Quick Start Guide

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QCI 3

High-Performance 3" Full-Range In-Ceiling Loudspeaker for Installation Applications

QCI 8DC

High-Performance 8" Dual Concentric In-Ceiling Loudspeaker for Installation Applications

PCI 8DC

Premium 8" Dual Concentric In-Ceiling Loudspeaker for Installation Applications

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EN Important Safety Instructions

Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock. Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.

This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock.

This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.

Caution
To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.

Caution
To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Caution
These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Use only attachments/accessories specified by the manufacturer.

12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.
16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

17. Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE). The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office, or your household waste collection service.
18. Do not install in a confined space, such as a book case or similar unit.
19. Do not place naked flame sources, such as lighted candles, on the apparatus.
20. Please keep the environmental aspects of battery disposal in mind. Batteries must be disposed-of at a battery collection point.
21. Use this apparatus in tropical and/or moderate climates.

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LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding Music Tribe's Limited Warranty, please see complete details online at

Zhongshan Eurotec Electronics Limited
No. 10 Wanmei Road, South China Modern Chinese Medicine Park, Nanlang Town, 528451, Zhongshan City, Guangdong Province, China

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Introduction

Thank you for purchasing this Tannoy high-performance ceiling loudspeaker. This product range is suited for high-level music and speech reinforcement applications requiring exceptional sonic quality with uncompromised reliability.

Features

PCI 8DC

• Premium, high-definition loudspeaker for ceiling installation applications • 8" Dual Concentric driver featuring Tannoy point-source symmetrical dispersion technology • Tulip Waveguide enhances the point source symmetrical dispersion properties, providing exceptional high frequency clarity and articulation • Blue Kevlar® cone with high-excursion, rubber surround for high power handling • 3-way variable HF switch for customised performance preferences

QCI 8DC

• High-performance loudspeaker for ceiling installation applications • 8" Dual Concentric driver featuring Tannoy Omnimagnet technology • Polypropylene cone with rubber surround for high-excursion linearity

QCI 3

• High-performance loudspeaker for in-ceiling installation applications • 3" full-range driver with high excursion rubber surround • Glass fibre cone for excellent sound quality and dynamic full range performance • Compact, small footprint design for smaller spaces

Common Features:

• Extremely thin bezel for discreet installation • Includes round and square baffles and grilles for versatile applications • Rigid chassis for improved bass performance and durable application • Integrated construction for easy installation • Semi matt white finish fits unobtrusively in any environment • Powder coated UV resistant perforated steel mesh grille with dust protection • Removable grilles for custom painting • Self-aligning clamp mounting system • Optional Tannoy logo grille badge included

Unpacking

Every Tannoy product and accessory is carefully inspected before packing. After unpacking, please inspect your product to make sure no damage has occurred in transit. In the unlikely event of any damage, would you please notify your dealer immediately and retain your shipping carton, as your dealer may ask you to return the faulty unit to them for inspection.

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Safety Notices

Some regional construction codes require the use of a secondary method of securing loudspeakers in ceiling to provide security of a backup support. A secondary support line should be attached from the rear of the product to a source point on the ceiling. Please consult the relevant construction codes in your region.

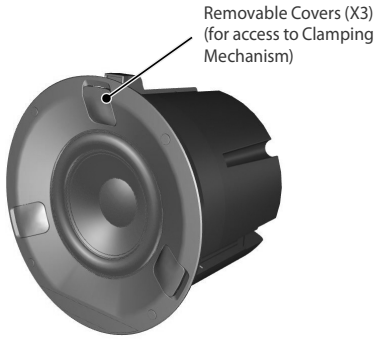
When using a power driver to install the product it is essential to use the correct torque level settings to avoid over tightening and damage to the ceiling material or clamps.

Recommended torque setting: 1.5 Nm.

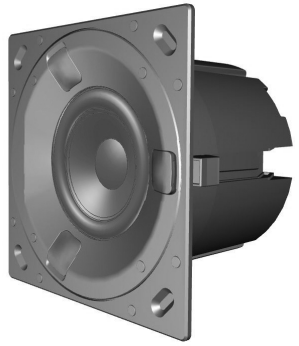
Tannoy will not be held responsible for any damages caused by the improper installation of these loudspeakers.

Product Feature Identification

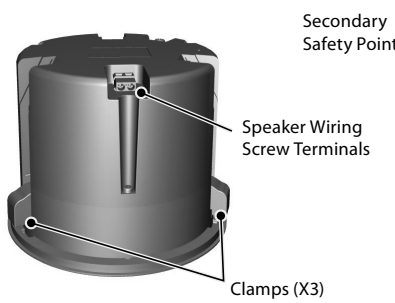
QCI3

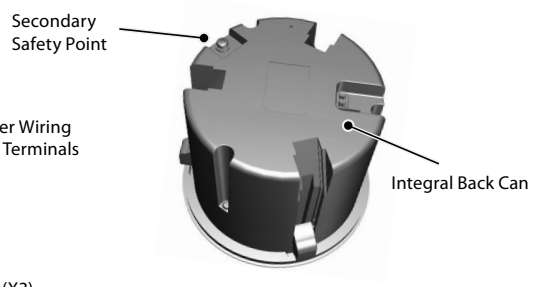


Speaker Assembly



Speaker Assembly with Square Baffle





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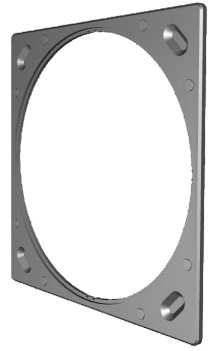
Supplied Items

