CDD5B	Black CDD 5
CDD5W	White CDD 5
CDD5RAL	RAL colour CDD 5
CDD5RALTX	RAL colour 70/100 V line CDD 5
CDD5BTX-WR	Black weatherised 70/100 V line CDD 5
CDD5WTX-WR	White weatherised 70/100 V line CDD 5
CDD5BTX-MAR	Black marine 70/100 V line CDD 5
CDD5WTX-MAR	White marine 70/100 V line CDD 5

CDD 5 specification

Type	Ultra-compact, Coaxial Differential Dispersion passive two-way system
Frequency response ¹	100 Hz – 20 kHz \pm 3 dB, –10 dB @ 70 Hz
Driver	LF: 5.25" (130 mm) with 1.25" (32 mm) voice coil, long excursion, ferrite motor system HF: 0.75" (19 mm) voice coil, fabric dome with neodymium motor system
Rated power ²	100 W AES, 400 W peak
Recommended amplifier	VIA2004, VIA2502, VIA5004, VIA5002, iK41, iK42, iK81
Sensitivity ³	90 dB
Maximum SPL ³	110 dB continuous, 116 dB peak, 122 dB peak with crest factor 4
Nominal impedance	8 ohm
Dispersion ⁴	120°–90° horizontal 80° vertical (user-rotatable)
Crossover	2.5 kHz passive
Enclosure	3 litre, ABS
Finish	Black, white or RAL textured paint
Protective grille	Black, white or RAL to match enclosure Standard models: perforated steel with scrim cloth backing Weatherised and marine models: perforated, zinc-plated steel with scrim cloth backing, Declon synthetic fabric layer and inner, zinc-plated, hydrophobic steel mesh layer
Connectors	Standard models: Phoenix-style plug with screw connections (see Accessories below) TX models: terminal block with spring connections Weatherised models: connections as above (standard or TX) with weatherproof cover (see Accessories below) Marine models: factory fitted 3 m (9 ft 10 in) cable (internal connections not accessible)

Pin connections	Standard models, left to right: Input +, Input –, Link –, Link +
Fittings	6 x M5 inserts for wall and ceiling brackets
IP rating	Weatherised and marine models: IP54
Operating temperature	Weatherised and marine models: –20°C to +70°C
Dimensions	(W) 160 mm x (H) 230 mm x (D) 149 mm (W) 6.3 in x (H) 9.1 in x (D) 5.9 in
Weight CDD5	3.0 kg (6.6 lbs)
Weight CDD5TX-WR, CDD5TX-MAR	3.4 kg (7.5 lbs)
Accessories (supplied)	Standard and weatherised CDD 5, 6 and 8 (not TX, TX-WR or marine) supplied with a Phoenix-style 12 A plug with screw connections (replacement part PSX00006) All CDD 5 models supplied with a weatherised wall bracket (replacement part ASM10001 for white or ASM10002 for black) Weatherised CDD 5 and 6 supplied with a weatherproof cover, screws, gasket seal and cable gland (all these parts in replacement kit AIPKIT for black or AIPKIT-W for white)
Accessories (optional)	Weatherised ceiling bracket (CDDCB5B for black and CDDCB5W for white) fits to the wall bracket

¹On-axis in open space (4 pi) at 1 m.

²AES Standard ANSI S4.26-1984.

³In open space (4 pi) at 1 m with 2.83 V input and band-limited pink noise.

⁴In open space (4 pi) at 2 m to –6 dB.

CDD 6 details

CDD 6 models

CDD6B	Black CDD 6
CDD6W	White CDD 6
CDD6RAL	RAL colour CDD 6
CDD6RALTX	RAL colour 70/100 V line CDD 6
CDD6BTX-WR	Black weatherised 70/100 V line CDD 6
CDD6WTX-WR	White weatherised 70/100 V line CDD 6
CDD6BTX-MAR	Black marine 70/100 V line CDD 6
CDD6WTX-MAR	White marine 70/100 V line CDD 6

CDD 6 specification

Type	Ultra-compact, Coaxial Differential Dispersion passive two-way system
Frequency response ¹	80 Hz – 20 kHz \pm 3 dB, –10 dB @ 70 Hz
Driver	LF: 6.5" (165 mm) with 1.5" (38 mm) voice coil, long excursion, ferrite motor system HF: 1" (25 mm) voice coil, fabric dome with neodymium motor system
Rated power ²	150 W AES, 600 W peak
Recommended amplifier	VIA2502, VIA5004, VIA5002, iK41, iK42, iK81
Sensitivity ³	91 dB
Maximum SPL ³	113 dB continuous, 119 dB peak, 125 dB peak with crest factor 4
Nominal impedance	8 ohms
Dispersion ⁴	110°–80° horizontal 80° vertical (user-rotatable)
Crossover	2.5 kHz passive
Enclosure	9 litre Sustainable wood fibre polymer composite (FSC and ISCC certified)
Finish	Black, white or RAL textured paint
Protective grille	Black, white or RAL to match enclosure Standard models: perforated steel with scrim cloth backing Weatherised and marine models: perforated, zinc-plated steel with scrim cloth backing, Declon synthetic fabric layer and inner, zinc-plated, hydrophobic steel mesh layer
Connectors	Standard models: Phoenix-style plug with screw connections (see Accessories below) TX models: terminal block with spring connections Weatherised models: connections as above (standard or TX) with weatherproof cover (see Accessories below) Marine models: factory fitted 3 m (9 ft 10 in) cable (internal connections not accessible)

Pin connections	Standard models, left to right: Input +, Input –, Link –, Link +
Fittings	4 x M6 inserts for wall and ceiling brackets
IP rating	Weatherised and marine models: IP54
Operating temperature	Weatherised and marine models: –20°C to +70°C
Dimensions	(W) 210 mm x (H) 325 mm x (D) 210 mm (W) 8.3 in x (H) 12.8 in x (D) 8.3 in
Weight CDD6	5.7 kg (12.5 lbs)
Weight CDD6TX-WR, CDD6TX-MAR	6.8 kg (14.9 lbs)
Accessories (supplied)	Standard and weatherised CDD 5, 6 and 8 (not TX, TX-WR or marine) supplied with a Phoenix-style 12 A plug with screw connections (replacement part PSX00006) Weatherised CDD 5 and 6 supplied with a weatherproof cover, screws, gasket seal and cable gland (all these parts in replacement kit AIPKIT for black or AIPKIT-W for white)
Accessories (optional)	Weatherised wall bracket for CDD 6 and 8 (WB6/8B for black, WB6/8W for white or WB6/8RAL for RAL colour) Marine wall bracket for CDD 6 and 8 (WB6/8B-MAR for black or WB6/8W-MAR for white) Weatherised ceiling bracket for CDD 6 and 8 (CDDCB6/8B for black, CDDCB6/8W for white or CDDCB6/8RAL for RAL colour)

¹On-axis in open space (4 pi) at 1 m.

²AES Standard ANSI S4.26-1984.

³In open space (4 pi) at 1 m with 2.83 V input and band-limited pink noise.

⁴In open space (4 pi) at 2 m to –6 dB.

CDD 8 details

CDD 8 models

CDD8B	Black CDD 8
CDD8W	White CDD 8
CDD8RAL	RAL colour CDD 8
CDD8BTX	Black 70/100 V line CDD 8
CDD8WTX	White 70/100 V line CDD 8
CDD8B-WR	Black weatherised CDD 8
CDD8W-WR	White weatherised CDD 8
CDD8BTX-WR	Black weatherised 70/100 V line CDD 8
CDD8WTX-WR	White weatherised 70/100 V line CDD 8
CDD8B-MAR	Black marine CDD 8
CDD8W-MAR	White marine CDD 8
CDD8BTX-MAR	Black marine 70/100 V line CDD 8
CDD8WTX-MAR	White marine 70/100 V line CDD 8

CDD 8 specification

Type	Ultra-compact, Coaxial Differential Dispersion passive two-way system
Frequency response ¹	70 Hz – 20 kHz \pm 3 dB, –10 dB @ 70 Hz
Driver	LF: 8" (200 mm) with 2" (50 mm) voice coil, long excursion, shared ferrite motor system with HF HF: 1" (25 mm) exit with 1.4" (38 mm) voice coil, polyimide dome compression driver
Rated power ²	200 W AES, 800 W peak
Recommended amplifier	VIA2502, VIA5004, VIA5002, iK41, iK42, iK81
Sensitivity ³	94 dB
Maximum SPL ³	117 dB continuous, 123 dB peak, 129 dB peak with crest factor 4
Nominal impedance	8 ohms
Dispersion ⁴	110°–80° horizontal 60° vertical (user-rotatable)
Crossover	2.3 kHz passive
Enclosure	14 litre Sustainable wood fibre polymer composite (FSC and ISCC certified)
Finish	Black, white or RAL textured paint
Protective grille	Black, white or RAL to match enclosure Standard models: perforated steel with scrim cloth backing Weatherised and marine models: perforated, zinc-plated steel with scrim cloth backing, Declon synthetic fabric layer and inner, zinc-plated, hydrophobic steel mesh layer

Connectors	Standard models: Phoenix-style plug with screw connections (see Accessories below) TX models: terminal block with spring connections Weatherised models: connections as above (standard or TX) with weatherproof cover (see Accessories below) Marine models: factory fitted 3 m (9 ft 10 in) cable (internal connections not accessible)
Pin connections	Standard models, left to right: Input +, Input –, Link –, Link +
Fittings	6 x M6 inserts for wall and ceiling brackets
IP rating	Weatherised and marine models: IP54
Operating temperature	Weatherised and marine models: –20°C to +70°C
Dimensions	(W) 256 mm x (H) 410 mm x (D) 253 mm (W) 10.1 in x (H) 16.1 in x (D) 10 in
Weight CDD8	9.5 kg (21.0 lbs)
Weight CDD8-WR, CDD8-MAR	9.8 kg (21.6 lbs)
Weight CDD8TX	11.1 kg (24.5 lbs)
Weight CDD8TX-WR, CDD8TX-MAR	11.4 kg (25.1 lbs)
Accessories (supplied)	Standard and weatherised CDD 5, 6 and 8 (not TX, TX-WR or marine) supplied with a Phoenix-style 12 A plug with screw connections (replacement part PSX00006) Weatherised CDD 8 supplied with weatherproof cover (black only), screws, gasket seal and cable gland (all these parts in replacement kit ASF09006)
Accessories (optional)	Weatherised wall bracket for CDD 6 and 8 (WB6/8B for black, WB6/8W for white or WB6/8RAL for RAL colour) Marine wall bracket for CDD 6 and 8 (WB6/8B-MAR for black or WB6/8W-MAR for white) Weatherised ceiling bracket for CDD 6 and 8 (CDDCB6/8B for black, CDDCB6/8W for white or CDDCB6/8RAL for RAL colour)

¹On-axis in open space (4 pi) at 1 m.