Circular Grille Assembly

Square Grille Assembly

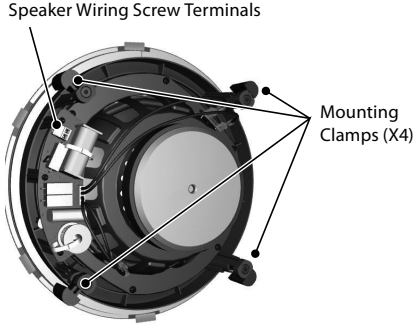


Square Baffle for Square Grille

Product Feature Identification

QCI 8DC

Speaker Assembly



Speaker Assembly Rear View

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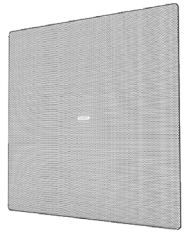
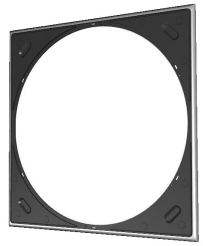
Supplied Accessories

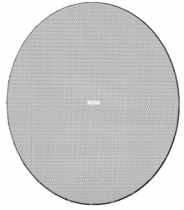


Square Grille

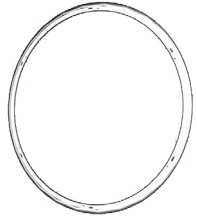


Square Baffle for Square Grille

Paint Mask for Square Baffle



Circular Grille



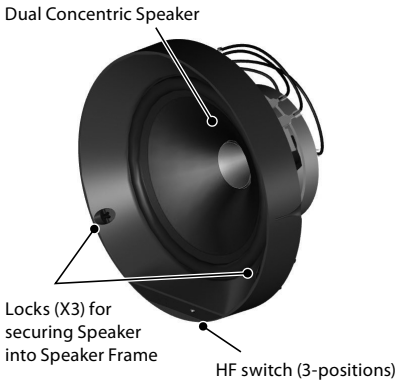
Circular Baffle for Circular Grille

Paint Mask for Circular Baffle

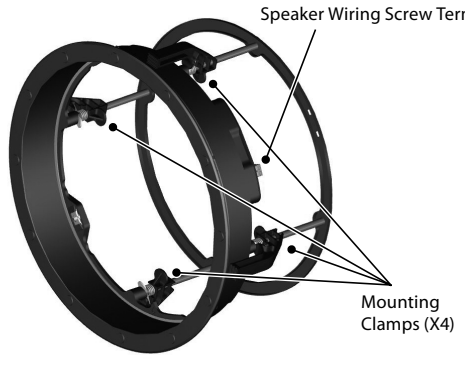
Cutout Installation Template

Product Feature Identification

PCI 8DC

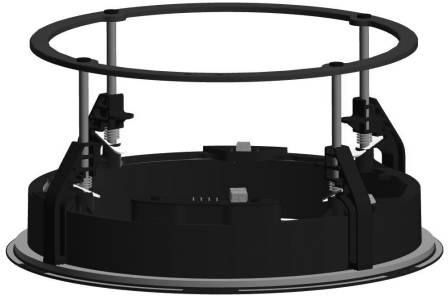


Speaker Assembly



Speaker Frame

Speaker and Frame Assembly



Speaker Frame Rear View

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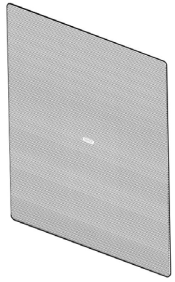
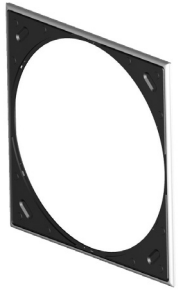
Supplied Items

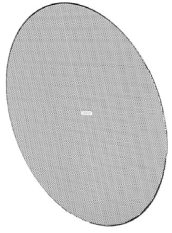


Square Grille

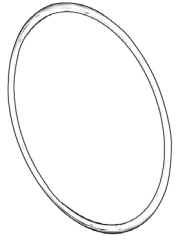


Square Baffle for Square Grille

Paint Mask for Square Baffle



Circular Grille



Circular Baffle for Circular Grille

Paint Mask for Circular Baffle

Cutout Installation Template

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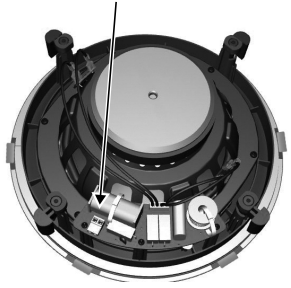
Wiring and Setting Up

Terminal Connections

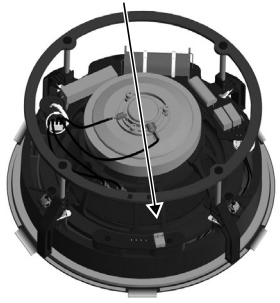
1. **WARNING:** To avoid potential damage to your loudspeaker, ensure that the amplifier is switched OFF prior to connecting or disconnecting any cables.
2. Before switching the amplifier ON, double check that all connections are secure and that the polarity is correct.
3. **Note:** For each speaker in this series, the correct square or circular baffle has to be fitted before connecting the speaker wiring. (The baffles are fitted from behind, and so the speaker wires cannot be connected while the baffles are being installed.)
4. The two screw terminals on the rear of each speaker are labled positive (+) and negative (-). These connect respectively to the positive (+) and negative (-) output terminals of your audio power amplifier.
5. Strip off approximately 8 mm (¼") of the outer protective layer of one conductor and twist its inner cores together to prevent shorting from stray wires. Insert the core into the screw terminal while ensuring that correct polarity is maintained. Repeat this for both speaker wires. Tighten the two screws to make a secure connection.
6. The screw terminals for the QCI3 and QCI 8DC are located on the rear of each speaker. The screw terminals for the PCI 8DC are located on the speaker frame. The PCI 8DC frame can be preinstalled and wired up, and the speaker assembly added at a later stage.

QCI3 Terminals

QCI 8DC Terminals



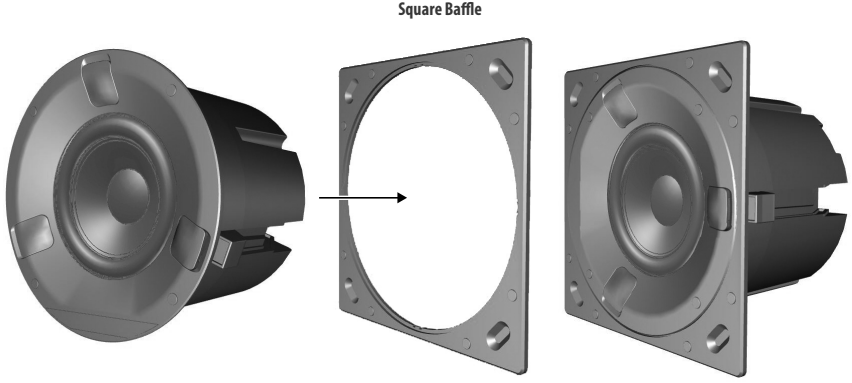
PCI 8DC Terminals



Installation

QCI3

1. **WARNING:** To avoid potential damage to your loudspeaker, ensure that the amplifier is switched OFF prior to connecting or disconnecting any cables.
2. The procedure below describes the installation of the QCI3 speaker into a typical stud ceiling or wall with drywall/plasterboard.
3. Locate a suitable mounting position for the speaker, using a stud-finder.
   WARNING: Make sure that there are no power lines, other cables, or plumbing such as water, sewer, gas lines in the chosen cutout location. Also make sure that the location is far enough from the closest wall stud so that the clamping mechanism can operate without interference.
4. Carefully mark and cutout a 117 mm (4.6") diameter hole in the drywall/plasterboard, and remove any debris.
5. Run the speaker wire from your amplifier to this location, leaving enough slack to allow for the connection.
6. To use the square speaker grille, push the speaker into the supplied square baffle. The circular grille does not need a circular baffle, as it fits directly over the speaker.



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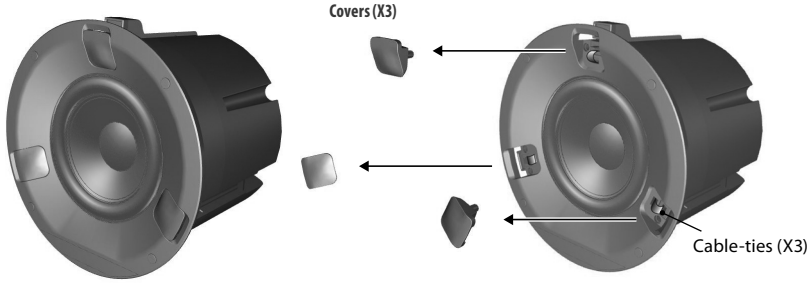
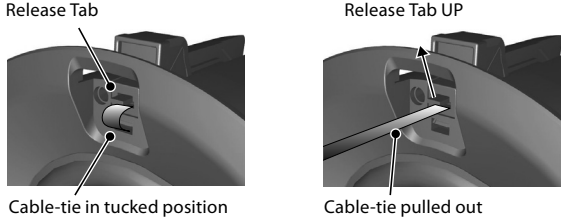
7. Pull out the 3 covers from the front of the speaker which hide the clamping system.

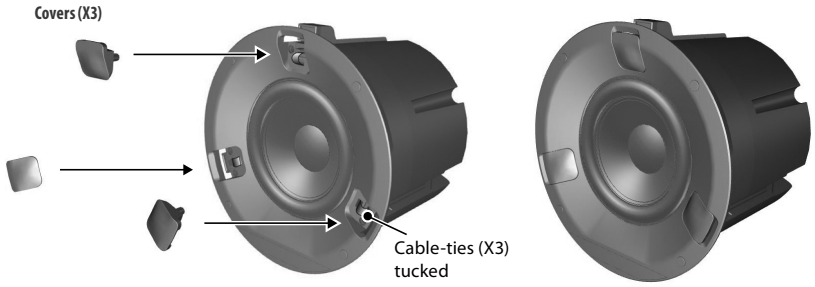


8. Each clamp can move up and down in its slot by first pulling out the “cable-ties” from their tucked (stowed) position, and releasing the tab. With the tab held, move each clamp backwards down the slot as far as it will go, so the clamps will be at the rear of the can, and inside the diameter of the cutout hole.