²AES Standard ANSI S4.26-1984.

³In open space (4 pi) at 1 m with 2.83 V input and band-limited pink noise.

⁴In open space (4 pi) at 2 m to –6 dB.

CDD 10 details

CDD 10 models

CDD10B	Black CDD 10
CDD10W	White CDD 10
CDD10RAL	RAL colour CDD 10
CDD10BTX	Black 70/100 V line CDD 10
CDD10WTX	White 70/100 V line CDD 10
CDD10BTX-WR	Black weatherised 70/100 V line CDD 10
CDD10WTX-WR	White weatherised 70/100 V line CDD 10
CDD10B-WR	Black weatherised CDD 10
CDD10W-WR	White weatherised CDD 10
CDD10BTX-MAR	Black marine 70/100 V line CDD 10
CDD10WTX-MAR	White marine 70/100 V line CDD 10
CDD10B-MAR	Black marine CDD 10
CDD10W-MAR	White marine CDD 10

CDD 10 specification

Type	Compact, Coaxial Differential Dispersion passive two-way system
Frequency response ¹	65 Hz – 20 kHz \pm 3 dB, –10 dB @ 55 Hz
Driver	LF: 10" (250 mm) with 2.5" (63.5 mm) voice coil, long excursion, shared ferrite motor system with HF HF: 1" (25 mm) exit with 1.4" (38 mm) voice coil, polyimide dome compression driver
Rated power ²	250 W AES, 1000 W peak
Recommended amplifiers	VIA5002, iK41, iK42, iK81
Sensitivity ³	96 dB
Maximum SPL ³	120 dB continuous, 126 dB peak, 132 dB peak with crest factor 4
Nominal impedance	8 ohm
Dispersion ⁴	110°–70° horizontal 60° vertical (user-rotatable)
Crossover	2.0 kHz passive
Enclosure	28 litre Sustainable wood fibre polymer composite (FSC and ISCC certified)
Finish	Black, white or RAL textured paint
Protective grille	Black, white or RAL to match enclosure Standard models: perforated steel with scrim cloth backing Weatherised and marine models: perforated, zinc-plated steel with scrim cloth backing, Declon synthetic fabric layer and inner, zinc-plated, hydrophobic steel mesh layer

Connectors	Standard models: Phoenix-style plug with screw connections (see Accessories below) TX models: terminal block with spring connections Weatherised models: connections as above (standard or TX) with weatherproof cover (see Accessories below) Marine models: factory fitted 3 m (9 ft 10 in) cable (internal connections not accessible)
Pin connections	Standard models, left to right: Input +, Input –, Link –, Link +
Fittings	6 x M8 inserts for wall bracket 10 x M8 fly points
IP rating	Weatherised and marine models: IP54
Operating temperature	Weatherised and marine models: –20°C to +70°C
Dimensions	(W) 323 mm x (H) 515 mm x (D) 311 mm (W) 12.7 in x (H) 20.3 in x (D) 12.2 in
Weight CDD10	15.3 kg (33.7 lbs)
Weight CDD10-WR, CDD10-MAR	15.5 kg (34.2 lbs)
Weight CDD10TX	16.9 kg (37.2 lbs)
Weight CDD10TX-WR, CDD10TX-MAR	17.1 kg (37.7 lbs)
Accessories (supplied)	Standard and weatherised CDD 10, 12 and 15 (not TX, TX-WR or marine) supplied with Phoenix-style 20 A plug with screw connections (replacement part PSX00008) Weatherised CDD 10, 12 and 15 supplied with weatherproof cover (black only), screws, gasket seal and cable gland (all these parts in replacement kit ASF09007)
Accessories (optional)	Weatherised wall bracket for CDD 10 and 12 (WB10/12B for black, WB10/12W for white or WB10/12RAL for RAL colour) Marine wall bracket for CDD 10 and 12 (WB10/12B-MAR for black or WB10/12W-MAR for white) Weatherised yoke assembly (CDDY10B for black or CDDY10W for white) M8 eye bolt for CDD 10, 12 and 15 (HTKCT05)

¹On-axis in open space (4 pi) at 1 m.

²AES Standard ANSI S4.26-1984.

³In open space (4 pi) at 1 m with 2.83 V input and band-limited pink noise.

⁴In open space (4 pi) at 2 m to –6 dB.

CDD 12 details

CDD 12 models

CDD12B	Black CDD 12
CDD12W	White CDD 12
CDD12RAL	RAL colour CDD 12
CDD12B-WR	Black weatherised CDD 12
CDD12W-WR	White weatherised CDD 12
CDD12B-MAR	Black marine CDD 12
CDD12W-MAR	White marine CDD 12

CDD 12 specification

Type	Compact, high-output, Coaxial Differential Dispersion passive two-way system
Frequency response ¹	62 Hz – 20 kHz \pm 3 dB, –10 dB @ 50 Hz
Driver	LF: 12" (300 mm) with 2.5" (63.5 mm) voice coil, long excursion, shared ferrite motor system with HF HF: 1" (25 mm) exit with 1.7" (44 mm) voice coil, polyimide dome compression driver
Rated power ²	300 W AES, 1200 W peak
Recommended amplifier	VIA5002, iK41, iK42, iK81
Sensitivity ³	97 dB
Maximum SPL ³	122 dB continuous, 128 dB peak, 134 dB peak with crest factor 4
Nominal impedance	8 ohms
Dispersion ⁴	110° – 60° horizontal 60° vertical (user-rotatable)
Crossover	1.9 kHz passive
Enclosure	38 litre Standard models: marine grade birch plywood Weatherised and marine models: sustainable wood fibre polymer composite (FSC and ISCC certified)
Finish	Black, white or RAL textured paint
Protective grille	Black, white or RAL to match enclosure Standard models: perforated steel with scrim cloth backing Weatherised and marine models: perforated, zinc-plated steel with scrim cloth backing, Declon synthetic fabric layer and inner, zinc-plated, hydrophobic steel mesh layer
Connectors	Standard models: Phoenix-style plug with screw connections (see Accessories below) Weatherised models: Phoenix-style plug with screw connections and weatherproof cover (see Accessories below) Marine models: factory fitted 3 m (9 ft 10 in) cable (internal connections not accessible)

Pin connections	Standard models, left to right: Input +, Input –, Link –, Link +
Fittings	6 x M8 inserts for wall bracket 10 x M8 fly points
IP rating	Weatherised and marine models: IP54
Operating temperature	Weatherised and marine models: –20°C to +70°C
Dimensions	(W) 357 mm x (H) 571 mm x (D) 348 mm (W) 14.1 in x (H) 22.5 in x (D) 13.7 in
Weight CDD12	19.0 kg (41.9 lbs)
Weight CDD12-WR, CDD12-MAR	19.8 kg (43.7 lbs)
Accessories (supplied)	Standard and weatherised CDD 10, 12 and 15 (not TX, TX-WR or marine) supplied with Phoenix-style 20 A plug with screw connections (replacement part PSX00008) Weatherised CDD 10, 12 and 15 supplied with weatherproof cover (black only), screws, gasket seal and cable gland (all these parts in replacement kit ASF09007)
Accessories (optional)	Weatherised wall bracket for CDD 10 and 12 (WB10/12B for black, WB10/12W for white or WB10/12RAL for RAL colour) Marine wall bracket for CDD 10 and 12 (WB10/12B-MAR for black or WB10/12W-MAR for white) Weatherised yoke assembly (CDDY12B for black or CDDY12W for white) M8 eye bolt for CDD 10, 12 and 15 (HTKCT05)

¹On-axis in open space (4 pi) at 1 m.

²AES Standard ANSI S4.26-1984.

³In open space (4 pi) at 1 m with 2.83 V input and band-limited pink noise.

⁴In open space (4 pi) at 2 m to –6 dB.

CDD 15 details

CDD 15 models

CDD15B	Black CDD 15
CDD15W	White CDD 15
CDD15RAL	RAL colour CDD 15
CDD15B-WR	Black weatherised CDD 15
CDD15W-WR	White weatherised CDD 15
CDD15B-MAR	Black marine CDD 15
CDD15W-MAR	White marine CDD 15

CDD 15 specification

Type	High-output, Coaxial Differential Dispersion passive two-way system
Frequency response ¹	55 Hz – 20 kHz \pm 3 dB, –10 dB @ 45 Hz
Driver	LF: 15" (380 mm) with 3" (75 mm) voice coil, long excursion, shared ferrite motor system with HF HF: 1.4" (32 mm) exit with 3" (75 mm) voice coil, titanium dome compression driver
Rated power ²	400 W AES, 1600 W peak
Recommended amplifier	VIA5002, iK41, iK42, iK81
Sensitivity ³	100 dB
Maximum SPL ³	126 dB continuous, 132 dB peak, 138 dB peak with crest factor 4
Nominal impedance	8 ohms
Dispersion ⁴	110°–60° horizontal 60° vertical (user-rotatable)
Crossover	1.6 kHz passive
Enclosure	68 litre Standard models: marine grade birch plywood Weatherised and marine models: sustainable wood fibre polymer composite (FSC and ISCC certified)
Finish	Black, white or RAL textured paint
Protective grille	Black, white or RAL to match enclosure Standard models: perforated steel with scrim cloth backing Weatherised and marine models: perforated, zinc-plated steel with scrim cloth backing, Declon synthetic fabric layer and inner, zinc-plated, hydrophobic steel mesh layer

Connectors	Standard models: Phoenix-style plug with screw connections (see Accessories below) Weatherised models: Phoenix-style plug with screw connections and weatherproof cover (see Accessories below) Marine models: factory fitted 3 m (9 ft 10 in) cable (internal connections not accessible)
Pin connections	Standard models, left to right: Input +, Input –, Link –, Link +
Fittings	6 x M8 inserts for wall bracket 10 x M8 fly points
IP rating	Weatherised and marine models: IP54
Operating temperature	Weatherised and marine models: –20°C to +70°C
Dimensions	(W) 425 mm x (H) 691 mm x (D) 411 mm (W) 16.7 in x (H) 27.2 in x (D) 16.2 in
Weight CDD15	26.0 kg (57.3 lbs)
Weight CDD15-WR, CDD15-MAR	28.3 kg (62.4 lbs)
Accessories (supplied)	Standard and weatherised CDD 10, 12 and 15 (not TX, TX-WR or marine) supplied with Phoenix-style 20 A plug with screw connections (replacement part PSX00008) Weatherised CDD 10, 12 and 15 supplied with weatherproof cover (black only), screws, gasket seal and cable gland (all these parts in replacement kit ASF09007)
Accessories (optional)	Weatherised wall bracket (WB15B for black or WB15W for white) Weatherised yoke assembly (CDDY15B for black or CDDY15W for white) M8 eye bolt for CDD 10, 12 and 15 (HTKCT05)

¹On-axis in open space (4 pi) at 1 m.

²AES Standard ANSI S4.26-1984.

³In open space (4 pi) at 1 m with 2.83 V input and band-limited pink noise.

⁴In open space (4 pi) at 2 m to –6 dB.

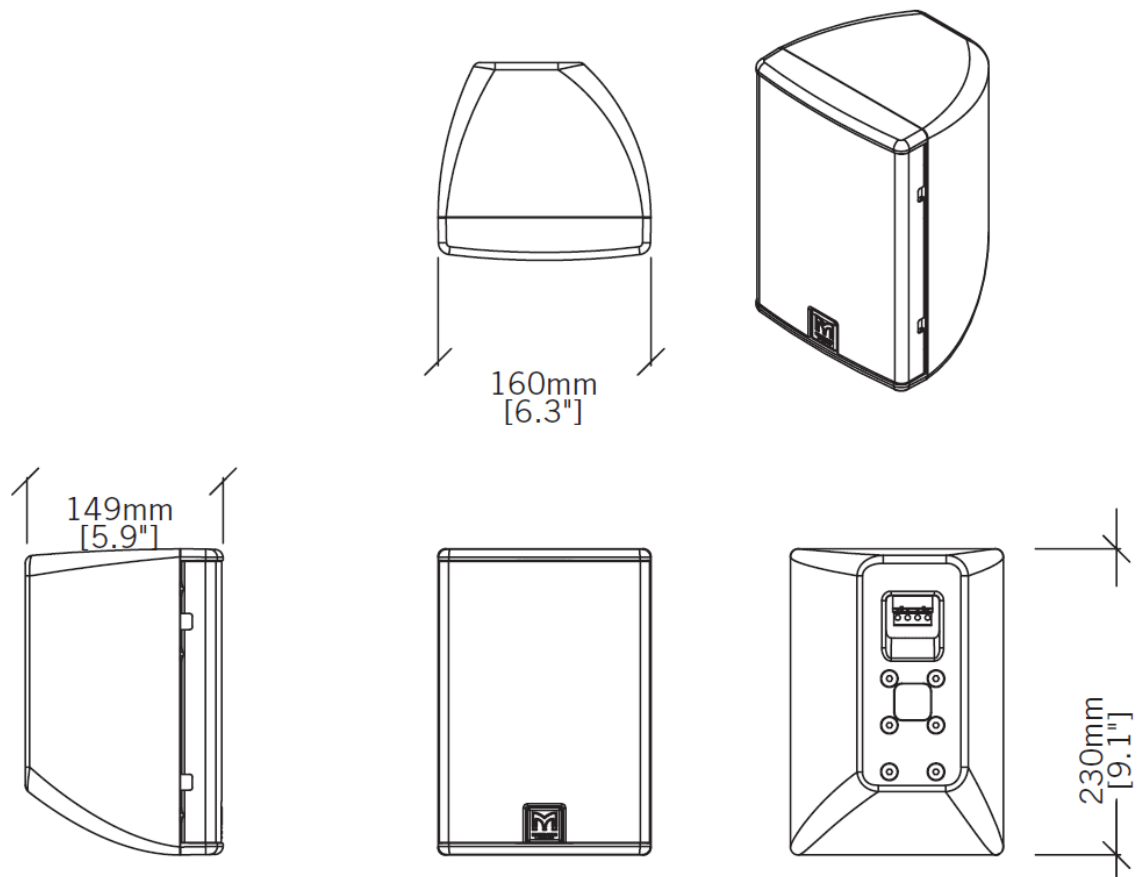
Technical drawings of CDD speakers

The following drawings show standard CDD speakers.

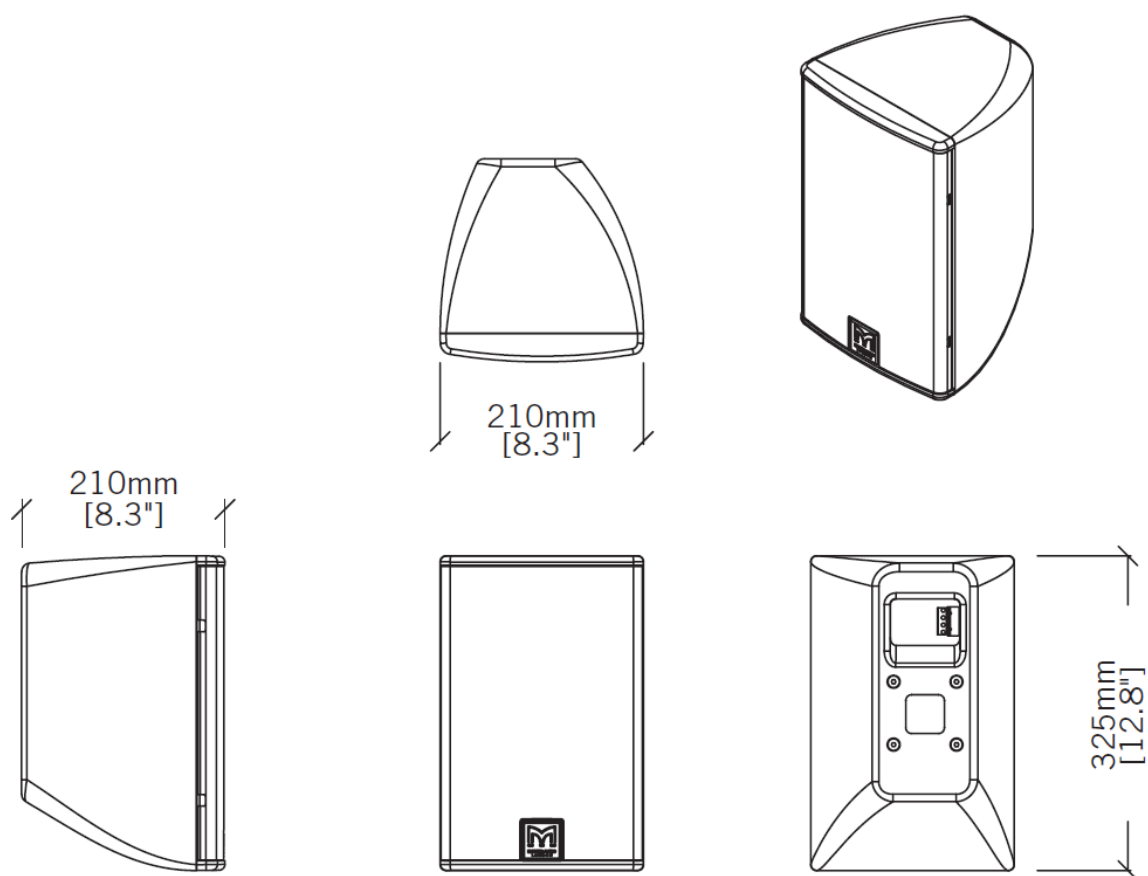
The weatherised and marine versions have the same dimensions but have a weatherproof cover over the connector panel on the rear.