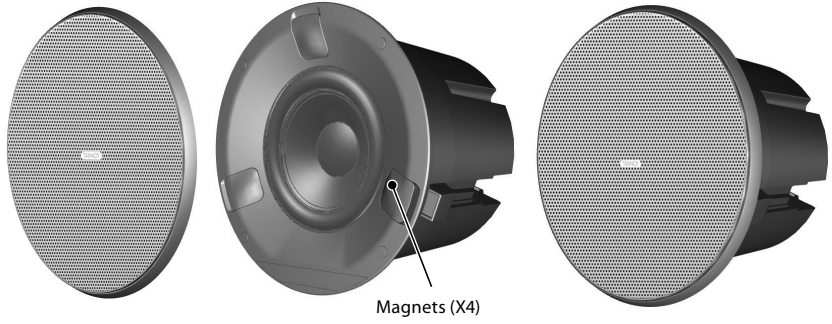


9. Follow the information on the previous pages to connect the speaker wires from your power amplifier to the speaker terminals. Make sure to check that the polarity is correct and that the positive and negative wires are securely and correctly connected.
10. Press the speaker (or speaker and square baffle assembly) into the cutout hole in the wall, making sure that the speaker wires are not trapped.
11. Pull the clamp cable-ties forward as far as they will go. This will move the clamps forward and secure the speaker to the wall.

12. **CAUTION:** do not cut off the excess cable-tie length, or the clamps can no longer be reused. Instead, tuck the excess length back into the slots and then re-install the three covers.



13. To remove the speaker at any time, remove the three covers, pull the cable-ties out of their tucked position, and then press the tabs, and this will allow you to pull the speaker forwards and out of the hole.
14. Install the circular grille by pressing it over the speaker. Small magnets hold it in place.



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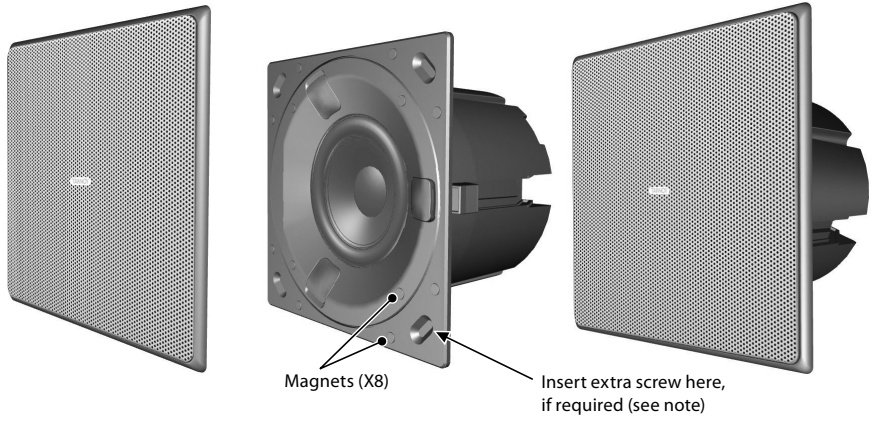
15. Alternatively, install the square grille by pressing it over the square baffle. Small magnets in the speaker surround and the square baffle hold it in place.

    Note: After installation, if the square baffle does not press flat against the drywall, insert a ½" long screw in the oval depression in each corner of the baffle, and hand-tighten until the baffle is flat against the drywall.



INSTALLATION

QCI 8DC

1. **WARNING:** To avoid potential damage to your loudspeaker, ensure that the amplifier is switched OFF prior to connecting or disconnecting any cables.
2. The procedure below describes the installation of the speaker into a typical stud ceiling or wall with drywall/plasterboard.
3. Locate a suitable mounting position for the speaker, using a stud-finder.
   WARNING: Make sure that there are no power lines, other cables, or plumbing such as water, sewer, gas lines in the chosen cutout location. Also make sure that the location is far enough from the closest wall stud so that the clamping mechanism can operate without interference.
4. Use the supplied cutout template as a guide, and cut out a circular hole in the drywall/plasterboard. Remove any debris from the hole. Use a suitable adhesive in the local area inside the hole to seal the drywall to the studs and joists, to prevent ceiling buzzing.

Cutout Installation Template

5. Run the speaker wire from your amplifier to this location, leaving enough slack to allow for the connection.

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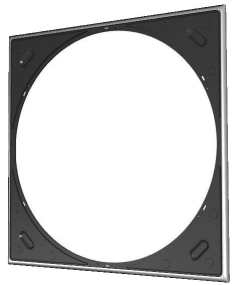
6. To use the square speaker grille, first move the mounting clamps out of the way by undoing the four screws accessible from the front of the speaker. Remove the backing from the strips of double-sided tape, and push the speaker into the supplied square baffle.