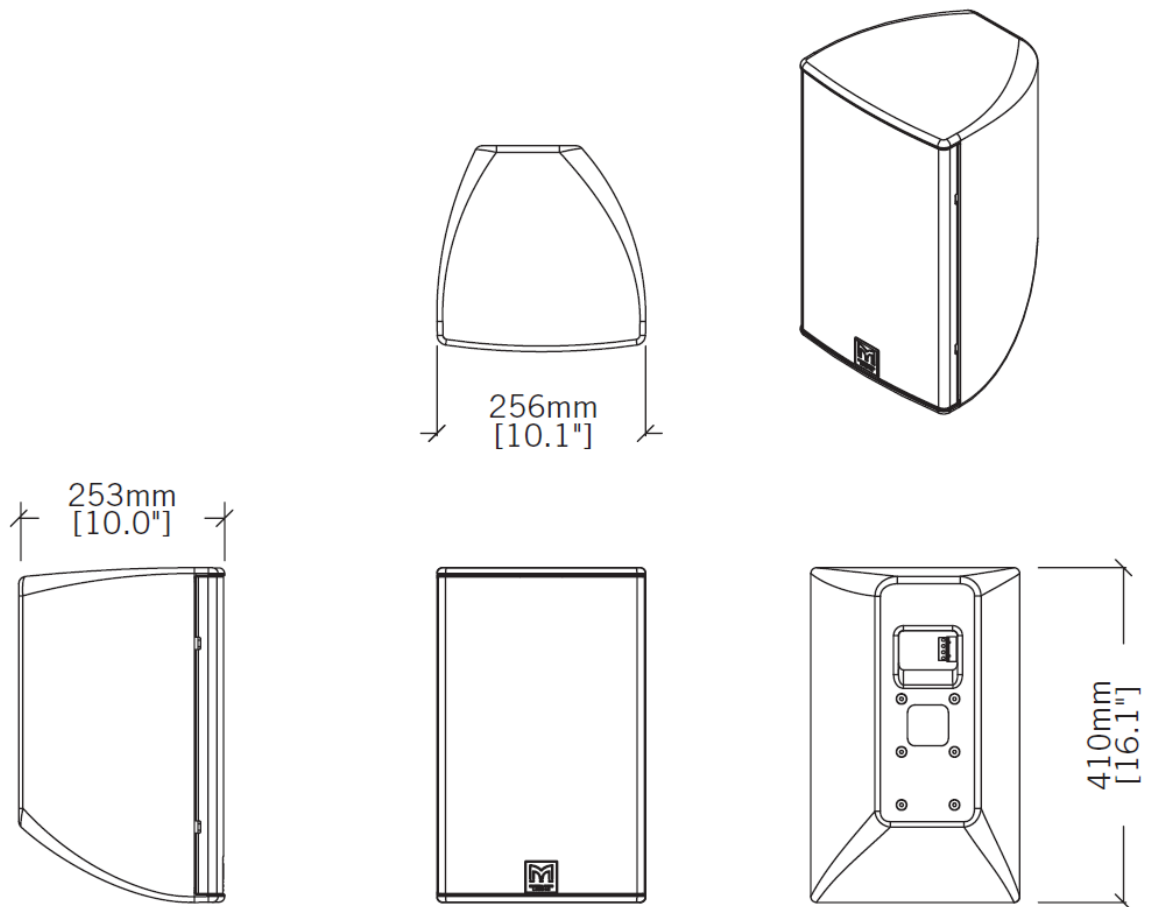
To download files to use in CAD software, see [DWG files](#) (page 17).

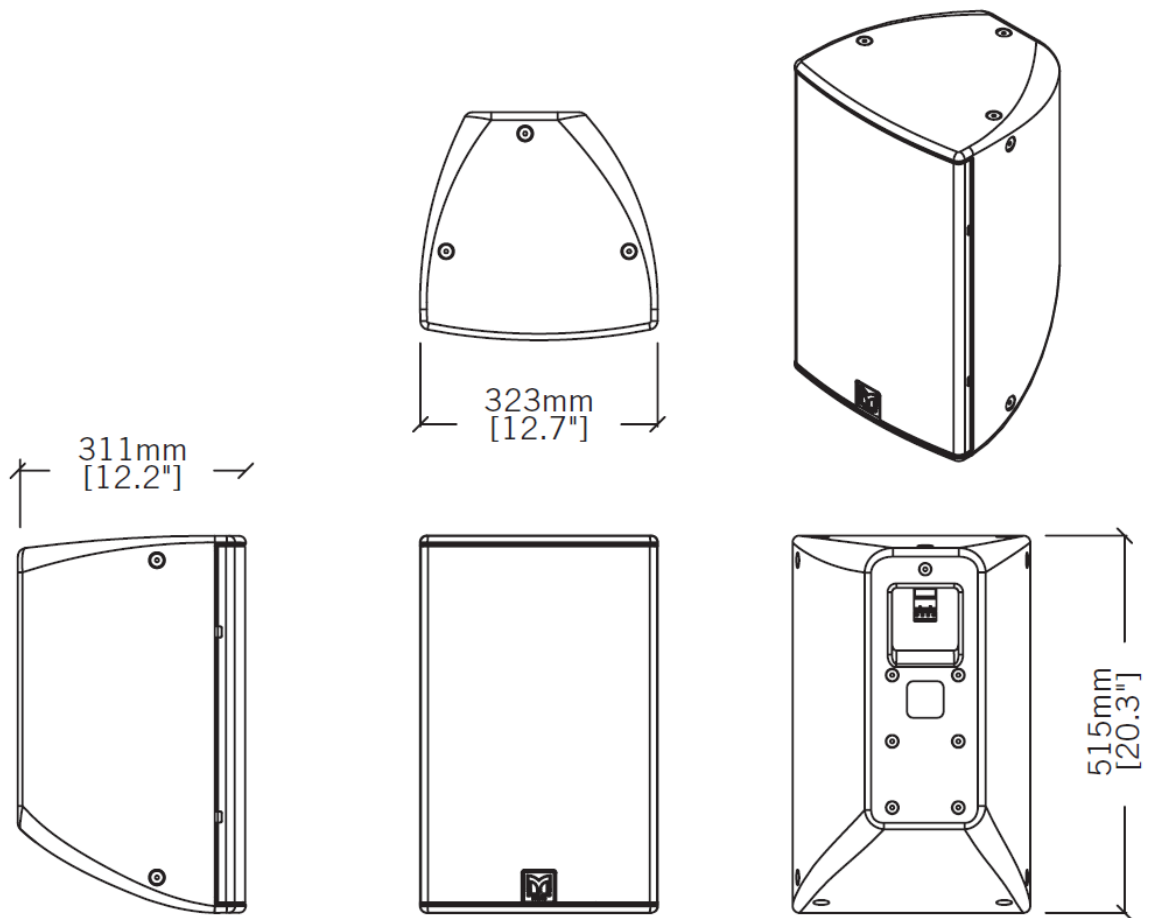
CDD 5



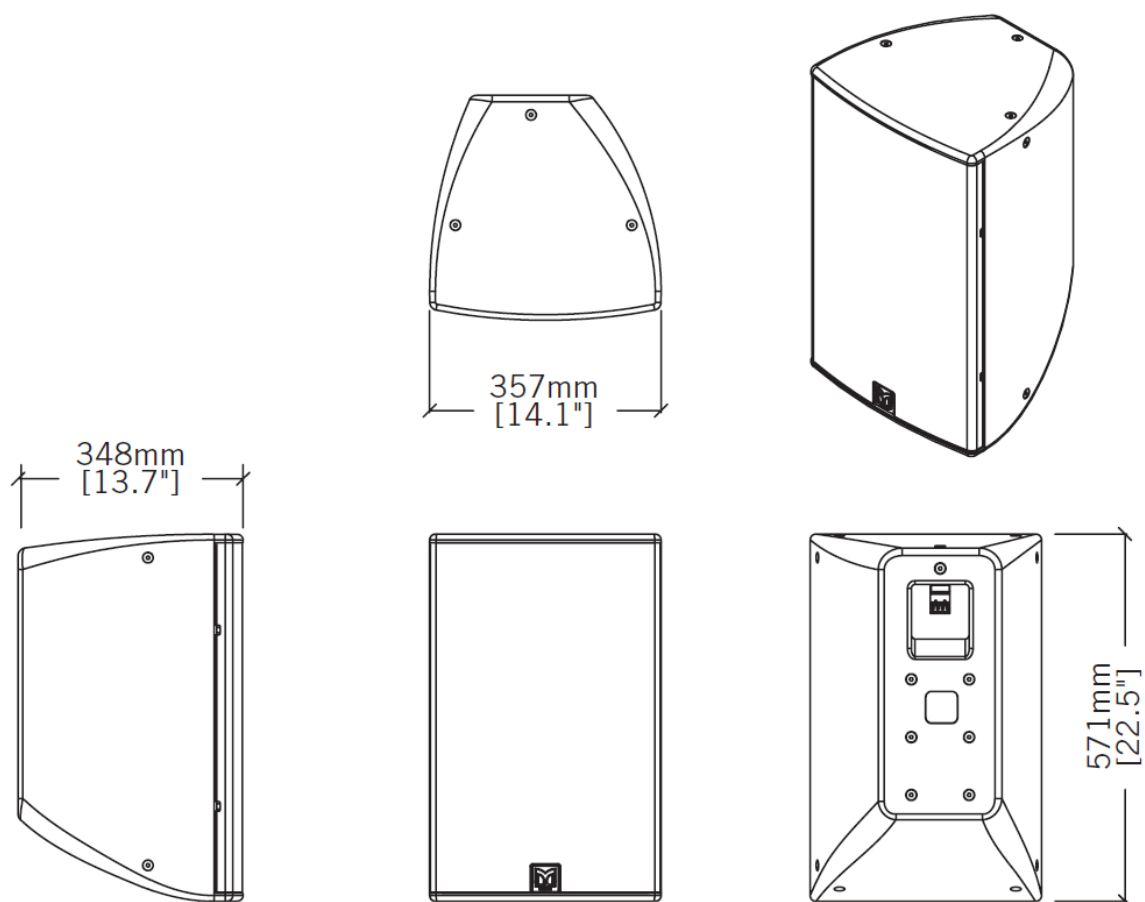
CDD 6

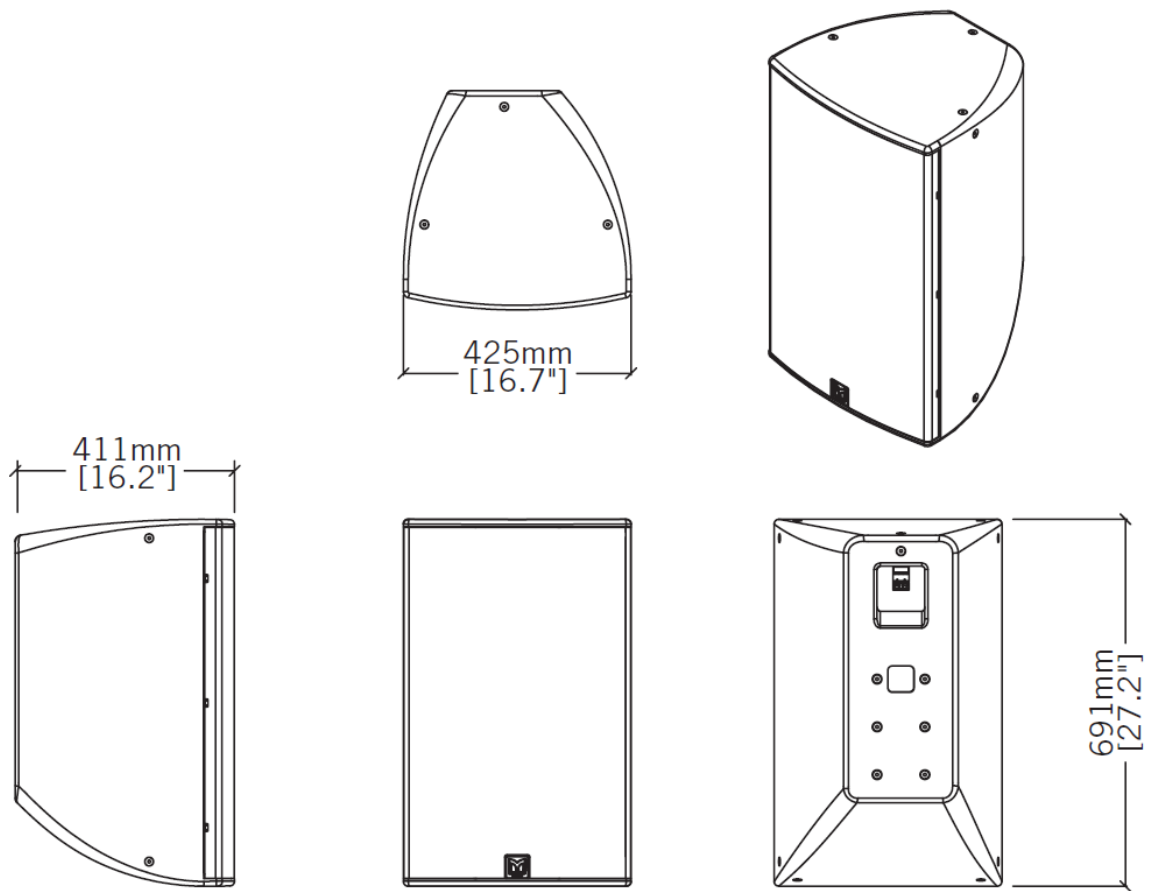


CDD 8

CDD 10

CDD 12

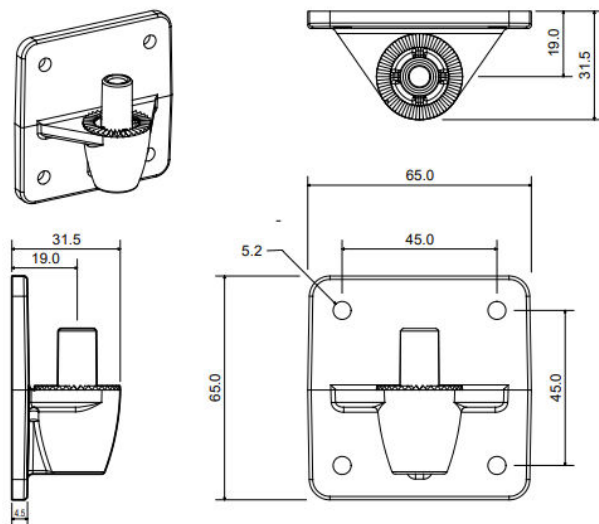


CDD 15

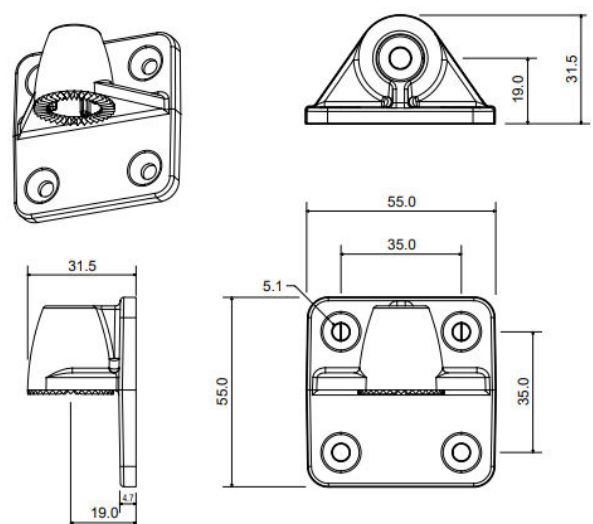
Wall bracket for CDD 5

- Supplied with CDD 5.
- Replacement part: **ASM10001** for white and **ASM10002** for black.
- Weatherised for outdoor use.
- Bracket provides [tilt and pan](#) ([page 51](#)) with link section installed.
- Wall fixing (square section with peg): four 5.2 mm (0.2 in) holes.

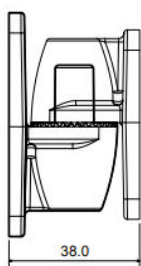
WALL BRACKET



CABINET BRACKET

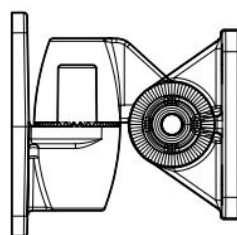


Wall Mount No Link



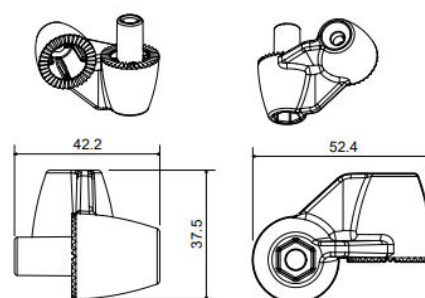
Single plane adjustment

Wall Mount With Link



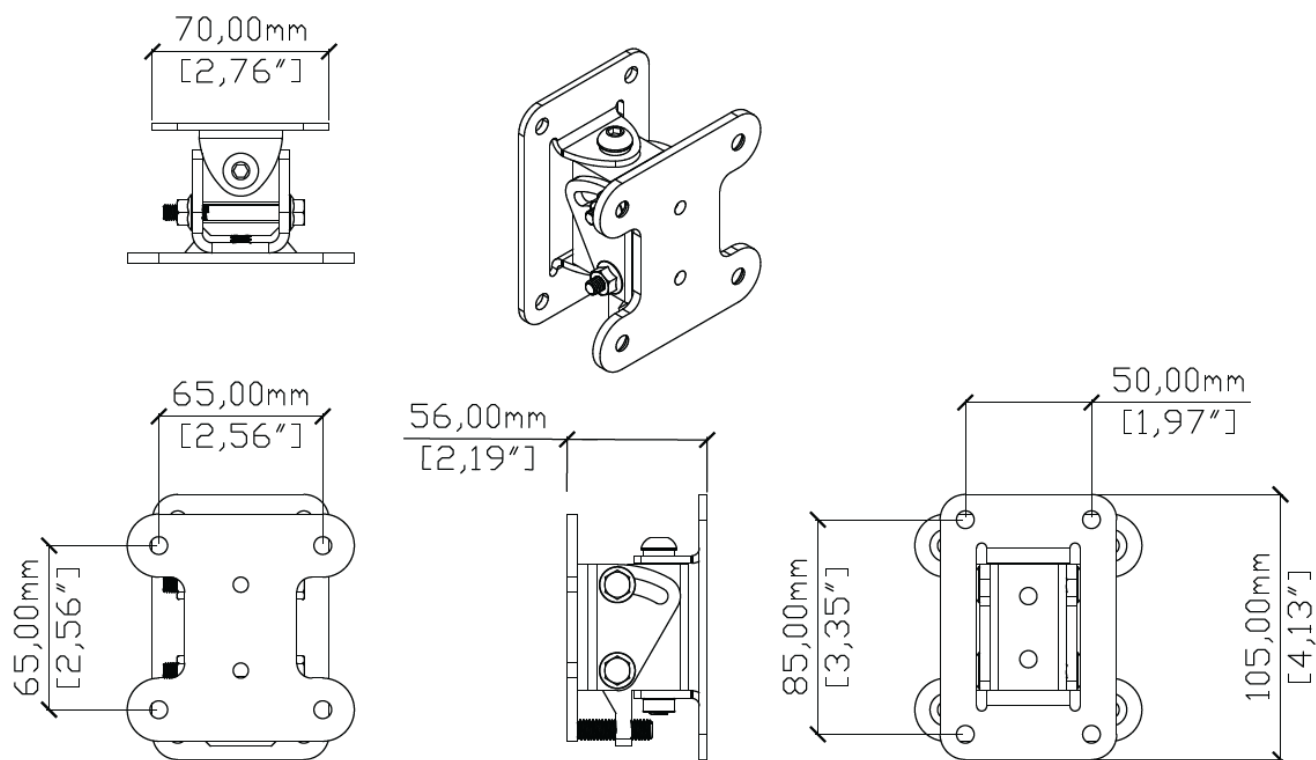
Adjustment in two planes

LINK BRACKET



Wall bracket for CDD 6 and 8

- Product code: **WB6/8B** for black, **WB6/8W** for white or **WB6/8RAL** for RAL colour.
- Weatherised for outdoor use.
- [Marine version \(page 50\)](#) available: **WB6/8B-MAR** for black or **WB6/8W-MAR** for white.
- Bracket provides [tilt and pan \(page 51\)](#).
- Wall spacers are available as an optional accessory for the latest version of this bracket. See [Wall spacer accessory kit \(page 68\)](#).
- Wall fixing (the rectangular section): four 7 mm (0.28 in) holes.