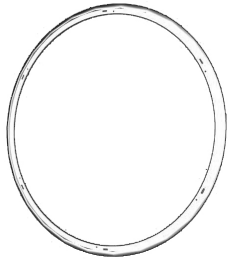
Clamp Screws (X4)



Square Baffle

Square Baffle and Speaker

7. If you want to use the circular speaker grille, install the supplied circular baffle instead.



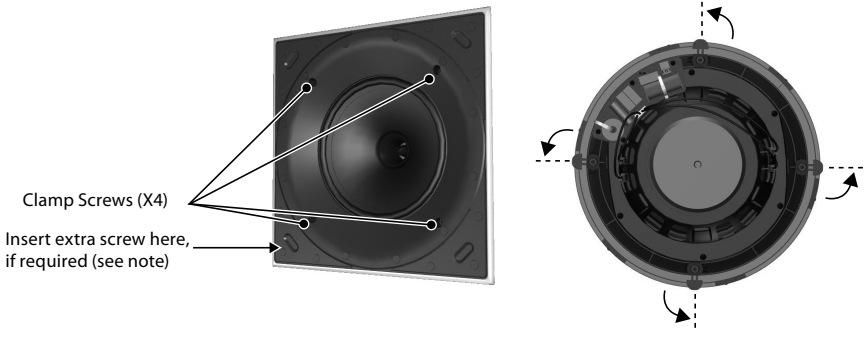
Circular Baffle

Circular Baffle and Speaker

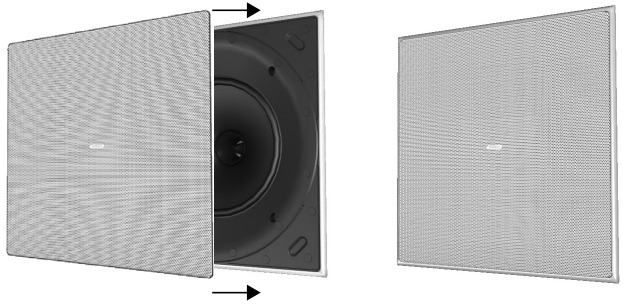
8. Follow the information on the previous pages to connect the speaker wires from your power amplifier to the speaker terminals. Make sure to check that the polarity is correct and that the positive and negative wires are securely and correctly connected.
9. Make sure that the clamps are all in their rest position, then press the speaker/baffle assembly into the cutout hole in the wall, making sure that the speaker wires are not trapped.

10. Tighten the four screws accessable from the front of the speaker, until all four clamps are holding the speaker in place. As the screws are tightened, the clamps rotate out of their rest postion and clamp to the drywall/plasterboard.

    Note: After installation, if the square baffle does not press flat against the drywall, insert a ½" long screw in the oval depression in each corner of the baffle, and hand-tighten until the baffle is flat against the drywall.



11. Install the square grille by pressing it into the square baffle. Small magnets hold it in place.



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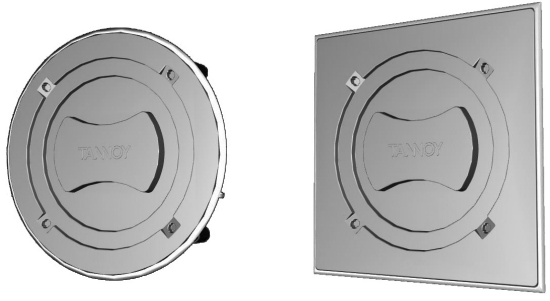
12. Alternatively, Install the circular grille by pressing it into the circular baffle. Small magnets hold it in place.

13. The grilles may be painted to match the decor, before they are fitted onto the speaker baffle.
14. Use the supplied square or circular masks to help protect the speaker cones when painting.



Painting Masks in Place

INSTALLATION

PCI 8DC

1. **WARNING:** To avoid potential damage to your loudspeaker, ensure that the amplifier is switched OFF prior to connecting or disconnecting any cables.
2. The procedure below describes the installation of the speaker into a typical stud ceiling with drywall/ plasterboard. The PCI 8DC speaker frame is installed and wired, then the speaker assembly can be added later.
3. Locate a suitable mounting position for the speaker, using a stud-finder. WARNING: Make sure that there are no power lines, other cables, or plumbing such as water, sewer, gas lines in the chosen cutout location. Also make sure that the location is far enough from the closest wall stud so that the clamping mechanism can operate without interference.
4. Use the supplied cutout template as a guide, and cut out a circular hole in the drywall/plasterboard. Remove any debris from the hole. Use a suitable adhesive in the local area inside the hole to seal the drywall to the studs and joists, to prevent ceiling buzzing.

Cutout Installation Template

5. Run the speaker wire from your amplifier to this location, leaving enough slack to allow for the connection.

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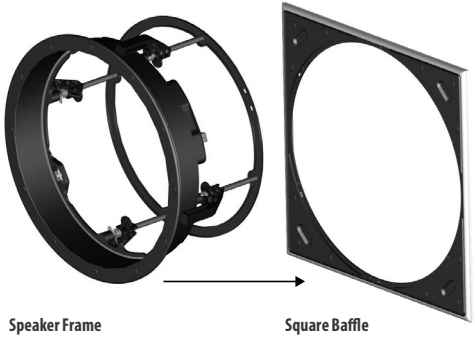
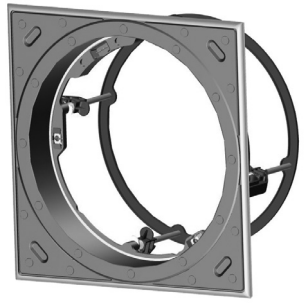
6. To use the square speaker grille, first move the mounting clamps out of the way as described in step 9 below. Remove the backing from the strips of double-sided tape, and push the speaker frame into the supplied square baffle.