Wall spacer accessory kit

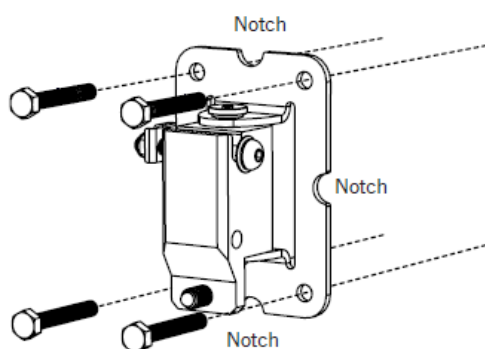
There are two wall spacer accessory kits:

- **SP6/8** for the wall bracket for CDD 6 and 8 (WB6/8).
- **SP10/12** for the wall bracket for CDD 10 and 12 (WB10/12).

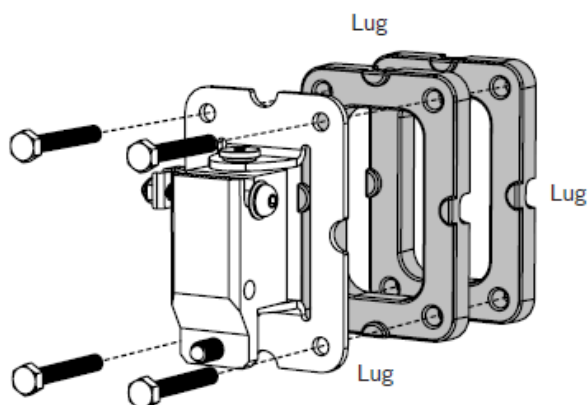
These optional accessory kits allow you to increase the [maximum pan angle \(page 51\)](#) available.

- Each kit contains a pair of spacers.
- Fit one or two spacers behind each bracket, as required.
- Available in black (SP6/8-B and SP10/12-B) or white (SP6/8-W and SP10/12-W).
- Compatible only with the latest version of this wall bracket. This version has four notches in the outer edge of the wall section.

- The wall spacer kit is **not** compatible with the previous version of this wall bracket, which does not have notches.

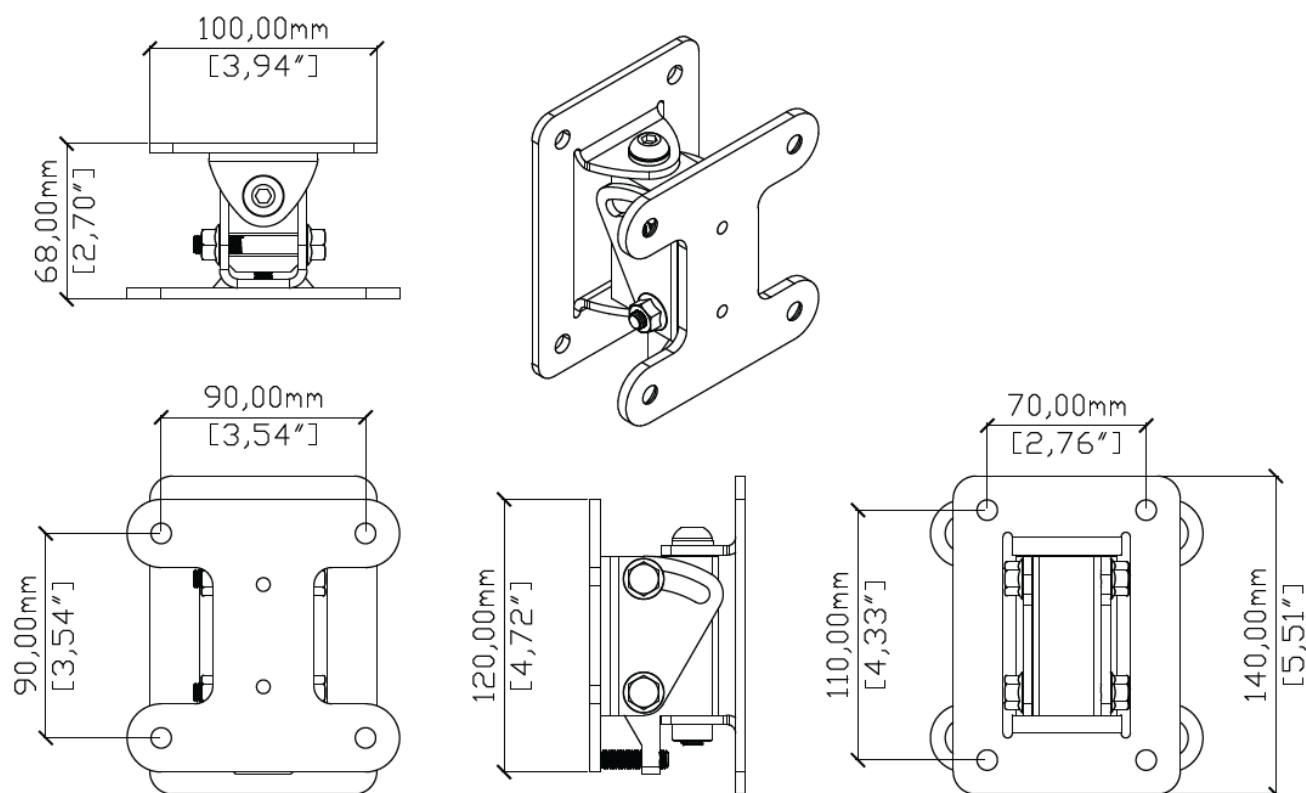


- Each spacer has four lugs on the front that fit into the notches in the bracket. Each spacer also has four notches on the back that connect to the lugs on the second spacer.



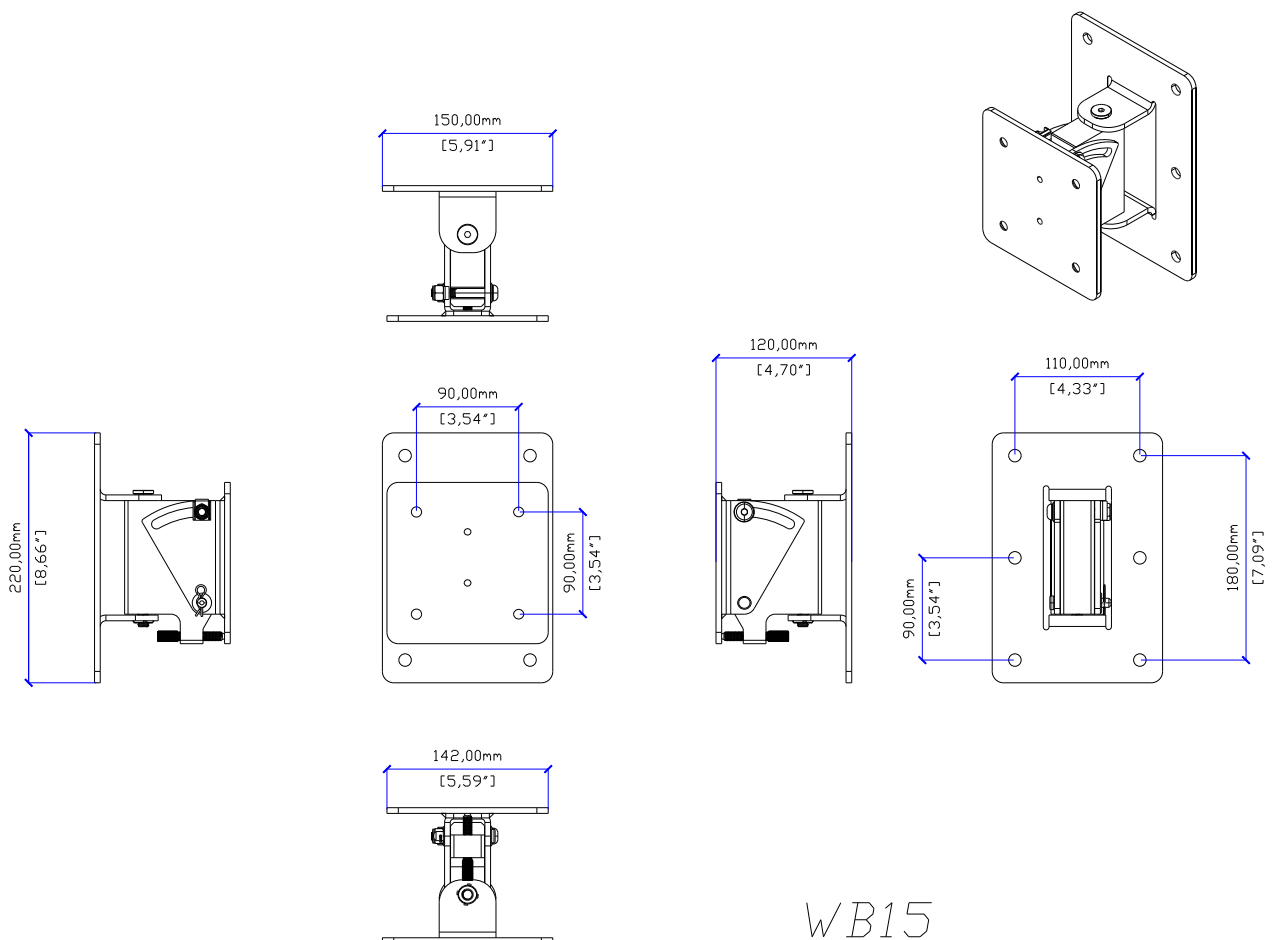
Wall bracket for CDD 10 and 12

- Product code: **WB10/12B** for black, **WB10/12W** for white or **WB10/12RAL** for RAL colour.
- Weatherised for outdoor use.
- [Marine version \(page 50\)](#) available: **WB10/12B-MAR** for black or **WB10/12W-MAR** for white.
- Bracket provides [tilt and pan \(page 51\)](#).
- Wall spacers are available as an optional accessory for the latest version of this bracket. See [Wall spacer accessory kit \(page 68\)](#).
- Wall fixing (the rectangular section): four 9 mm (0.35 in) holes.