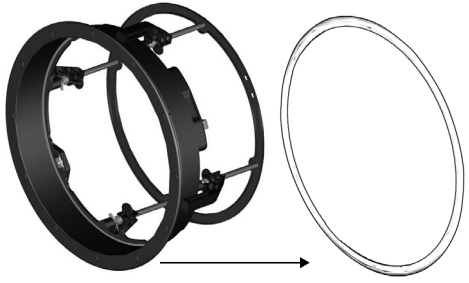


Speaker Frame **Square Baffle**



Speaker Frame with Square Baffle

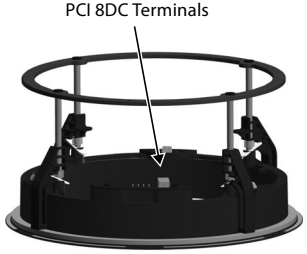
7. To use the circular speaker grille, push the speaker frame into the supplied circular baffle instead.



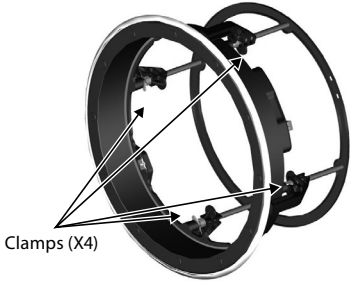
Speaker Frame **Circular Baffle**

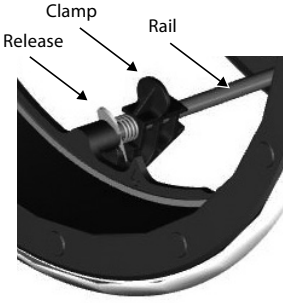
Speaker Frame with Circular Baffle

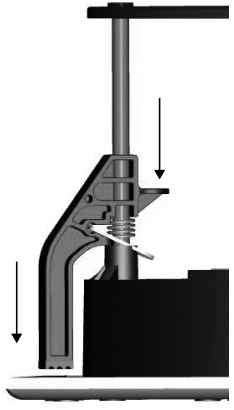
8. Follow the information on the previous pages to connect the speaker wires from your power amplifier to the speaker terminals on the speaker frame. Make sure to check that the polarity is correct and that the positive and negative wires are securely and correctly connected. Secure the speaker wiring to the rear ring of the frame with tie-wraps to prevent movement.



9. Carefully press the speaker frame into the cutout hole, making sure the speaker wires are not pinched. Reach inside the frame and rotate the clamps outwards and pull the clamps forward on their rails to secure the speaker frame to the drywall/plasterboard. To remove the speaker frame from the hole, press the release tabs and push the clamps back.







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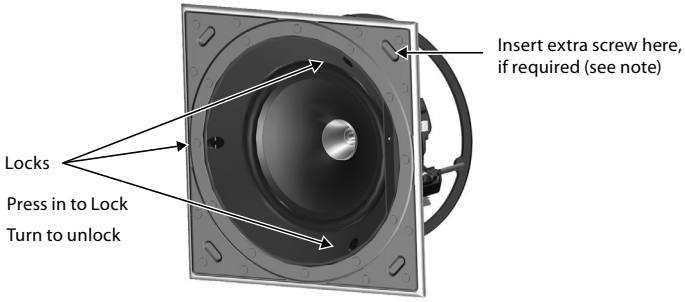
10. Use the supplied square or circular masks to help protect the speaker cones when painting.

Painting Masks in Place

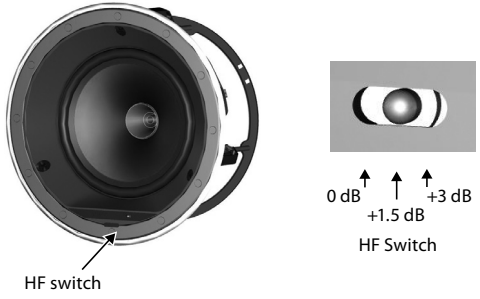
11. The grilles can be painted separately.
12. To mount the speaker into the mounted speaker frame, align the connecter on the speaker, with the corresponding connector on the speaker frame.

13. To lock the speaker in place in the frame, press down on the three lock buttons on the front of the speaker.

    Note: After installation, if the square baffle does not press flat against the drywall, insert a ½" screw in the oval depression in each corner of the baffle, and hand-tighten until the baffle is flat against the drywall.



14. To unlock the speaker from the speaker frame, first support the weight of the speaker, and rotate each lock with a screwdriver less than half a turn.
15. The HF switch has three positions, with 0 dB being flat. Adjust as necessary to suit the room position and acoustic conditions.