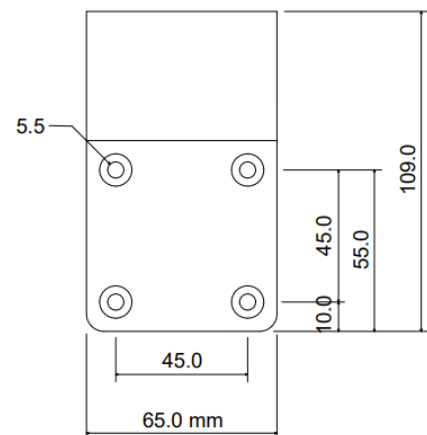
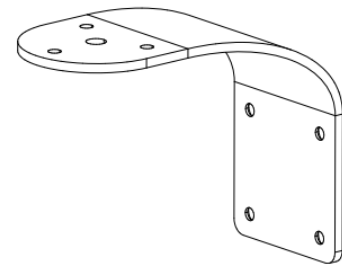
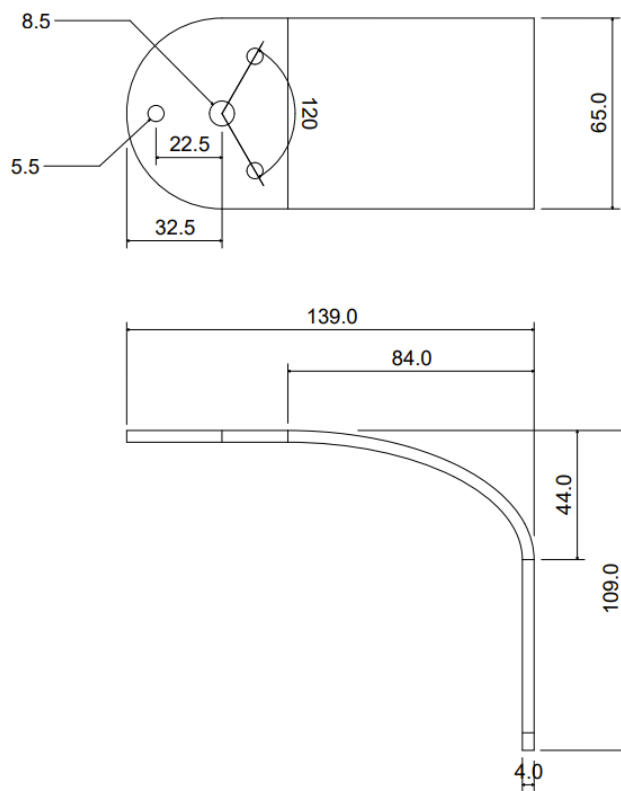
Wall bracket for CDD 15

- Product code: **WB15B** for black or **WB15W** for white.
- Weatherised for outdoor use.
- Bracket provides [tilt and pan](#) (page 51).
- Wall fixing (the rectangular section): six 11 mm (0.43 in) holes.



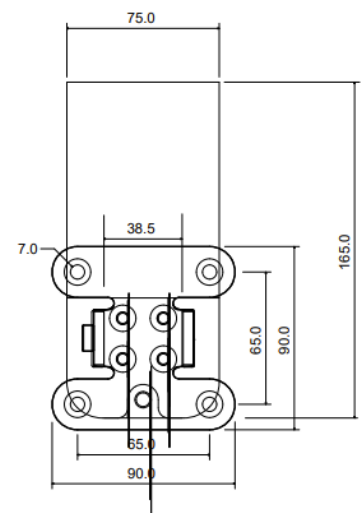
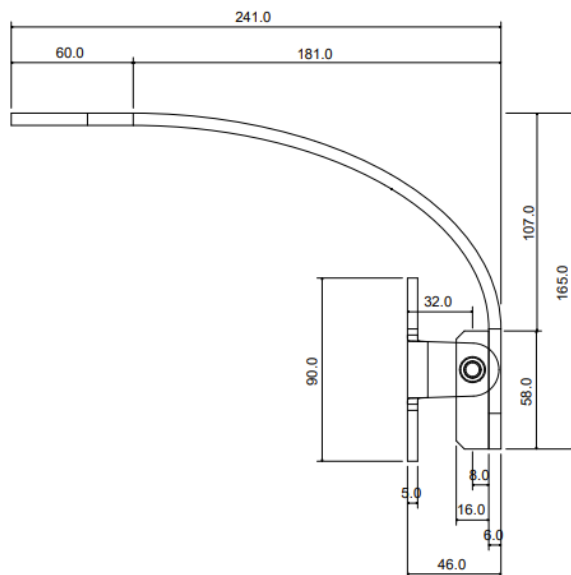
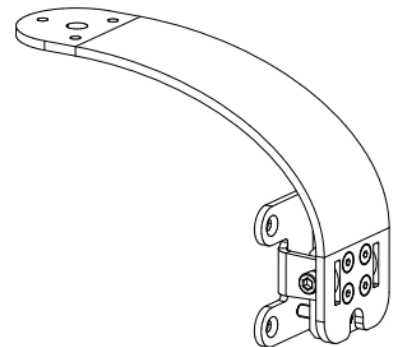
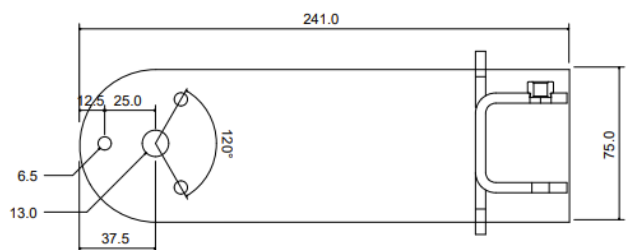
Ceiling bracket for CDD 5

- Product code: **CDDCB5B** for black and **CDDCB5W** for white.
- Weatherised for outdoor use.
- Requires attachment of [wall bracket supplied with speaker \(page 66\)](#).
- Wall bracket section provides [tilt and pan \(page 51\)](#).
- Optional attachment to third-party hardware for [truss and scaffold bar mounting \(page 37\)](#).
- Ceiling fixing: three 5.5 mm (0.22 in) holes and central 8.5 mm (0.33 in) hole.



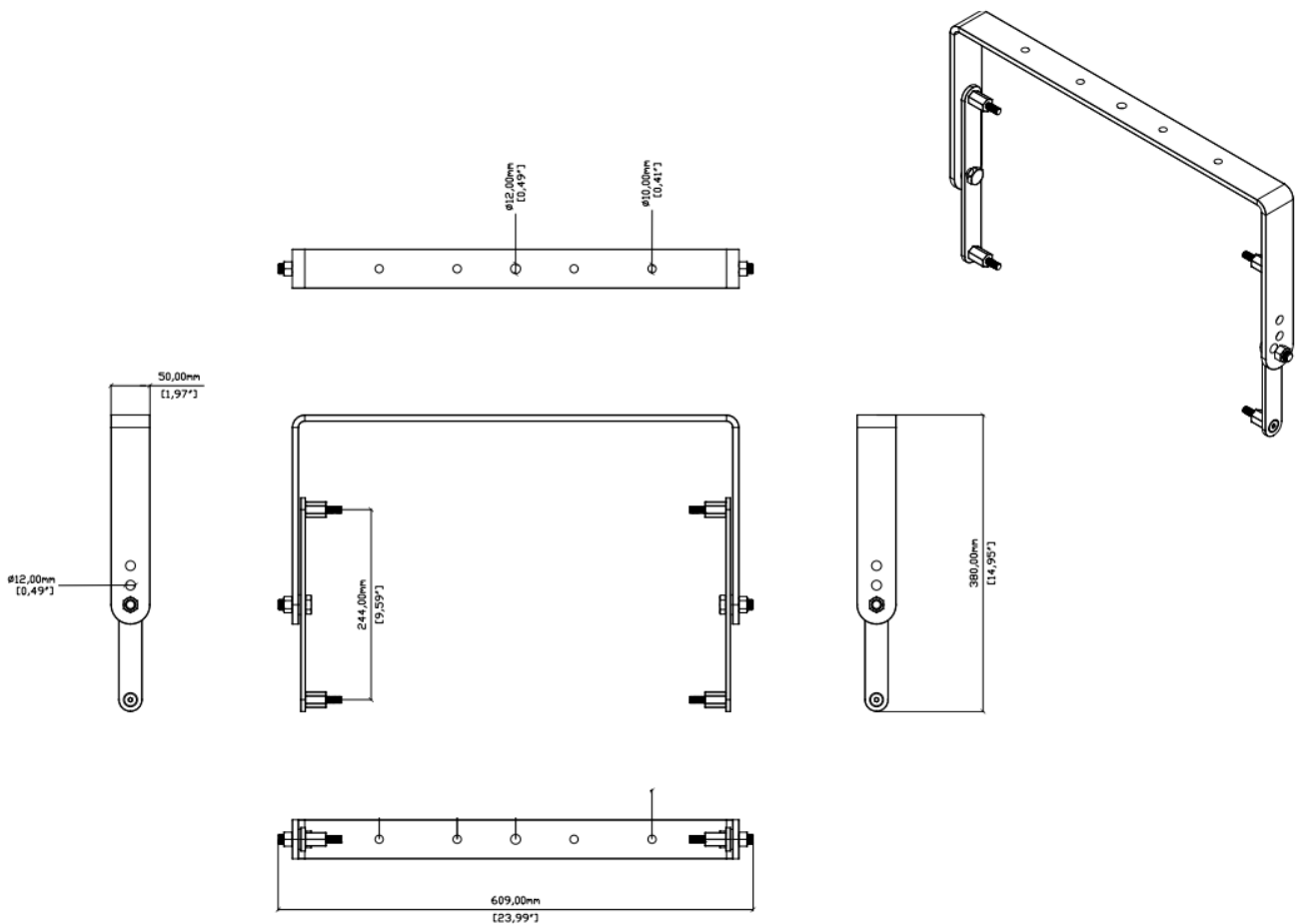
Ceiling bracket for CDD 6 and 8

- Product code: **CDDCB6/8B** for black, **CDDCB6/8W** for white or **CDDCB6/8RAL** for RAL colour.
- Weatherised for outdoor use.
- Bracket allows adjustment to pan on installation and to tilt ([page 51](#)) once installed.
- Optional attachment to third-party hardware for [truss](#) and [scaffold bar mounting](#) ([page 37](#)).
- Ceiling fixing: three 6.5 mm (0.26 in) holes and central 13 mm (0.51 in) hole.