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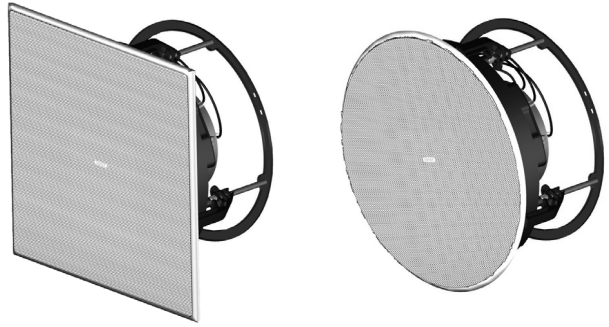
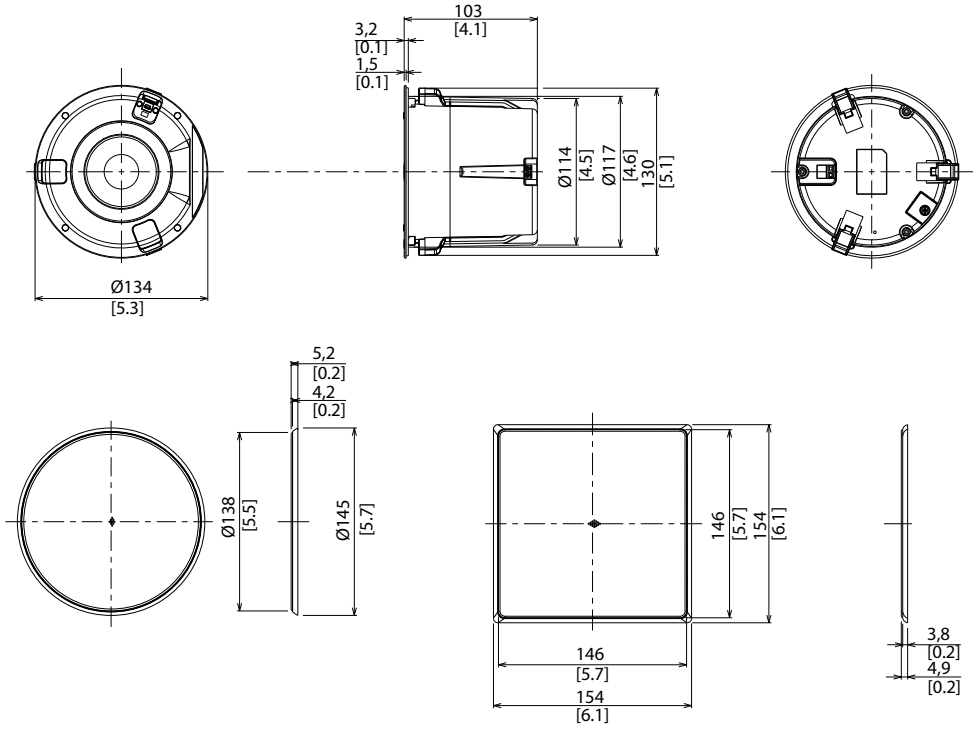
16. Install the square grille by pressing it into the square baffle. Small magnets hold it in place. Alternatively, install the circular grille by pressing it into the circular baffle.



QCI 3 Dimensions



Dimensions are mm [inch]

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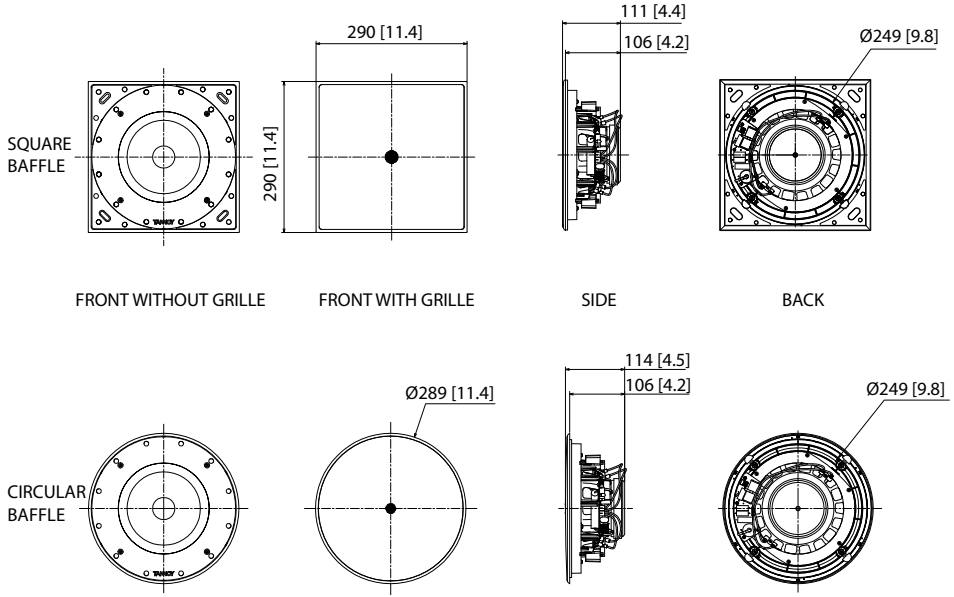
QCI 8DC Dimensions



Dimensions are mm [inch]

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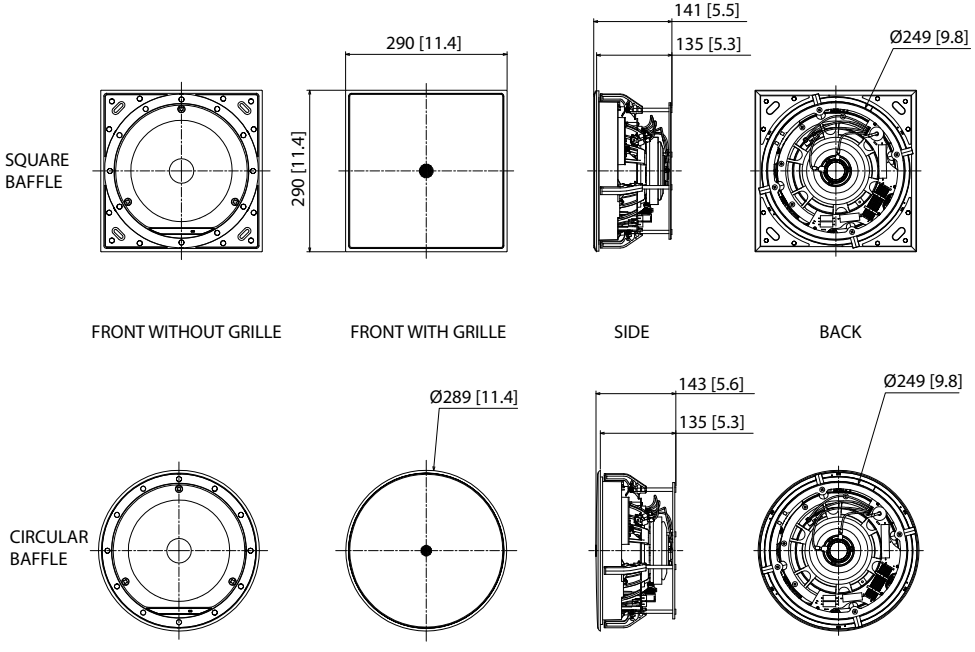
PCI 8DC Dimensions



Dimensions are mm [inch]

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Specifications

	QCI 3	QCI 8DC	PCI 8DC
Performance			
Frequency response (±3 dB)	110 Hz – 20 kHz	35 Hz – 20 kHz	50 Hz – 20 kHz
Frequency response (-10 dB)	80 Hz – 20 kHz	25 Hz – 20 kHz	30 Hz – 20 kHz
Sensitivity (1 W @ 1m)	84 dB	87 dB	
Directivity factor (Q)	6.4 averaged 1 kHz to 10 kHz	6.8 averaged 1 kHz to 10 kHz	6.6 averaged 1 kHz to 10 kHz
Directivity index (DI)	8 averaged 1 kHz to 10 kHz	8.3 averaged 1 kHz to 10 kHz	8.2 averaged 1 kHz to 10 kHz
Power handling (IEC)			
Average	40 W	80 W	
Programme	80 W	160 W	
Peak	160 W	320 W	
Recommended amplifier power	120 W @ 8 Ω	240 W @ 8 Ω	
Nominal Impedance (Lo Z)	8 Ω		
Rated maximum SPL (1 m, Lo Z)	103 dB	109 dB	
Average	100 dB	106 dB	
Peak	106 dB	112 dB	
Crossover point	NA	1.6 kHz	
Coverage angles			
500 Hz	180° horizontal, 180° vertical		180° horizontal, 145° vertical
1 kHz	180° horizontal, 180° vertical	117° horizontal, 117° vertical	117° horizontal, 135° vertical
2 kHz	135° horizontal, 135° vertical	108° horizontal, 108° vertical	85° horizontal, 99° vertical
4 kHz	66° horizontal, 66° vertical	121° horizontal, 121° vertical	124° horizontal, 141° vertical

	QCI 3	QCI 8DC	PCI 8DC
Transducers			
Low frequency diameter/ material/type	85 mm (3")	219 mm (8")	210 mm (8")
High frequency diameter/ material/type	—	25.4 mm (1")	
Physical			
Back can	—	Option 1 (BACK CAN S): Steel, with powder coating Option 2 (BACK CAN C1): High density expandable polystyrene (EPS)	Option 1 (BACK CAN S): Steel, with powder coating Option 2 (BACK CAN C2): High density expandable polystyrene (EPS)
Baffle	Reflex loaded UL94 V-0 rated ABS		
Grille	Steel, with weather resistant coating		
Clamping design	Security toggle clamp		
Connectors	Phoenix Contact terminal block		
Dimensions (HxWxD)	154 x 154 x 105 mm (6.1 x 6.1 x 4.1")	290 x 290 x 114 mm (11.4 x 11.4 x 4.5")	290 x 290 x 143 mm (11.4 x 11.4 x 5.6")
Bezel dimensions	Circular: φ145 mm (5.7") Square: 154 x 154 mm (6.1 x 6.1")	Circular: φ289 mm (11.4") Square: 290 x 290 mm (11.4 x 11.4")	
Mounting depth	100 mm (4.0")	106 mm (4.2")	135 mm (5.3")
Hole cutout dimensions	φ117 mm (4.6")	φ250 mm (9.8")	
Net weight	0.9 kg (1.98 lbs)	3.1 kg (6.8 lbs)	3.9 kg (8.6 lbs)
Packed quantity	2	1	
Included accessories	Square grille, square baffle, circular grille, screw	Square grille, square baffle, circular grille, circular baffle, circular paint mask, square paint mask, cutout template, screw	
Optional accessories	PMK 3	Option 1: BACK CAN S Option 2: BACK CAN C1 Option 3: PMK 8	Option 1: BACK CAN S Option 2: BACK CAN C2 Option 3: PMK 8

Other important information

EN **Important information**

1. Register online. Please register your new Music Tribe equipment right after you purchase it by visiting

using our simple online form helps us to process your repair claims more quickly and efficiently. Also, read the terms and conditions of our warranty, if applicable.

2. Malfunction. Should your Music Tribe Authorized Reseller not be located in your vicinity, you may contact the Music Tribe Authorized Fulfiller for your country listed under “Support” at

listed, please check if your problem can be dealt with by our “Online Support” which may also be found under “Support” at

BEFORE returning the product.

TANNOY