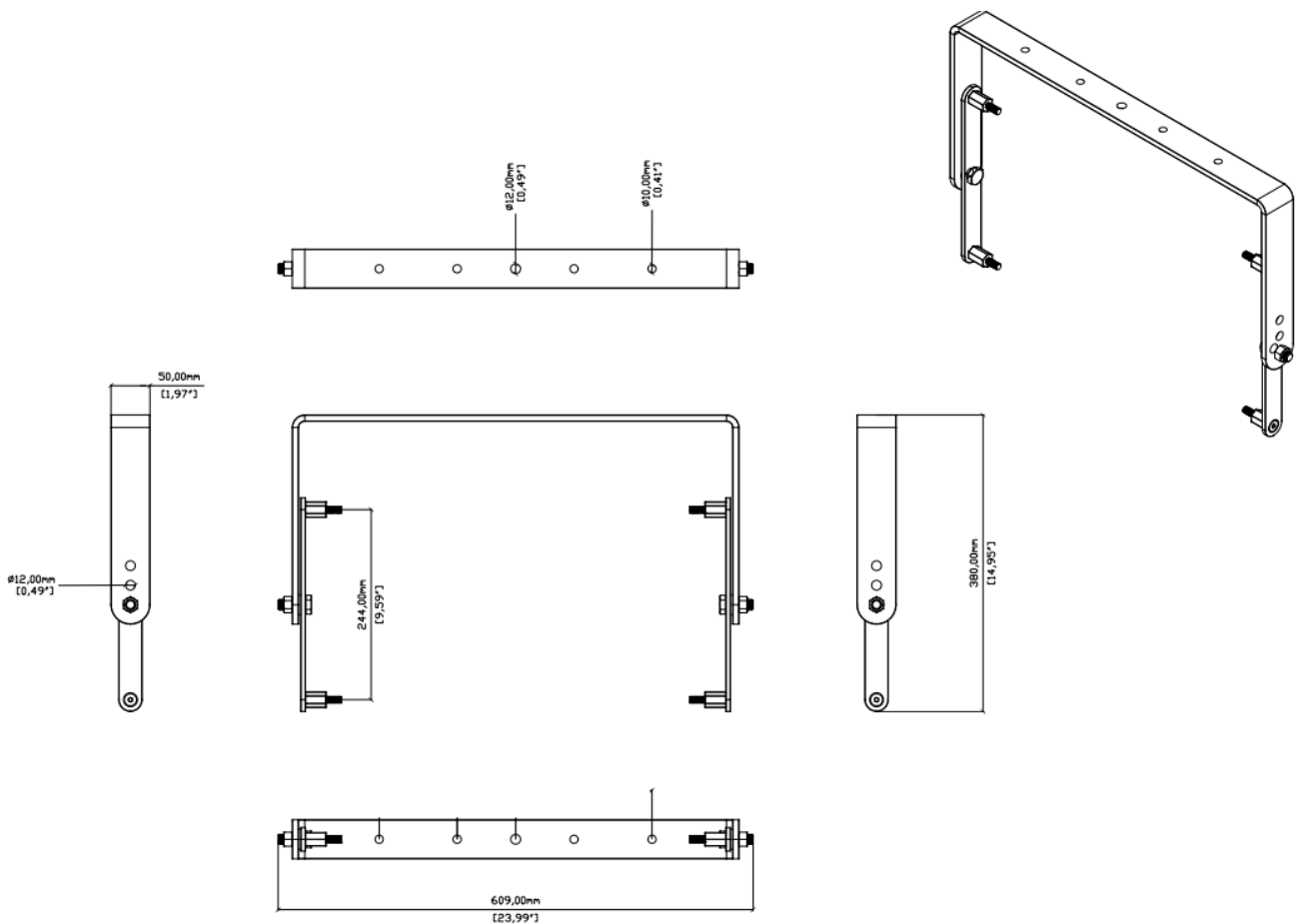
Yoke for CDD 10

- Product code: **CDDY10B** for black or **CDDY10W** for white.
- Weatherised for outdoor use.
- Allows adjustment to pan on installation and [tilt \(page 51\)](#) once installed.
- Optional attachment to third-party hardware for [truss](#) and [scaffold bar mounting \(page 37\)](#).
- Ceiling fixing: four 10.5 mm (0.41 in) holes and a central 12.5 mm (0.49 in) hole.



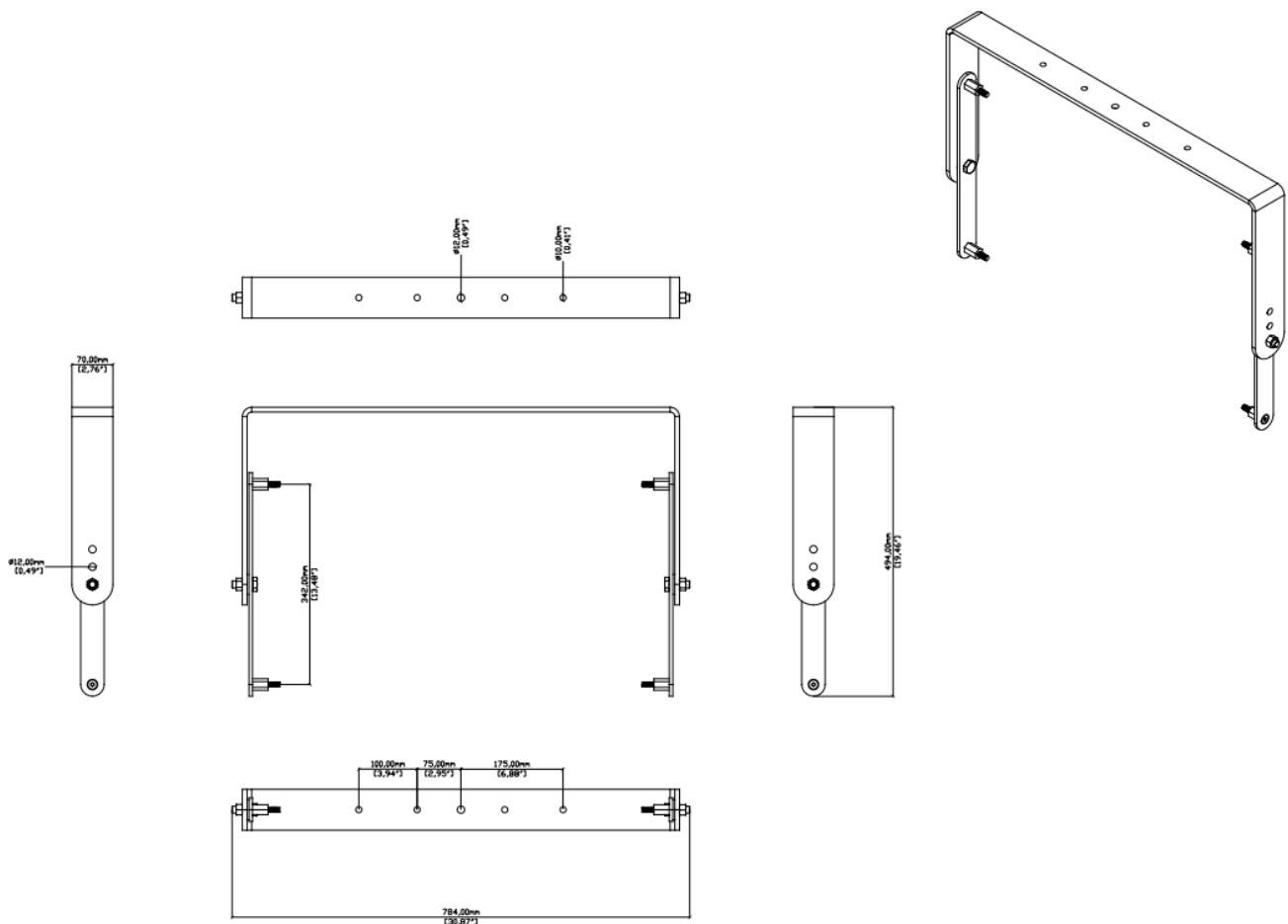
Yoke for CDD 12

- Product code: **CDDY12B** for black or **CDDY12W** for white.
- Weatherised for outdoor use.
- Allows adjustment to pan on installation and [tilt](#) ([page 51](#)) once installed.
- Optional attachment to third-party hardware for [truss](#) and [scaffold bar mounting](#) ([page 37](#)).
- Ceiling fixing: four 10.5 mm (0.41 in) holes and a central 12.5 mm (0.49 in) hole.



Yoke for CDD 15

- Product code: **CDDY15B** for black or **CDDY15W** for white.
- Weatherised for outdoor use.
- Allows adjustment to pan on installation and [tilt \(page 51\)](#) once installed.
- Optional attachment to third-party hardware for [truss and scaffold bar mounting \(page 37\)](#).
- Ceiling fixing: four 10.5 mm (0.41 in) holes and a central 12.5 mm (0.49 in) hole.



Troubleshooting

- Sound coverage not as expected. Check the [orientation of the driver \(page 10\)](#).
- Sound not right. Make sure the input and output connectors are fully plugged into the sockets. Check the sound quality with headphones at the amplifier or preamp.

Technical support

- For technical support, contact your supplier or Martin Audio technical support.
- For Martin Audio technical support, go to our website martin-audio.com and select **Support > Support Contacts**.

Service

- For service information, go to our website martin-audio.com and select **Support > Service & Returns**.

Warranty

- For warranty information, go to our website martin-audio.com and select **Support > Service & Returns**.

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